

संघ राज्य प्रशासन, लद्दाख

लोक निर्माण (आर एंड बी) विभाग



सत्यमेव जयते

THE ADMINISTRATION OF
UNION TERRITORY OF LADAKH

PUBLIC WORKS (R&B)
DEPARTMENT

F. No. P/90/2023-PWD(R&B)/1414-31

ई-मेल/email: pstocomsecutl@gmail.com

यूटी सचिवालय, लेह /UT Secretariat, Leh,
Dated:24.07.2024.

Subject: Adoption of Ladakh Schedule of Rates (LSoR)-2024 in the Engineering Departments of the UT of Ladakh reg..

**Order No.58-LA-PW(R&B) of 2024,
Dated:24.07.2024.**

Sanction is hereby accorded to the adoption and introduction of the Ladakh Schedule of Rates (LSoR)-2024 forming **Annexure-A** to this Order in all the Engineering Departments and UT Organization(s) executing civil works in the Union territory of Ladakh.

The Ladakh Scheduled of Rates (LSoR) shall be operative with effect from 01.08.2024 and shall supersede all previous schedules, rates analysis and orders, subject to the following conditions:

- i. All the agreements, work orders and contractual deeds pertaining to civil works allotted, prior to the date of introduction/operation of the Ladakh Schedule of Rates (LSoR)-2024 shall not be affected.
- ii. All estimations/tenders/NITs of civil works pertaining to Engineering Departments and UT Organization(s) executing civil works in the UT shall be as per the Ladakh Schedule of Rates (LSoR)-2024 w.e.f 01.08.2024.
- iii. In case of any items not covered in the Ladakh Schedule of Rates (LSoR)-2024, the power to fix and approve the rates of such item, on

ZAKIR
HUSSAIN

Digitally signed by
ZAKIR HUSSAIN
Date: 2024.07.24
12:52:44 +05'30'

I/24245/2024

the basis of proper rate analysis, shall rest with the Chief Engineer, PW(R&B)/PMGSY.

It is furthered ordered that the Chief Engineer, PW(R&B), shall keep the printed copies of the Ladakh Schedule of Rates (LSoR)-2024 readily available in his Office.

By order of the Administration of UT, Ladakh.

Sd/-

(माइकल एम डिसज़ा/Michael M. D'Souza) IAS

सचिव/Secretary,
Public Works (R&B) Department.

Copy to the:

1. All Administrative Secretaries of the Administration of UT of Ladakh.
2. Joint Secretary (Jammu, Kashmir & Ladakh), Ministry of Home Affairs, Government of India.
3. Secretary to Hon'ble Lieutenant Governor, UT of Ladakh.
4. Deputy Commissioners/CEOs, LAHDC, Leh/Kargil.
5. All Heads of the Departments.
6. Chief Engineers, Project Himank/Vinayak, BRO.
7. Chief Engineer, CPWD.
8. Chief Engineer, PW(R&B)/PMGSY.
9. Chief Engineer, PHE/I&FC.
10. Chief Engineer, Mechanical.
11. Deputy General Manager (P), NHIDCL, Ladakh.
12. All Superintending Engineers, of PW(R&B)/PHE/I&FC Department.
13. State Informatics Officer.
14. DIO, NIC Leh.
15. Pvt. Secretary to Advisor, Ladakh for information of the Advisor.
16. Superintendent Archive, Archaeology & Museums.
17. Pvt. Secretary to Administrative Secretary, Public Works (R&B) Department for information of the Secretary.
18. Order/Stock file (w.2.s.c)/e-file No.13953.

ZAKIR

HUSSAIN

Digitally signed by
ZAKIR HUSSAIN
Date: 2024.07.24
12:53:04 +05'30'

(जाकिर हुसैन/Zakir Hussain) JKAS,

प्रशासन के उप सचिव/Deputy Secretary to the Administration.



सत्यमेव जयते

ANNEXURE-A

**THE ADMINISTRATION OF UNION TERRITORY OF LAKADH
PUBLIC WORKS DEPARTMENT**



LADAKH SCHEDULE OF RATES 2024

Public Works Department

PREFACE

1. Ladakh Schedule of Rates-LSoR 2024 is the first SoR drafted after declaration of Ladakh as a separate UT. This is a key document for all Engineering Departments and provides basic inputs for cost estimation, tender evaluation and fixation of contracts. Efforts have been made to observe a high degree of precision while preparing the document which shall help to avoid discrepancies, disputes that otherwise results in wastage of time as well as cost over-run in implementation of Projects and completion of work resulting in taxing the Government exchequer.
2. Analysis of Rates-2024 has been followed while working out the rates of items of works in general.
3. Schedule of Rates-2024 categorized into 34 Chapters including Chapters 33 and 34 for Cement and Bitumen consumption.
4. New Technology Items have been included in Chapter No 31.
5. Local Items of Ladakh have been duly incorporated in Chapter 32 Schedule of Rates - 2024.
6. The Basic Rates adopted in this revised version of Schedule of Rates-2024 have been finalized after study of current market rates of Materials, Labour, machinery and equipment's prevalent local market rate up to March 2023.
7. This Schedule of Rates is intended for adoption in all departments, autonomous / non-autonomous bodies executing civil engineering works throughout the U.T. of Ladakh. The rates in the Schedule are intended to apply to every description of works that may be required in construction, maintenance and periodical repairs of Buildings/Roads/Canals/Water Supply of all kinds belonging to or acquired or hired or occupied by the Administration Union Territory Ladakh for any work carried under the agency of the concerned Department.
8. The Technical sanctioning authority may decide rates of non-schedule items judiciously based on market rates without adding cost index.
9. This LSoR 2024 shall be read along with CPWD Specifications with up-to-date corrections.
10. The Basic Rates of materials, incorporated in the analysis, pertain to materials conforming to BIS standards/CPWD Specifications/Materials of good quality generally available in the market.
11. The effect of GST at rates as applicable with multiplying facto as per CPWD DSR on works contracts has been incorporated in analysis of all items.
12. Contractor's profit and overheads @ 15% has been adopted Ladakh Schedule of Rates-2024
13. I appreciate the whole hearted efforts and team work under the supervision of both the Superintending Engineer PW(R&B) Leh/ Kargil and their technical staff who accomplished the task of formulation of Ladakh's New Schedule of Rates-2024 and would like to thanks Administrative Secretary Public Works Department UT Ladakh "Chairman" for continuous review of the progress of LSoR formulation time to time. Despite due care taken in preparation of error free New Ladakh Schedule of Rates-2024, some errors might have crept in inadvertently. However, if any error/omissions are noticed the same may be brought to the notice to Office of Chief Engineer PW(R&B)/PMGSY UT Ladakh for issuance of corrigendum thereof. Suggestions for further improvement and modification are always welcome and may kindly be forwarded to this office in writing.

Suggestions from all stakeholders are most welcome.

Sd/-
(Er. Abdul Mutalib)
Chief Engineer, Public Works Department, Union Territory of Ladakh.

CONTENTS		
S.No.	Description of items	Page No
	BASIC RATES	
0.1	Hire charges of Plants & Machinery	1-3
0.2	Labour	4-5
0.3	Materials	6-72
0.4	Carriage Codes	73-74
	SUB HEADS	
1.0	Carriage of Materials	75-83
2.0	Earth work	84-88
3.0	Mortar	89-89
4.0	Concrete Work	90-95
5.0	Reinforced Cement Concrete	96-106
6.0	Masonry Work	107-111
7.0	Stone Work	112-115
8.0	Cladding Work	116-121
9.0	Wood and PVC Work	122-152
10.0	Steel Work	153-155
11.0	Flooring Work	156-165
12.0	Roofing Work	166-179
13.0	Finishing Work	180-190
14.0	Repairs to Building	191-199
15.0	Dismantling and Demolishing	200-205
16.0	Road Work	206-223
17.0	Sanitary Installations	224-235
18.0	Water Supply	236-255
19.0	Drainage	256-263
20.0	Pile Work	264-265
21.0	Aluminium Work	266-269
22.0	Water Proofing	270-275
23.0	River and Canal Protection Work	276-277
24.0	Canal Lining Works	278-279
25.0	Snow Clearance	280-280
26.0	Slip Clearance	281-281
27.0	Rain Water Harvasting and Tube Wells	282-284
28.0	Conservation Of Heritage Building	285-286
29.0	Horticulture and Land Scaping	287-289
30.0	Structural Glazing Aluminium Composit Panel	290-293
31.0	New Technologies & Materials	294-321
32.0	Special Items for Ladakh	322-323
33.0	Coefficients for Cement Consumption	324-348
34.0	Coefficients for Bitumen Consuption	349-351

BASIC RATES**0.1 HIRE CHARGES OF PLANTS & MACHINERY****Note :- These rates are exclusive of GST, contractor's profit and over heads etc.**

Code No.	Description	Unit	Basic rate 2023-24
0001	Hire charges of Coaltar Boiler 900 to 1400 litres	day	935.00
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	1190.00
0003	Hire charges of Diesel Road Roller - 8 to 10 tonne	day	3570.00
0004	Production cost of concrete by batch mix plant	cum	417.00
0005	Hire charges of Diesel Truck - 9 tonne (with POL)	day	2975.00
0006	Hire charges of Spraying machine including electric charges	day	680.00
0007	Hire charges of Coaltar Sprayer	day	765.00
0008	Hire charges of Barber green, drying, mixing and Asphalt Plant, with accessories, capacity 30/45 tonne	day	9163.00
0009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	255.00
0010	Hire charges of Derrick monkey rope	day	893.00
0011	Hire charges of Pump set of capacity 4000 litres/hour	day	850.00
0012	Vibrator (Needle type 40 mm)	day	1190.00
0013	Machine for rubbing of floors	day	595.00
0014	Front end loader capacity 1.00 cum	day	7140.00
0015	Hire and running charges of Tripod and Mechanical Winch machine complete with power unit and accessories	day	2295.00
0016	Mastic Cooker	day	893.00
0017	Hire and running charges of tipper	day	2975.00
0018	Hire and running charges of loader	day	6460.00
0019	Hand Grinder for mirror polish	day	595.00
0020	Hydraulic Excavator (3D) with driver and fuel	day	11645.00
0021	Pin vibrator	day	808.00
0022	Surface Vibrator	day	850.00
0023	Hot Bitumen Mixer 0.5 cum i/c hand cart	day	4165.00
0024	Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site	day	35700.00
0025	Hire and running charges of light crane	day	3570.00
0026	Hire and running charges of bentonite pump	day	4420.00
0027	Hire and running charges of vibrating pile driving hammer complete with power unit and accessories	day	35700.00
0028	Hire and running charges of crane 20 tonne capacity	day	9648.00
0029	Carriage of ready mixed concrete by rotatory transit mixer	km/cum	36.00
0030	Generator 250 KVA	day	2975.00
0031	Steam curing by using boiler /Heater	cum	595.00
0032	Stressing Machine (jack with pump)	day	13685.00
0033	Paint applicator	day	893.00
0034	Cutting saw machine	day	1615.00
0035	Strands Roller machinery for laying strands	day	4165.00
0036	Bed master (Pulling strands)	day	3570.00
0037	Mobile crane	day	8925.00
0038	Tractor with ripper attachment	day	1445.00
0039	Tractor with trolley	day	1615.00
0040	Air compressor 250 cfm with two leads for pneumatic cutters / hammers	day	1913.00
0041	Joint cutting machine with 2-3 blades	day	1148.00

Code No.	Description	Unit	Basic rate 2023-24
0042	C.C .batch mix plant	day	11900.00
0043	Road sweeper	day	680.00
0044	Cost for crane upto 40 tonne capacity	day	9520.00
0045	Slip form paver with sensor	day	15470.00
0046	Water tanker 5000 litre	day	1445.00
0047	Concrete joint cutting machine	day	1105.00
0048	Texturing machine	day	1105.00
0049	Dozer D-80-A 12	hour	1785.00
0050	Motor Grader 3.35 metre blade	hour	2933.00
0051	Hydraulic Excavator of 1 cum bucket	hour	1190.00
0052	Front end loader 1 cum bucket capacity (incl POL)	hour	1148.00
0053	Tipper-5 Cum/10 tonnes	tonne/km	7.00
0054	Vibratory roller 8 to 10 tonne	hour	1615.00
0055	Smooth Wheeled Roller 8 to 10 tonne	hour	468.00
0056	Tandem Road Roller	hour	1445.00
0057	Water Tanker 5 to 6 KL capacity	hour	213.00
0058	Air compressor	hour	340.00
0059	Wet Mix Plant 60 TPH	hour	1275.00
0060	Mechanical Broom Hydraulic	hour	425.00
0061	Emulsion Pressure Distributor of capacity 1750 sqm per hour	hour	1750.00
0062	Hot mix Plant -120 TPH capacity	hour	24009.00
0063	Hot mix Plant 100 TPH Capacity	hour	18267.00
0064	Paver finisher Hydrostatic with sensor control 100 TPH	hour	2848.00
0065	Paver finisher Mechanical 100 TPH	hour	1020.00
0066	Batching and Mixing Plant @ 75 cum per hour	hour	2848.00
0067	Cost for crane upto 80 tonne capacity	day	17850.00
0068	Concrete Paver finisher with 40 HP Motor and sensor	hour	3570.00
0069	Generator 250 KVA	hour	383.00
0070	Generator 100 KVA/125 KVA	hour	255.00
0071	Truck 5.5 cum/10 tonnes	tonne /km	5.00
0072	Cost for crane having capacity 50MT	day	10115.00
0075	Road sweeper (Mechanical Broom) @ 1250 sqm per hour	hour	1250.00
0076	Drum Type HMP of 60-90 TPH capacity @ 75 tonne per hour actual output	hour	14450.00
0080	Hire and running charges of drill machine up to 400 mm dia (including cost of mobile oil, diesel consumption in ordinary soil and operator)	day	8925.00
0081	Pile Integrity testing equipment	day	3570.00
0082	Excavation of Diaphragm wall by Mechanical Grab	sqm	1573.00
0083	Hire charges of TATA 407 or equivalent for local shifting.	day	2125.00
<p>Note :- 1. Above hire - charges (from item code 0001 to 0083) include cost of services of operating staff, Cost of lubricating oil, diesel / Petrol/ Kerosene oil , other consumables for running the plant and machinery and excluding GST.</p> <p>2. The hire charges of plant machinery on per day basis are for single shift of eight working hours.</p>			
0084	Hire charges of diesel truck - 9 tonne (witout POL)	day	2550.00
0085	Using cost of Ultra Violet Radiation tube	Hour	255.00
0086	Compressor, gun, rubber pipes & other accessories- hire charge of plant & machinery i/c necessary fuel	day	4760.00

Code No.	Description	Unit	Basic rate 2023-24
0087	Hire Charges of Suction Jeting machine 2200 PSI machine i/c POL and operator	day	42840.00
0088	Hire charges of Drill machine upto 30 mm dia	day	255.00
0089	Hire charges of sand blasting equipment	day	255.00
0090	Hire charges of compressor	day	510.00
0091	Welding charges of shear key to existing reinforcement	each	6.00
0092	Hire charges of plant and Machinery that can inject 350 kg/day	day	255.00
0093	Hire Charges of Suction Jeting machine 1500 PSI machine i/c POL and operator	day	9520.00
0094	Hydrolic Rock Breakers	Hour	4463.00

BASIC RATES**0.2 LABOUR**

Note:- These rates are exclusive of GST, contractor's profit and over heads and are inclusive of wages for weekly day of rest.

Code No.	Description	Unit	Basic rate 2023-24
100	Bandhani	day	680
101	Bhisti	day	680
102	Blacksmith 1st class	day	893
103	Blacksmith 2nd class	day	850
111	Carpenter 1st class	day	893
112	Carpenter 2nd class	day	850
113	Chowkidar	day	595
114	Beldar	day	595
115	Coolie	day	595
116	Fitter (grade 1)	day	893
117	Assistant Fitter or 2nd class Fitter	day	850
119	Glazier	day	850
122	Mason (for plaster of paris work) 1st class	day	893
123	Mason (brick layer) 1st class	day	893
124	Mason (brick layer) 2nd class	day	808
125	Mason (for plain stone work) 2nd class	day	893
126	Mason (for ornamental stone work) 1st class	day	935
127	Driver for (Road roller, concrete mixer, Trucks etc.)	day	893
128	Mate	day	850
129	Sewer man	day	1700
130	Mistry	day	893
131	Painter	day	808
132	Rock Excavator	day	680
133	Rock Breaker	day	680
134	Rock Hole Driller	day	680
135	Stone Chiseller	day	680
138	Sprayer (for bitumen, tar etc.)	day	680
139	Skilled Beldar (for floor rubbing etc.)	day	680
141	White Washer	day	680
154	Nozzel man/ gun man	day	680
0155*	Mason (average)	day	935
0156*	Carpenter (average)	day	935
157	Operator (Pile/ Special machine)	day	893
159	Skilled torch operator for laying tack	day	808
160	Technician	day	893
161	Helper (Technician)	day	595
162	Labour for fabrication of uPVC extruded casement/ sliding windows and doors including drilling holes, fixing of fittings of hardwares, hire charges of drill machine and electricity charges etc.	Day	765
163	Labour for installation of uPVC extruded casement/ sliding windows and doors including scaffolding	day	595
164	Security guard without gun (8 hours shift duty per day)	day	680
165	Security guard with gun (8 hours shift duty per day)	day	808
166	Installation charges for fixing of façade at all heights with extruded hollow clay/terracotta ventilated rain screen tiles	day	935
167	Polisher 1st class	day	893
168	Polisher 2nd class	day	765
169	Specialized technicians/Surveyor	day	1020
170	Boat driver on lake/ supervisor	day	550

***Note:These rates are average of 1st class and 2nd class categories.These are for use in the analysis of rates only.**

BASIC RATES
0.3 MATERIALS

Note:- These rates are exclusive of GST, contractor's profit and over heads and carriage etc.

Code No.	Description	Unit	Basic rate 2023-24
222	Seam bolts and nuts 6 mm dia and 25 mm long	10 Nos	20.00
223	Fibre reinforced by organic fibres and/or inorganic synthetic fibres cement corrugated sheet 6 mm thick	sqm	268.00
224	Fibre reinforced by organic fibres and/or inorganic synthetic fibres cement close fitting adjustable ridge	metre	250.00
225	Fibre reinforced by organic fibres and/or inorganic synthetic fibres cement corrugate serrated adjustable ridge	metre	250.00
226	Fibre reinforced by organic fibres and/or inorganic synthetic fibres cement plain wing adjustable ridge	metre	250.00
227	Fibre (high impact poly propylene reinforced) cement unserrated adjustable ridge for hips	metre	250.00
228	Fibre reinforced by organic fibres and/or inorganic synthetic fibres cement corrugated apron piece	metre	238.00
229	Fibre reinforced by organic fibres and/or inorganic synthetic fibres cement eaves filler piece	each	209.00
230	Fibre reinforced by organic fibres and/or inorganic synthetic fibres cement north light curves	metre	334.00
231	Fibre reinforced by organic fibres and/or inorganic synthetic fibres cement ventilator curves	each	369.00
232	Fibre reinforced by organic fibres and/or inorganic synthetic fibres cement barge boards boards 6 mm thick	metre	476.00
233	Fibre reinforced by organic fibres and/or inorganic synthetic fibres cement ridge finial	pair	197.00
234	Fibre reinforced by organic fibres and/or inorganic synthetic fibres cement special north light curves	each	661.00
235	Fibre reinforced by organic fibres and/or inorganic synthetic fibres cement S type louvers	each	310.00
236	Multi purpose fibre reinforced by organic fibres and/or inorganic synthetic fibres cement board 6 mm thick	sqm	302.00
237	Multi purpose fibre reinforced by organic fibres and/or inorganic synthetic fibres cement board 8 mm thick	sqm	298.00
238	6 mm thick heavy duty fiber cement board	sqm	480.00
239	8 mm thick heavy duty fiber cement board	sqm	360.00
240	9 mm thick heavy duty fiber cement board	sqm	893.00
241	12.5 mm thick Gypsum plaster board	sqm	425.00
242	6 mm thick multipurpose cement bonded wood particle board conforming to IS : 14276	sqm	383.00
243	8 mm thick multipurpose cement bonded wood particle board conforming to IS : 14276	sqm	348.00
244	Factory made light weight composite non asbestos fibre reinforced aerated cement sandwiched wall/roof panel (50mm thick). The outer face on both sides of the panels will be non asbestos fibre cement board (minimum 4mm thick) confirming to IS 14862:2000	sqm	755.00

Code No.	Description	Unit	Basic rate 2023-24
245	Factory made light weight non asbestos fibre reinforced aerated cement sandwiched wall/roof panel (75mm thick). The outer face on both sides of the panels will be non (minimum 5mm thick) confirming to IS 14862:2000asbestos fibre cement board	sqm	939.00
246	2mm thick sim pad	each	12.00
247	5mm thick sim pad	each	18.00
248	10mm thick sim pad	each	30.00
249	10 mm thick Cement Bonded particle board confirming to IS 14276	sqm	485.00
278	Manufactured sand derived from Recycled Concrete Aggregate (RCA)	cum	756.00
279	Recycled Concrete Aggregate (RCA) 20 mm nominal size	cum	977.00
280	Recycled Concrete Aggregate (RCA) 12.5 mm nominal size	cum	977.00
281	Recycled Concrete Aggregate (RCA) 10 mm nominal size	cum	977.00
282	Recycled Aggregate (RA) 40 mm nominal size	cum	375.00
283	Recycled Aggregate (RA) 20 mm nominal size	cum	406.00
284	Recycled Aggregate (RA) 10 mm nominal size	cum	439.00
285	Brick Aggregate (Single size) : 63 mm nominal size	cum	714.00
286	Brick Aggregate (Single size) : 50 mm nominal size	cum	714.00
287	Brick Aggregate (Single size) : 40 mm nominal size	cum	714.00
291	Stone Aggregate (Single size) : 63 mm nominal size	cum	765.00
292	Stone Aggregate (Single size) : 50 mm nominal size	cum	765.00
293	Stone Aggregate (Single size) : 40 mm nominal size	cum	765.00
294	Stone Aggregate (Single size) : 25 mm nominal size	cum	765.00
295	Stone Aggregate (Single size) : 20 mm nominal size	cum	935.00
296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	935.00
297	Stone Aggregate (Single size) : 10 mm nominal size	cum	935.00
298	Stone Aggregate (Single size) : 06 mm nominal size	cum	935.00
302	Safeda ballies 125 mm diameter	meter	75.00
302A	Local ballies Average diameter 350 mm	metre	730.00
302B	Local ballies Average diameter 225 mm	metre	650.00
302C	Local ballies Average diameter 900 mm	metre	780.00
302D	Local ballies Average diameter 1200 mm	metre	950.00
303	Cowdung	cum	298.00
304	Bajri	cum	1071.00
305	Bamboo 25 mm dia 2.5 metre long	score	476.00
308	Bhusa	quintal	714.00
309	Paving bitumen of grade VG-10 of approved quality	tonne	57800.00
310	Bitumen emulsion	tonne	57800.00
312	Bitumen grade PMB - 40	tonne	89061.60
313	Blown type petroleum bitumen of penetration 85/25 of approved quality	tonne	41769.00
314	Bitumen hot sealing compound : grade A	kg	58.00
316	Bitumen solution primer of approved quality	litre	62.00
317	Premoulded joint filler 12 mm thick	sqm	425.00
318	Bitumen felt fibre base (vegetable or animal):As per IS 7193 Grade I	sqm	72.00
319	Bitumen felt as per IS 7193 Grade II	sqm	82.00
322	Bitumen felt :Type 3 grade 1	sqm	72.00
323	Separation Membrane of impermeable plastic sheeting 125 micron thick	sqm	13.00
324	Coal Tar	litre	43.00
325	Blasting powder	kg	170.00

Code No.	Description	Unit	Basic rate 2023-24
326	Blasting fuse (fuse wire)	each	26.00
328	White face insulating board: 12 mm thick	sqm	387.00
332	Natural colour insulating board: 12 mm thick	sqm	280.00
336	Flame retardant face insulating board: 12 mm thick	sqm	435.00
339	Flame retardant face insulating, Impregnated fibre board 12 mm thick	sqm	506.00
341	Flat pressed 3 layer particle board (medium density) Grade 1, 12 mm thick	sqm	304.00
346	Extra for veneered particle board with Teak veneering on one side and commercial veneering on other side	sqm	283.00
347	Extra for veneered particle board with Commercial veneering on both sides	sqm	189.00
348	Extra for veneered particle board with Teak veneering on both sides	sqm	595.00
349	Curing compound	litre	51.00
351	Integral crystalline slurry	kg	230.00
352	Integral crystalline admixture	kg	272.00
353	Crystalline mortar	kg	221.00
354	Integral crystalline dry shake	kg	332.00
355	Swellable type water stop tape	metre	434.00
356	Primer for swellable type water stop tape	litre	1828.00
357	Polymer modified adhesive mortar	kg	22.00
362	Brick bats	cum	595.00
364	Wire brush	each	39.00
365	Soft brush	each	34.00
367	Portland Cement (OPC-43 Grade)	tonne	11600.00
368	White Cement	tonne	33150.00
369	Plastic sheet,1.25 mm thick for dowel bars	sqm	43.00
370	Coal (steam)	quintal	536.00
371	Sealant primer	kg	170.00
373	Cramp Gun metal 25x6x300 mm	each	85.00
374	Pre moulded Joint filler, 25 mm thick for expansion joint.	sqm	510.00
378	Brass butt hinges (light/ordinary type) : 125x70x4 mm	10 Nos	1012.00
379	Brass butt hinges (light/ordinary type) : 100x70x4 mm	10 Nos	810.00
380	Brass butt hinges (light/ordinary type) : 75x40x2.5 mm	10 Nos	500.00
381	Brass butt hinges (light/ordinary type) : 50x40x2.5 mm	10 Nos	209.00
382	Brass butt hinges (heavy type) : 125x85x5.5 mm(0.70 kg)	10 Nos	1714.00
383	Brass butt hinges (heavy type) : 100x85x5.5 mm(0.56 kg)	10 Nos	1309.00
384	Brass butt hinges (heavy type) :75x65x4.0 mm (weighing not less than 0.20 kg)	10 Nos	1095.00
385	Brass parliamentary hinges 150x125x27x5 mm	10 Nos	3416.00
386	Brass parliamentary hinges 125x125x27x5 mm	10 Nos	3011.00
387	Brass parliamentary hinges 100x125x27x5 mm	10 Nos	2737.00
388	Brass parliamentary hinges 75x100x20x3.2 mm	10 Nos	2380.00
389	Brass single acting spring hinges 150 mm	each	548.00
390	Brass single acting spring hinges 125 mm	each	381.00
391	Brass single acting spring hinges 100 mm	each	357.00
392	Brass double acting spring hinges 150 mm	each	631.00
393	Brass double acting spring hinges 125 mm	each	536.00
394	Brass double acting spring hinges 100 mm	each	500.00
400	Brass tower bolt (barrel type) 250x10 mm	each	306.00
401	Brass tower bolt (barrel type) 200x10 mm	each	244.00
402	Brass tower bolt (barrel type) 150x10 mm	each	184.00

Code No.	Description	Unit	Basic rate 2023-24
403	Brass tower bolt (barrel type) 100x10 mm	each	124.00
404	Brass flush bolt 250 mm	each	179.00
405	Brass flush bolt 150 mm	each	155.00
406	Brass flush bolt 100 mm	each	108.00
408	Brass handles 125 mm with plate 175x32 mm	each	197.00
409	Brass handles 100 mm with plate 150x32 mm	each	185.00
410	Brass handles 75 mm with plate 125x32 mm	each	143.00
411	Brass door latch 300x16x5 mm weighing not less than 0.380 kg	each	238.00
412	Brass door latch 250x16x5 mm weighing not less than 0.350 kg	each	233.00
413	Brass mortice latch and lock 100x65 mm with 6 levers and a pair of brass lever handles	each	524.00
414	Brass mortice latch 100x65mm with a pair of brass lever handles	each	417.00
417	Brass 150 mm floor door stopper weighing not less than 0.357kg	each	221.00
418	Brass hard drawn hooks and eyes 300 mm	10 Nos	833.00
419	Brass hard drawn hooks and eyes 250 mm	10 Nos	810.00
420	Brass hard drawn hooks and eyes 200 mm	10 Nos	607.00
421	Brass hard drawn hooks and eyes 150 mm	10 Nos	476.00
422	Brass hard drawn hooks and eyes 100 mm	10 Nos	411.00
423	Brass casement window fastener	each	54.00
424	Brass casement stays (straight peg type) 300 mm weighing not less than 0.33 kg	each	179.00
425	Brass casement stays (straight peg type) 250 mm weighing not less than 0.28 kg	each	119.00
426	Brass casement stays (straight peg type) 200 mm weighing not less than 0.24 kg	each	119.00
427	Brass quadrant stays 300 mm	each	131.00
428	Brass fanlight catch	10 Nos	238.00
429	Brass fanlight pivot	10 Nos	238.00
430	Brass chain with hook for fan light catch	each	48.00
431	Brass hasps and staples (safety type) 150 mm	10 Nos	1012.00
432	Brass hasps and staples (safety type) 115 mm	10 Nos	893.00
433	Brass hasps and staples (safety type) 90 mm	10 Nos	774.00
438	Brass night latch	each	786.00
442	Brass helical spring 150 mm	each	296.00
444	Brass curtain rod 20 mm dia 1.25 mm thick	metre	179.00
445	Brass curtain rod 25 mm dia 1.25 mm thick	metre	250.00
446	Brass brackets (curtain rods) 20 mm	each	60.00
447	Brass cupboard knob or wardrobe knob 50 mm	each	48.00
449	Brass screws 50 mm	100 Nos	316.00
450	Brass screws 40 mm	100 Nos	203.00
451	Brass screws 30 mm	100 Nos	167.00
452	Brass screws 25 mm	100 Nos	119.00
453	Brass screws 20 mm	100 Nos	131.00
454	Stainless steel SS grade 304 , curtain rod 20 mm dia 1.20mm thick	metre	173.00
455	Stainless steel SS grade 304, curtain rod 25 mm dia 1.20mm thick	metre	215.00
456	Stainless steel SS grade 304, brackets (curtain rod) 20 mm dia 1.20mm thick	each	66.00
457	Stainless steel SS grade 304, brackets (curtain rod) 25 mm dia 1.20mm thick	each	72.00
458	plastic sleeves for screw	each	3.00
524	Chromium plated Brass butt hinges (heavy) type 75x65x4 mm weighing not less than 200gms	10 Nos	1185.00
525	Chromium plated Brass butt hinges (light/ordinary) type 125x70x4mm	10 Nos	958.00

Code No.	Description	Unit	Basic rate 2023-24
526	Chromium plated Brass butt hinges (light/ordinary) type 100x70x4 mm	10 Nos	857.00
527	Chromium plated Brass butt hinges (light/ordinary) type 75x40x2.5 mm	10 Nos	548.00
528	Chromium plated Brass butt hinges (light/ordinary) type 50x40x2.5 mm	10 Nos	238.00
552	75mm SS fancy handles for kitchen cabinet	10 Nos.	304.00
553	100mm SS fancy handles for kitchen cabinet	10 Nos	560.00
554	125mm SS fancy handles for kitchen cabinet	10 Nos	774.00
555	Chromium plated Brass handles 125 mm with plate 175 x32 mm	each	227.00
556	Chromium plated Brass handles 100 mm with plate 150 x 32 mm	each	203.00
557	Chromium plated Brass handles 75mm with plate 125x32 mm	each	173.00
558	Chromium plated Brass mortice latch and lock 100x65 mm with 6 levers and a pair of brass lever handles	each	655.00
568	Chromium plated brass casement window fastener	each	108.00
569	Chromium plated Brass casement stays (straight peg type) 300 mm weighing not less than 0.33 kg	each	185.00
570	Chromium plated Brass casement stays (straight peg type) 250 mm weighing not less than 0.28 kg	each	161.00
571	Chromium plated Brass casement stays (straight peg type) 200 mm weighing not less than 0.24 kg	each	143.00
583	Chromium plated Brass Night latch	each	655.00
584	Chromium plated Brass Wardrobe Knob 50 mm	each	108.00
585	Chromium plated Brass screws 50 mm	100 Nos	393.00
586	Chromium plated Brass screws 40 mm	100 Nos	381.00
587	Chromium plated Brass screws 30 mm	100 Nos	316.00
588	Chromium plated Brass screws 25 mm	100 Nos	238.00
589	Chromium plated Brass screws 20 mm	100 Nos	209.00
590	Chromium plated Brass curtain rod 12 mm dia 1.25mm thick	metre	244.00
591	Chromium plated Brass curtain rod 20 mm dia 1.25mm thick	metre	340.00
592	Chromium plated Brass curtain rod 25 mm dia 1.25mm thick	metre	447.00
593	C.P. Brass Extension Nipple (1/2"x2" size)	each	54.00
594	Bright finished or black enameled mild steel butt hinges 125x65x2.12 mm	10 Nos	197.00
595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	119.00
596	Bright finished or black enameled mild steel butt hinges 75x47x1.70 mm	10 Nos	78.00
597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 Nos	66.00
608	Nickel plated bright finished mild steel piano hinges 1 mm thick 25 mm wide	metre	54.00
616	250x10 mm tower bolts (barrel type)	each	54.00
617	200x10 mm tower bolts (barrel type)	each	43.00
618	150x10 mm tower bolts (barrel type)	each	34.00
619	100x10 mm tower bolts (barrel type)	each	24.00
620	125 mm handles	each	24.00
621	100 mm handles	each	22.00
622	75 mm handles	each	21.00
626	150 mm hooks and eyes	ten	298.00
627	100 mm hooks and eyes	ten	268.00
634	Helical door spring 150 mm	each	85.00
635	Bright finished or black enameled mild steel screws 50 mm	100 Nos	102.00

Code No.	Description	Unit	Basic rate 2023-24
636	Bright finished or black enameled mild steel screws 45 mm	100Nos	90.00
637	Bright finished or black enameled mild steel screws 40 mm	100 Nos	84.00
638	Bright finished or black enameled mild steel screws 30 mm	100 Nos	62.00
639	Bright finished or black enameled mild steel screws 25 mm	100 Nos	48.00
640	Bright finished or black enameled mild steel screws 20 mm	100 Nos	42.00
641	Bright finished or black enameled mild steel bolts and nuts 50x6 mm	each	10.00
642	Oxidised mild steel butt hinges 125x65x2.12 mm	10 Nos	173.00
643	Oxidised mild steel butt hinges 100x58x1.90 mm	10 Nos	131.00
644	Oxidised mild steel butt hinges 75x47x1.70 mm	10 Nos	90.00
645	Oxidised mild steel butt hinges 50x37x1.50 mm	10 Nos	75.00
646	Oxidised mild steel parliamentary hinges 150x125x27x2.8 mm	10 Nos	429.00
647	Oxidised mild steel parliamentary hinges 125x125x27x2.8 mm	10 Nos	387.00
648	Oxidised mild steel parliamentary hinges 100x125x27x2.8 mm	10 Nos	328.00
649	Oxidised mild steel parliamentary hinges 75x100x20x2.24 mm	10 Nos	268.00
650	Oxidised mild steel single acting spring hinges 150 mm	each	191.00
651	Oxidised mild steel single acting spring hinges 125 mm	each	167.00
652	Oxidised mild steel single acting spring hinges 100 mm	each	141.00
653	Oxidised mild steel double acting spring hinges 150 mm	each	215.00
654	Oxidised mild steel double acting spring hinges 125 mm	each	191.00
655	Oxidised mild steel double acting spring hinges 100 mm	each	167.00
656	Nickel plated mild steel piano hinges 1 mm thick 35 mm wide	metre	62.00
660	Oxidised mild steel sliding door bolt 300x16 mm	each	128.00
661	Oxidised mild steel sliding door bolt 250x16 mm	each	115.00
662	Oxidised mild steel door latch 300x20x6 mm	each	72.00
663	Oxidised mild steel door latch 250x20x6 mm	each	54.00
664	Oxidised mild steel tower bolt (barrel type) 250x10 mm	each	60.00
665	Oxidised mild steel tower bolt (barrel type) 200x10 mm	each	51.00
666	Oxidised mild steel tower bolt (barrel type) 150x10 mm	each	42.00
667	Oxidised mild steel tower bolt (barrel type) 100x10 mm	each	30.00
668	Oxidised mild steel handles 125 mm	each	30.00
669	Oxidised mild steel handles 100 mm	each	22.00
670	Oxidised mild steel handles 75 mm	each	18.00
675	Oxidised mild steel hooks and eyes 100 mm	each	119.00
676	Oxidised mild steel door latch fan light catch	each	108.00
677	Oxidised mild steel fan light pivot	each	118.00
679	Oxidised mild steel hasps and staples (safety type) 150 mm	10 Nos	177.00
680	Oxidised mild steel hasps and staples (safety type) 115 mm	10 Nos	148.00
681	Oxidised mild steel hasps and staples (safety type) 90 mm	10 Nos	108.00
682	Oxidised mild steel screws 50 mm	100 Nos	108.00
683	Oxidised mild steel screws 40 mm	100 Nos	91.00
684	Oxidised mild steel screws 30 mm	100 Nos	71.00
685	Oxidised mild steel screws 25 mm	100 Nos	56.00
686	Oxidised mild steel screws 20 mm	100 Nos	51.00
687	Anodised Aluminium butt hinges 125x75x4 mm	10 Nos	595.00
688	Anodised Aluminium butt hinges 125x63x4 mm	10 Nos	536.00
689	Anodised Aluminium butt hinges 100x75x4 mm	10 Nos	432.30
690	Anodised Aluminium butt hinges 100x63x3.2 mm	10 Nos	453.00
691	Anodised Aluminium butt hinges 100x63x4 mm	10 Nos	453.00
692	Anodised Aluminium butt hinges 75x63x4 mm	10 Nos	393.00
693	Anodised Aluminium butt hinges 75x63x3.2 mm	10 Nos	314.00

Code No.	Description	Unit	Basic rate 2023-24
694	Anodised Aluminium butt hinges 75x45x3.2 mm	10 Nos	280.00
696	Anodised Aluminium sliding door bolt 300x16 mm	each	209.00
697	Anodised Aluminium sliding door bolt 250x16 mm	each	167.00
698	Anodised Aluminium tower bolt (barrel type) 300x10 mm	10 Nos	732.00
699	Anodised Aluminium tower bolt (barrel type) 250x10 mm	10 Nos	595.00
700	Anodised Aluminium tower bolt (barrel type) 200x10 mm	10 Nos	476.00
701	Anodised Aluminium tower bolt (barrel type) 150x10 mm	10 Nos	417.00
702	Anodised Aluminium tower bolt (barrel type) 100x10 mm	10 Nos	298.00
703	Anodised Aluminium handles 125 mm with plate 175 x 32 mm	10 Nos	453.00
704	Anodised Aluminium handles 100 mm with plate 150 x 32 mm	10 Nos	381.00
705	Anodised Aluminium handles 75mm with plate 125 x 32 mm	10 Nos	322.00
706	Anodised Aluminium kicking plate 50 cm long 100x3.15 mm	each	191.00
713	Block board construction flush door with teak wood ply on both faces 35 mm thick	sqm	2433.00
714	Block board construction flush door with teak wood ply on both faces 30 mm thick	sqm	2202.00
715	Block board construction flush door with teak wood ply on both faces 25 mm thick	sqm	2049.00
717	Block board construction flush door with commercial ply on both faces 35 mm thick	sqm	1405.00
718	Block board construction flush door with commercial ply on both faces 30 mm thick	sqm	1348.00
719	Block board construction flush door with commercial ply on both faces 25 mm thick	sqm	1280.00
721	35 mm thick Commercial ply on one face	sqm	1179.00
722	30 mm thick Commercial ply on one face	sqm	845.00
723	25 mm thick Commercial ply on one face	sqm	738.00
752	Block board construction flush door lipping 25 mm thick	sqm of door area	357.00
753	Square vision panel in Block board construction flush door not exceeding 0.10 sqm	sqm of door area	173.00
754	Circular vision panel in Block board construction flush door	sqm of door area	173.00
755	Decorative type louvers in Block board construction flush door	sqm of door area	346.00
757	Rebate cutting in block board construction flush door	sqm of door area	96.00
759	Decorative plywood 4 mm	sqm	405.00
761	Fuel wood	quintal	703.00
763	Glue	kg	90.00
764	Calcium silicate base compound for jointing calcium silicate tiles	kg	36.00
765	Hessian cloth	sqm	42.00
768	Cement Concrete Jali 50 mm thick	sqm	476.00
769	Cement Concrete Jali 40 mm thick	sqm	417.00
770	Cement Concrete Jali 25 mm thick	sqm	328.00
771	Kerosene oil	litre	60.00
772	White cement based polymer modified self curing compound in powder form	kg	20.00
773	Unslaked lime	quintal	595.00
775	Dehradun white lime	quintal	1012.00
776	Satna lime	quintal	0.00
777	Dry hydrated lime (factory made)	quintal	346.00
784	Marble dust/ powder	cum	1345.00

Code No.	Description	Unit	Basic rate 2023-24
785	Marble chips up to 4 mm and down size White & black	quintal	505.00
786	Choclolate, gey / yellow marble chips upto 4 mm and down size	quintal	566.00
787	Baroda green marble chips upto 5 mm and down size	quintal	572.00
788	Marble chips large size above 4 mm White & black	quintal	578.00
789	Marble pieces for crazy flooring	quintal	459.00
801	Silicon and acrylic emulsion	litre	142.00
802	Acrylic distemper 1st quality , having VOC content less than 50 grams/ litre	Kg	48.00
803	Acrylic emulsion, having VOC content less than 50 grams/ litre	litre	113.00
804	Premium plastic acrylic emulsion of interior grade, having VOC content less than 50 grams/ litre	litre	238.00
806	Ready mixed pink or grey primer on wood work (hard and soft wood) having VOC content less than 50 grams/ litre	litre	172.00
807	Ready mixed red oxide zinc chromatic on steel/iron work having VOC content less than 250 gms/litre	litre	152.00
808	Water thinnable cement primer for interior wall surface, having VOC content less than 50 grams/ litre	litre	98.00
809	Exterior primer	Kg	167.00
810	Moorum	cum	595.00
811	Mud (dry)	cum	197.00
815	Dry Distemper	kg	42.00
816	1st quality Acrylic distemper(Ready mix) having VOC content less than 50 grams/ litre/ oil bound washable distemper	kg	60.00
818	Linseed oil (double boiled)	litre	262.00
820	Cement primer	litre	131.00
821	Distemper primer	litre	102.00
823	Pink primer (for wood)	litre	182.00
824	White cement based putty	kg	27.00
826	Aluminium paint	litre	272.00
827	Acid proof paint (chocolate or black)	litre	268.00
828	Anticorrosive bituminous paint (black)	litre	149.00
829	Black Japan paint	litre	131.00
830	Enamel paint	litre	222.00
831	Floor enamel paint in all shades except green	litre	298.00
833	Synthetic enamel paint in black or chocolate shade	litre	315.00
834	Synthetic enamel paint in all shades except black or chocolate shade	litre	249.00
835	Plastic acrylic emulsion paint	litre	262.00
836	100% Premium acrylic dirt resistance, Silicone additives exterior paint	litre	346.00
837	Acrylic Exterior Primer	litre	148.00
843	Ready mix paint	litre	334.00
844	Roofing paint for iron sheets in white, grey or geen shade	litre	215.00
845	Roofing paint for iron sheets in red colour	litre	262.00
848	Red oxide primer	litre	173.00
850	White lead	kg	203.00
851	Water proofing cement paint	kg	54.00
855	Wax polish (ready made)	kg	280.00
856	Ordinary varnish	litre	233.00
857	Superior copal varnish	litre	243.00
858	Superior spar varnish	litre	262.00
859	Oil type wood preservative	litre	233.00

Code No.	Description	Unit	Basic rate 2023-24
860	Paint remover	litre	153.00
863	Putty for wood work	kg	36.00
865	Pig lead	kg	208.00
868	Premixed super white gypsum plaster	kg	14.00
869	Plaster of Paris	kg	17.00
870	Plug	each	18.00
873	Copper pins 6 mm dia 7.5 cm long	each	18.00
874	Black colour dark shade pigment	kg	102.00
875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kg	131.00
876	Green or blue medium shade pigment	kg	102.00
886	Standard holder bat clamps for sand cast iron or cast iron pipes 150 mm dia	each	60.00
966	Sand Cast iron plain shoe 150 mm dia	each	340.00
967	Copper plate	kg	750.00
969	Pulley 25 mm dia	each	66.00
971	Rivets	quintal	8330.00
973	Rolling shutter made of 80x1.25 mm machine rolled laths	sqm	1904.00
974	Top cover for rolling shutters 1.25 mm thick	metre	1131.00
975	27.5 cm long wire spring grade No. 2 for rolling shutters	each	417.00
976	Ball bearing for rolling shutters	each	393.00
977	Extra for mechanical devices chain and cranked operation for operating rolling shutters: exceeding 10.00 sqm and up to 16.80 sqm area of door	sqm	1048.00
978	Extra for mechanical devices chain and cranked operation for operating rolling shutters: exceeding 16.80 sqm area of door	sqm	1048.00
979	Royalty for good earth	cum	65.00
980	Royalty for sludge	cum	35.00
982	Coarse sand	cum	765.00
983	Fine sand	cum	765.00
989	Glass sheet (pin head) 4 mm thick	sqm	850.00
990	Glass sheet (wired) 6 mm thick	sqm	1020.00
992	Galvanised steel plain sheets	quintal	6545.00
993	FY-1860 grade wire strands	quintal	6783.00
994	Standard quality hard board sheet 3 mm thick	sqm	155.00
995	Standard quality hard board sheet 4. mm thick	sqm	179.00
996	Standard quality hard board sheet 4.5 mm thick	sqm	274.00
999	Shellac	kg	417.00
1000	Spirit	litre	58.00
1001	Spun yarn	kg	60.00
1002	Mild steel round bar 12 mm dia and below	quintal	6790.00
1003	Mild steel round bar above 12 mm dia	quintal	5700.00
1004	Average rate of Mild steel round bars for reinforcement	quintal	6875.00
1005	Twisted steel/ deformed TMT bars Fe-500D	quintal	7080.00
1006	Mild steel square bars	quintal	6875.00
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	7700.00
1008	Flats up to 10 mm in thickness	quintal	8250.00
1009	Flats exceeding 10 mm in thickness	quintal	8250.00
1010	Mild steel plates	quintal	8800.00
1011	Steel glazed door, window/ ventilator, all members viz. F7D, F4B, K11 and K12B et	kg	76.80
1012	Pregalvanized high tensile steel confirming to IS:277-199	kg	120.00

Code No.	Description	Unit	Basic rate 2023-24
1013	Mild steel sheets of 1.00 mm thickness for tanks	quintal	7469.00
1014	Mild steel barbed wire	quintal	6050.00
1015	Mild steel expanded metal 20x60 mm strands 3.25 mm wide 1.60 mm thick	sqm	396.00
1019	Mild steel hooks	each	38.50
1020	Mild steel rivets	quintal	9240.00
1021	Hard drawn steel wire fabric 75 x 25 mm mesh of weight not less than 7.75 kg/sqm	sqm	484.00
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos	52.80
1023	Galvanised steel J or L hooks 8 mm dia	10 Nos	143.00
1024	Galvanised steel bolts & nuts 10 mm dia and 125 mm long round head with slots	each	15.00
1025	Mild steel bolts 6 mm dia and 25 mm long with hexagonal head	10 Nos	15.00
1027	Erection Bolts (Minimum 04 nos for each element)	each	36.00
1028	Straining bolts	each	108.00
1029	Galvanised steel barbed wire of 9.8 kg /100metre	quintal	6050.00
1030	Galvanised steel turn buckles	each	30.00
1031	Galvanised steel bolts & nuts 10 mm dia and 27 cm long both sides threaded with 4 galvanised steel nuts	each	30.00
1032	Galvanised steel bolts 10 mm dia and 7 cm long with nuts	each	11.00
1033	Galvanised steel bolts 8 mm dia and 7 cm long with nuts	each	8.00
1034	Bolts and nuts up to 300 mm in length	quintal	5280.00
1035	Bolts and nuts above 300 mm in length	quintal	6240.00
1036	Iron pintels including welded pin	each	48.00
1143	Steel beading 10x10x1.6mm (box type)	metre	42.00
1144	Aluminium beading	metre	33.00
1145	Aluminium Plain Strip edging 38x12x3 mm	metre	108.00
1146	Aluminium strip 10 mm	kg	264.00
1147	Aluminium strip 25 mm	kg	264.00
1149	Glass strip 4 mm thick 40 mm deep	metre	21.00
1151	Boundary stone top chisel dressed 15x15x90 cm	each	96.00
1154	Through and bond stone	100 Nos	1600.00
1155	Stone boulder (quarry) nominal size 225 mm(Stack measurements reduced by 15%	cum	1360.00
1156	Stone boulder (nallah) nominal size 225 mm(Stack measurements reduced by 15%	cum	850.00
1157	Stone for masonry work	cum	1000.00
1157.1	Stone for masonry work (nallah split)	cum	850.00
1157.2	Devri Stone		0.00
	(A) Devri Stone (Fine Chissel Dressed Quarry)	cum	51288.60
	(B) Devri Stone (Rough Chissel Dressed Quarry)	cum	43398.30
	(C) Devri Stone (Rough Chissel Dressed Quarry)	RM	1984.40
1158	Stone for pitching 15 cm x 22.5 cm	cum	850.00
1159	Stone dust	cum	595.00
1160	Red sand stone block	10 cudm	250.00
1161	White sand stone block	10 cudm	350.00
1163	White sand stone slab 75 mm thick (un-dressed)	sqm	1200.00
1164	Red sand stone slab 40 mm thick (un-dressed)	sqm	345.00
1165	White sand stone slab 40 mm thick (un-dressed)	sqm	375.00
1166	Red sand stone slab 30 mm thick (un-dressed)	sqm	330.00
1168	Kota stone slab 20 mm to 25 mm thick (semi-polished)	sqm	726.00

Code No.	Description	Unit	Basic rate 2023-24
1169	Kota stone slab 25mm thick (rough chiseled)	sqm	750.00
1174	Red sand stone slab 45 mm to 50 mm thick (un-dressed)	sqm	390.00
1175	White sand stone slab 45 mm to 50 mm thick (un-dressed)	sqm	450.00
1177	Stone grit 6 mm and down size or pea sized gravel	cum	1050.00
1179	Crushed stone 2.36 mm to 12.5 mm size	cum	850.00
1182	Surkhi	cum	833.00
1186	Superior class teak wood such as Dandeli, Balarshah or Malabar in planks	10 cudm	1350.00
1187	First class teak wood in scantling	10 cudm	1289.49
1188	First class teak wood in planks	10 cudm	1319.48
1189	Second class teak wood in scantling	10 cudm	1229.51
1190	Second class teak wood in planks	10 cudm	1274.49
1191	Marandi wood in planks	10 cudm	539.79
1192	Marandi wood in scantling	10 cudm	485.81
1194	Second class deodar wood in planks	10 cudm	1049.58
1196	First class kail wood in planks	10 cudm	539.79
1197	Second class kail wood in scantling	10 cudm	612.00
1197A	First Class Kail wood in scantling	10 cudm	738.00
1198	Second class kail wood in planks	10 cudm	620.40
1199	Sal wood in scantling	10 cudm	929.63
1200	Kiln seasoned selected sheesham wood planks	10 cudm	1139.55
1200A	Seasoned selected Poplar wood	10 cudm	419.84
1200B	Seasoned selected Budloo wood	10 cudm	434.83
1200C	Seasoned selected Talboo wood	10 cudm	89.97
1200D	Rait Wood 12mm thick 5" wide (Sheshem)	RM	102.00
1200E	Local Willow Wood 12mm thick 5" wide	10 cudm	135.00
1200F	First class Budloo/Fir wood in Scantling	10 cudm	420.00
1200G	First class Budloo/Fir wood in planks	10 cudm	432.00
1201	Precast terrazzo tiles 22 mm thick (light shade)	sqm	447.00
1202	Precast terrazzo tiles 22 mm thick (medium shade)	sqm	425.00
1203	Precast terrazzo tiles 22 mm thick (dark shade)	sqm	408.00
1204	Precast heat resistant terrace tiles (size 300x300 mm) and 20 mm thick	sqm	510.00
1207	G.I. Limpet washer	100 Nos	60.00
1208	Bitumen washer	100 Nos	66.00
1209	G.I. plain washer thick	100 Nos	54.00
1210	G.I. plain washer thin	100 Nos	42.00
1211	G.I. plain washer for seam bolts	100 Nos	48.00
1213	Water proofing materials	kilogram	46.00
1214	Welding by gas plant	cm	12.00
1215	Welding by electric plant	cm	6.00
1216	Whiting	quintal	756.00
1217	GI Wire mesh 100x100 mm	kg	96.00
1218	M.S. Shear stud	each	65.00
1219	M.S. Wire nails	kilogram	82.00
1220	M.S. Wire mesh (rabbit)	sqm	54.00
1221	M.S. 20 mm dia holding down bolts	quintal	7425.00
1222	Mild steel sheets with bolts and nuts to rest on pintels	each	155.00
1223	Steel weld mesh	sqm	197.00
1224	Hard drawn steel wire	quintal	5775.00
1225	Mild steel flat strap fitting	quintal	5225.00

Code No.	Description	Unit	Basic rate 2023-24
1227	Chequered terrazzo tiles 22 mm thick (light shade)	sqm	465.00
1228	Chequered terrazzo tiles 22 mm thick (medium shade)	sqm	465.00
1229	Chequered terrazzo tiles 22 mm thick (dark shade)	sqm	459.00
1231	Extra for selected planks of second class teakwood	10 cudm	240.00
1234	Aluminium Plain Strip edging 57x12x3 mm	metre	170.00
1235	Diesel	litre	76.00
1236	Soling stone	cum	850.00
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	22.00
1238	Extra for selected planks of first class teakwood	10 cudm	209.00
1239	18 mm thick Flamed finish granite stone slab	sqm	2550.00
1240	18 mm thick Italian Marble stone slab, Perlato (slab area up to 0.5 sqm).	sqm	3938.00
1241	Commercial LPG in cylinder	kg	70.00
1242	Glass mosaic tiles (20 mm x 20 mm x 4 mm)	sqm	2465.00
1243	Tile fixing chemical adhesive	kg	24.00
1244	Cement Polymer Grout Compound	kg	78.00
1245	Acid for cleaning tiles	litre	60.00
1246	Silicon based Joint Sealant for Tiles	kg	233.00
1247	Rubber base Adhesive	kg	272.00
1248	Epoxy based sealing Compound	kg	714.00
1249	Acrylic based sealing compound	kg	655.00
1250	Non woven reinforcement Tape	metre	1.00
1251	M-60 grade cementitious grout (Non Shrink)	kg	42.00
1252	Cementitious polymer base adhesive confirming to EOTA ETAG 004 (European Technical Approval)	kg	45.00
1253	Polypropylene mechanical fastener with plastic pin confirming to EOTA ETAG 014 (European Technical Approval) having dia 10mm & L=200mm	each	42.00
1254	Moisture cure Polyurethane Foam	750 ml	786.00
1255	PVC Corner Bead of size 25mmx25mm fixed with glass fibre mesh (100mm x 100mm)	metre	118.00
1256	Cementitious polymer base coat confirming to EOTA ETAG 004 (European Technical Approval)	kg	54.00
1257	Fiberglass mesh with alkali-resistant coating having mass per unit area 145 g/m ² , mesh size: 3.9x4.0 mm ±10%	sqm	99.00
1301	Bleaching powder	quintal	2160.00
1304	Surface box for stop cock	each	149.00
1305	Surface box for sluice valve	each	250.00
1307	Surface box for water meter	each	304.00
1308	Bracket C.I. for flushing cistern	each	84.00
1309	C.I. bracket for wash basin and sinks	pair	84.00
1313	8 mm dia C.P. Brass/ S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate for European type W.C.	each	334.00
1314	C.P.brass chain with 32 mm dia rubber plug	each	84.00
1315	C.P.brass chain with 40 mm dia rubber plug	each	108.00
1316	50mmx50mm hardwood plug	each	90.00
1330	Clamps and M.S. stays including bolts and nuts for 100 mm pipe	each	84.00
1331	M.S. Holder bat clamp of approved design for 100 mm S.C.I. pipe	each	39.00
1332	M.S. Holder bat clamp of approved design for 75 mm S.C.I. pipe	each	38.00
1334	Clamps and M.S. stays including bolts and nuts for 50 mm pipe	each	42.00
1335	Clamps and M.S. stays including bolts and nuts for 75 mm pipe	each	60.00

Code No.	Description	Unit	Basic rate 2023-24
1336	Clearing eye with chain and lid 100 mm dia	each	53.00
1337	Clearing eye with chain and lid 150 mm dia	each	60.00
1339	Brass bib-cock 15 mm dia	each	274.00
1340	Brass bib-cock 20 mm dia	each	304.00
1342	Brass stop-cock 15 mm dia	each	274.00
1343	Brass stop-cock 20 mm dia	each	310.00
1350	Mosquito proof coupling of approved design	each	41.00
1352	C.I. cover and frame 300x300 mm inside	each	590.00
1353	C.I. cover without frame 300x300 mm inside weight not less than 4.50 kg	each	590.00
1354	C.I. Rectangular cover 455x610 mm with frame (low duty)	each	1678.00
1355	C.I. Rectangular cover 455x610 mm without frame (low duty)	each	1381.00
1356	C.I. 500 mm dia cover with frame (medium duty)	each	5236.00
1357	C.I. 500 mm dia cover without frame (medium duty)	each	4548.00
1360	C.I. mouth, brass ferrule 15 mm dia	each	191.00
1361	C.I. mouth, brass ferrule 20 mm dia	each	227.00
1362	C.I. mouth, brass ferrule 25 mm dia	each	310.00
1363	Vitreous china foot rests 250x130x30 mm	pair	143.00
1364	C.I. grating 100x100 mm	each	60.00
1365	Grating (C.I.) 125x125 mm	each	72.00
1366	C.I. grating 150x150 mm	each	78.00
1367	C.I. grating 180x180 mm	each	90.00
1369	S.C.I. gully or nahani grating 100 mm dia	each	42.00
1373	Rubber insertions for 75 mm dia pipe joints	each	24.00
1374	Rubber insertions for 100 mm dia pipe joints	each	30.00
1375	Rubber insertions for 125 mm dia pipe joints	each	39.00
1376	Rubber insertions for 150 mm dia pipe joints	each	48.00
1377	Rubber insertions for 200 mm dia pipe joints	each	66.00
1378	Rubber insertions for 250 mm dia pipe joints	each	78.00
1379	Rubber insertions for 300 mm dia pipe joints	each	96.00
1380	Rubber insertions for 350 mm dia pipe joints	each	110.00
1381	Rubber insertions for 400 mm dia pipe joints	each	137.00
1382	Rubber insertions for 450 mm dia pipe joints	each	153.00
1383	Rubber insertions for 500 mm dia pipe joints	each	179.00
1384	Rubber insertions for 600 mm dia pipe joints	each	203.00
1392	Mirror of superior make glass 60x45 cm	each	714.00
1396	Vitreous china pedestal for wash basin	each	1071.00
1397	Pig lead	kg	238.00
1464	S & S.C.I. standard specials upto 300 mm dia (heavy class)	quintal	4180.00
1466	S & S.C.I. standard specials over 300 mm dia (heavy class)	quintal	4180.00
1468	Flanged C.I. standard specials upto 300 mm dia (heavy class)	quintal	6270.00
1470	Flanged C.I. standard specials over 300 mm dia (heavy class)	quintal	6300.00
1472	Casing pipe 100 mm dia	metre	435.00
1532	Flush pipe with union spreaders and clamps all in C.P. brass for single stall	each	369.00
1533	Flush pipe with union spreaders and clamps all in C.P. brass for double stall	each	518.00
1534	Flush pipe with union spreaders and clamps all in C.P. brass for range of three stall	each	637.00
1535	Flush pipe with union spreaders and clamps all in C.P. brass for range of four stall	each	738.00

Code No.	Description	Unit	Basic rate 2023-24
1540	Flush pipe and spreaders G.I. for single set of one squatting plate urinal	each	233.00
1541	Flush pipe and spreaders G.I. for range of two squatting plates urinal	each	334.00
1542	Flush pipe and spreaders G.I. for range of three squatting plates urinal	each	384.00
1543	Flush pipe and spreaders G.I. for range of four squatting plates urinal	each	542.00
1545	G.I. pipes 15 mm dia	metre	137.00
1546	G.I. pipes 20 mm dia	metre	156.00
1547	G.I. pipes 25 mm dia	metre	235.20
1548	G.I. pipes 32 mm dia	metre	306.00
1549	G.I. pipes 40 mm dia	metre	348.00
1550	G.I. pipes 50 mm dia	metre	504.00
1551	G.I. pipes 65 mm dia	metre	498.00
1552	G.I. pipes 80 mm dia	metre	630.00
1555	G.I. back (jam) nuts 25 mm dia	each	21.00
1559	G.I. back (jam) nuts 65 mm dia	each	39.00
1561	15 mm dia G.I. back 90 degree	each	36.00
1562	20 mm dia G.I. back 90 degree	each	48.00
1563	25 mm dia G.I. back 90 degree	each	56.00
1564	32 mm dia G.I. back 90 degree	each	86.00
1565	40 mm dia G.I. back 90 degree	each	114.00
1566	50 mm dia G.I. back 90 degree	each	155.00
1569	15 mm dia G.I. crosses	each	62.00
1570	20 mm dia G.I. crosses	each	70.00
1571	25 mm dia G.I. crosses	each	119.00
1572	32 mm dia G.I. crosses	each	187.00
1573	40 mm dia G.I. crosses	each	238.00
1574	50 mm dia G.I. crosses	each	369.00
1577	15 mm dia G.I. elbows	each	30.00
1578	20 mm dia G.I. elbows	each	48.00
1579	25 mm dia G.I. elbows	each	66.00
1580	32 mm dia G.I. elbows	each	102.00
1581	40 mm dia G.I. elbows	each	137.00
1582	50 mm dia G.I. elbows	each	238.00
1583	65 mm dia G.I. elbows	each	387.00
1584	80 mm dia G.I. elbows	each	512.00
1593	15 mm dia G.I. plugs	each	17.00
1594	20 mm dia G.I. plugs	each	26.00
1595	25 mm dia G.I. plugs	each	38.00
1596	32 mm dia G.I. plugs	each	58.00
1597	40 mm dia G.I. plugs	each	82.00
1598	50 mm dia G.I. plugs	each	125.00
1599	65 mm dia G.I. plugs	each	161.00
1600	80 mm dia G.I. plugs	each	197.00
1601	20 mm to 15 mm G.I. sockets (reducing)	each	34.00
1602	25 mm to any smaller size G.I. sockets (reducing)	each	42.00
1603	32 mm to any smaller size G.I. sockets (reducing)	each	63.00
1604	40 mm to any smaller size G.I. sockets (reducing)	each	77.00
1605	50 mm to any smaller size G.I. sockets (reducing)	each	119.00
1606	15 mm G.I. Tee (equal)	each	38.00
1607	20 mm G.I. Tee (equal)	each	59.00
1608	G.I. tees (equal) 25 mm	each	78.00

Code No.	Description	Unit	Basic rate 2023-24
1609	32 mm G.I. Tee (equal)	each	125.00
1610	40 mm G.I. Tee (equal)	each	167.00
1611	50 mm G.I. Tee (equal)	each	262.00
1612	G.I. tees (equal) 65 mm	each	632.80
1613	80 mm G.I. Tee (equal)	each	649.00
1614	G.I. inlet connection	each	76.00
1615	50 mm Single socketed pipe 1.80 metres long	each	1141.00
1616	S.C.I. soil, waste and vent single socketed pipe 1.80 metres long: 75 mm dia	each	1286.00
1617	S.C.I. soil, waste and vent single socketed pipe 1.80 metres long: 100 mm dia	each	1442.00
1618	S.C.I. soil, waste and vent single socketed pipe 1.80 metres long: 150 mm dia	each	3061.00
1620	S.C.I. plain bend 75 mm dia	each	312.00
1621	S.C.I. plain bend 100 mm dia	each	396.00
1622	S.C.I. plain bend 150 mm dia	each	899.00
1624	S.C.I. bend with access door 75 mm dia	each	354.00
1625	S.C.I. bend with access door 100 mm dia	each	455.00
1627	S.C.I. plain single equal junctions 75x75x75 mm dia	each	441.00
1628	S.C.I. plain single equal junctions 100x100x100 mm dia	each	805.00
1630	S.C.I. single equal junctions 75x75x75 mm dia with access door	each	780.00
1631	S.C.I. single equal junctions 100x100x100 mm dia with access door	each	637.00
1633	S.C.I. plain double equal junctions 75x75x75x75 mm dia	each	574.00
1634	S.C.I. plain double equal junctions 100x100x100x100 mm dia	each	799.50
1636	S.C.I. double equal junctions 75x75x75x75 mm dia with access door	each	985.00
1637	S.C.I. double equal junctions 100x100x100x100 mm dia with access door	each	1225.00
1639	Slotted cowl (terminal guard) 75 mm dia	each	387.00
1640	Slotted cowl (terminal guard) 100 mm dia	each	301.00
1641	G.I. Union 15 mm nominal bore	each	42.00
1642	G.I. Union 20 mm nominal bore	each	80.00
1643	G.I. Union 25 mm nominal bore	each	138.00
1644	G.I. Union 32 mm nominal bore	each	276.00
1645	G.I. Union 40 mm nominal bore	each	253.00
1646	G.I. Union 50 mm nominal bore	each	341.00
1647	G.I. Union 65 mm nominal bore	each	577.50
1648	G.I. Union 80 mm nominal bore	each	632.50
1649	Polyethylene water storage tank with cover and suitable locking arrangement	per litre	8.00
1653	Sand cast iron S&S plain single unequal junctions: 100x100x75 mm dia	each	677.00
1656	Sand cast iron S&S single unequal junctions: 100x100x75 mm dia with access door	each	782.00
1659	Sand cast iron S&S plain double unequal junctions: 100x100x75x 75 mm dia	each	842.00
1662	Sand cast iron S&S double unequal junctions: 100x100x75x75 mm dia with access door	each	985.00
1666	Sand cast iron heel rest bend 75 mm dia	each	375.00
1667	Sand cast iron heel rest bend 100 mm dia	each	476.00
1669	S.C.I. single equal invert branch of required degree 75x75x75 mm dia	each	439.00
1670	S.C.I. single equal invert branch of required degree 100x100x 100 mm dia	each	518.00

Code No.	Description	Unit	Basic rate 2023-24
1672	S.C.I. double equal invert branch of required degree 75x75x75x 75 mm dia	each	506.00
1673	S.C.I. double equal invert branch of required degree 100x100x100x 100 mm dia	each	655.00
1674	S.C.I. single unequal invert branch of required degree 100x100x 75 mm dia	each	595.00
1677	S.C.I. double unequal invert branch of required degree 100x100x75x 75 mm dia	each	714.00
1682	S.C.I. door pieces 75 mm dia	each	340.00
1683	S.C.I. door pieces 100 mm dia	each	578.00
1685	S.C.I. collar 75 mm dia	each	215.00
1686	S.C.I. collar 100 mm dia	each	322.00
1687	Unplasticised P.V.C. connection pipe with brass union 30 cm long 15 mm bore	each	60.00
1688	Unplasticised P.V.C. connection pipe with brass union 30 cm long 20 mm bore	each	72.00
1689	Unplasticised P.V.C. connection pipe with brass union 45 cm long 15 mm bore	each	66.00
1690	Unplasticised P.V.C. connection pipe with brass union 45 cm long 20 mm bore	each	67.20
1693	S.C.I. hand pump	each	917.00
1700	R.C.C. pipes NP2 class 100 mm dia	metre	383.00
1701	R.C.C. pipes NP2 class 150 mm dia	metre	324.00
1702	R.C.C. pipes NP2 class 250 mm dia	metre	408.00
1703	R.C.C. pipes NP2 class 300 mm dia	metre	480.00
1704	R.C.C. pipes NP2 class 450 mm dia	metre	852.50
1705	R.C.C. pipes NP2 class 500 mm dia	metre	1045.00
1706	R.C.C. pipes NP2 class 600 mm dia	metre	1012.00
1707	R.C.C. pipes NP2 class 700 mm dia	metre	1500.00
1709	R.C.C. pipes NP2 class 800 mm dia	metre	2007.50
1710	R.C.C. pipes NP2 class 900 mm dia	metre	2805.00
1711	R.C.C. pipes NP2 class 1000 mm dia	metre	3245.00
1712	R.C.C. pipes NP2 class 1100 mm dia	metre	3575.00
1713	R.C.C. pipes NP2 class 1200 mm dia	metre	3932.50
1714	R.C.C. collars NP2 class 100 mm dia	each	38.50
1715	R.C.C. collars NP2 class 150 mm dia	each	44.00
1716	R.C.C. collars NP2 class 250 mm dia	each	66.00
1717	R.C.C. collars NP2 class 300 mm dia	each	132.00
1718	R.C.C. collars NP2 class 450 mm dia	each	165.00
1719	R.C.C. collars NP2 class 500 mm dia	each	192.50
1720	R.C.C. collars NP2 class 600 mm dia	each	762.00
1721	R.C.C. collars NP2 class 700 mm dia	each	914.00
1722	R.C.C. collars NP2 class 750 mm dia	each	360.00
1723	R.C.C. collars NP2 class 800 mm dia	each	390.00
1724	R.C.C. collars NP2 class 900 mm dia	each	385.00
1725	R.C.C. collars NP2 class 1000 mm dia	each	600.00
1726	R.C.C. collars NP2 class 1100 mm dia	each	660.00
1727	R.C.C. collars NP2 class 1200 mm dia	each	720.00
1728	RCC pipe 450 mm dia NP-3 spigot	metre	1650.00
1729	RCC pipe 600 mm dia NP-3 spigot	metre	1920.00

Code No.	Description	Unit	Basic rate 2023-24
1730	RCC pipe 900 mm dia NP-3 spigot	metre	3168.00
1731	RCC pipe 1000 mm dia NP-3 spigot	metre	3696.00
1732	RCC pipe 1200 mm dia NP-3 spigot	metre	5757.60
1733	RCC pipe 1800 mm dia NP-3 spigot	metre	10668.00
1734	RCC pipe 450 mm dia NP-4 spigot	metre	1954.80
1735	RCC pipe 600 mm dia NP-4 spigot	metre	2604.00
1736	RCC pipe 900 mm dia NP-4 spigot	metre	5078.40
1737	RCC pipe 1000 mm dia NP-4 spigot	metre	6300.00
1738	RCC pipe 1200 mm dia NP-4 spigot	metre	7320.00
1739	RCC pipe 1800 mm dia NP-4 spigot	metre	15420.00
1854	Stoneware pipes grade A (60 cm long) 100 mm dia	each	99.60
1855	Stoneware pipes grade A (60 cm long) 150 mm dia	each	200.40
1856	Stoneware pipes grade A (60 cm long) 200 mm dia	each	262.80
1857	Stoneware pipes grade A (60 cm long) 230 mm dia	each	346.50
1858	Stoneware pipes grade A (60 cm long) 250 mm dia	each	402.60
1859	Stoneware pipes grade A (60 cm long) 300 mm dia	each	431.20
1863	Fire clay kitchen sink: 600x450x250 mm	each	2611.00
1864	750x450x250 mm Kitchen Sink (Fire clay)	each	2975.00
1868	600x450x250 mm White vitreous china kitchen sink	each	3303.00
1869	450x300x150 mm White vitreous china kitchen sink	each	1845.00
1871	White vitreous china laboratory sink 450x300x150 mm	each	2119.00
1872	White vitreous china laboratory sink 600x450x200 mm	each	3261.00
1875	White plastic seat (solid) with lid C.P. brass hinges and rubber buffers	each	560.00
1876	Black plastic seat (solid) with lid C.P. brass hinges and rubber buffers	each	476.00
1878	Shower rose C.P. brass for 15 to 20 mm inlet 100 mm dia	each	154.00
1879	Shower rose C.P. brass for 15 to 20 mm inlet 150 mm dia	each	175.00
1880	Dismanteled P or S trap scrap (approx wt 2kg)	kg	36.00
1881	Spun yarn	kg	90.00
1882	Strainer brass 40 mm dia 1.5 metre long	each	750.00
1885	15 mm C.P. brass tap	each	488.00
1887	Towel rail C.P. brass 750 x20 mm together with a pair of C.P. brass brackets to fit the size of towel rail	each	1131.00
1888	Towel rail C.P. brass 600 x20 mm together with a pair of C.P. brass brackets to fit the size of towel rail	each	774.00
1889	C.P. brass toilet paper holder of standard size	each	643.00
1890	Centrifugally SCI(spun) S & S P or S trap	each	393.00
1891	C.I. trap for standard urinal with vent arm with operating and other couplings in C.P. brass: 50 mm dia	each	250.00
1893	C.I. trap for standard urinal with vent arm with operating and other couplings in C.P. brass: 80 mm dia	each	411.00
1894	C.P. brass 32 mm dia Trap	each	399.00
1895	C.P. brass trap 40 mm dia	each	465.00
1896	100 mm S.C.I. trap with vent heel	each	399.00
1897	100 mm S.C.I. trap with 100 mm inlet and 100 mm outlet	each	363.00
1898	100 mm S.C.I. trap with 100 mm inlet and 75 mm outlet	each	268.00
1900	S.W. gully trap P type 100x100 mm	each	137.00
1901	125 x 100 mm S.W. Gully Traps P Type	each	173.00
1902	S.W. gully trap P type 150x100 mm	each	274.00
1904	S.W. gully trap P type 180x150 mm	each	286.00
1913	Vitreous china lipped front urinal	each	631.00

Code No.	Description	Unit	Basic rate 2023-24
1915	Vitreous china squatting plate urinal	each	1738.00
1922	H.P. or L.P. ball valve with polythene floats: 15 mm dia	each	301.00
1923	H.P. or L.P. ball valve with polythene floats: 20 mm dia	each	288.00
1924	H.P. or L.P. ball valve with polythene floats: 25 mm dia	each	322.00
1926	20 mm dia Gunmetal gate valve with wheel	each	429.00
1927	Brass full way valve with C.I. wheel (screwed end) 25 mm dia	each	525.00
1928	Brass full way valve with C.I. wheel (screwed end) 32 mm dia	each	581.00
1929	Brass full way valve with C.I. wheel (screwed end) 40 mm dia	each	700.00
1930	Brass full way valve with C.I. wheel (screwed end) 50 mm dia	each	833.00
1931	Brass full way valve with C.I. wheel (screwed end) 65 mm dia	each	1404.00
1932	Brass full way valve with C.I. wheel (screwed end) 80 mm dia	each	2112.50
1933	Gunmetal non-return valve-horizontal (screwed end) 25 mm dia	each	488.00
1934	Gunmetal non-return valve-horizontal (screwed end) 32 mm dia	each	637.00
1935	Gunmetal non-return valve-horizontal (screwed end) 40 mm dia	each	690.00
1936	Gunmetal non-return valve-horizontal (screwed end) 50 mm dia	each	1008.00
1937	Gunmetal non-return valve-horizontal (screwed end) 65 mm dia	each	1830.00
1938	Gunmetal non-return valve-horizontal (screwed end) 80 mm dia	each	2530.00
1940	C.I. sluice valve (with caps) class I: 100 mm dia	each	2916.00
1941	C.I. sluice valve (with caps) class I : 125 mm dia	each	3106.00
1942	C.I. sluice valve (with caps) class I: 150 mm dia	each	4344.00
1943	C.I. sluice valve (with caps) class I : 200 mm dia	each	8360.00
1944	C.I. sluice valve (with caps) class I : 250 mm dia	each	12078.00
1945	C.I. sluice valve (with caps) class I: 300 mm dia	each	17050.00
1947	Vitreous china flat back wash basin 630x450 mm	each	1214.00
1949	Vitreous china angle back wash basin 600x480 mm	each	947.00
1950	Vitreous china angle back wash basin 400x400 mm	each	756.00
1951	C.P. brass waste 32 mm	each	197.00
1952	C.P. brass waste 40 mm	each	221.00
1953	Vitreous china Indian type W.C. pan of size 580 mm	each	905.00
1954	Vitreous china orrisa type W.C. pan of size 580 mm	each	1806.00
1955	Vitreous china pedestal type water closet	each	1202.00
1956	Bolts and nuts 16 mm dia 60 mm long	each	14.00
1957	Bolts and nuts 16 mm dia 65 mm long	each	15.00
1958	Bolts and nuts 20 mm dia 65 mm long	each	18.00
1959	Bolts and nuts 20 mm dia 70 mm long	each	23.00
1960	Bolts and nuts 20 mm dia 75 mm long	each	23.00
1961	Bolts and nuts 20 mm dia 80 mm long	each	23.00
1962	Bolts and nuts 24 mm dia 85 mm long	each	35.00
1963	Bolts and nuts 24 mm dia 90 mm long	each	40.00
1964	Bolts and nuts 27 mm dia 100 mm long	each	47.00
1965	White vitreous china dual purpose closet (Anglo Indian W.C.) suitable for use as squatting pan or European type water closet as per manufacturer's specifications	each	3332.00
1966	Floor mounted white vitreous china double trap syphonic WC with 10 litre cistern and all fittings & fixtures, seat cover etc	each	13720.00
1970	Vitreous china foot rests 250x125x25 mm	pair	170.50
1980	Fly ash	cum	185.00
1984	Common burnt clay F.P.S. bricks tile class designation 10	1000 Nos	10710.00
1986	Common burnt clay modular bricks class designation 12.5	1000 Nos	9129.00
2200	Carriage of Steam coal	tonne	0.00

Code No.	Description	Unit	Basic rate 2023-24
2201	Carriage of Bricks	1000 Nos	0.00
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0.00
2203	Carriage of Coarse sand	cum	0.00
2204	Carriage of Timber	cum	0.00
2205	Carriage of Steel	tonne	0.00
2206	Carriage of Stone aggregate 40 mm nominal size and above	cum	0.00
2207	Carriage of Brick tiles	1000 Nos	0.00
2208	Carriage of Lime	cum	0.00
2209	Carriage of Cement	tonne	0.00
2211	Carriage of Tar / Bitumen	tonne	0.00
2215	Carriage of Soling stone & masonry stone	cum	0.00
2216	Carriage of Stone blocks white & red sand stone & kota stone slab	tonne	0.00
2224	Carriage of S.W. pipes 100 mm dia	100 metre	0.00
2225	Carriage of S.W. pipes 150 mm dia	100 metre	0.00
2226	Carriage of S.W. pipes 200 mm dia	100 metre	0.00
2228	Carriage of S.W. pipes 250 mm dia	100 metre	0.00
2229	Carriage of S.W. pipes 300 mm dia	100 metre	0.00
2241	Carriage of Good earth	cum	0.00
2242	Carriage of Dump manure by mechanical transport upto 5 km lead	cum	0.00
2260	Carriage of Brick aggregate	cum	0.00
2261	Carriage of Fine sand (1 part of badarpur sand: 2 parts jamuna sand)	cum	0.00
2262	Carriage of Flyash	cum	0.00
2264	Carriage of Rubbish	cum	0.00
2265	Carriage of Moorum	cum	0.00
2266	Carriage of Surkhi	cum	0.00
2267	Carriage of Stone dust	cum	0.00
2268	Carriage of Marble dust and/or marble chips	cum	0.00
2271	Carriage of G.I. pipes below 100 mm dia	tonne	0.00
2272	Carriage of Stainless Steel pipes below 100 mm dia	tonne	0.00
2273	Carriage of A.C.sheet and accessories	tonne	0.00
2275	Carriage of R.C.C. pipes 100 mm dia	100 metre	0.00
2281	Carriage of R.C.C. pipes 150 mm dia	100 metre	0.00
2287	Carriage of R.C.C. pipes 250 mm dia	100 metre	0.00
2290	Carriage of R.C.C. pipes 300 mm dia	100 metre	0.00
2299	Carriage of R.C.C. pipes 450 & 500 mm dia	100 metre	0.00
2302	Carriage of G.I. sheet and accessories	tonne	0.00
2303	Carriage of R.C.C. pipes 600,700,750 & 800 mm dia	100 metre	0.00
2308	Carriage of Plaster of paris	tonne	0.00
2309	Carriage of Cast Iron fittings	tonne	0.00
2311	Carriage of Red bajri	cum	0.00
2314	Carriage of Barbed wire	tonne	0.00
2317	Carriage of Sludge	cum	0.00
2319	Carriage of Spun iron S & S pipes 100 mm dia	100 metre	0.00
2320	Carriage of Spun iron S & S pipes 125 mm dia	100 metre	0.00
2321	Carriage of Spun iron S & S pipes 150 mm dia	100 metre	0.00
2322	Carriage of Spun iron S & S pipes 200 mm dia	100 metre	0.00
2323	Carriage of Spun iron S & S pipes 250 mm dia	100 metre	0.00
2324	Carriage of Spun iron S & S pipes 300 mm dia	100 metre	0.00
2325	Carriage of Spun iron S & S pipes 350 mm dia	100 metre	0.00
2326	Carriage of Spun iron S & S pipes 400 mm dia	100 metre	0.00

Code No.	Description	Unit	Basic rate 2023-24
2327	Carriage of Spun iron S & S pipes 450 mm dia	100 metre	0.00
2328	Carriage of Spun iron S & S pipes 500 mm dia	100 metre	0.00
2329	Carriage of Spun iron S & S pipes 600mm dia	100 metre	0.00
2330	Carriage of C.I. pipes 500 mm dia	100 metre	0.00
2331	Carriage of R.C.C. pipes 900 mm dia	100 metre	0.00
2332	Carriage of R.C.C. pipes 1000 mm dia	100 metre	0.00
2333	Carriage of R.C.C. pipes 1100 mm dia	100 metre	0.00
2334	Carriage of R.C.C. pipes 1200 mm dia	100 metre	0.00
2335	Carriage of sand	cum	0.00
2336	Carriage of R.C.C. pipe above 1200 mm dia and upto 1800 mm dia	100 metre	0.00
2341	Carriage of Pig lead	tonne	0.00
2342	Carriage of Solvent / Diesel.	quintal	0.00
2343	Carriage of Ductile Iron pipes (k7) 100 mm dia	100 metre	0.00
2344	Carriage of Cast iron pipes 150 mm dia	100 metre	0.00
2345	Carriage of Cast iron pipes 200 mm dia	100 metre	0.00
2346	Carriage of Cast iron pipes 250 mm dia	100 metre	0.00
2347	Carriage of Cast iron pipes 300 mm dia	100 metre	0.00
2348	Carriage of Cast iron pipes 350 mm dia	100 metre	0.00
2349	Carriage of Cast iron pipes 400 mm dia	100 metre	0.00
2350	Carriage of Cast iron pipes 450 mm dia	100 metre	0.00
2351	Carriage of Cast iron pipes 500 mm dia	100 metre	0.00
2352	Carriage of Cast iron pipes 600 mm dia	100 metre	0.00
2353	Carriage of Cast iron pipes 700 mm dia	100 metre	0.00
2355	Carriage of Cast iron pipes 800 mm dia	100 metre	0.00
2356	Carriage of Cast iron pipes 900 mm dia	100 metre	0.00
2357	Carriage of Cast iron pipes 1000 mm dia	100 metre	0.00
2358	Carriage of Bamboo Mat corrugated sheets and accessories	tonne	0.00
2391	Strips-Aluminium fluted 3.15 mm thick and 150 mm wide	metre	346.00
2392	Strips Aluminium fluted 3.15 mm thick and 200 mm wide	metre	475.00
2393	1 mm thick Stainless Steel Cover plate grade 304	kg	346.00
2394	Coupler 16 mm dia	each	40.00
2395	Coupler 20 mm dia	each	52.00
2396	Coupler 25 mm dia	each	89.00
2397	Coupler 28 mm dia	each	102.00
2398	Coupler 32 mm dia	each	139.00
2399	Complete Roof Joint of 100 mm	metre	3451.00
2400	Complete Roof Joint of 150 mm	metre	3808.00
2401	Complete Roof Joint of 200 mm	metre	4760.00
2402	Epoxy adhesive	kg	488.00
2403	Floor Joint of 100 mm	metre	3689.00
2404	Floor Joint of 150 mm	metre	4760.00
2405	Floor Joint of 200 mm	metre	6426.00
2406	Float glass panes of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	639.00
2407	Float glass panes of nominal thickness 5 mm (weight not less than 12.50 kg/sqm)	sqm	810.00
2408	Float glass panes of nominal thickness 8 mm (weight not less than 20.00 kg/sqm)	sqm	1278.00
2409	Wall Joint of 100 mm	metre	2958.00
2410	Wall Joint of 150 mm	metre	3440.00

Code No.	Description	Unit	Basic rate 2023-24
2411	Wall Joint of 200 mm	metre	4130.00
2412	Ply wood 5 ply with commercial ply on both faces 6 mm thick	sqm	379.50
2413	12 mm commercial ply	sqm	613.00
2413.1	9 mm commercial ply	sqm	431.00
2414	18 mm thick block board with commercial ply veneering on both side	sqm	1018.00
2415	21mm thick clear toughened Laminated glass for fins with holes	sqm	9296.40
2447	Hollock ballies 125 mm diameter	metre	42.00
2449	Oxidised mild steel pull bolt lock (locking bolt) of size 85 mm x 42 mm with screws, bolts, nuts and washers complete	each	78.00
2451	Brass cupboard lock 6 levers of approved quality, 40 mm size	each	203.00
2452	Brass cupboard lock 6 levers of approved quality, 50 mm size	each	215.00
2453	Brass cupboard lock 6 levers of approved quality, 65 mm size	each	262.00
2454	Brass cupboard lock 6 levers of approved quality, 75 mm size	each	280.00
2455	Brass hanging type door stopper 150 mm	each	124.00
2456	Hydraulic door closer bottle type M.S. body with necessary accessories and screws complete	each	1351.00
2459	Anodised Aluminium hanging type door stopper	each	42.00
2464	Anodised Aluminium pull bolt lock (locking bolt) of size 85 mm x 42 mm with screws, bolts, nuts and washers complete	each	63.00
2465	Anodised Aluminium Casement stay 250 mm	each	42.00
2466	Hollock wood in scantling	10 cudm	424.83
2467	Chromium plated Brass pull bolt lock (locking bolt) of size 85 mm x 42 mm with screws, bolts, nuts and washers complete	each	227.00
2468	Nickled Chromium Brass cupboard lock 40 mm size	each	185.00
2469	Nickled Chromium Brass cupboard lock 50 mm size	each	210.00
2470	Nickled Chromium Brass cupboard lock 65 mm size	each	247.00
2471	Nickled Chromium Brass cupboard lock 75 mm size	each	271.00
2480	Ply wood 5 ply with teak ply on both faces 9 mm thick	sqm	1107.00
2481	Ply wood 5 ply with teak ply on one face and commercial ply on another face 9 mm thick	sqm	1083.00
2483	Ply wood 7 ply with teak ply on one face and commercial ply on another face 9 mm thick	sqm	1190.00
2484	Pre-laminated with decorative lamination on both side exterior Grade-I MDF Board 12 mm thick confirming to IS:14587	sqm	845.00
2485	Pre-laminated with decorative lamination on both side exterior Grade-I MDF Board 18 mm thick confirming to IS:14587	sqm	1167.00
2486	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade-I MDF Board 25 mm thick confirming to IS: 14587	sqm	1524.00
2487	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade-I MDF Board 12 mm thick confirming to IS:14587	sqm	714.00
2488	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade-I MDF Board 18 mm thick confirming to IS:14587	sqm	833.00
2489	PVC edge bending tape 2.00 mm thick	metre	45.00
2491	Pre laminated both side solid foam uPVC profile (45x20mm)	metre	197.00
2492	Solid foam uPVC sheet 20mm thick pre laminated on both side	sqm	2698.00
2493	PVC edge beading	metre	44.00
2494	Expandable fastner with plastic sleeve	each	8.00

Code No.	Description	Unit	Basic rate 2023-24
2495	18mm thick both sides Pre-laminated cement bonded wood particle board as per IS : 15786:2008	sqm	929.00
2496	6mm thick both sides Pre-laminated cement bonded wood particle board as per IS : 15786:2008	sqm	652.00
2497	19mm thick prelaminated ply	sqm	2142.00
2498	19mm thick both side balancing lamination factory pressed BWP grade marine ply as per IS 710	sqm	2071.00
2500	Extra for selected planks of second class deodar wood	10 cudm	14280.00
2504	Kiln seasoning of timber	cum	893.00
2505	Hollock wood in planks	10 cudm	464.10
2506	Carben Steel galvanised (min 5 micron) dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleeve. Size 10mm x 60 mm	10 Nos	381.00
2507	Carben Steel galvanised (min 5 micron) dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleeve. Size 10mm x 80 mm	10 Nos	405.00
2508	Carben Steel galvanised (min 5 micron) dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleeve. Size 10 mm x 120 mm	10 Nos	518.00
2509	Carben Steel galvanised (min 5 micron) dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleeve. Size 10mm x 140 mm	10 Nos	655.00
2510	Carben Steel galvanised (min 5 micron) dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleeve. Size 10mm x 160 mm	10 Nos	822.00
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	8263.00
2603	Common burnt clay F.P.S. (non modular) bricks class designation 5.0	1000 Nos	0.00
2604	Weather/structural non sag elastomeric PU sealant (600ml Sausage) for joints in RCC/ Brick/ Stone/ wood/ Ceramic/ Gypsum/ Alluminium work complying to ASTM C920, DIN 18540-F & ISO 11600 incl all taxes	each	634.00
2605	Structural sealant - 6 mm x 12 mm	metre	44.00
2606	Spacer tape 6.4 mm thick x 6 mm wide	metre	27.00
2607	Weather Sealant - Non Staining (600 ml)	each	465.00
2608	Weather Sealant - Normal (300 ml)	each	137.00
2609	MS Brackets/Aluminium Alloy Brackets	kg	130.00
2610	Silicon Gasket in Kg (Above 50 g / m)	kg	584.00
2611	EPDM Gasket in Kg (Above 60 g / m)	kg	203.00
2612	Anchor Fastner - M10	each	14.00
2613	SS Bolt with washer of different sizes for structural glazing / ACP Cladding	each	50.00
2614	SS Screws of sizes for structural glazing / ACP Cladding	each	6.00
2615	Protective Tape	metre	33.00
2616	GI flashing - 1.2 mm Thick	kg	78.00
2617	6 mm thick High performance glass	sqm	1226.00
2618	6 mm thick clear heat strengthened glass	sqm	798.00

Code No.	Description	Unit	Basic rate 2023-24
2619	6 mm thick clear heat strengthened glass	each	158.00
2620	ARMS GS HD - Top Hung -20"- Type P- Couple	pair	1655.00
2621	Connection Block for vision glass panel	each	44.00
2622	Curtain wall striker for vision glass panel	each	104.00
2623	Adjustable Fastening Pawl for vision glass panel	each	44.00
2624	Corner drive for vision glass panel	each	310.00
2625	Top wedge Block for vision glass panel	each	155.00
2626	Glass wool of density @ 48 Kg / cum with black glass tissue (BGT)	sqm	332.00
2627	SS Screws - # 8 x 19	each	11.00
2628	Weather Sealant - DC 789	cartridge	197.00
2629	Cement Board	sqm	413.00
2630	Baker rod	metre	9.00
2631	4 mm thick ACP	sqm	1536.00
2632	Fire Stop	metre	572.00
2634	GI/Aluminium Sheet (0.8 mm thick)	kg	78.00
2635	GI Screws of gauge 10, length 25 mm for fixing cement fibre board to C section	each	6.00
2636	GI Screws of gauge 10, length 45 mm for fixing cement fibre board to C section	each	6.00
2637	Vapour barrier	sqm	209.00
2640	Glass panes of required thickness having 120 minutes of fire resistance both integrity and radiation control (EI 120) and minimum 20 minutes of insulation (EI 20)	sqm	29750.00
2641	G.I U beading of 1.6 mm thick G.I sheet with ceramic tape.	metre	320.00
2642	Ceramic tape 5 x20 mm size	metre	518.00
2704	Aluminium Strip 40 mm wide and 2 mm thick	kg	327.00
2705	Glass strips 25 mm wide and 4 mm thick	metre	17.00
2706	Glass strips 50 mm wide and 4 mm thick	metre	36.00
2707	Glass strips 78 mm wide and 4 mm thick	metre	52.00
2708	Truf Paver (500 x 500 x 40 mm)	sqm	595.00
2709	Ceremic Tiles Pieces for Crazy Flooring	quintal	179.00
2710	White marble makrana second quality plain veined stone pieces for crazy flooring	quintal	731.00
2711	FS800H Grade Flooring Panel (Size 600 mm x600 mm x32 mm)	each	881.00
2712	Zinc Electroplated Pedestals - 300 mm	each	182.00
2713	Zinc Electroplated Pedestals - 450 mm	each	262.00
2714	Zinc Electroplated Tube Stinger	each	84.00
2715	Machine Screw for Fixing	each	4.00
2717	Polyvinyl chloride tiles 1.5 mm thick	sqm	595.00
2718	Polyvinyl chloride tiles 2.0 mm thick	sqm	595.00
2723	Adhesive (rubber case)	Kg.	283.00
2744	Aluminium strip 38 mm wide & 1.6 mm thick	kilogram	268.00
2750	8 mm thick granite stone tiles (mirror polished of all shades)	sqm	952.00
2751	8 mm thick marble tiles (polished) Raj Nagar	sqm	476.00
2752	Double charge vitrified tile polished finish of size 60 x 60 cm	sqm	595.00
2753	Double charge vitrified tile polished finish of size 80 x 80 cm	sqm	808.00
2754	Double charge vitrified tile polished finish of size 60 x 120 cm	sqm	893.00
2755	Double charge vitrified tile polished finish of size 80 x 160 cm	sqm	1063.00
2756	Double charge vitrified tile polished finish of size 100 x 100 cm	sqm	1148.00

Code No.	Description	Unit	Basic rate 2023-24
2757	Glazed vitrified tiles polished finish of size 60 x 60 cm	sqm	765.00
2758	Glazed vitrified tiles polished finish of size 60 x 120 cm	sqm	1148.00
2759	Glazed vitrified tiles polished finish of size 80 x 80 cm	sqm	893.00
2760	Glazed vitrified tiles polished finish of size 80 x 120 cm	sqm	1063.00
2761	Glazed vitrified tiles polished finish of size 120 x 120 cm	sqm	1224.00
2762	Glazed Vitrified tiles Matt/Antiskid finish of size 60 x 60 cm	sqm	510.00
2763	Glazed Vitrified tiles Matt/Antiskid finish of size 60 x 120 cm	sqm	714.00
2764	Glazed Vitrified tiles Matt/Antiskid finish of size 80 x 80 cm	sqm	663.00
2765	Glazed Vitrified tiles Matt/Antiskid finish of size 80 x 120 cm	sqm	898.00
2766	Glazed Vitrified tiles Matt/Antiskid finish of size 120 x 120 cm	sqm	1428.00
2901	Stone Aggregate (Single size): 100 mm nominal size	cum	1071.00
2902	Stone Aggregate (Single size): 80 mm nominal size	cum	1071.00
2903	Stone chippings/ screenings 4.75 mm nominal size	cum	1071.00
2904	Stone chippings/ screenings 150 micron nominal size	cum	1071.00
2908	Over burnt (Jhama) Brick Aggregate: 120 mm to 40 mm size	cum	714.00
2909	Over burnt (Jhama) Brick Aggregate: 90 mm to 40 mm size	cum	714.00
2910	Stone chippings/ screenings 12.5/ 13.2 mm nominal size	cum	1071.00
2911	Stone chippings/ screenings 10/ 11.2 mm nominal size	cum	1071.00
2914	Solvent	kg	36.00
2916	Paving Asphalt VG 10 of approved quality	tonne	67000.00
3002	Polyvinyl chloride sheet 400 micron thick	sqm	0.00
3004	Stone ware spouts 100 mm dia 60 cm long	each	54.00
3050	Galvanised steel corrugated sheets	quintal	7695.00
3051	Aluminium troughed profile sheet 0.56mm thick with center to center pitch of 200 mm, depth of 32 mm, overall profile width1092 mm, cover width 1000mm)	sqm	560.00
3052	Aluminium troughed profile sheet 0.71mm thick with center to center pitch of 200 mm, depth of 32 mm, overall profile width1092 mm, cover width 1000mm	sqm	712.00
3053	Aluminium troughed profile sheet 0.91mm thick with center to center pitch of 200 mm, depth of 32 mm, overall profile width1092 mm, cover width 1000mm	sqm	913.00
3054	Aluminium profile sheet 0.56mm thick with center to center pitch of 175 mm, depth of 46mm, top crest width of 41mm, bottom valley width of 80mm, overall profile width of 1144mm, cover width 1050mm	sqm	745.00
3055	Aluminium profile sheet 0.71mm thick with center to center pitch of 175 mm, depth of 46mm, top crest width of 41mm, bottom valley width of 80mm, overall profile width of 1144mm, cover width 1050mm	sqm	943.00
3056	Aluminium profile sheet 0.91mm thick with center to center pitch of 175 mm, depth of 46mm, top crest width of 41mm, bottom valley width of 80mm, overall profile width of 1144mm, cover width 1050mm	sqm	1206.00
3057	Aluminium Circular(sinusoidal) profile sheet 0.56mm thick with center to center pitch of 75 mm, depth of 19 mm, overall profile width 1250mm, cover width 1150mm	sqm	531.00
3058	Aluminium Circular(sinusoidal) profile sheet 0.71mm thick with center to center pitch of 75 mm, depth of 19 mm, overall profile width 1250mm, cover width 1150mm	sqm	684.00
3059	Aluminium Circular(sinusoidal) profile sheet 0.91mm thick with center to center pitch of 75 mm, depth of 19 mm, overall profile width 1250mm, cover width 1150mm	sqm	888.00

Code No.	Description	Unit	Basic rate 2023-24
3060	Precoated Aluminium troughed profile sheet 0.56mm thick with center to center pitch of 200 mm, depth of 32 mm, overall profile width 1092 mm, cover width 1000mm	sqm	649.00
3061	Precoated Aluminium troughed profile sheet 0.71mm thick with center to center pitch of 200 mm, depth of 32 mm, overall profile width 1092 mm, cover width 1000mm	sqm	826.00
3062	Precoated Aluminium troughed profile sheet 0.91mm thick with center to center pitch of 200 mm, depth of 32 mm, overall profile width 1092 mm, cover width 1000mm	sqm	1059.00
3063	Aluminium color coated profile sheet 0.56mm thick with center to center pitch of 175 mm, depth of 46mm, top crest width of 41mm, bottom valley width of 80mm, overall profile width of 1144mm, cover width 1050mm	sqm	863.00
3064	Aluminium color coated profile sheet 0.71mm thick with center to center pitch of 175 mm, depth of 46mm, top crest width of 41mm, bottom valley width of 80mm, overall profile width of 1144mm, cover width 1050mm	sqm	1093.00
3065	Aluminium color coated profile sheet 0.91mm thick with center to center pitch of 175 mm, depth of 46mm, top crest width of 41mm, bottom valley width of 80mm, overall profile width of 1144mm, cover width 1050mm	sqm	1398.00
3066	Aluminium profile sheet 0.56mm thick with center to center pitch of 177.5 mm, depth of 28.5 mm, 987mm overall profile width, cover width 900mm	sqm	694.00
3067	Aluminium profile sheet 0.71mm thick with center to center pitch of 177.5 mm, depth of 28.5 mm, 987mm overall profile width, cover width 900mm	sqm	890.00
3068	Precoated/Mill finish Aluminium plain ridges 0.71 mm TCT/plain and 500- 600 mm wide	metre	576.00
3069	Precoated/Mill finish Aluminium flashings/aprons 0.50mm TCT/plain and wide upto 600 mm	metre	555.00
3070	Precoated/Mill finish Aluminium plain north light cuves	metre	596.00
3071	Precoated/mill finish aluminium Barge board (Upto 200 mm)	metre	497.00
3072	Precoated/Mill finish Aluminium crimp curve	sqm	549.00
3073	Precoated/Mill finish Aluminium gutter	metre	740.00
3074	Stainless steel self tapping screw of 6x50mm with SS hex cap and 3mm thick EPDM seal	100 Nos	510.00
3075	EPDM washer	100 Nos	41.00
3076	Stainless steel bolts & nuts 10 mm dia and 125 mm long round head with slots	each	41.00
3080	Gunmetal non-return valve - vertical (screwed end) 25 mm dia	each	560.00
3084	Gunmetal non-return valve - vertical (screwed end) 32 mm dia	each	715.00
3088	Gunmetal non-return valve - vertical (screwed end) 40 mm dia	each	900.00
3092	Gunmetal non-return valve - vertical (screwed end) 50 mm dia	each	1140.00
3096	Gunmetal non-return valve - vertical (screwed end) 65 mm dia	each	1860.00
3213	Vitreous china Surgeon type wash basin of size 660x460 mm	each	1972.00
3228	600x120 mm glass shelf with anodised aluminium angle frame, C.P. brass brackets and guard rail of standard size	each	306.00
3229	Vitreous china flat back wash basin 550x400 mm	each	561.00
3300	Gunmetal non-return valve - vertical (screwed end) 80 mm dia	each	2860.00

Code No.	Description	Unit	Basic rate 2023-24
3311	C.I. sluice valve (with caps) class II : 100 mm dia	each	2754.00
3314	C.I. sluice valve (with caps) class II : 125 mm dia	each	3366.00
3317	C.I. sluice valve (with caps) class II : 150 mm dia	each	4182.00
3320	C.I. sluice valve (with caps) class II : 200 mm dia	each	9078.00
3321	C.I. sluice valve (with caps) class II : 250 mm dia	each	15300.00
3326	C.I. sluice valve (with caps) class II : 300 mm dia	each	20350.00
3327	15 mm Battery Based Sensor Pillar Cock	each	6120.00
3617	C.P. Brass union 40mm dia	each	298.00
3620	C.C.I. (spun) socketed soil, waste and vent pipe 1.80 metres long: 100 mm dia	each	1521.00
3621	C.C.I. (spun) socketed soil, waste and vent pipe 1.80 metres long: 75 mm dia	each	1173.00
3624	S.C.I. S&S bends with access door 100 mm dia	each	408.00
3625	S.C.I. S&S bends with access door 75 mm dia	each	306.00
3628	S.C.I. S&S bend 100 mm dia	each	306.00
3629	S.C.I. S&S bend 75 mm dia	each	204.00
3634	S.C.I. S&S heel rest sanitary bend 100 mm dia	each	428.40
3635	S.C.I. S&S heel rest sanitary bend 75 mm dia	each	286.00
3640	S.C.I. S&S single equal junctions 100x100x100 mm	each	510.00
3641	S.C.I. S&S single equal junctions 75x75x75 mm	each	357.00
3644	S.C.I. S&S single equal junctions with access door 100x100x 100 mm	each	510.00
3645	S.C.I. S&S single equal junctions with access door 75x75x75 mm	each	398.00
3650	S.C.I. S&S double equal junctions 100x100x100x100 mm	each	643.00
3651	S.C.I. S&S double equal junctions 75x75x75x75 mm	each	480.00
3654	S.C.I. S&S double equal junctions with access door 100x100x100x 100 mm	each	643.00
3655	S.C.I. S&S double equal junctions with access door 75x75x75x75 mm	each	510.00
3660	S.C.I. S&S single unequal junctions 100x100x75 mm	each	612.00
3664	S.C.I. S&S single unequal junctions with access door 100x100x75 mm	each	663.00
3670	S.C.I. S&S double unequal junctions 100x100x75x75 mm	each	816.00
3674	S.C.I. S&S double unequal junctions with access door 100x100x75x 75 mm	each	1260.00
3681	S.C.I. S&S single equal invert branch of required degree 100x100x 100 mm dia	each	439.00
3682	S.C.I. S&S single equal invert branch of required degree 75x75x 75 mm dia	each	337.00
3685	S.C.I. S&S double equal invert branch of required degree 100x100x100x 100 mm	each	551.00
3686	S.C.I. S&S double equal invert branch of required degree 75x75x75x 75 mm dia	each	459.00
3690	S.C.I. S&S single unequal invert branch of required degree 100x100x 75 mm dia	each	561.00
3695	S.C.I. S&S double unequal invert branch of required degree 100x100x 75x75 mm d	each	745.00
3699	S.C.I. S&S, 75 mm offset for 75 mm dia pipe	each	322.00
3707	S.C.I. S&S, 150 mm offset for 75 mm dia pipe	each	420.00
3708	S.C.I. S&S, 150 mm offset for 100 mm dia pipe	each	560.00
3712	S.C.I. S&S, 114 mm offset for 75 mm dia pipe	each	434.00
3713	S.C.I. S&S, 114 mm offset for 100 mm dia pipe	each	398.00
3716	S.C.I. S&S, 152 mm offset for 75 mm dia pipe	each	368.00
3717	S.C.I. S&S, 152 mm offset for 100 mm dia pipe	each	470.00
3728	S.C.I. S&S door pieces 100 mm dia	each	574.00

Code No.	Description	Unit	Basic rate 2023-24
3729	S.C.I. S&S door pieces 75 mm dia	each	420.00
3733	S.C.I. S&S, Slotted Cowl (Terminal Guard) 100 mm	each	420.00
3734	S.C.I. S&S, Slotted Cowl (Terminal Guard) 75 mm	each	294.00
3738	S.C.I. S&S, collars 100 mm	each	420.00
3739	S.C.I. S&S, collars 75 mm	each	252.00
3746	S.C.I. S&S, 75 mm offset for 75 mm dia pipe	each	225.00
3747	S.C.I. S&S, 75 mm offset for 100 mm dia pipe	each	368.00
3749	Vitreous china toilet paper holder of standard size	each	213.00
3860	560 mm dia cover with frame (Heavy duty)	each	9282.00
3861	560 mm dia cover without frame (Heavy duty)	each	5722.20
3862	SS pipe 316L grade as per IS 6911:2017 with press fit technology and conforming to EN-10312 standard 15 mm outer dia	metre	317.00
3863	SS pipe 316L grade as per IS 6911:2017 with press fit technology and conforming to EN-10312 standard 22 mm outer dia	metre	510.00
3864	SS pipe 316L grade as per IS 6911:2017 with press fit technology and conforming to EN-10312 standard 28 mm outer dia	metre	663.00
3865	SS pipe 316L grade as per IS 6911:2017 with press fit technology and conforming to EN-10312 standard 35 mm outer dia	metre	964.00
3866	SS pipe 316L grade as per IS 6911:2017 with press fit technology and conforming to EN-10312 standard 42 mm outer dia	metre	1184.00
3867	SS pipe 316L grade as per IS 6911:2017 with press fit technology and conforming to EN-10312 standard 54 mm outer dia	metre	1530.00
3868	Coupling/Socket fittings for 15 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	220.00
3869	Coupling/Socket fittings for 22 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	276.00
3870	Coupling/Socket fittings for 28 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	322.00
3871	Coupling/Socket fittings for 35 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	403.00
3872	Coupling/Socket fittings for 42 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	546.00
3873	Coupling/Socket fittings for 54 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	653.00
3874	Reducer for 22 mm X 15 mm outer Dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	261.00
3875	Reducer for 28 mm X 15 mm outer Dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	383.00
3876	Reducer for 28 mm X 22 mm outer Dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	317.00
3877	Reducer for 35 mm X 22 mm outer Dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	388.00
3878	Reducer for 35 mm X 28 mm outer Dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	480.00
3879	Reducer for 42 mm X 22 mm outer Dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	704.00
3880	Reducer for 42 mm X 28 mm outer Dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	735.00
3881	Reducer for 42 mm X 35 mm outer Dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	618.00

Code No.	Description	Unit	Basic rate 2023-24
3882	Reducer for 54 mm X 28 mm outer Dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1010.00
3883	Reducer for 54 mm X 35 mm outer Dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1051.00
3884	Reducer for 54 mm X 42 mm outer Dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	852.00
3885	Sleeve/Slip Coupling / Socket 15 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	383.00
3886	Sleeve/Slip Coupling / Socket 22 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	459.00
3887	Sleeve/Slip Coupling / Socket 28 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	531.00
3888	Sleeve/Slip Coupling / Socket 35 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	592.00
3889	Sleeve/Slip Coupling / Socket 42 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	684.00
3890	Sleeve/Slip Coupling / Socket 54 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	975.00
3891	Elbow 90° for 15 mm outer dia SS pipe of grade 316L as per IS 6911: 2017 and conforming to EN-10312 standard	each	312.00
3892	Elbow 90° for 22 mm outer dia SS pipe of grade 316L as per IS 6911: 2017 and conforming to EN-10312 standard	each	439.00
3893	Elbow 90° for 28 mm outer dia SS pipe of grade 316L as per IS 6911: 2017 and conforming to EN-10312 standard	each	587.00
3894	Elbow 90° for 35 mm outer dia SS pipe of grade 316L as per IS 6911: 2017 and conforming to EN-10312 standard	each	959.00
3895	Elbow 90° for 42 mm outer dia SS pipe of grade 316L as per IS 6911: 2017 and conforming to EN-10312 standard	each	1551.00
3896	Elbow 90° for 54 mm outer dia SS pipe of grade 316L as per IS 6911: 2017 and conforming to EN-10312 standard	each	2051.00
3897	Equal Tee for 15 mm outer dia SS pipe of grade 316L as per IS 6911: 2017 and conforming to EN-10312 standard	each	510.00
3898	Equal Tee for 22 mm outer dia SS pipe of grade 316L as per IS 6911: 2017 and conforming to EN-10312 standard	each	597.00
3899	Equal Tee for 28 mm outer dia SS pipe of grade 316L as per IS 6911: 2017 and conforming to EN-10312 standard	each	735.00
3900	Equal Tee for 35 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	913.00
3901	Equal Tee for 42 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1275.00
3902	Equal Tee for 54 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1530.00
3903	Reducing Tee for 22 mm X 15 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	587.00
3904	Reducing Tee for 28 mm X 15 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	730.00
3905	Reducing Tee for 28 mm X 22 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	725.00
3906	Reducing Tee for 35 mm X 15 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	918.00

Code No.	Description	Unit	Basic rate 2023-24
3907	Reducing Tee for 35 mm X 22 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	924.00
3908	Reducing Tee for 35 mm X 28 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	934.00
3909	Reducing Tee for 42 mm X 22 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1306.00
3910	Reducing Tee for 42 mm X 28 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1291.00
3911	Reducing Tee for 42 mm X 35 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1316.00
3912	Reducing Tee for 54 mm X 22 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1602.00
3913	Reducing Tee for 54 mm X 28 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1571.00
3914	Reducing Tee for 54 mm X 35 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1581.00
3915	Reducing Tee for 54 mm X 42 mm outer dia SS pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1530.00
3916	Stainless steel Female thread Tee for 15 mm outer dia X 1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	572.00
3917	Stainless steel Female thread Tee for 22 mm outer dia X 1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	628.00
3918	Stainless steel Female thread Tee for 22 mm outer dia X 3/4" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	704.00
3919	Stainless steel Female thread Tee for 28 mm outer dia X 1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	745.00
3920	Stainless steel Female thread Tee for 28 mm outer dia X 3/4" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	771.00
3921	Stainless steel Female thread Tee for 28 mm outer dia X 1" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	857.00
3922	Stainless steel Female thread Tee for 35 mm outer dia X 1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	862.00
3923	Stainless steel Female thread Tee for 35 mm outer dia X 1-1/4" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1183.00
3924	Stainless steel Female thread Tee for 42 mm outer dia X 1-1/4" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1373.00
3925	Stainless steel Female thread Tee for 54 mm outer dia X 1-1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1959.00

Code No.	Description	Unit	Basic rate 2023-24
3926	Stainless steel Female thread Tee for 54 mm outer dia X 2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	2354.00
3927	Stainless steel Female threaded Connector/Adapter for 15 mm outer dia X 1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	449.00
3928	Stainless steel Female threaded Connector/Adapter for 22 mm outer dia X 1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	505.00
3929	Stainless steel Female threaded Connector/Adapter for 22 mm outer dia X 3/4" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	592.00
3930	Stainless steel Female threaded Connector/Adapter for 28 mm outer dia X 1" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	975.00
3931	Stainless steel Female threaded Connector/Adapter for 35 mm outer dia X 1-1/4" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1041.00
3932	Stainless steel Female threaded Connector/Adapter for 42 mm outer dia X 1-1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1597.00
3933	Stainless steel Female threaded Connector/Adapter for 54 mm outer dia X 2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	2448.00
3934	Stainless steel Male threaded Connector/ Adapter for 15 mm outer dia X 1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	414.00
3935	Stainless steel Male threaded Connector/ Adapter for 22 mm outer dia X 1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	490.00
3936	Stainless steel Male threaded Connector/ Adapter for 22 mm outer dia X 3/4" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	516.00
3937	Stainless steel Male threaded Connector/ Adapter for 28 mm outer dia X 1" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	679.00
3938	Stainless steel Male threaded Connector/ Adapter for 35 mm outer dia X 1-1/4" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	990.00
3939	Stainless steel Male threaded Connector/ Adapter for 42 mm outer dia X 1-1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1444.00
3940	Stainless steel Male threaded Connector/ Adapter for 54 mm outer dia X 2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1933.00
	Female Threaded Elbow 90°		
3941	SS Female Threaded Elbow 90° for 15 mm outer dia X 1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	653.00

Code No.	Description	Unit	Basic rate 2023-24
3942	SS Female Threaded Elbow 90° for 22 mm outer dia X 3/4" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	878.00
3943	SS Female Threaded Elbow 90° for 28 mm outer dia X 1" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1204.00
3944	SS Female Threaded Elbow 90° for 35 mm outer dia X 1-1/4" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1956.00
3945	SS Female Threaded Elbow 90° for 42 mm outer dia X 1-1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	2130.00
3946	SS Female Threaded Elbow 90° for 54 mm outer dia X 2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	3292.00
3947	SS Male Threaded Elbow 90° for 15 mm outer dia X 1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	536.00
3948	SS Male Threaded Elbow 90° for 22 mm outer dia X 3/4" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	806.00
3949	SS Male Threaded Elbow 90° for 28 mm outer dia X 1" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1066.00
3950	SS Male Threaded Elbow 90° for 35 mm outer dia X 1-1/4" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1469.00
3951	SS Male Threaded Elbow 90° for 42 mm outer dia X 1-1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	2688.00
3952	SS Male Threaded Elbow 90° for 54 mm outer dia X 2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	3058.00
3953	Stainless steel Cap for 15 mm outer dia pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	327.00
3954	Stainless steel Cap for 22 mm outer dia pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	424.00
3955	Stainless steel Cap for 28 mm outer dia pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	526.00
3956	Stainless steel Cap for 35 mm outer dia pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	735.00
3957	Stainless steel Cap for 42 mm outer dia pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1597.00
3958	Stainless steel Cap for 54 mm outer dia pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1755.00
3959	Stainless steel Pipe Bridge for 15 mm outer dia pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	424.00
3960	Stainless steel Pipe Bridge for 22 mm outer dia pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1133.00

Code No.	Description	Unit	Basic rate 2023-24
3961	Stainless steel Pipe Bridge for 28 mm outer dia pipe of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1557.00
3962	SS Male Union for 15 mm outer dia X 1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	903.00
3963	SS Male Union for 22 mm outer dia X 1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	913.00
3964	SS Male Union for 22 mm outer dia X 3/4" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1046.00
3965	SS Male Union for 28 mm outer dia X 1" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1842.00
3966	SS Male Union for 35 mm outer dia X 1-1/4" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1923.00
3967	SS Male Union for 42 mm outer dia X 1-1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	2173.00
3968	SS Male Union for 54 mm outer dia X 2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	3754.00
3969	SS Female Union for 22 mm outer dia X 3/4" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	969.00
3970	SS Female Union for 28 mm outer dia X 1" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	1306.00
3971	SS Female Transition Elbow/ FTE for 15 mm outer dia X 1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	662.00
3972	SS Female Transition Elbow/ FTE for 22 mm outer dia X 1/2" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	918.00
3973	SS Female Transition Elbow/ FTE for 22 mm outer dia X 3/4" nominal dia threaded of grade 316L as per IS 6911:2017 and conforming to EN-10312 standard	each	888.00
3991	Galvanized iron (1.6 ± 0.2 mm) thick reinforcement for small series casement window/door frame, sash, mullion & small series sliding window frame	metre	77.00
3992	Galvanized iron (1.6 ± 0.2 mm) thick reinforcement for big series casement window/door frame, sash, mullion, big & small series sliding window frame	metre	82.50
3993	Galvanized iron (1.6 ± 0.2 mm) thick reinforcement for big series casement door sash	metre	110.00
3994	Galvanized iron (1.6 ± 0.2 mm) thick reinforcement for big series sliding window / door sash	metre	99.00
3995	G.I fasteners 100 x 8 mm	each	16.50
4001	Stainless steel (Grade-304)hollow section round/square tubes	kg	320.00
4002	Stainless steel bolts/square bar and plates	kg	257.40
4006	Pressed steel door frames (mild steel sheet 1.60 mm) Profile "B"	metre	220.00
4007	Pressed steel door frames (mild steel sheet 1.60 mm) Profile "C"	metre	242.00
4008	Pressed steel door frames (mild steel sheet 1.60 mm) Profile "E"	metre	275.00
4009	Mild steel tubes hot finished welded type	kg	75.00
4010	Mild steel tubes hot finished seamless type	kg	85.00
4011	Mild steel tubes electric resistant or induction butt welded	kg	60.00
4012	Circular C.I. Box for ceiling fan internal dia 140 mm, 73 mm height, toplid of 1.5mm thick MS sheet	each	66.00

Code No.	Description	Unit	Basic rate 2023-24
4013	Pulley 40 mm dia	each	36.00
4201	Aluminium primer	litre	123.00
4202	Red oxide Zinc chromate primer	litre	168.00
4203	Copper acetate	kg	306.00
4204	Hydrochloric acid	kg	36.00
4205	Copper chloride	kg	306.00
4206	Copper nitrate	kg	215.00
4207	Ammonium chloride	kg	23.00
5001	Mobil oil	litre	325.00
5050	SS pipe 304 grades with press fit technology as per JIS 3448 Standard 48.60 mm outer dia	metre	694.00
5743	Coloured inter locking C.C. paver Block	sqm	510.00
5744	EPS blocks	kg	153.00
5745	GI woven mesh of aperture 5.45 mm (with wire of dia 0.90 mm	kg	62.00
5746	SR adhesive for joining EPS blocks	kg	184.00
5747	Factory made single extruded WPC (Wood Polymer Composite) solid door/window, clerestory windows & other Frames/Chowkhat of frame size 45 x 70 mm	metre	383.00
5748	Factory made single extruded WPC (Wood Polymer Composite) solid door/window, clerestory windows & other Frames/Chowkhat of frame size 45 x 85 mm	metre	536.00
5749	Factory made single extruded WPC (Wood Polymer Composite) solid door/window, clerestory windows & other Frames/Chowkhat of frame size 50 x 100 mm	metre	551.00
5750	Factory made single extruded WPC (Wood Polymer Composite) solid door/window, clerestory windows & other Frames/Chowkhat of frame size 50 x 125 mm	metre	643.00
5751	Factory made single extruded WPC (Wood Polymer Composite) solid door/window, clerestory windows & other Frames/Chowkhat of frame size 65 x 100 mm	metre	663.00
5752	Factory made single extruded WPC (Wood Polymer Composite) solid door/window, clerestory windows & other Frames/Chowkhat of frame size 65 x 125 mm	metre	852.00
5753	Factory made single extruded WPC (Wood Polymer Composite) solid door/window, clerestory windows & other Frames/Chowkhat of frame size 65 x 150 mm	metre	1031.00
5754	Factory made single extruded WPC (Wood Polymer Composite) solid plain flush door shutter 30mm thick	sqm	2856.00
5755	Factory made single extruded WPC (Wood Polymer Composite) solid plain flush door shutter 35 mm thick	sqm	3315.00
5756	Factory made single extruded WPC (Wood Polymer Composite) solid plain white colored board of 18 mm thick	sqm	1785.00
5757	Factory made single extruded WPC (Wood Polymer Composite) solid plain white colored board of 25 mm thick	sqm	2408.00
5758	Factory made single extruded WPC (Wood Polymer Composite) solid plain white colored board of 6 mm thick	sqm	612.00
5759	Factory made single extruded WPC (Wood Polymer Composite) solid plain white colored board of 12 mm thick	sqm	1041.00
5760	Factory made 18 mm thick single extruded WPC (Wood Polymer Composite) solid plain white colour board Jali	sqm	2306.00

Code No.	Description	Unit	Basic rate 2023-24
5761	PVC laminated foil of minimum thickness of 14 microns of approved design	sqm	128.00
5762	16mm thick extruded terracotta tiles of grey colour of size 300 x 595mm	sqm	2196.00
5763	16mm thick extruded terracotta tiles of other than grey colour of size 300 x 595mm	sqm	2032.00
5764	24mm thick extruded terracotta tiles of grey color of size 309x1190 mm and length 1190mm	sqm	2525.00
5765	24mm thick extruded terracotta tiles of grey color of size 309x1190 mm and length 1190mm	sqm	2306.00
5766	Melamine wood sealer	litre	194.00
5767	Melamine solvent/thinner	litre	123.00
5768	Sanding cloth 150 mm wide	metre	62.00
5769	Sandpapers of assorted gratings	Nos	23.00
5770	Melamine wood filler putty	kg	123.00
5771	Dhoti (worm out soft cotton cloth)	Nos	26.00
5772	Grease	kg	216.00
5773	Shutttering oil	litre	110.40
5774	GP-2 cementeous compound	kg	21.00
5775	Galavinised MS L-shape level adjuster of size 76x25x25x1.6 mm	each	16.00
5776	12x50 mm long dash fastener	each	36.00
5777	Galvanized MS Z Cleat of size 25 x 37 x 25 x 1.6 mm with precut hole on both 25 mm flange	each	13.00
5778	15mm tegular/butt edged without perforation plain/designer light weight calcium silicate Anti-Microbial Bio-Safe coated false ceiling tiles of size 595x595 mm	sqm	847.00
5779	Grinding buffers	day	255.00
5780	4mm thick sheet of aluminium alloy grade 6061 (type-6) for aluminium formwork	kg	255.00
5781	Fabrication cost for formwork panels and special including computerised designing for fabrication and mock testing before transportation to site of work.	kg	0.00 36.00
5782	Packaging and carting of aluminium sheet/plate to the site of work	tonne	5100.00
5783	MS working platform for aluminium formwork	kg	47.00
6001	White marble slab Makrana second quality plain veined 18 mm thick	sqm	1595.00
6007	Pink marble slab plain 18 mm thick	sqm	726.00
6010	Udaypur green marble slab plain 18 mm thick	sqm	660.00
6019	Black Zebra marble slab plain 18 mm thick	sqm	968.00
6501	Sand zone V (Jamuna)	cum	1430.00
7001	Brass 100mm mortice latch and lock with 6 levers without pair of handles	each	214.50
7003	Pair of Anodised Aluminium lever handles for 100 mm mortice latch and lock	each	236.50
7004	Vitreous china flat back wash basin 450x300 mm	each	723.80
7005	Vitreous china 10 litres low level cistern without fittings	each	1254.00
7006	Vitreous china 10 litres low level cistern with fittings	each	1967.90
7008	F.P.S. (non modular) clay fly ash bricks class designation 7.5	1000 Nos	8840.00
7009	12.5 mm thick tapered edge plain gypsum plaster board conforming to IS 2095 (Part 1):2011	sqm	279.50
7010	Galvanised Steel ceiling section (size 80x26x0.50 mm)	metre	47.00
7011	Galvanised Steel perimetre Channel (Size 20x27x30x0.50 mm)	metre	23.00

Code No.	Description	Unit	Basic rate 2023-24
7012	Galvanised Steel intermediate Channel (Size 15x45x15x0.90 mm)	metre	39.00
7013	Galvanised Steel angle hanger (Ceiling angle) (Size 25x10x0.50 mm)	metre	13.00
7014	Galvanised Steel connecting clips (2.64 mm dia and 230 mm long GI wire)	each	5.00
7015	Galvanised Steel soffit cleat (Size 27x37x25x0.60 mm)	each	4.00
7016	Joint filler	kg	39.60
7017	Joint finisher	kg	30.80
7018	Joint tape roll	roll	92.00
7019	Dash fastener / Chemical fastener	each	13.00
7020	All drive screws (for gypsum board)	100 Nos	60.00
7021	Primer (for gypsum board)	litre	72.00
7022	Chlorpyrifos 20% E.C. / Lindane 20% E.C.	litre	165.00
7023	Chromium plated brackets (curtain rods)	each	13.20
7024	Acid Proof cement	tonne	8580.00
7025	Self tapping pan head nickel coated mild steel screws of size 13 x3.2 mm	1000 Nos	638.00
7026	Fibre joint tape 50 mm wide (90 metre) roll	each roll	225.50
7027	M.S. Butt hinges 125x90x4 mm	10 Nos	108.00
7028	12.5 mm thick Fully Perforated gypsum board	sqm	388.00
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm	sqm	255.00
7031	12.5 mm thick tapered edge moisture resistant plain gypsum plaster board confirming to IS 2095 (Part 1):2011	sqm	312.40
7032	Frosted glass sheet of nominal thickness 4 mm (weighing not less than 10 kg/sqm)	sqm	970.20
7033	Nickel plated M.S. pipe 25 mm dia	metre	88.00
7034	Nickel plated M.S. pipe 20 mm dia	metre	79.20
7035	Nickel plated M.S. Brackets for curtain rod 20 mm	each	22.00
7036	Nickel plated M.S - Brackets for curtain rod 25 mm	each	27.50
7040	Oxidised mild steel screws 35 mm	100 Nos	52.80
7042	Mild steel conduit pipe (heavy type) ISI marked-20 mm dia	metre	63.80
7043	Mild steel conduit pipe (heavy type) ISI marked-25 mm dia	metre	73.70
7044	Rolling shutters of 80x0.90 mm laths	sqm	1556.50
7045	Rolling shutters of 80x1.2 mm laths	sqm	1925.00
7046	Top cover of Rolling shutters 0.90 mm thick	metre	580.80
7047	Top cover of Rolling shutters 1.20 mm thick	metre	673.20
7048	Rawl plug 50 mm (designation 10 nos)	each	27.50
7049	Teak wood lipping of size 25x3 mm in pelmets	metre	22.00
7050	PU Primer	sqm	68.20
7051	40 mm (average) PU spray having 40-45 kg/m3 density	sqm	454.30
7052	GI wire netting 3/4" x 24 G	sqm	34.10
7053	400 G polythene sheet	sqm	19.80
7055	Flat pressed 3 layer and graded particle board (medium density) Grade 1 conforming to IS : 3087 - 18 mm thick	sqm	567.60
7056	Aluminium tee channel (heavy duty) with rollers and stop end	metre	134.20
7059	Aluminium hanging floor door stopper with twin rubber & stopper	each	45.10
7060	Hydraulic door closer tubular type Aluminium section body	each	682.00
7063	Oxidised M.S.casement stay (straight peg type) 300 mm not less than 0.20 kg	each	49.50

Code No.	Description	Unit	Basic rate 2023-24
7064	Oxidised M.S.casement stay (straight peg type) 250 mm not less than 0.15 kg	each	44.00
7065	Oxidised M.S. casement stay (straight peg type) 200 mm not less than 0.12 kg	each	33.00
7068	Extra for providing grilled rolling shutters with 8 mm dia M.S. rod	sqm	550.00
7070	Chequered precast cement concrete tiles 22 mm thick using marble chips of size 6mm - Light shade using white cement	sqm	451.00
7071	White marble Raj Nagar plain 18 mm thick upto 0.50 sqm area	sqm	930.00
7072	Wall mounted water closet of size 780 x 370x690 mm	each	6600.00
7073	Adjustable Vitreous China Cistern with fittings of flushing capacity 3 litre/ 6litre 9adjustibla to 4 litre/8litre)	each	2521.95
7074	White Vetrious China Waterless Urinal of size 600x330x315 mm	each	10615.00
7075	Cistern with fittings for Waterless Urinal	each	2750.00
7076	Battery based infrared sensor operated white Vitreous Urinal of aprox. size 610x390x370 mm	each	6300.00
7077	Acid and alkali resistant tiles 300x300 mm size, 10 mm thick	10 Nos	627.00
7087	S.C.I. Tee 150 mm	each	627.00
7090	Expanded polystyrene type N- Normal 50 mm thick	sqm	154.00
7091	Expanded polystyrene type - SE 50 mm thick	sqm	187.00
7095	Stainless steel kitchen sink - with drain board 510x1040 mm bowl depth 250 mm	each	3542.00
7096	Stainless steel kitchen sink - with drain board 510 x 1040 mm bowl depth 225 mm	each	3355.00
7097	Stainless steel kitchen sink - with drain board 510 x 1040 mm bowl depth 200 mm	each	3135.00
7098	Stainless steel kitchen sink - with drain board 510x1040 mm bowl depth 178 mm	each	3014.00
7101	Stainless steel kitchen sink - without drain board 610x510 mm bowl depth 200 m	each	2585.00
7102	Stainless steel kitchen sink - without drain board 610x460 mm bowl depth 200 m	each	2035.00
7103	Stainless steel kitchen sink - without drain board 470x420 mm bowl depth 178 m	each	1703.90
7104	Coloured Orissa pattern W.C. pan 580x440 mm	each	2240.00
7105	Coloured Pedestal type W.C. pan 580x440 mm (European type)	each	1100.00
7106	Coloured Vitreous china 10 lit. low level cistern	each	1477.30
7107	Coloured (other than black) solid P.V.C. seat in European W.C. pan	each	495.00
7112	Circular shape 450 mm dia Mirror with Plastic moulded frame	each	567.60
7113	Rectangular shape 453x357 mm Mirror with Plastic moulded frame	each	330.00
7114	Oval shape 450x350 mm (outer dimensions) Mirror with Plastic moulded frame	each	397.10
7115	Rectangular shape 1500x450 mm Mirror with Plastic moulded frame	each	908.60
7116	Hard board 6 mm thick	sqm	170.50
7117	Semi Rigid PVC waste pipe for sink and wash basin 32 mm dia with length not less than 700 mm i/c PVC waste fittings	each	57.20
7118	Semi Rigid PVC waste pipe for sink and wash basin 40 mm dia with length not less than 700 mm i/c PVC waste fittings	each	68.20
7119	Flexible (coil shaped) PVC waste pipe for sink and wash basin 32mm dia with length not less than 700 mm i/c PVC waste fittings	each	63.00
7120	Flexible (coil shaped) PVC waste pipe for sink and wash basin 40 mm dia with length not less than 700 mm i/c PVC waste fittings	each	80.60
7121	Bottle Trap	each	660.00
7122	CP Brass Single lever telephonic wall mixer of approved make	each	5500.00

Code No.	Description	Unit	Basic rate 2023-24
7123	Coloured High density polyethylene / poly propylene 10 lit. (full flush) capacity controlled low level flushing cistern with fittings	each	748.00
7126	White Vitreous china 10 litre (full flush) capacity controlled low level flushing cistern with all fittings	each	1136.30
7127	Coloured Vitreous china 10 litre (full flush) capacity controlled low level flushing cistern with all fittings	each	1265.00
7128	S.W. intercepting trap 100 mm dia	each	247.50
7129	S.W. intercepting trap 150 mm dia	each	308.00
7130	Rectangular shape 600x450 mm precast R.C.C. manhole cover with frame - L.D. - 2	each	825.00
7131	Square shape 450x450 mm precast R.C.C. manhole cover with frame - L.D. - 2.5	each	759.00
7132	Circular shape 450 mm dia precast R.C.C. manhole cover with frame - L.D. - 2.5	each	759.00
7133	Rectangular shape 500x500 mm precast R.C.C. manhole cover with frame - M.D. -	each	880.00
7134	Circular shape 500 mm dia precast R.C.C. manhole cover with frame- M.D.-10	each	759.00
7135	Circular shape 560 mm dia precast R.C.C. manhole cover with frame - H.D. - 20	each	1160.50
7136	Circular shape 560 mm dia precast R.C.C. manhole cover with frame - E.H.D. - 35	each	1540.00
7137	Factory made 35 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 and panels of 12 mm thick plain type-I, medium density flat pressed three layer, graded particle board (FPT-I) as per IS:3087 bonded with BWP type synthetic resin adhesive, as per IS:848	sqm	1870.00
7139	Factory made 35 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 and panels of 12 mm thick both sides prelaminated type-I, medium density flat pressed three layer, graded particle board (FPT-I) as per IS:3087 bonded with BWP type synthetic resin adhesive, as per IS:848	sqm	1917.30
7143	Factory made 35 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 and panels of 12 mm thick one side prelaminated type-I, and other side balancing lamination, medium density flat pressed three layer, graded particle board (FPT- I) as per IS:3087 bonded with BWP type synthetic resin adhesive, as per IS:848	sqm	2123.00
7151	Factory made 30 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 and panels of sheet glass using 10 kg/ sqm glass panes	sqm	1535.60
7154	Factory made 35 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 and panels of galvanised wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm	sqm	1870.00
7155	Factory made 30 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 and panels of galvanised wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm	sqm	1573.00
7157	Laminated veneer lumber conforming to TADS 15:1995 manufactured in factory in frames of doors, windows	10 cudm	770.00
7178	Chemical ASTM C-type I	kg	122.10
7181	C.I. pile shoe	kg	58.30

Code No.	Description	Unit	Basic rate 2023-24
7182	M.S. clamps for pile shoe of 35 kg per pile	kg	60.50
7183	Bentonite of 35 kg per pile	tonne	3575.00
7184	Oxidised M.S. safety chain (weighing not less than 450 gms) for door	each	69.30
7187	C.I. grating 150 mm dia, weighing not less than 440 gm	each	45.10
7188	U-PVC pipes (working pressure 4 kg / cm ²) Single socketed pipe 75 mm dia	metre	97.90
7189	U-PVC pipes (working pressure 4 kg / cm ²) Single socketed pipe 110 mm dia	metre	194.70
7190	U-PVC pipes (working pressure 4 kg / cm ²) Rubber (Seal) Ring 75 mm dia	each	9.90
7191	U-PVC pipes (working pressure 4 kg / cm ²) Rubber (Seal) Ring 110 mm dia	each	12.10
7192	uPVC coupler for UPVC drainage pipes 75 mm	each	57.20
7193	uPVC coupler for UPVC drainage pipes 110 mm	each	85.80
7194	uPVC pushfit coupler (single) 75 mm thick	each	19.80
7195	uPVC pushfit coupler (single) 110 mm thick	each	36.30
7196	uPVC single equal Tee (without door) 75x75x75 mm	each	68.20
7197	uPVC single equal Tee (without door) 110x110x110 mm	each	136.40
7198	uPVC single equal Tee (with door) 75x75x75 mm	each	85.80
7199	uPVC single equal Tee (with door) 110x110x110 mm	each	165.00
7208	UPVC bend 87.5° 75 mm bend	each	50.60
7209	UPVC bend 87.5° 110 mm bend	each	101.20
7212	UPVC plain shoe 75 mm	each	55.00
7213	UPVC plain shoe 110 mm	each	57.20
7214	UPVC pipe clip 75 mm	each	22.00
7215	UPVC pipe clip 110 mm	each	28.60
7216	Self-Drilling/Self-Tapping Screws M-6 25mm long	each	26.40
7217	SS anchor Fasteners (RCC / Brick) – M-8x75mm/M-10x100mm	each	115.00
7218	MS Polymer Sealant Adhesive	litre	1224.00
7219	SS Double Clip at intermediate	each	8.00
7220	SS Single clip at top and bottom	each	5.00
7221	Self-Drilling/Self-Tapping Screws 5.5x25 mm long	each	4.00
7222	SS Anchor Fasteners (RCC / Brick) – M-8x100 mm	each	166.00
7224	Concrete hardener	kg	56.00
7225	Release agent	litre	204.00
7226	Sealer	kg	266.00
7227	PU resin top coat	kg	230.00
7231	Resin Bonded Glass wool 16 kg/m ³ : 50 mm thick	sqm	110.00
7232	Resin Bonded Glass wool 24 kg/m ³ : 50 mm thick	sqm	157.30
7233	Fibre glass tissue reinforcement Type II Grade i	sqm	90.20
7236	Precast chequered cement tiles 22 mm thick Dark shade using ordinary cement	sqm	255.20
7237	Precast chequered cement tiles 22 mm thick medium shade using 50% white cement 50% ordinary cement	sqm	370.70
7238	High Albedo paint	kg	210.10
7239	Epoxy paint	litre	253.00
7240	Fire retardant paint	litre	279.40
7241	Melamine polish	litre	260.70
7244	Table rubbed polished stone 18 mm thick (75x50cm) Agaria Marble stone - 18 mm thick	sqm	2006.40

Code No.	Description	Unit	Basic rate 2023-24
7245	Table rubbed polished stone 18mm thick (75x50cm) Granite stone- 18 mm thick	sqm	2006.40
7246	Vertical load testing (initial) of piles in accordance with IS : 2911 (Part-IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification and up to 50 tonne capacity pile	per test	131161.80
7247	Vertical load testing (initial) of piles in accordance with IS : 2911 (Part-IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & above 50 tonne and up to 100 tonne	per test	198418.00
7248	Vertical load testing (initial) of piles in accordance with IS : 2911 (Part-IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & group of two or more up to 50 tonne	per test	219964.80
7249	Cyclic vertical load testing of piles in accordance with IS : 2911 (Part- IV) including preparation of pile head etc. for Single pile up to 50 tonne capacity	per test	144278.20
7250	Cyclic vertical load testing of piles in accordance with IS : 2911 (Part- IV) including preparation of pile head etc. for Single pile above 50 tonne capacity pile and up to 100 tonne capacity pile	per test	218259.80
7251	Cyclic vertical load testing of piles in accordance with IS : 2911 (Part- IV) including preparation of pile head etc. for Group of two piles up to 50 tonne capacity each	per test	241961.50
7252	Lateral load testing of single pile in accordance with IS : 2911 part -IV for determining safe allowable lateral load on pile up to 50 tonne capacity	per test	60725.50
7253	Lateral load testing of single pile in accordance with IS : 2911 part -IV for determining safe allowable lateral load on pile above 50 tonne capacity	per test	68554.20
7254	Hardening compound	litre	48.40
7255	Road marking paint (spirit based)	litre	159.50
7256	Superior quality road marking paint (water based)	litre	177.10
7257	C.P. Brass bibcock 15 mm	each	447.70
7258	C.P. Brass long nose bibcock 15 mm	each	541.20
7259	C.P. Brass long body bibcock 15 mm	each	541.20
7260	C.P. Brass stop cock (concealed) 15 mm	each	535.70
7261	C.P. Brass angle valve 15 mm	each	447.70
7266	Pressed clay tiles 20mm thick 250x250 mm size	1000 Nos	10450.00
7267	Plain ceiling tiles (BWP type phenol formaldehyde synthetic resin bonded) (600x600x12 mm)	each	126.50
7268	Semi perforated ceiling tiles (600x600x12 mm)	each	139.70
7269	25 mm thick particle board	sqm	580.80
7270	30 mm thick prelaminate flush door shutter	sqm	946.00
7271	Second class teak wood lipping 25 mm wide x 12 mm thick	metre	39.60
7272	25 mm thick melamine faced prelaminate three layer particle board	sqm	1003.20
7273	Resin Bonded Rockwool 48 kg/m3	sqm	148.50
7274	Glass wool 50 mm thick	sqm	261.80
7280	Waste plastic additive	tonne	44000.00
7281	Chemical ASTM C-type II	kg	200.20

Code No.	Description	Unit	Basic rate 2023-24
7295	Granite of colour black, cherry/ruby red 18 mm thick (slab area upto 0.50 sqm)	sqm	1980.00
7296	Granite of colour black, cherry/ruby red 30 mm thick (slab area upto 0.50 sqm)	sqm	2090.00
7297	Granite of all colour except black, cherry/ruby red 18 mm thick (slab area upto 0.50 sqm)	sqm	1100.00
7298	Granite of colour black, cherry/ruby red 18 mm thick (slab area above 0.50 sqm)	sqm	1650.00
7299	Granite of all colour except black, cherry/ruby red 18 mm thick (slab area above 0.50 sqm)	sqm	1224.00
7300	Granite of all colour except black, cherry/ruby red 30 mm thick (slab area above 0.50 sqm)	sqm	2142.00
7306	Aluminium T or L sections	kg	251.90
7307	For flush door shutters Extra for providing teak veneering on one side instead of commercial veneering	sqm	418.00
7309	Paving Asphalt of grade VG-30 of approved quality	tonne	63472.20
7312	Expandable fastener with plastic sleeve and M.S. screws : 25 mm long	each	16.50
7313	Expandable fastener with plastic sleeve and M.S. screws : 32 mm long	each	17.60
7314	Expandable fastener with plastic sleeve and M.S. screws : 40 mm long	each	19.80
7315	Expandable fastener with plastic sleeve and M.S. screws. 50 mm long	each	22.00
7318	Plasticizer / super plasticizer	kg	77.00
7319	Wall form panel 1250x500 mm	each	1045.00
7320	Tie bolt 12 mm dia 100 mm length	each	44.00
7321	Tie bolt 12 mm dia 150 mm length	each	49.50
7322	Tie bolt 20 mm dia 150 mm length	each	71.50
7323	Tie bolt 20 mm dia 225 mm length	each	82.50
7324	Spring coil 12 mm	each	16.50
7325	Plastic cone 12 mm dia	each	18.70
7326	Corner angle 45x45x5 mm 1.50 m long	each	286.00
7327	100 mm channel shoulder 2.5 m long	each	1210.00
7328	Double clip (bridge clip)	each	93.50
7329	Single clip	each	71.50
7330	M.S. tube 40 mm dia	metre	264.00
7331	Wall form panel 1250x450 mm	each	1017.50
7332	Corner angle 45x45x5 mm 2.50 m long	each	379.50
7333	Column clamp 450x1070 mm	each	1133.00
7334	Prop 2 m (2-3.5 m)	each	748.00
7335	Binding wire	kg	93.50
7336	Lock Bar (E 250) - 10 thick MS Plate	kg	93.50
7338	Gun metal cramp	kg	357.50
7339	Stainless steel cramp	kg	341.00
7340	Stainless steel pin	kg	216.70
7342	Adjustable span ESO+SI (2.35-3.40)	each	1705.00
7343	Adjustable telescopic prop 3 m (2.02-3.75 m)	each	1210.00
7344	Beam clamp 300-380 mm (450-1070 mm)	each set	429.00
7345	Prop 4 m	each	1155.00
7346	Double coupler	each	60.50
7347	Cadmium plated full threaded steel screws (30x4 mm dia)	100 Nos	48.40
7348	Aluminium washer 2 mm thick 15 mm dia	100 Nos	11.00
7349	12 mm M.S. 'U' beading	metre	11.00

Code No.	Description	Unit	Basic rate 2023-24
7354	Plastic encapsulated M.S. foot rest 30x20x15 cm	each	132.00
7358	Flushing Cistern P.V.C. 10 litre capacity (low level) (White) (with fittings, accessories and flush pipe)	each	770.00
7359	P.V.C. automatic flushing cistern 5 litre capacity	each	605.00
7361	P.V.C. automatic flushing cistern 10 litre capacity	each	561.00
7363	15 mm C.P. brass tap with elbow operation lever	each	539.00
7364	White glazed fire clay draining board 600x450x25 mm	each	660.00
7366	Glass reinforced Gypsum (GRG) plaster board 12.5 mm thick confirming to IS 2095 (Part 3):1996	sqm	291.50
7367	Galvanised M.S. sheet 0.5 mm thick pressed channel section of size 50x32 mm	metre	71.50
7368	GFRG Panel of 124 mm thick	sqm	1001.00
7369	Galvanised M.S. sheet 0.50 mm thick pressed stud : 48x34x36 mm	metre	88.00
7375	G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Single lipped urinal	each	512.60
7376	G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Range of two lipped urinals	each	1164.90
7377	G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Range of three lipped urinals	each	1443.20
7378	G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Range of four lipped urinals	each	2090.00
7379	White vitreous china clay half stall urinal flat back 580x380x350 mm or angle back 450x375x350 mm with waste fittings as per IS:2556	each	1158.30
7380	Precast R.C.C. grating with frame 500x450 mm horizontal grating	each	766.70
7381	Precast R.C.C. grating with frame 450x100 mm vertical grating	each	313.50
7382	Bitumen emulsion rapid setting (R.S.) confirming to IS : 8887	tonne	101865.50
7383	12 mm dia 50 mm long wedge type expanded zinc alloy dash fastener	each	7.70
7385	3 mm thick translucent white acrylic plastic sheet	sqm	605.00
7386	12 mm thick particle board ceiling tile	sqm	121.00
7387	Spigot for standard jointing	kg	44.00
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	each	11.00
7389	Anodising 15 microns on aluminium sections	kg	41.80
7390	EPDM Gasket for uPVC window/door	metre	16.50
7391	Anodising 25 microns on aluminium sections	kg	52.80
7392	Powder coating 50 microns on aluminium sections	kg	67.10
7393	Polyester powder coating 50 microns on aluminium sections	kg	73.70
7394	Double action hydraulic floor spring with stainless steel cover plate	each	1650.00
7395	6 mm dia G.I. adjustable hangers including clips (up to 1.2 m length)	each	22.00
7396	Double action hydraulic floor spring with brass cover plate	each	1782.00
7397	Base Jack	each	159.50
7398	Challies	each	841.50
7399	Cup locks	each	139.70
7400	15 mm PTMT bib cock	each	139.70
7401	15 mm PTMT bib cock with flange (fancy)	each	193.60
7402	15 mm PTMT bib cock long body with flange	each	233.20
7403	15 mm dia PTMT stop cock (male thread)	each	145.20
7405	20 mm dia PTMT stop cock	each	170.50
7406	PTMT pillar cock	each	216.70
7407	PTMT push cock 15 mm dia	each	112.20
7408	PTMT push cock 12 mm dia 20 mm BSP	each	145.20

Code No.	Description	Unit	Basic rate 2023-24
7409	PTMT grating 100 mm dia	each	30.80
7410	PTMT Pillar cock (fancy) 15 mm foam flow	each	246.40
7411	125 mm grating with waste hole	each	27.50
7412	Rectangular type with openable circular lid 150 mm size 18 mm high with 100 mm dia (110 gm)	each	143.00
7415	Double acting air valve 50 mm	each	4086.50
7416	Double acting air valve 80 mm	each	4977.50
7417	Double acting air valve 100 mm	each	6501.00
7418	Water meter (including testing charges) 80 mm	each	2233.00
7419	Water meter (including testing charges) 100 mm	each	3457.30
7420	Water meter (including testing charges) 150 mm	each	5241.50
7421	Water meter (including testing charges) 200 mm	each	5659.50
7422	Dirt box strainer 80 mm	each	2948.00
7423	Dirt box strainer 100 mm	each	4807.00
7424	Dirt box strainer 150 mm	each	6094.00
7425	Dirt box strainer 200 mm	each	8646.00
7426	Cat's eye	each	88.00
7427	Water stops Serrated with central bulb (225 mm wide, 8-11 mm thick)	metre	220.00
7428	Water stops Dumb bell with central bulb	metre	176.00
7429	Kickers	metre	176.00
7430	Wedge expansion hold fastener 1/4" or 6 mm	each	11.00
7431	Wedge expansion hold fastener 3/8" or 10 mm	each	11.00
7432	Wedge expansion hold fastener 1/2" or 12 mm	each	27.50
7439	8mm thick (mirror polished tiles machine cut edge) Raj Nagar white	sqm	630.00
7442	Wheel 75 mm dia. 40 mm wide	each	68.20
7443	Aluminium single cleat of size 30x32x3 mm	each	15.40
7444	Aluminium grip strip of size 50x12x2 mm	each	14.30
7445	25 mm thick prelaminate flush door shutter both side decorative	sqm	979.00
7449	Aluminium U beading	kg	236.50
7451	Glass sheet (Pin headed) 4 mm thick	sqm	666.00
7452	Raj nagar plain white marble (table rubbed and polished) 18 mm thick (slab area upto 0.50 sqm)	sqm	715.00
7453	Raj nagar plain white marble (table rubbed and polished) 18 mm thick (slab area more than 0.50 sqm)	sqm	959.20
7466	Second class deodar teak wood lipping 30 mm wide x 12 mm thick	metre	44.00
7468	Veneered particle board with commercial veneering on both sides 12 mm thick	sqm	660.00
7477	Prelaminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade i, Type II conforming to IS : 12823 (exterior grade) 12 mm thick	sqm	550.00
7478	Prelaminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade) 18 mm thick	sqm	616.00
7479	Prelaminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade) 25 mm thick	sqm	935.00
7480	Prelaminated particle board with both sides decorative lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade) 12 mm thick	sqm	539.00

Code No.	Description	Unit	Basic rate 2023-24
7485	Oxidised M. S. hinges finished with nickel plating 50 mm (Over all width)	metre	61.00
7486	Oxidised M. S. hinges finished with nickel plating 65 mm (Over all width)	metre	76.00
7491	PTMT - Waste Coupling 31/32 mm	each	47.60
7492	PTMT - Waste Coupling 38/40 mm	each	99.00
7493	PTMT - Bottle Trap 31/32 mm	each	280.00
7494	PTMT - Bottle Trap 38/40 mm	each	360.00
7495	PTMT Ball Cock 15mm complete with Epoxy Coated Aluminium Rod & H.D. Ball	each	223.00
7496	PTMT Ball Cock 20mm complete with Epoxy Coated Aluminium Rod & H.D. Ball	each	334.40
7497	PTMT Ball Cock 25mm complete with Epoxy Coated Aluminium Rod & H.D. Ball	each	628.10
7498	PTMT Ball Cock 40mm complete with Epoxy Coated Aluminium Rod & H.D. Ball	each	462.00
7499	PTMT Ball Cock 50mm complete with Epoxy Coated Aluminium Rod & H.D. Ball	each	902.00
7500	PTMT Angle Stop cock with Flange 15 mm	each	169.40
7501	PTMT Swiveling shower 15 mm	each	78.00
7503	PTMT Liquid Soap Container of 400 ml capacity	each	217.80
7504	PTMT - Towel Ring 215x200x37 mm	each	148.50
7505	PTMT - Towel Rail (450 mm long)	each	283.80
7506	PTMT - Towel Rail (600 mm long)	each	343.20
7507	PTMT Shelf 450x124x36 mm	each	369.60
7508	PTMT - Urinal Spreader 15 mm	each	79.20
7509	PTMT Soap Dish/Holder 138x102x75 mm	each	69.60
7512	PTMT handle 125x34x24 mm	each	36.30
7513	PTMT handle 150x34x24 mm	each	42.90
7514	PTMT butt hinges 75x60x10 mm	each	60.50
7515	PTMT butt hinges 100x75x10 mm	each	77.00
7516	PTMT Tower bolt 152x42x18 mm	each	77.00
7517	PTMT Tower bolt 202x42x18 mm	each	101.20
7518	PTMT door catcher 72x42 mm	each	31.90
7552	Coir veneered board 4 mm thick	sqm	286.00
7553	Coir veneered board 6 mm thick	sqm	385.00
7555	Coir veneered board 12 mm thick	sqm	687.50
7556	Coir veneered board 18 mm thick	sqm	1023.00
7621	Hubless centrifugally cast (spun) iron pipes as per IS 15905 - 100 mm dia (3000 mm length pipe)	metre	770.00
7622	Hubless centrifugally cast (spun) iron pipes as per IS 15905 - 75 mm dia (3000 mm length pipe)	metre	627.00
7623	Hubless centrifugally cast (spun) iron plain bend as per IS 15905 - 100mm dia	each	253.00
7624	Hubless centrifugally cast (spun) iron plain bend as per IS 15905 - 75 mm dia	each	176.00
7625	Hubless centrifugally cast (spun) iron double equal plain junction as per IS 15905 - 100x100x100x100 mm dia	each	561.00
7626	Hubless centrifugally cast (spun) iron double equal plain junction as per IS 15905 - 75x75x75x75 mm dia	each	302.50

Code No.	Description	Unit	Basic rate 2023-24
7627	Hubless centrifugally cast (spun) iron single equal plain junction as per IS 15905 - 100x100x100 mm dia	each	440.00
7628	Hubless centrifugally cast (spun) iron single equal plain junction as per IS 15905 - 75x75x75 mm dia	each	236.50
7629	Hubless centrifugally cast (spun) iron double unequal plain junction as per IS 15905 - 100x100x75x75 mm dia	each	440.00
7630	Hubless centrifugally cast (spun) iron single unequal plain junction as per IS 15905 - 100x100x75 mm dia	each	412.50
7631	Hubless centrifugally cast (spun) iron double equal plain invert branch as per IS 15905 - 100x100x100x100 mm dia	each	687.50
7632	Hubless centrifugally cast (spun) iron single equal plain invert branch as per IS 15905 - 100x100x100 mm dia	each	429.00
7633	Hubless centrifugally cast (spun) iron single equal plain invert branch as per IS 15905 - 75x75x75 mm dia	each	286.00
7634	Hubless centrifugally cast (spun) iron single unequal plain invert branch 45 degree as per IS 15905 - 100x100x75 mm dia	each	473.00
7635	Hubless centrifugally cast (spun) iron 65 mm offset with 100 mm dia pipe as per IS 15905	each	396.00
7636	Hubless centrifugally cast (spun) iron 65 mm offset with 75 mm dia pipe as per IS 15905	each	324.50
7637	Hubless centrifugally cast (spun) iron 130 mm offset with 100 mm dia pipe as per IS 15905	each	616.00
7638	Hubless centrifugally cast (spun) iron 130 mm offset with 75 mm dia pipe as per IS 15905	each	341.00
7639	Hubless centrifugally cast (spun) iron bend with access door - 100mm dia as per IS 15905	each	401.50
7640	Hubless centrifugally cast (spun) iron bend with access door - 75mm dia as per IS 15905	each	319.00
7641	Hubless centrifugally cast (spun) iron terminal guard (slotted cowl) - 100 mm dia as per IS 15905	each	378.00
7642	Hubless centrifugally cast (spun) iron trap with 100 mm inlet and 100 mm outlet as per IS 15905	each	594.00
7643	Hubless centrifugally cast (spun) iron trap with 100 mm inlet and 75 mm outlet as per IS 15905	each	423.50
7644	SS 304 grade shielded coupling with EPDM rubber gasket for 100mm dia Hubless centrifugally cast (spun) iron	each	302.50
7645	SS 304 grade shielded coupling with EPDM rubber gasket for 75 mm dia Hubless centrifugally cast (spun) iron	each	450.00
7651	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 100 mm dia	metre	841.50
7652	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 150 mm dia	metre	1265.00
7653	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 200 mm dia	metre	2370.50
7654	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 250 mm dia	metre	3247.20
7655	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 300 mm dia	metre	3685.00
7656	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 350 mm dia	metre	3685.00
7657	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 400 mm dia	metre	4730.00
7658	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 450 mm dia	metre	5500.00
7659	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 500 mm dia	metre	6897.00
7660	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 600 mm dia	metre	8316.00
7661	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 700 mm dia	metre	11550.00
7662	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 750 mm dia	metre	12485.00

Code No.	Description	Unit	Basic rate 2023-24
7663	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 800 mm dia	metre	12595.00
7664	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 900 mm dia	metre	15290.00
7665	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 1000 mm dia	metre	17105.00
7666	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 100 mm dia	each	31.90
7668	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 150 mm dia	each	36.30
7669	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 200 mm dia	each	66.00
7670	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 250 mm dia	each	77.00
7671	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 300 mm dia	each	110.00
7672	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 350 mm dia	each	127.60
7673	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 400 mm dia	each	231.00
7674	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 450 mm dia	each	275.00
7675	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 500 mm dia	each	297.00
7676	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 600 mm dia	each	391.60
7677	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 700 mm dia	each	561.00
7678	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 750 mm dia	each	660.00
7679	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 800 mm dia	each	775.50
7680	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 900 mm dia	each	1001.00
7681	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 1000 mm dia	each	1188.00
7682	Ductile Iron K - 12 specials suitable for push on jointing up to 600 mm dia	quintal	13640.00
7683	Ductile Iron K - 12 specials suitable for push on jointing over 600 mm dia	quintal	18920.00
7684	Ductile Iron specials suitable for mechanical jointing as per I.S. 9523 - up to 600 mm dia	quintal	14355.00
7685	Ductile Iron Specials suitable for mechanical jointing as per I.S. 9523 over 600 mm	quintal	20625.00
7686	Ductile Iron Pipe Class K-9 flanges and welding 100 mm dia	metre	1210.00
7687	Ductile Iron Pipe Class K-9 flanges and welding 150 mm dia	metre	1815.00
7688	Ductile Iron Pipe Class K-9 flanges and welding 200 mm dia	metre	2282.50
7689	Ductile Iron Pipe Class K-9 flanges and welding 250 mm dia	metre	3245.00
7690	Ductile Iron Pipe Class K-9 flanges and welding 300 mm dia	metre	4169.00
7691	Ductile Iron Pipe Class K-9 flanges and welding 350 mm dia	metre	5258.00
7692	Ductile Iron Pipe Class K-9 flanges and welding 400 mm dia	metre	6765.00
7693	Ductile Iron Pipe Class K-9 flanges and welding 450 mm dia	metre	7098.30
7694	Ductile Iron Pipe Class K-9 flanges and welding 500 mm dia	metre	10098.00
7695	Ductile Iron Pipe Class K-9 flanges and welding 600 mm dia	metre	13365.00
7696	Ductile Iron Pipe Class K-9 flanges and welding 700 mm dia	metre	15807.00
7697	S&S Centrifugally (Spun) C.I. Pipe class LA 100 mm dia	metre	942.70
7698	S&S Centrifugally (Spun) C.I. Pipe class LA 125 mm dia	metre	1173.70
7699	S&S Centrifugally (Spun) C.I. Pipe class LA 150 mm dia	metre	1414.60
7700	S&S Centrifugally (Spun) C.I. Pipe class LA 200 mm dia	metre	2409.00
7701	S&S Centrifugally (Spun) C.I. Pipe class LA 250 mm dia	metre	3142.70
7702	S&S Centrifugally (Spun) C.I. Pipe class LA 300 mm dia	metre	4242.70
7703	S&S Centrifugally (Spun) C.I. Pipe class LA 350 mm dia	metre	5080.90
7704	S&S Centrifugally (Spun) C.I. Pipe class LA 400 mm dia	metre	6704.50
7705	S&S Centrifugally (Spun) C.I. Pipe class LA 450 mm dia	metre	8119.10
7706	S&S Centrifugally (Spun) C.I. Pipe class LA 500 mm dia	metre	9428.10
7707	S&S Centrifugally (Spun) C.I. Pipe class LA 600 mm dia	metre	13194.50
7708	S&S Centrifugally (Spun) C.I. Pipe Specials as per IS 1538 suitable for lead jointing up to 300 mm dia	quintal	5709.00

Code No.	Description	Unit	Basic rate 2023-24
7709	S&S Centrifugally (Spun) C.I. Pipe Specials as per IS 1538 suitable for lead jointing over 300 mm dia	quintal	6820.00
7710	S&S Centrifugally (Spun) C.I. Pipe specials suitable for mechanical joint as per I.S. 13382 up to 300 mm dia	quintal	9428.10
7711	S&S Centrifugally (Spun) C.I. Pipe Specials suitable for mechanical joint as per I.S. 13382 over 300 mm dia	quintal	9952.80
7712	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 100 mm dia	metre	1441.00
7713	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 150 mm dia	metre	2252.80
7714	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 200 mm dia	metre	3561.80
7715	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 250 mm dia	metre	4295.50
7716	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 300 mm dia	metre	5489.00
7717	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 350 mm dia	metre	6914.60
7718	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 400 mm dia	metre	8957.30
7719	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 450 mm dia	metre	11419.10
7720	Screwed double flanged centrifugally cast (spun) C./ Pipe of Class B conforming to I.S. 1536, - 500 mm dia	metre	14205.40
7721	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 600 mm dia	metre	19695.50
7722	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 100 mm dia	metre	1100.00
7723	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 150 mm dia	metre	1540.00
7724	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 200 mm dia	metre	1540.00
7725	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 250 mm dia	metre	1980.00
7726	Ductile Iron Class K- 7 pipe conforming to i.S. 8329 - 300 mm dia	metre	2475.00
7727	Ductile Iron Class K- 7 pipe conforming to i.S. 8329 - 350 mm dia	metre	2915.00
7728	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 400 mm dia	metre	3492.50
7729	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 450 mm dia	metre	4237.20
7730	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 500 mm dia	metre	4785.00
7731	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 600 mm dia	metre	6160.00
7732	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 700 mm dia	metre	8030.00
7733	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 800 mm dia	metre	10010.00
7734	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 900 mm dia	metre	12980.00
7735	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 1000 mm dia	metre	13530.00
7736	Extruded burnt flyash clay sewer bricks conforming to I.S 4885	1000 Nos	5500.00
7737	Fly ash bricks conforming to I.S. 12894	1000 Nos	125.00
7738	Calcium Silicate Bricks machine moulded conforming to I.S. 4139	1000 Nos	5555.00
7739	Modified Bitumen Refinery produced CRMB - 55	tonne	60238.20
7741	Modified Bitumen Refinery produced CRMB - 60	tonne	60029.20
7742	Bitumen emulsion medium setting (M.S.) conforming to IS : 8887	tonne	61470.20
7743	M.S. pipe 150 mm dia casing pipe	metre	1238.60
7744	M.S. pipe 200 mm dia casing pipe	metre	1540.00
7745	PVC blind pipe 150 mm dia as per IS: 12818	metre	579.70
7746	PVC blind pipe 200 mm dia as per IS: 12818	metre	880.00

Code No.	Description	Unit	Basic rate 2023-24
7747	M.S. cap 150 mm dia	each	165.00
7748	M.S. cap 200 mm dia	each	220.00
7749	M.S bail plug 150 mm dia	each	220.00
7750	M.S bail plug 200 mm dia	each	242.00
7751	PVC slotted pipe 150 mm dia as per IS: 12818	metre	605.00
7752	PVC slotted pipe 200 mm dia as per IS: 12818	metre	924.00
7753	Stone Boulder 50 mm to 200 mm	cum	550.00
7754	Gravel 5 mm to 10 mm	cum	693.00
7755	Gravel 1.5 mm to 2 mm	cum	693.00
7756	Gravel 3 mm to 6 mm	cum	693.00
7757	M.S. pipe 100 mm dia casing pipe	metre	858.00
7758	uPVC blind pipe 100 mm dia as per IS: 12818	metre	445.50
7759	uPVC slotted pipe 100 mm dia as per IS: 12818	metre	467.50
7760	M.S. cap 100 mm dia	each	148.50
7761	M.S. bail plug 100 mm dia	each	176.00
7762	Precast R.C.C. perforated slab	each	962.50
7763	Water supply tanker of 5000 litre capacity	each	25000.00
7764	M.S. socket 100 mm dia	each	137.50
7765	M.S. socket 150 mm dia	each	225.50
7766	M.S. socket 200 mm dia	each	291.50
7767	Stone cleaning chemical approved by ASI	litre	297.00
7768	Water repellent chemical approved by ASI	litre	1210.00
7769	Stone surface strengthening chemical approved by ASI	litre	918.50
7770	Turpentine oil	litre	93.50
7771	Liquid Ammonia 5%	litre	176.00
7772	Pea Gravel	cum	693.00
7773	Coloured inter locking C.C. paver Block (60 mm thick, M-35)	sqm	495.00
7774	Stone size 10x10x7.50cm	each	9.90
7775	Sodium pentachlorophenate	kg	550.00
7776	Concrete paver block of grade M-30 made of C&D waste (60mm thickness)	sqm	324.50
7800	Ceramic Glazed Tiles 1st quality minimum thickness 5mm in all colours shades and designs except burgundy, bottle green, black	sqm	341.00
7801	Ceramic Glazed Tiles 1st quality 300 x 300 mm in all shades and designs of White, Ivory, grey, Fume Red brown etc.	sqm	341.00
7802	Ceramic Glazed Tiles 1st quality 300 x 300 in all shades designs except White, Ivory, Grey, Fume Red Brown etc.	sqm	391.60
7803	Rectified Ceramic Glazed Tiles 1st quality 300 x 300 mm or more in all shades designs White, Ivory, Grey, Fume Red Brown etc.	sqm	451.00
7804	Rectified Ceramic Glazed Tiles 1st quality 300 x 300 mm or more in all shades designs except White, Ivory, Grey, Fume Red Brown etc.	sqm	451.00
7805	Salem Stainless steel AISI - 304 (18/8) Orrisa pattern W.C. pan 724mm X 578 mm	each	4950.00
7806	Salem Stainless steel AISI - 304 (18/8) Round basin 405mm X 355 mm	each	1650.00
7807	Salem Stainless steel AISI - 304 (18/8) Wash basin 530mm X 345 mm	each	2200.00
7808	Centrifugally cast (spun) iron S&S 100 mm inlet and 100 mm outlet	each	495.00
7809	Centrifugally cast (spun) iron S&S 100 mm inlet and 75 mm outlet	each	550.00
7850	Agaria White marble slab plain 18 mm thick	sqm	2006.40
7857	P.T.M.T. Grating square slit 150 mm	each	80.30
7858	P.T.M.T. Urinal cock 15 mm dia	each	126.50

Code No.	Description	Unit	Basic rate 2023-24
7859	P.T.M.T. Bib cock with nozzle 15 mm	each	151.80
7861	P.T.M.T. Stop cock (concealed) 15 mm	each	244.20
7862	15 mm nominal bore and 30 cm length PVC connection pipe with P.T.M.T. Nuts	each	62.40
7863	15 mm nominal bore and 45 cm length PVC connection pipe with P.T.M.T. Nuts	each	30.00
7864	P.T.M.T. extension nipple 15 mm dia	each	27.50
7865	P.T.M.T. extension nipple 20 mm dia	each	60.00
7866	P.T.M.T. extension nipple 25 mm dia	each	81.60
7893	Tactile tile	sqm	75.90
7895	Matt finished vitrified tile 100x100 x16 mm	sqm	1100.00
7896	Vitrified tile	sqm	1100.00
7900	Modular common burnt clay bricks of class designation 7.5	1000 Nos	5700.00
7901	Machine moulded perforated common burnt clay FPS (non modular) bricks of class designation 12.5	1000 Nos	4284.00
7902	Machine moulded common burnt clay modular perforated bricks of class designation 12.5	1000 Nos	4896.00
7903	Machine moulded common burnt clay FPS (non modular) bricks of class designation 12.5	1000 Nos	4794.00
7904	Machine moulded common burnt clay tile bricks of class designation 12.5	1000 Nos	4692.00
7911	Chemical Rust Remover	litre	231.00
7912	Hire charges of Drill machine upto 30 mm dia	day	165.00
7913	Epoxy	kg	605.00
7914	SBR Polymer	kg	209.00
7915	Woven PVC cloth	sqm	27.50
7916	Hire charges of sand blasting equipment	day	550.00
7917	Hire charges of compressure	day	990.00
7918	25mm thick cement concrete shotcrete(guniting) with compressor	sqm	121.00
7919	50mm thick cement concrete shotcrete(guniting) with compressor	sqm	220.00
7920	75mm thick cement concrete shotcrete(guniting) with compressor	sqm	341.00
7921	Adhesive chemical	ml	2.20
7922	Bit of drilling machine for Hole upto 30mm dia	each	605.00
7923	GI injection nipple 12mm dia, 75mm long	each	55.00
7924	Blowing compressed air for cleaning holes upto 30mm dia	each	11.00
7925	L shaped 100mm long, 10mm dia mild steel shear key	kg	77.00
7926	Welding charges of shear key to existing reinforcement	each	2.20
7927	Acrylic Polymer chemical for cracks	kg	34.10
7928	Hire charges of Plant and machinery, it can inject - 350kg/day	day	110.00
7929	Shear loops (6mm dia GI wire rope) (For vertical joints) 6 nos on each side	each	220.00
7930	dowel tubes (Corrugated GI pipes 50 to 80mm dia) (For horizontal joints)	metre	148.50
7931	Hooks for lifting (Alloy steel) having 2.5 tonne capacity	each	302.50
7996	Factory made EPS light weight composite sandwiched wall/roof panel (50mm thick) having core material of EPS granule balls/beads (conforming to IS 4671:1984 and shall have density not less than 15kg per cum). The outer face on both sides of the panels will be non asbestos fiber cement board confirming to IS 14862:2000 or Calcium silicate board confirming to EN 14306:2009 of 5mm thick each.	sqm	825.00

Code No.	Description	Unit	Basic rate 2023-24
7997	Factory made EPS light weight composite sandwiched wall/roof panel (60mm thick) having core material of EPS granule balls/beads (conforming to IS 4671:1984 and shall have density not less than 15kg per cum). The outer face on both sides of the panels will be non asbestos fiber cement board confirming to IS 14862:2000 or Calcium silicate board confirming to EN 14306:2009 of 5mm thick each	sqm	951.50
7998	Factory made EPS light weight composite sandwiched wall/roof panel (75mm thick) having core material of EPS granule balls/beads (conforming to IS 4671:1984 and shall have density not less than 15kg per cum). The outer face on both sides of the panels will be non asbestos fiber cement board confirming to IS 14862:2000 or Calcium silicate board confirming to EN 14306:2009 of 5mm thick each	sqm	1177.00
7999	Factory made EPS light weight composite sandwiched wall/roof panel (90mm thick) having core material of EPS granule balls/beads (conforming to IS 4671:1984 and shall have density not less than 15kg per cum). The outer face on both sides of the panels will be non asbestos fiber cement board confirming to IS 14862:2000 or Calcium silicate board confirming to EN 14306:2009 of 5mm thick each	sqm	1430.00
8000	Factory made EPS light weight composite sandwiched wall/roof panel (100mm thick) having core material of EPS granule balls/beads (conforming to IS 4671:1984 and shall have density not less than 15kg per cum). The outer face on both sides of the panels will be non asbestos fiber cement board confirming to IS 14862:2000 or Calcium silicate board confirming to EN 14306:2009 of 5mm thick each	sqm	1699.50
8001	24 mm thick Factory made shutters with style, rails and panels of PVC extruded sections in white, grey or wooden finish	sqm	2081.20
8002	30 mm thick Factory made shutters with style, rails and panels of PVC extruded sections in white, grey or wooden finish	sqm	2175.80
8003	Factory made PVC rigid foam panelled shutter i/c carriage	sqm	2081.20
8004	Factory made PVC rigid foam panelled shutter as per IS : 4020 i/c carriage	sqm	2459.60
8006	Factory made PVC rigid foam sheet 1 mm thick	sqm	171.38
8007	Factory made PVC rigid foam sheet 5 mm thick	sqm	695.20
8008	Factory made prelaminated PVC rigid foam sheet 5 mm thick	sqm	827.20
8010	48mmX40mmX1.5mm thick Factory made door frame of PVC extruded sections in white, grey or wooden finish	metre	143.00
8011	Factory made door frame PVC extruded sheet i/c carriage	metre	286.00
8012	Adhesive solvent cement	kg	154.00
8013	Factory made EPS Core wallpanel /roof panel sandwiched between two Engineered welded wire fabric mesh of 3 mm dia G.I. wire mesh,with 50 mm pitch in both the directions, kept at 120-135 mm gap and interconnected by the zig zag G.I. wire of 3 mm dia at alternate row by welding.	sqm	1925.00
8014	Factory made door frame of size 50x47 mm with wall thickness 5 mm made of single piece extruded profile	metre	473.00
8015	Expanded poly ethylene Foam sheet 4mm thick of Density 40kg/m3	sqm	22.00
8016	High Density expanded poly ethylene (EPE) Foam 1mm thick	sqm	11.00
8017	Fire rated door frame made with 1.6 mm thick G.I sheet (120 minutes fire rating)	metre	1320.00

Code No.	Description	Unit	Basic rate 2023-24
8018	Fire rated door shutter made with 1.6 mm thick G.I sheet (120 minutes fire rating) including hinges (without glass panels)	sqm	6600.00
8019	GI sheet 0.8 mm thick confirming to IS 277:1992	kg	112.20
8020	Factory made EPS Core wall panel /roof panel sandwiched between two Engineered welded wire fabric mesh of 3 mm dia G.I. wire mesh, with 50 mm pitch in both the directions, connected by G.I. wire of 3mm dia at alternate row by welding	sqm	660.00
8021	Bamboo wood Tile Flooring 14mm thick, minimum 1800 mm length and minimum 100 mm wide	sqm	3817.00
8022	Bamboo wood Quarter Round 18mm thick of size 1900mm x 18mm	metre	126.50
8023	Bamboo wood door reducer 14mm thick of size 1900mm x 44mm	metre	280.50
8024	Bamboo wood Skirting 14mm thick of Size 1900mm x 85mm	metre	330.00
8025	Bamboo wood Tile Wall Cladding 10mm thick, minimum 1800 mm length and minimum 100 mm wide	sqm	3740.00
8026	Bamboo wood T-mold 14mm thick of size 1900mm x 44mm	metre	275.00
8027	Bamboo wood Threshold 14mm thick of size 1900mm x 44mm	metre	280.50
8028	Bamboo wood shutter of doors	10 cudm	1870.00
8029	Bamboo wood panelling (10mm thick)	10 cudm	1848.00
8030	Superior class Bamboo wood door frame 65 mm thick,	10 cudm	1842.50
8031	Aluminium sheets Grade 5052, 4 mm thick for wall panel/deck panel/ WRB panel/Kicker Panels/door closing panels (for form work)	sqm	9350.00
8032	Aluminium sheets Grade 5052, 4 mm thick for Internal Corner/Column Corners/ (for form work)	sqm	12650.00
8033	Aluminium sheets Grade 5052, 4 mm thick for Mid Soldier/End soldier (for form work) Accessories for aluminium form work	sqm	35200.00
8034	External corner 2050 mm	each	1540.00
8035	External corner 825 mm	each	649.00
8036	soldier tie 370mm	each	319.00
8037	Adjustable prop-2.0 x2.0 m	each	1320.00
8038	Pin-50	each	16.50
8039	Pin-127	each	60.50
8040	wedge	each	15.40
8041	wall tie-150 (355 mm)	each	49.50
8042	Polythene Sleeve 90 x 150mm	each	3.30
8043	Polythene Roll - 150mm Long.	each	6.60
8044	Vertical Soldier -1100mm	each	407.00
8045	Wall Attached Bracket 600x1000mm	each	1089.00
8046	Allignment Pipe - 3.00 Mtr.	each	1100.00
8047	Allignment Bracket	each	528.00
8048	Tie Rod for Bracket - 500mm	each	132.00
8049	Anchor Wing Nut Ø100 mm	each	71.50
8050	Debit Pin - 250mm	each	66.00
8051	PVC Pipe Ø20mm - 150mm long	each	5.50
8052	PVC Cone	each	5.50
8053	Bolt+Nut - 16 x 80 mm	each	33.00
8054	Flat Washer Ø16, 3mm thik	each	5.50
8055	Bolt+Nut - 16 x 30 mm	each	19.80
8056	Door spacer 45x45x5-1135mm Long	each	401.50
8057	Door spacer 45x45x5-1135mm Long	each	352.00
8100	Powder coated M.S. butt hinges 100 mm X58 mmX1.9 mm	10 Nos	143.00

Code No.	Description	Unit	Basic rate 2023-24
8101	SS ball bearing of size 100 x89x3mm	each	495.00
8116	Zinc alloy (white powder coated) 3D Hinges for uPVC door	each	500.50
8117	Zinc alloy (white powder coated) handles with zinc plated mild steel multi point locking having transmission gear, cylinder with keeps and one side key for uPVC casement door	each set	2898.50
8118	Zinc alloy (white powder coated) handles along with zinc plated mild steel multi point locking having transmission gear with keeps for uPVC sliding window	each set	1688.50
8119	Zinc alloy (white powder coated) handles with key along with zinc plated mild steel multi point locking having transmission gear with keeps for uPVC sliding door	each set	1391.50
8121	uPVC extruded (small series) casement window frame size 47x50mm	metre	308.00
8122	uPVC extruded (small series) casement window sash/window mullion size 47x68 mm	metre	342.10
8125	uPVC extruded glazing bead of appropriate dimension for small series casement window Sash	metre	110.00
8126	uPVC extruded (big series) casement window frame size 67x60 mm	metre	386.10
8127	uPVC extruded (big series) casement door frame size 67x64 mm	metre	435.60
8128	uPVC extruded (big series) casement window sash/window mullion/ door mullion size 67x80 mm	metre	515.90
8129	uPVC extruded (big series) casement door sash size 67x110 mm	metre	624.80
8130	uPVC extruded glazing bead of appropriate dimension for big series casement window/door sash	metre	148.50
8131	uPVC extruded glazing bead of appropriate dimension for small series sliding window sash	metre	72.60
8132	uPVC extruded glazing bead of appropriate dimension for big series of sliding window/ door sash	metre	93.50
8133	uPVC extruded (small series) 2 track sliding window frame size 52x44 mm	metre	345.40
8134	uPVC extruded (big series) 2 track sliding window/door frame size 67x50mm	metre	466.40
8135	uPVC extruded (small series) 3 track sliding window frame size 92x44 mm	metre	459.80
8136	uPVC extruded (big series) 3 track sliding window/door frame size 116x45mm	metre	641.30
8137	uPVC extruded (small series) 2 track sliding window sash/3 track sliding window sash size 32x60mm	metre	320.10
8138	uPVC extruded (big series) 2 track sliding window sash size 46x62mm	metre	392.70
8139	uPVC extruded (big series) 3 track sliding window sash size 46x62mm	metre	393.80
8140	uPVC extruded interlock of appropriate dimension for small series sliding window sash	metre	96.80
8141	uPVC extruded interlock of appropriate dimension for big series sliding window/ door sash	metre	107.80
8142	uPVC extruded inline adaptor of appropriate dimension for big series sliding window/door sash	metre	107.80
8143	uPVC extruded 2 track sliding door sash/ 3 track sliding door sash (big series) size 46x82mm	metre	423.50
8144	Bamboo Mat corrugated sheets 3.5 to 4mm thick conforming to IS 15476:2004	sqm	2912.80
8145	Bamboo Mat Ridge cap 3.5 to 4mm thick conforming to IS 15476:2004	metre	2827.00

Code No.	Description	Unit	Basic rate 2023-24
8146	3mm thick Bamboo Mat Board conforming to IS 13958:1994	sqm	1658.80
8147	4mm thick Bamboo Mat Board conforming to IS 13958:1994	sqm	1911.80
8148	6mm thick Bamboo Mat Board conforming to IS 13958:1994	sqm	2307.80
8149	9mm thick Bamboo Mat Board conforming to IS 13958:1994	sqm	2956.80
8150	12mm thick Bamboo Mat Board conforming to IS 13958:1994	sqm	3426.50
8200	A.P.P. modified polymeric felt (two layers) 1.5 mm thick	sqm	88.00
8201	A.P.P. modified polymeric felt (two layers) 2 mm thick	sqm	132.00
8203	A.P.P. modified 2 mm thick membrane reinforced with glass fibre matt	sqm	143.00
8204	A.P.P. modified 3 mm thick membrane reinforced with glass fibre matt	sqm	209.00
8205	A.P.P. modified 3 mm thick membrane reinforced with polyester matt	sqm	231.00
8206	Bitumen primer for bitumen membrane	litre	93.50
8207	Geotextile 120 grams per sqm membrane	sqm	49.50
8210	Stainless steel screws 50 mm	100 Nos	330.00
8211	Stainless steel screws 40 mm	100 Nos	275.00
8212	Stainless steel screws 30 mm	100 Nos	253.00
8214	Stainless steel screws 20 mm	100 Nos	165.00
8215	Stainless steel butt hinges 125x64x1.9 mm IS : 12817 marked	10 Nos	341.00
8216	Stainless steel butt hinges 100x58x1.9 mm IS : 12817 marked	10 Nos	308.00
8217	Stainless steel butt hinges 75x47x1.8 mm IS : 12817 marked	10 Nos	198.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS : 12817 marked	10 Nos	165.00
8219	Stainless steel butt hinges (heavy weight) 125x64x2.5 mm IS : 12817 marked	10 Nos	412.50
8220	Stainless steel butt hinges (heavy weight) 100x60x2.5 mm IS : 12817 marked	10 Nos	302.50
8221	Stainless steel butt hinges (heavy weight) 75x50x2.5 mm IS : 12817 marked	10 Nos	253.00
8222	M.S. heavy weight butt hinges 125x90x4.0 mm IS: 1341 marked.	10 Nos	253.00
8223	M.S. heavy weight butt hinges 100x75x3.5 mm IS: 1341 marked	10 Nos	198.00
8224	M.S. heavy weight butt hinges 75x60x3.1 mm IS: 1341 marked	10 Nos	121.00
8225	M.S. heavy weight butt hinges 50x40x2.5 mm IS : 1341 marked	10 Nos	99.00
8226	Concealed zinc coated hinges 19-20 mm thick with mounting plate	10 Nos	506.00
8227	Stainless steel fancy handle	10 Nos	1020.00
8228	Soft closing stainless steel hinges	10 Sets	1581.00
8229	Stainless steel telescopic drawer channels 500mm long	set	546.00
8230	Stainless steel (Grade-304) basket (readymade)	kg	266.00
8300	1216 mm PE-AL-PE Composite pressure pipe	metre	112.00
8301	1620 mm PE-AL-PE Composite pressure pipe	metre	126.00
8302	2025 mm PE-AL-PE Composite pressure pipe	metre	196.00
8303	2532 mm PE-AL-PE Composite pressure pipe	metre	252.00
8304	3240 mm PE-AL-PE Composite pressure pipe	metre	392.00
8305	4050 mm PE-AL-PE Composite pressure pipe	metre	504.00
8306	PPR Union 20 mm	each	66.00
8307	PPR Union 25 mm	each	121.00
8308	PPR Union 32 mm	each	165.00
8309	PPR Union 40 mm	each	242.00
8310	PPR Union 50 mm	each	451.00
8311	PPR Union 63 mm	each	660.00
8312	PPR Union 75 mm	each	1320.00
8500	Water for jetting / blowback	1000 litre	1650.00
8501	Polymer modified cementation coating	kg	154.00

Code No.	Description	Unit	Basic rate 2023-24
8502	Fibre glass cloth	sqm	35.20
8504	Multi surface paint	litre	369.60
8505	Acrylic exterior paint	litre	264.00
8506	Premium Acrylic exterior paint	litre	269.50
8507	Textured exterior paint	litre	343.20
8508	Primer for cement paint	litre	104.50
8509	Special Primer (C.W.)	litre	178.20
8510	Metal Primer (U.G.)	litre	147.00
8511	Fibre reinforced elastomeric liquid water proofing membrane	litre	253.00
8512	Cementitious water proofing coating with elastic polymers	kg	247.50
8513	Acrylic modified resin based texture	kg	46.20
8514	40 mm long S.S screws with plastic rawl plugs	100	46.20
8515	Galavanised MS 8 mm outer diameter M-6 dash fastener 50mm long	each	46.20
8516	ZMB 60/equivalent	kg	132.00
8517	ZMB thinner	litre	288.20
8518	Zycoprime / equivalent	litre	308.00
8519	Zycosil / equivalent	litre	1980.00
8520	Elastobar / equivalent	kg	330.00
8552	Mineral fibre beveled tegular edged ceiling tiles 595 x595mm,16 mm thick	sqm	918.50
8553	Mineral fibre beveled tegular edged ceiling tiles 595 x595mm,16 mm thick with bio-block conforming to ISO 5 (class 100) specifications.	sqm	1017.50
8554	Mineral fiber beveled tegular edged ceiling tiles 595 x595mm,20 mm thick.	sqm	1149.50
8555	G.I main runner 15 x32 mm of 3000 mm length, 0.33 mm thick	each	275.00
8556	G.I cross-T 15 x32 mm of 1200 mm length, 0.33 mm thick	each	110.00
8557	G.I cross-T 15 x32 mm of 600 mm length, 0.33 mm thick	each	55.00
8558	G.I hanger rod 6mm dia fully threaded upto 1000 mm length	each	55.00
8559	Stainless steel U Channel of size (50x25x2mm)	metre	176.00
8560	Non staining water resistant clear silicon	metre	77.00
8561	Extruded polystyrene rigid insulation board 50 mm thick	sqm	638.00
8562	Expanded Polystyrene insulation board 120 mm thick confirming to IS 4671-1984, Fire retardant property self-extinguishing type as per EN 13501-1	sqm	935.00
8563	15 mm thick, light weight, integral densified micro look edged, false ceiling tiles of size 595x595 mm.	sqm	825.00
8564	15 mm thick, light weight,fully perforated square/butt edge integral densified, false ceiling tiles of size 595x595 mm.	sqm	1045.00
8565	Galavanised MS hanger rod 6 mm dia MS fully threaded up to 1000mm length	each	55.00
8566	Powder coated steel section main-T ceiling sections 15x42x0.40 mm (3000 mm long)	each	330.00
8567	Galvanized mild steel perimeter wall angle 22x19x0.40 mm (3000mm long)	each	165.00
8568	Powder coated Galvanised Iron intermediate cross-T section 15x42x0.40 mm (1200 mm long)	each	165.00
8569	Powder coated Galvanized Iron intermediate cross-T section 15x42x 0.40mm (600 mm long)	each	88.00
8570	GI Main T ceiling section 30x25x0.3 mm (3 metre long)	each	275.00
8571	GI Perimeter wall angle 25x25x0.4 mm (3 metre long)	each	275.00

Code No.	Description	Unit	Basic rate 2023-24
8572	GI Intermediate cross T section 25x25x0.3 mm (1.2 metre long)	each	165.00
8573	GI Intermediate cross T section 25x25x0.3 mm (0.6 metre long)	each	82.50
8576	Powder coated Galvanized Iron intermediate cross-T section wire diameter 3.00 mm).	sqm	236.50
8577	Crates made of Mesh type 10x12 (D=100 mm) Zn+PVC coated. Mesh wire diameter 2.70/3.70 mm (ID/OD).	sqm	325.00
8578	Crates made of Mesh type 10x12 (D=100 mm) Zn+10% Al alloy +PVC coated. Mesh wire diameter 2.70/3.70 mm (ID/OD).	sqm	346.50
8579	Cold form light gauge Steel C-section of thickness 0.75mm i/c zink coating/sliting etc.	kg	181.50
8580	Wastage of cold form light gauge steel	kg	20.90
8581	12 mm thick micro tegular edged semi perforated GRG (Glass Fibre Reinforced Gypsum) false celing tiles of Size 595x595 mm	sqm	605.00
8582	12 mm thick micro tegular edged fully perforated GRG (Glass Fibre Reinforced Gypsum) false celing tiles of Size 595x595 mm	sqm	715.00
8583	10 mm thick square edge fully perforated GRG(Glass Fibre Reinforced Gypsum) false celing tiles of Size 595x595 mm	sqm	869.00
8587	Galvanized iron intermediate cross-T section 15x32x0.33 mm (600mm long)	each	88.00
8588	Galavanised MS hanger rod 6mm dia MS fully threaded up to 1000mm length	each	55.00
8589	Calcium Silicate tegular edged ceiling tiles 595x595 mm and 15 mm thick on edges	sqm	753.50
8590	Galvanised Steel main Tee ceiling section Size 24x38x0.33 mm (3 metre long)	each	167.20
8591	Galvanised Steel perimeter wall Angle Size 24 x 24 x 0.40 mm (3.00 metre long)	each	139.70
8592	Galvanised Steel intermediate cross T section Size 24 x 25 x 0.33mm (1.2 metre long)	each	67.10
8593	Galvanised Steel intermediate cross T section Size 24 x 25 x 0.33mm (0.6 metre long)	each	37.40
8594	Galvanised Steel soffit cleat size 25x35x1.60 mm	each	4.40
8595	Wooden screws with plastic rawl plugs 35x8 mm	each	1.65
8596	Galvanised MS 8mm outer diameter M-6 dash fastener 25mm long	each	38.50
8597	GI Metal Tile Clip in Plain Beveled edge global white colour tiles of size 600x600 mm and 0.5 mm thick	sqm	983.40
8598	GI Metal Tile Clip in Perforated Beveled edge global white colour tiles of size 600x600 mm and 0.5 mm thick	sqm	1281.50
8599	GI Metal Tile Lay-in Plain Tegular edge global white color tiles of Size 595x595 mm and 0.5 mm thick	sqm	775.50
8600	GI Metal Tile Lay-in Perforated Tegular edge global white color tiles of Size 595x595 mm and 0.5 mm thick	sqm	983.40
8601	PVC Laminated Gypsum Tiles (Square edge) of Size 595x595 mm and 12.5 mm thick	sqm	898.00
8602	Gypsum Tiles Fully Perforated Square edge of Size 595x595 mm and 12.5 mm thick	sqm	388.00
8604	Spring T-section 24x34x0.45 mm (3.00 meter long)	metre	225.00
8605	C Wall angle section 20x30x20x0.50 mm (3.00 meter long)	metre	113.00
8606	Main C Carrier Size 10x38x10x0.70 mm (3.00 meter long)	metre	133.00
8607	Spring T-connector	each	6.00
8608	C Carrier Connector	each	13.00
8609	C Suspension Clip	each	11.00
8610	Wire Coupling Clip	each	11.00

Code No.	Description	Unit	Basic rate 2023-24
8611	Main T ceiling sections 24x38x0.3 mm (3 metre long)	each	133.00
8612	Perimeter wall angle 24 x 24 x 0.3 mm (3 metre long)	each	82.00
8613	Intermediate cross T-Section 24x25x0.3 mm (1.2 m long)	each	41.00
8614	Intermediate cross T-Section 24x25x0.3 mm (0.6 m long)	each	21.00
8615	Hanger rod 4 mm thick	each	11.00
8616	Adjustment clip 85x30x0.8 mm	each	7.00
8617	Soffit cleat (Size 27x37x25x1.60 mm)	each	6.00
8618	Dash fastener 6 mm dia 50 mm long	each	11.00
8619	Galavanised MS L-shape level adjuster of size 85x25x2 mm	each	16.00
8620	Vitrified floor tile 50x50 cm conforming to IS 15622:2006 group (B1a)	sqm	510.00
8621	Vitrified floor tile 60x60 cm conforming to IS 15622:2006 group (B1a)	sqm	572.00
8622	Vitrified floor tile 80x80 cm conforming to IS 15622:2006 group (B1a)	sqm	918.00
8623	Vitrified floor tile 100x100 cm conforming to IS 15622:2006 group (B1a)	sqm	1418.00
8624	"Border tiles 200x75mm size	each	17.00
8626	Poly propylene- Random - Co - Polymer (PPR) pipes PN-16 (SDR 7.4) - 20 mm Outer dia	metre	58.15
8627	Poly propylene- Random - Co - Polymer (PPR) pipes PN-16 (SDR 7.4) - 25 mm Outer dia	metre	89.78
8628	Poly propylene- Random - Co - Polymer (PPR) pipes PN-16 (SDR 7.4) - 32 mm Outer dia	metre	128.96
8629	Poly propylene- Random - Co - Polymer (PPR) pipes PN-16 (SDR 7.4) - 40 mm Outer dia	metre	194.40
8630	Poly propylene- Random - Co - Polymer (PPR) pipes PN-10 (SDR 11) - 50 mm Outer dia	metre	306.00
8631	Poly propylene- Random - Co - Polymer (PPR) pipes PN-10 (SDR 11) - 63 mm Outer dia	metre	437.00
8632	Poly propylene- Random - Co - Polymer (PPR) pipes PN-10 (SDR 11) - 75 mm Outer dia	metre	595.00
8633	Poly propylene- Random - Co - Polymer (PPR) pipes PN-10 (SDR 11) - 90 mm Outer dia	metre	856.00
8634	Poly propylene- Random - Co - Polymer (PPR) pipes PN-10 (SDR 11) - 110 mm Outer dia	metre	1068.00
8635	Poly propylene- Random - Co - Polymer (PPR) pipes PN-10 (SDR 11) - 160 mm Outer dia	metre	3090.00
8636	Chlorinated Polyvinyl - chloride (CPVC) pipe 15 mm nominal dia	metre	58.80
8637	Chlorinated Polyvinyl - chloride (CPVC) pipe 20 mm nominal dia	metre	153.56
8638	Chlorinated Polyvinyl - chloride (CPVC) pipe 25 mm nominal dia	metre	157.00
8639	Chlorinated Polyvinyl - chloride (CPVC) pipe 32 mm nominal dia	metre	202.00
8640	Chlorinated Polyvinyl - chloride (CPVC) pipe 40 mm nominal dia	metre	282.00
8641	Chlorinated Polyvinyl - chloride (CPVC) pipe 50 mm nominal dia	metre	460.00
8642	Chlorinated Polyvinyl - chloride (CPVC) pipe 65 mm nominal dia	metre	971.00
8643	Chlorinated Polyvinyl - chloride (CPVC) pipe 80 mm nominal dia	metre	1263.00
8644	Chlorinated Polyvinyl - chloride (CPVC) pipe 100 mm nominal dia	metre	1796.00
8645	Chlorinated Polyvinyl - chloride (CPVC) pipe 150 mm nominal dia	metre	3775.20
8646	Weather Silicon sealant	cartridge	187.00
8647	Stainless steel screws 30 mm x4 mm	100 Nos	47.00
8648	Hermetically sealed double glazed unit made with 6 mm thick clear float glass both side having 12 mm air gap	sqm	3876.00
8649	Stainless steel (SS 304 grade) adjustable friction window stay 205 x 19 mm	each	298.00

Code No.	Description	Unit	Basic rate 2023-24
8650	Stainless steel (SS 304 grade) adjustable friction window stay 255 x 19 mm	each	264.00
8651	Stainless steel (SS 304 grade) adjustable friction window stay 355 x 19 mm	each	328.00
8652	Stainless steel (SS 304 grade) adjustable friction window stay 510 x 19 mm	each	546.00
8653	Stainless steel (SS 304 grade) adjustable friction window stay 710 x 19 mm	each	944.00
8654	Masking tape	metre	5.00
8655	Autoclaved aerated cement (AAC) blocks	cum	15000.00
8655A	Precast mud concrete solid blocks	cum	2500.00
8655B	Precast sun dried mud bricks	cum	2500.00
8656	Gypsum panel 666 X 500 X 100 mm size	sqm	528.00
8657	Bonding plaster for Gypsum panel	kg	28.05
8658	Precast C&D waste concrete block	1000 Nos	27665.00
8659	Water proof ply 12 mm thick	sqm	594.00
8660	Aluminium casement window fastener (Anodised AC 15)	each	55.00
8661	Aluminium casement window fastener (powder coated)	each	55.00
8662	Aluminium casement window fastener (polyester powder coated)	each	60.50
8663	Aluminium round shape handle (anodised AC 15) outer dia 100 mm	each	66.00
8664	Aluminium round shape handle (powder coated) outer dia 100 mm	each	71.50
8665	Aluminium round shape handle (polyester powder coated) outer dia 100 mm	each	71.50
8666	Stainless steel screws 25 mm x4 mm	100 Nos	49.50
8667	UV stabilised 2 mm thick plain FRP sheet	sqm	550.00
8668	UV stabilised 2 mm thick corrugated FRP sheet	sqm	605.00
8669	Mangalore ridge tiles 20 mm thick	each	11.00
8670	Mangalore tiles 20 mm thick	each	9.90
8671	Precoated galvanised iron profile sheet 0.50 mm TCT	sqm	440.00
8672	Precoated galvanised steel plain ridges 0.50 mm TCT and 500-600mm wide	metre	297.00
8673	Precoated galvanised steel flashings/aprons 0.50 mm TCT and upto 600mm v	metre	302.50
8674	Precoated galvanised steel gutter 600mm overall girth	metre	517.00
8675	Precoated galvanised steel north light curves	metre	308.00
8676	Precoated galvanised steel barge board (upto 300mm)	metre	253.00
8677	Precoated galvanised steel crimp curve	sqm	258.50
8678	1 mm thick 35 mm wide bright finished stainless steel piano hinges	metre	51.70
8682	Epoxy Grout	kg	418.00
8683	Red sand stone gang saw cut 30 mm thick	sqm	523.60
8684	White sand stone gang saw cut 30 mm thick	sqm	616.00
8685	Delineator	each	412.50
8686	Precast C.C. Kerb stone M - 25	cum	6160.00
8687	Thermoplastic paint	kg	72.60
8688	Glass beads	kg	79.20
8689	Interlocking C.C. paver block (60 mm thick, M-30)	sqm	440.00
8690	High intensity retro - reflective sheet as per IRC 67-2001	sqm	1587.30
8691	Punched tape concertina coil 600 mm dia 10 m openable length (Total length 90 m)	bundle	660.00
8692	RBT reinforced barbed wire	metre	7.70
8693	Turn buckle and strengthening bolt	each set	57.20

Code No.	Description	Unit	Basic rate 2023-24
8694	Precast pavement slab 450 x 450 x 50 mm (M - 30)	each	148.50
8695	Chain link fabric fencing mesh of size 50x50 mm made of G.I. wire of dia 4 mm	sqm	330.00
8696	Chain link fabric fencing mesh of size 50x50 mm made of G.I. wire of dia 4 mm, PVC coated to outer dia 5 mm	sqm	363.00
8697	Chain link fabric fencing mesh of size 25x25 mm made of G.I. wire of dia 3 mm	sqm	423.50
8698	Stainless steel cramps(weight 260 grams) with nuts, bolts and washer for dry stone cladding	each	126.50
8699	8 mm thick tapered edge calcium silicate board	sqm	297.00
8700	10 mm thick calcium silicate board	sqm	462.00
8701	SS pipe 304 grades with press fit technology as per JIS 3448 standard 48.60 mm outer dia	metre	682.00
8702	Coupling/Socket fittings for 15.88 mm outer dia SS pipe	each	66.00
8703	Telescopic drawer channels 300 mm long	set	297.00
8704	Stainless steel roller for sliding arrangement in racks/ cupboards/ cabinets shutter	each	14.30
8705	50 mmX42 mmX2 mm thick Factory made door frame of PVC extruded sections in white, grey or wooden finish	metre	198.00
8706	25 mm thick factory made PVC flush door shutter i/c carriage	sqm	2326.50
8707	Factory made glass reinforced plastic door frame 90x45 mm i/c carriage	metre	567.60
8708	30 mm thick factory made glass fiber reinforced plastic panel door shutter i/c carriage	sqm	2761.00
8709	30 mm thick factory made solid PVC profile panelled door single piece extruded profile decorative finish (wood grain printed on both side)	sqm	2794.00
8710	Factory made solid PVC door frame 60 x 30 mm i/c carriage	metre	374.00
8711	20 mm factory made solid PVC panel door shutter i/c carriage	sqm	2409.00
8712	30 mm thick factory made solid PVC profile panelled door single piece extruded profile non decorative finish	sqm	2420.00
8713	Fiber glass reinforced plastic chajja	sqm	3740.00
8714	Magnetic catcher triple strip vertical type	each	33.00
8715	Magnetic catcher double strip horizontal type	each	27.50
8716	100 mm mortice lock with 6 levers for aluminium door	each	475.20
8719	2nd class teak wood moulded beading or Taj beading/ornamental bleading of size 18X5 mm	metre	38.50
8720	Ceiling sections 0.55 mm thick having a knurled web of 51.55 mm and two flanges of 26 mm each with lips of 10.55 mm	metre	48.40
8721	Perimeter channel having one flange of 20 mm and another flange of 30 mm with thickness of 0.55 mm and web of length 27 mm	metre	29.70
8722	Nylon sleeves & wooden screws (40 mm)	each	2.86
8723	Counter sunk ribbed head screw 25 mm	100 Nos	104.50
8724	12 mm thick marine plywood conforming to IS: 710	sqm	902.00
8725	12 mm thick fire retardant plywood conforming to IS: 5509	sqm	1003.20
8726	1.5 mm thick decorative laminated sheet	sqm	418.00
8727	1.0 mm thick decorative laminated sheet	sqm	323.40
8730	30 mm thick factory made glass fiber reinforced plastic flush door shutter i/c carriage	sqm	2942.50
8731	High polymer modified quickset tile adhesive	kg	9.90
8732	Synthetic ployster triangular fibre of length 12 mm, effective diameter 10-40 microns and specific gravity of 1.34 to 1.40	kg	407.00

Code No.	Description	Unit	Basic rate 2023-24
8733	Synthetic polyester triangular fibre of length 6 mm, effective diameter 10-40 microns and specific gravity of 1.34 to 1.40	kg	451.00
8734	P.V.C. Single piece extruded door frame of profile size 50 mm x 47mm with wall thickness of 5 mm	metre	291.50
8735	35 mm thick factory made solid panel PVC door shutter of single piece extruded profile non decorative finished (Matt finished)	sqm	2524.50
8736	35 mm thick factory made solid panel PVC door shutter of single piece extruded profile decorative finished (wood grain finished)	sqm	2977.70
8737	Stainless steel wire gauge (Grade-304) aperture 1.4 mm and 0.50mm dia wire	sqm	454.30
8738	Factory made door frame fire rated (60 minutes) made with 16 SWG G.I. Sheet of section 143 mm x 57 mm duly filled with vermiculite based concrete mix	metre	1168.20
8739	Fire rated door shutter made with 16 SWG G.I. sheet (60 minutes) without panel	sqm	5172.20
8740	Fire seal Putty	kg	334.40
8741	Clear fire resistant glass panes 6mm thick (60 minutes)	sqm	23650.00
8742	G.I. U beading of 16 SWG G.I. sheet (zinc coating >120gm/ m ²) with ceramic tape of suitable thickness and fire resistant primer coating	metre	333.30
8743	Matrix Mineral Board	metre	77.00
8744	Panic Bar / latch (Double point)	each	5720.00
8745	65 mm x 55 mm x 2 mm thick Factory made door frame of PVC extruded section in white, grey or wooden finish	metre	400.40
8746	37 mm thick Factory made shutter with style,rails and panels of PVC extruded section in white or grey finish i/c carriage	sqm	2726.90
8747	75 mm x 53 mm x 2.0 mm thick Factory made door frame of PVC extruded section in white, grey or wooden finish	metre	454.30
8748	37 mm thick Factory made fusion welded shutter with style, rails and panels of PVC extruded section in wooden finish	sqm	2973.30
8749	Zinc alloy (white powder coated) touch lock with hook for wire mesh shutter	each	146.30
8750	Zinc alloy (white powder coated) casement handle for uPVC window/door	each	143.00
8751	Zinc alloy (white powder coated) touch lock withhook for uPVC window/door	each	125.40
8752	Zinc alloy body with single nylon roller (weight bearing capacity to be 40 Kg) for uPVC sliding window	each	66.00
8753	Stainless Steel (SS - 304) with adjustable double nylon roller (weight bearing capacity to be 120 Kg) for uPVC sliding door/ window	each	115.50
8754	Zinc alloy (white powder coated) crescent lock for uPVC sliding door/window	each	121.00
8755	Stainless steel friction hinge of size 200 mm x 19 x 1.9 mm for uPVC windows	each	233.20
8756	Stainless steel friction hinge of size 250 mm x 19 x 1.9 mm for uPVC windows	each	260.70
8757	Stainless steel friction hinges (SS-304 grade) size 300 x 19 x1.9 mm for uPVC window	each	286.00
8758	Stainless steel friction hinges (SS-304 grade) size 350 x 19 x1.9 mm for uPVC window	each	397.10
8759	Stainless steel friction hinges (SS-304 grade) size 400 x 19 x1.9 mm for uPVC window	each	401.50

Code No.	Description	Unit	Basic rate 2023-24
8760	Glass panes of required thickness having 60 minutes of fire resistance both integrity and radiation control (EI 60) and minimum 20 minutes of insulation (EI 20)	sqm	24750.00
8761	Scaffolding net made of high density polyethylene UV stabilized having density 100 gm/sqm	sqm	23.65
8772	Aluminium Track on bottom rail for uPVC window	metre	33.00
8773	Wool pile/ weather pile strip for uPVC sliding window	metre	22.00
8774	Aluminium Grill as per IS 1868	kg	306.90
8775	Steel Galvanised tubular reinforcement for uPVC door/ window	metre	68.20
8776	Stainless steel dash fastener of 8 mm dia and 75 mm long bolt	each	18.70
8777	GI Fastener 100x8 mm	each	16.50
8778	Toughened glass 12 mm thickness	sqm	1925.00
8779	SS pipe 304 grades with press fit technology as per JIS 3448 standard 15.88 mm outer dia	metre	154.00
8780	SS pipe 304 grades with press fit technology as per JIS 3448 standard 22.22 mm outer dia	metre	275.00
8781	SS pipe 304 grades with press fit technology as per JIS 3448 standard 28.58 mm outer dia	metre	341.00
8782	SS pipe 304 grades with press fit technology as per JIS 3448 standard 34.00 mm outer dia	metre	483.45
8783	SS pipe 304 grades with press fit technology as per JIS 3448 standard 42.70 mm outer dia	metre	495.00
8784	8 mm thick Calcium silicate perforated tiles of size 595 x595 mm	sqm	935.00
8785	Interlocking C.C. paver block (80 mm thick, M-30)	sqm	533.50
8786	Coupling/Socket fittings for 22.22 mm outer dia SS pipe	each	77.00
8787	Coupling/Socket fittings for 28.58 mm outer dia SS pipe	each	105.88
8788	Coupling/Socket fittings for 34.00 mm outer dia SS pipe	each	148.50
8789	Coupling/Socket fittings for 42.70 mm outer dia SS pipe	each	176.00
8790	Coupling/Socket fittings for 48.60 mm outer dia SS pipe	each	198.00
8791	Reducer for 22.22 mm X 15.88 mm outer Dia SS pipe	each	119.35
8792	Reducer for 28.58 mm X 15.88 mm outer Dia SS pipe	each	167.75
8793	Reducer for 28.58 mm X 22.22 mm outer Dia SS pipe	each	177.65
8794	Reducer for 34.00 mm X 15.88 mm outer Dia SS pipe	each	220.00
8795	Reducer for 34.00 mm X 22.22 mm outer Dia SS pipe	each	231.00
8796	Reducer for 34.00 mm X 28.58 mm outer Dia SS pipe	each	231.00
8797	Reducer for 42.70 mm X 15.88 mm outer Dia SS pipe	each	412.50
8798	Reducer for 42.70 mm X 22.22 mm outer Dia SS pipe	each	412.50
8799	Reducer for 42.70 mm X 28.58 mm outer Dia SS pipe	each	429.00
8800	Reducer for 42.70 mm X 34.00 mm outer Dia SS pipe	each	429.00
8801	Reducer for 48.60 mm X 15.88 mm outer Dia SS pipe	each	467.50
8802	Reducer for 48.60 mm X 22.22 mm outer Dia SS pipe	each	467.50
8803	Reducer for 48.60 mm X 28.58 mm outer Dia SS pipe	each	467.50
8804	Reducer for 48.60 mm X 34.00 mm outer Dia SS pipe	each	467.50
8805	Reducer for 48.60 mm X 42.70 mm outer Dia SS pipe	each	467.50
8806	Slip Coupling / Socket 15.88 mm outer dia SS pipe	each	60.50
8807	Slip Coupling / Socket 22.22 mm outer dia SS pipe	each	77.00
8808	Slip Coupling / Socket 28.58 mm outer dia SS pipe	each	104.50
8809	Slip Coupling / Socket 34.00 mm outer dia SS pipe	each	148.50
8810	Slip Coupling / Socket 42.70 mm outer dia SS pipe	each	176.00
8811	Slip Coupling / Socket 48.60 mm outer dia SS pipe	each	192.50

Code No.	Description	Unit	Basic rate 2023-24
8812	Elbow 90° for 15.88 mm outer dia SS pipe	each	71.50
8813	Elbow 90° for 22.22 mm outer dia SS pipe	each	77.00
8814	Elbow 90° for 28.58 mm outer dia SS pipe	each	115.50
8815	Elbow 90° for 34.00 mm outer dia SS pipe	each	132.00
8816	Elbow 90° for 42.70 mm outer dia SS pipe	each	143.00
8817	Elbow 90° for 48.60 mm outer dia SS pipe	each	176.00
8818	Reducing Elbow 90° for 22.22 mm X 15.88 mm outer dia SS pipe	each	165.00
8819	Reducing Elbow 90° for 28.58 mm X 15.88 mm outer dia SS pipe	each	231.00
8820	Reducing Elbow 90° for 28.58 mm X 22.22 mm outer dia SS pipe	each	275.00
8821	Reducing Elbow 90° for 34.00 mm X 22.22 mm outer dia SS pipe	each	324.50
8822	Reducing Elbow 90° for 34.00 mm X 28.58 mm outer dia SS pipe	each	385.00
8823	Reducing Elbow 90° for 42.70 mm X 34.00 mm outer dia SS pipe	each	429.00
8824	Equal Tee for 15.88 mm outer dia SS pipe	each	192.50
8825	Equal Tee for 22.22 mm outer dia SS pipe	each	275.00
8826	Equal Tee for 28.58 mm outer dia SS pipe	each	324.50
8827	Equal Tee for 34.00 mm outer dia SS pipe	each	484.00
8828	Equal Tee for 42.70 mm outer dia SS pipe	each	764.50
8829	Equal Tee for 48.60 mm outer dia SS pipe	each	1006.50
8830	Reducing Tee for 22.22 mm X 15.88 mm outer dia SS	each	203.50
8831	Reducing Tee for 28.58 mm X 15.88 mm outer dia SS pipe	each	319.00
8832	Reducing Tee for 28.58 mm X 22.22 mm outer dia SS pipe	each	319.00
8833	Reducing Tee for 34.00 mm X 15.88 mm outer dia SS pipe	each	484.00
8834	Reducing Tee for 34.00 mm X 22.22 mm outer dia SS pipe	each	484.00
8835	Reducing Tee for 34.00 mm X 28.58 mm outer dia SS pipe	each	484.00
8836	Reducing Tee for 42.70 mm X 15.88 mm outer dia SS pipe	each	759.00
8837	Reducing Tee for 42.70 mm X 22.22 mm outer dia SS pipe	each	759.00
8838	Reducing Tee for 42.70 mm X 28.58 mm outer dia SS pipe	each	759.00
8839	Reducing Tee for 42.70 mm X 34.00 mm outer dia SS pipe	each	759.00
8840	Reducing Tee for 48.60 mm X 15.88 mm outer dia SS pipe	each	984.50
8841	Reducing Tee for 48.60 mm X 22.22 mm outer dia SS pipe	each	984.50
8842	Reducing Tee for 48.60 mm X 28.58 mm outer dia SS pipe	each	984.50
8843	Reducing Tee for 48.60mm X 34.00 mm outer dia SS pipe	each	984.50
8844	Reducing Tee for 48.60mm X 42.70mm outer dia SS pipe	each	984.50
8845	Stainless steel Male thread Tee for 15.88 mm outer dia X 15 mm nominal dia threaded	each	203.50
8846	Stainless steel Male thread Tee for 22.22 mm outer dia X 15 mm nominal dia threaded	each	236.50
8847	Stainless steel Male thread Tee for 22.22 mm outer dia X 20 mm nominal dia threaded	each	236.50
8848	Stainless steel Male thread Tee for 28.58 mm outer dia X 15 mm nominal dia threaded	each	324.50
8849	Stainless steel Male thread Tee for 28.58 mm outer dia X 20 mm nominal dia threaded	each	324.50
8850	Stainless steel Male thread Tee for 28.58 mm outer dia X 25 mm nominal dia threaded	each	324.50
8851	Stainless steel Male thread Tee for 34.00 mm outer dia X 15 mm nominal dia threaded	each	511.50
8852	Stainless steel Male thread Tee for 34.00 mm outer dia X 20 mm nominal dia threaded	each	511.50

Code No.	Description	Unit	Basic rate 2023-24
8853	Stainless steel Male thread Tee for 34.00 mm outer dia X 25 mm nominal dia threaded	each	511.50
8854	Stainless steel Male thread Tee for 34.00 mm outer dia X 32 mm nominal dia threaded	each	511.50
8855	Stainless steel Male thread Tee for 42.70 mm outer dia X 15 mm nominal dia threaded	each	781.00
8856	Stainless steel Male thread Tee for 42.70 mm outer dia X 20 mm nominal dia threaded	each	781.00
8857	Stainless steel Male thread Tee for 42.70 mm outer dia X 25 mm nominal dia threaded	each	781.00
8858	Stainless steel Male thread Tee for 42.70 mm outer dia X 32 mm nominal dia threaded	each	781.00
8859	Stainless steel Male thread Tee for 42.70 mm outer dia X 40 mm nominal dia threaded	each	781.00
8860	Stainless steel Male thread Tee for 48.60 mm outer dia X 15 mm nominal dia threaded	each	984.50
8861	Stainless steel Male thread Tee for 48.60 mm outer dia X 20 mm nominal dia threaded	each	984.50
8862	Stainless steel Male thread Tee for 48.60 mm outer dia X 25 mm nominal dia threaded	each	984.50
8863	Stainless steel Male thread Tee for 48.60 mm outer dia X 32 mm nominal dia threaded	each	984.50
8864	Stainless steel Male thread Tee for 48.60 mm outer dia X 40 mm nominal dia threaded	each	984.50
8865	Stainless steel Male thread Tee for 48.60 mm outer dia X 50 mm nominal dia threaded	each	984.50
8866	Stainless steel Female thread Tee for 15.88 mm outer dia X 15 mm nominal dia threaded	each	203.50
8867	Stainless steel Female thread Tee for 22.22 mm outer dia X 15 mm nominal dia threaded	each	225.50
8868	Stainless steel Female thread Tee for 22.22 mm outer dia X 20 mm nominal dia threaded	each	225.50
8869	Stainless steel Female thread Tee for 28.58 mm outer dia X 15 mm nominal dia threaded	each	302.50
8870	Stainless steel Female thread Tee for 28.58 mm outer dia X 20 mm nominal dia threaded	each	302.50
8871	Stainless steel Female thread Tee for 28.58 mm outer dia X 25 mm nominal dia threaded	each	302.50
8872	Stainless steel Female thread Tee for 34.00 mm outer dia X 15 mm nominal dia threaded	each	489.50
8873	Stainless steel Female thread Tee for 34.00 mm outer dia X 20 mm nominal dia threaded	each	489.50
8874	Stainless steel Female thread Tee for 34.00 mm outer dia X 25 mm nominal dia threaded	each	489.50
8875	Stainless steel Female thread Tee for 34.00 mm outer dia X 32 mm nominal dia threaded	each	489.50
8876	Stainless steel Female thread Tee for 42.70 mm outer dia X 15 mm nominal dia threaded	each	770.00
8877	Stainless steel Female thread Tee for 42.70 mm outer dia X 20 mm nominal dia threaded	each	770.00

Code No.	Description	Unit	Basic rate 2023-24
8878	Stainless steel Female thread Tee for 42.70 mm outer dia X 25 mm nominal dia threaded	each	770.00
8879	Stainless steel Female thread Tee for 42.70 mm outer dia X 32 mm nominal dia threaded	each	770.00
8880	Stainless steel Female thread Tee for 42.70 mm outer dia X 40 mm nominal dia threaded	each	770.00
8881	Stainless steel Female thread Tee for 48.60 mm outer dia X 15 mm nominal dia threaded	each	995.50
8882	Stainless steel Female thread Tee for 48.60 mm outer dia X 20 mm nominal dia threaded	each	995.50
8883	Stainless steel Female thread Tee for 48.60 mm outer dia X 25 mm nominal dia threaded	each	995.50
8884	Stainless steel Female thread Tee for 48.60 mm outer dia X 32 mm nominal dia threaded	each	995.50
8885	Stainless steel Female thread Tee for 48.60 mm outer dia X 40 mm nominal dia threaded	each	995.50
8886	Stainless steel Female thread Tee for 48.60 mm outer dia X 50 mm nominal dia threaded	each	995.50
8887	Stainless steel Female threaded Connector/ Adapter for 15.88 mm outer dia X 15 mm nominal threaded	each	214.50
8888	Stainless steel Female threaded Connector/ Adapter for 22.22 mm outer dia X 15 mm nominal threaded	each	253.00
8889	Stainless steel Female threaded Connector/ Adapter for 22.22 mm outer dia X 20 mm nominal threaded	each	264.00
8890	Stainless steel Female threaded Connector/ Adapter for 28.58 mm outer dia X 15 mm nominal threaded	each	304.70
8891	Stainless steel Female threaded Connector/ Adapter for 28.58 mm outer dia X 15 mm nominal threaded	each	319.00
8892	Stainless steel Female threaded Connector/ Adapter for 28.58 mm outer dia X 25 mm nominal threaded	each	390.50
8893	Stainless steel Female threaded Connector/ Adapter for 34.00 mm outer dia X 25 mm nominal threaded	each	451.00
8894	Stainless steel Female threaded Connector/ Adapter for 34.00 mm outer dia X 25 mm nominal threaded	each	594.00
8895	Stainless steel Female threaded Connector/Adapter for 42.70 mm outer dia X 32 mm nominal threaded	each	654.50
8896	Stainless steel Female threaded Connector/Adapter for 42.70 mm outer dia X 32 mm nominal threaded	each	764.50
8897	Stainless steel Female threaded Connector/Adapter for 48.60 mm outer dia X 40 mm nominal threaded	each	929.50
8898	Stainless steel Female threaded Connector/ Adapter for 48.60 mm outer dia X 50 mm nominal threaded	each	1072.50
8899	Stainless steel Male threaded Connector/Adapter for 15.88 mm outer dia X 15 mm nominal threaded	each	214.50
8900	Stainless steel Male threaded Connector/Adapter for 22.22 mm outer dia X 15 mm nominal threaded	each	253.00
8901	Stainless steel Male threaded Connector/Adapter for 22.22 mm outer dia X 20 mm nominal threaded	each	280.50
8902	Stainless steel Male threaded Connector/Adapter for 28.58 mm outer dia X 20 mm nominal threaded	each	357.50

Code No.	Description	Unit	Basic rate 2023-24
8903	Stainless steel Male threaded Connector/Adapter for 28.58 mm outer dia X 20 mm nominal threaded	each	357.50
8904	Stainless steel Male threaded Connector/Adapter for 34.00 mm outer dia X 32 mm nominal threaded	each	522.50
8905	Stainless steel Male threaded Connector/Adapter for 34.00 mm outer dia X 32 mm nominal threaded	each	621.50
8906	Stainless steel Male threaded Connector/Adapter for 42.70 mm outer dia X 32 mm nominal threaded	each	713.90
8907	Stainless steel Male threaded Connector/Adapter for 42.70 mm outer dia X 32 mm nominal threaded	each	803.00
8908	Stainless steel Male threaded Connector/Adapter for 48.60 mm outer dia X 40 mm nominal threaded	each	935.00
8909	Stainless steel Male threaded Connector/Adapter for 48.60 mm outer dia X 40 mm nominal threaded	each	1254.00
8910	Stainless steel Valve Connector for 15.88 mm outer dia X 15 mm nominal dia threaded	each	258.50
8911	Stainless steel Valve Connector for 22.22 mm outer dia X 15 mm nominal dia threaded	each	308.00
8912	Stainless steel Valve Connector for 22.22 mm outer dia X 20 mm nominal dia threaded	each	341.00
8913	Stainless steel Valve Connector for 28.58 mm outer dia X 25 mm nominal dia threaded	each	467.50
8914	Stainless steel Valve Connector for 34.00 mm outer dia X 32 mm nominal dia threaded	each	709.50
8915	Stainless steel Valve Connector for 42.70 mm outer dia X 40 mm nominal dia threaded	each	968.00
8916	Stainless steel Valve Connector for 48.60 mm outer dia X 50 mm nominal dia threaded	each	1331.00
8917	SS Female Threaded Elbow 90o for 15.88 mm outer dia X 15 mm nominal dia threaded	each	176.00
8918	Stainless steel Female Threaded Elbow 90o for 22.22 mm outer dia X 15 mm nominal dia threaded	each	236.50
8919	Stainless steel Female Threaded Elbow 90o for 22.22 mm outer dia X 20 mm nominal dia threaded	each	236.50
8920	Stainless steel Female Threaded Elbow 90o for 28.58 mm outer dia X 25 mm nominal dia threaded	each	236.50
8921	Stainless steel Female Threaded Elbow 90o for 34.00 mm outer dia X 32 mm nominal dia threaded	each	324.50
8922	Stainless steel Female Threaded Elbow 90o for 42.70 mm outer dia X 32 mm nominal dia threaded	each	528.00
8923	Stainless steel Female Threaded Elbow 90o for 42.70 mm outer dia X 40 mm nominal dia threaded	each	528.00
8924	Stainless steel Female Threaded Elbow 90o for 48.60 mm outer dia X 40 mm nominal dia threaded	each	781.00
8925	Stainless steel Female Threaded Elbow 90o for 48.60 mm outer dia X 50 mm nominal dia threaded	each	781.00
8926	Stainless steel Male Threaded Elbow 90o for 15.88 mm outer dia X 15 mm nominal dia threaded	each	214.50
8927	Stainless steel Male Threaded Elbow 90o for 22.22 mm outer dia X 15 mm nominal dia threaded	each	247.50

Code No.	Description	Unit	Basic rate 2023-24
8928	Stainless steel Male Threaded Elbow 900 for 22.22 mm outer dia X 20 mm nominal dia threaded	each	247.50
8929	Stainless steel Male Threaded Elbow 900 for 28.58 mm outer dia X 25 mm nominal dia threaded	each	247.50
8930	Stainless steel Male Threaded Elbow 900 for 34.00 mm outer dia X 25 mm nominal dia threaded	each	319.00
8931	Stainless steel Male Threaded Elbow 900 for 34.00 mm outer dia X 32 mm nominal dia threaded	each	319.00
8932	Stainless steel Male Threaded Elbow 900 for 42.70 mm outer dia X 32 mm nominal dia threaded	each	528.00
8933	Stainless steel Male Threaded Elbow 900 for 42.70 mm outer dia X 40 mm nominal dia threaded	each	528.00
8934	Stainless steel Male Threaded Elbow 900 for 48.60 mm outer dia X 40 mm nominal dia threaded	each	764.50
8935	Stainless steel Male Threaded Elbow 900 for 48.60 mm outer dia X 50 mm nominal dia threaded	each	764.50
8936	Stainless steel Cap for 15.88 mm outer dia pipe	each	52.80
8937	Stainless steel Cap for 22.22 mm outer dia pipe	each	77.00
8938	Stainless steel Cap for 28.58 mm outer dia pipe	each	99.00
8939	Stainless steel Cap for 34.00 mm outer dia pipe	each	192.50
8940	Stainless steel Cap for 42.70 mm outer dia pipe	each	275.00
8941	Stainless steel Cap for 48.60 mm outer dia pipe	each	357.50
8942	Stainless steel Pipe Bridge for 15.88 mm outer dia pipe	each	242.00
8943	Stainless steel Pipe Bridge for 22.22 mm outer dia pipe	each	319.00
8944	Stainless steel Pipe Bridge for 28.58 mm outer dia pipe	each	456.50
8945	4 Point facade glass bracket without flat head bolts	Nos	3649.80
8946	2 Point facade glass bracket (wall mounted with out flat head bolt)	Nos	1824.90
8947	1 Point facade glass bracket (wall mounted with out flat head bolt)	Nos	1430.00
8948	Flate head bolt for brackets of spider glazing	Nos	716.10
8949	400 mm long fin plate without fastners	pair	6524.10
8953	Micro Silica	kg	30.80
8954	Stop end tubes for diaphragmwall 600 mm dia.	sqm	4.95
8955	Driving end tubes for diaphragm wall 600 mm dia.	sqm	79.20
8956	Bi-Axial Extruded GeoGrids of Minimum Tensile Strength 15 kN/m in the longitudinal and transverse direction	sqm	132.00
8957	Bi-Axial Extruded GeoGrids of Minimum Tensile Strength 20kN/m in the longitudinal and transverse direction	sqm	148.50
8958	Bi-Axial Extruded GeoGrids of Minimum Tensile Strength 30kN/m in the longitudinal and transverse direction	sqm	225.50
8959	Bi-Axial Extruded GeoGrids of Minimum Tensile Strength 40kN/m in the longitudinal and transverse direction	sqm	319.00
8960	Geosynthetic Drainage with two filtering nonwoven geotextiles having a "W" configuration as longitudinal parallel channels. Minimum thickness to be 7.2mm, with two filtering UV stabilized polypropylene nonwoven geotextile of minimum thickness of 0.75mm having pores of 150 micron and tensile strength of 8.0 kN/m and having plane flow capacity of 2.1 L / (m.s) at hydraulic gradient of 1.0 & 20 kPa pressure, tensile strength of 18 kN/m , with mass per unit area of 740 gsm.	sqm	583.00

Code No.	Description	Unit	Basic rate 2023-24
8961	Geosynthetic Drainage Composite having thermobonding a draining core - HDPE geonet comprises of two sets of parallel overlaid ribs integrally connected to have a rhomboidal shape with a polyethylene film and a nonwoven geotextile having mass per unit area 130 g/m ² and tensile strength of 8.0 kN/m having in plane flow capacity of 0.7 L / (m.s) at hydraulic gradient of 1.0 & 20 kPa pressure and tensile strength of 13.5 kN/m , with mass per unit area of 830 gsm,	sqm	693.00
8962	Synthetic Geogrid having Ultimate tensile strength- 100 kN/m	sqm	220.00
8963	Synthetic Geogrid Ultimate tensile strength- 150 kN/m	sqm	231.00
8964	Synthetic Geogrid Ultimate tensile strength- 200 kN/m	sqm	374.00
8965	Synthetic Geogrid Ultimate tensile strength- 250 kN/m	sqm	385.00
8966	Synthetic Geogrid Ultimate tensile strength- 300kN/m	sqm	396.00
8967	Synthetic Geogrid Ultimate tensile strength- 350kN/m	sqm	407.00
8968	Synthetic Geogrid Ultimate tensile strength- 400kN/m	sqm	495.00
8969	Synthetic Geogrid Ultimate tensile strength- 500kN/m	sqm	550.00
8970	Synthetic Geogrid Ultimate tensile strength- 600kN/m	sqm	605.00
8971	Synthetic Geogrid Ultimate tensile strength- 700kN/m	sqm	715.00
8972	Synthetic Geogrid Ultimate tensile strength- 800kN/m	sqm	797.50
8973	Synthetic Geogrid Ultimate tensile strength- 900kN/m	sqm	935.00
8974	Synthetic Geogrid Ultimate tensile strength- 1000kN/m	sqm	1045.00
8975	Synthetic Geogrid Ultimate tensile strength- 1100kN/m	sqm	1100.00
8976	Synthetic Geogrid Ultimate tensile strength- 1200kN/m	sqm	1155.00
8977	Aluminium profile industrial troughed sheet of Alloy 31500/31000/ 40800, conforming to IS 1254, IS 737, IS 2676, 0.71 mm thick, the profile detail width 1044/920 mm, cover width 1000/875 mm.	sqm	660.00
8978	Aluminium profile industrial troughed sheet of Alloy 31500/31000/ 40800, conforming to IS 1254, IS 737, IS 2676, 0.91 mm thick, the profile detail width 1044/920 mm, cover width 1000/875 mm.	sqm	863.50
8979	Uni Axial Woven polyester geogrid of minimum tensile strength 40KN/m in the Longitudinal direction and 20 KN/m in the Transverse direction.	sqm	180.70
8980	Uni Axial Woven polyester geogrid of minimum tensile strength 60KN/m in the Longitudinal direction and 20 KN/m in the Transverse direction	sqm	165.00
8981	Uni Axial Woven polyester geogrid of minimum tensile strength 80 KN/m in the Longitudinal direction and 30 KN/m in the Transverse direction.	sqm	210.00
8982	Uni Axial Woven polyester geogrid of minimum tensile strength 100KN/m in the Longitudinal direction and 30KN/m in the Transverse direction.	sqm	242.00
8983	Uni Axial Woven polyester geogrid of minimum tensile strength 120KN/m in the Longitudinal direction and 30KN/m in the Transverse direction.	sqm	260.00
8984	Uni Axial Woven polyester geogrid of minimum tensile strength 150KN/m in the Longitudinal direction and 30 KN/m in the Transverse direction.	sqm	326.00
8985	Uni Axial Woven polyester geogrid of minimum tensile strength 200KN/m in the Longitudinal direction and 30 KN/m in the Transverse direction.	sqm	383.00
8986	Uni Axial Woven polyester geogrid of minimum tensile strength 250KN/m in the Longitudinal direction and 30KN/m in the Transverse direction.	sqm	468.00

Code No.	Description	Unit	Basic rate 2023-24
8987	Uni Axial Woven polyster geogrid of minimum tensile strength 300KN/m in the Longitudinal direction and 30KN/m in the Transverse direction.	sqm	540.00
8988	Bi Axial Woven polyster geogrid of minimum tensile strength 20KN/m in both Longitudinal and Transverse direction.	sqm	117.00
8989	Bi Axial Woven polyster geogrid of minimum tensile strength 40KN/m in both Longitudinal and Transverse direction.	sqm	177.00
8990	Bi Axial Woven polyster geogrid of minimum tensile strength 60KN/m in both Longitudinal and Transverse direction.	sqm	228.00
9001	C.P. Brass Centre Hole Basin Mixer With Cast Spout	each	1723.70
9977	Carriage	L.S.	2.75
9988	Carriage and sundries	L.S.	2.75
9999	Sundries	L.S.	2.75
10001	HDPE pipe 20mm dia	RM	27.61
10002	HDPE pipe 25mm dia	RM	33.74
10003	HDPE pipe 32mm dia	RM	47.85
10004	HDPE pipe 40mm dia	RM	70.55
10005	HDPE pipe 50mm dia	RM	103.68
10006	HDPE pipe 63mm dia	RM	153.37
10007	HDPE pipe 75mm dia	RM	205.52
10008	HDPE Flanged pipe 90mm dia	RM	297.55
10009	HDPE Flanged pipe 110mm dia	RM	401.84
10010	HDPE Flanged pipe 125mm dia	RM	552.15
10011	HDPE Flanged pipe 140mm dia	RM	595.09
10012	MDPE pipe with insulation 20mm dia	RM	460.12
10013	PPR pipe 20mm dia	RM	61.35
10014	PPR pipe 25mm dia	RM	72.39
10015	PPR pipe 32mm dia	RM	82.82
10016	PPR pipe 40mm dia	RM	85.89
10017	PPR pipe 50mm dia	RM	110.43
10018	G.I Pipe 25mm dia	RM	171.78
10019	G.I Pipe 32mm dia	RM	214.72
10020	G.I Pipe 40mm dia	RM	233.13
10021	G.I Pipe 50mm dia	RM	306.75
10022	G.I Pipe 63mm dia	RM	429.45
10023	G.I Pipe 75mm dia	RM	521.47
10024	G.I Pipe 80mm dia	RM	736.20
10025	G.I Pipe 100mm dia	RM	1104.29
10026	M.S Flanged Pipe 65mm dia	RM	920.25
10027	M.S Flanged Pipe 80mm dia	RM	1104.29
10028	M.S Flanged Pipe 100mm dia	RM	1533.74
10029	M.S Flanged Pipe 110mm dia	RM	1840.49
10030	M.S Flanged Pipe 125mm dia	RM	2208.59
10031	M.S Flanged Pipe 150mm dia	RM	2453.99
10032	Gate valve 15mm dia (Brass)	No	592.59
10033	Gate valve 20mm dia (Brass)	No	718.52
10034	Gate valve 25mm dia (Brass)	No	925.93
10035	Gate valve 32mm dia (Brass)	No	1037.04
10036	Gate valve 40mm dia (Brass)	No	1629.63
10037	Gate valve 50mm dia (Brass)	No	2592.59

Code No.	Description	Unit	Basic rate 2023-24
10038	Gate valve 63mm dia (Brass)	No	4444.44
10039	Bal valve 15mm dia (Brass)	No	600.00
10040	Bal valve 20mm dia (Brass)	No	725.93
10041	Bal valve 25mm dia (Brass)	No	948.15
10042	Bal valve 32mm dia (Brass)	No	1074.07
10043	Bal valve 40mm dia (Brass)	No	1703.70
10044	Bal valve 50mm dia (Brass)	No	2962.96
10045	Bal valve 63mm dia (Brass)	No	4444.44
10046	Bal valve 75mm dia (Brass)	No	6666.67
10047	Bal valve 80mm dia (Brass)	No	9629.63
10048	Bal valve 90mm dia (Brass)	No	11111.11
10049	Bal valve 100mm dia (Brass)	No	13333.33
10050	Bal valve 110mm dia (Brass)	No	14814.81
10051	Bal valve 125mm dia (Brass)	No	16296.30
10052	Bal valve 150mm dia (Brass)	No	17407.41
10053	NRV 65mm dia (Brass)	No	6666.67
10054	NRV 75mm dia (Brass)	No	8888.89
10055	NRV 80mm dia (Brass)	No	11111.11
10056	NRV 90mm dia (Brass)	No	13333.33
10057	NRV 100mm dia (Brass)	No	16296.30
10058	NRV 110mm dia (Brass)	No	18518.52
10059	NRV 125mm dia (Brass)	No	20000.00
10060	NRV 150mm dia (Brass)	No	22222.22
10061	Bib Cock 15mm dia (Brass)	No	666.67
10062	Bib Cock 20mm dia (Brass)	No	888.89
10063	G.I Elbow 15mm dia	No	47.83
10064	G.I Elbow 20mm dia	No	69.57
10065	G.I Elbow 25mm dia	No	86.96
10066	G.I Elbow 32mm dia	No	139.13
10067	G.I Elbow 40mm dia	No	173.91
10068	G.I Elbow 50mm dia	No	191.30
10069	G.I Elbow 63mm dia	No	217.39
10070	G.I Elbow 75mm dia	No	304.35
10071	G.I Elbow 90mm dia	No	391.30
10072	G.I Elbow 100mm dia	No	478.26
10073	G.I Elbow 110mm dia	No	521.74
10074	G.I Elbow 125mm dia	No	695.65
10075	G.I Elbow 150mm dia	No	869.57
10076	G.I Union 15mm dia	No	81.48
10077	G.I Union 20mm dia	No	111.11
10078	G.I Union 25mm dia	No	162.96
10079	G.I Union 32mm dia	No	222.22
10080	G.I Union 40mm dia	No	296.30
10081	G.I Union 50mm dia	No	370.37
10082	G.I Union 63mm dia	No	444.44
10083	G.I Union 75mm dia	No	518.52
10084	G.I Union 90mm dia	No	592.59
10085	G.I Union 100mm dia	No	666.67
10086	G.I Union 110mm dia	No	740.74
10087	G.I Union 125mm dia	No	888.89

Code No.	Description	Unit	Basic rate 2023-24
10088	G.I Union 150mm dia	No	1111.11
10089	G.I Socket 15mm dia	No	45.45
10090	G.I Socket 20mm dia	No	68.18
10091	G.I Socket 25mm dia	No	86.36
10092	G.I Socket 32mm dia	No	136.36
10093	G.I Socket 40mm dia	No	163.64
10094	G.I Socket 50mm dia	No	181.82
10095	G.I Socket 63mm dia	No	209.09
10096	G.I Socket 75mm dia	No	300.00
10097	G.I Socket 90mm dia	No	390.91
10098	G.I Socket 100mm dia	No	481.82
10099	G.I Socket 110mm dia	No	527.27
10100	G.I Socket 125mm dia	No	727.27
10101	G.I Socket 150mm dia	No	909.09
10102	G.I Tee 15mm dia	No	63.64
10103	G.I Tee 20mm dia	No	100.00
10104	G.I Tee 25mm dia	No	118.18
10105	G.I Tee 32mm dia	No	163.64
10106	G.I Tee 40mm dia	No	209.09
10107	G.I Tee 50mm dia	No	227.27
10108	G.I Tee 63mm dia	No	245.45
10109	G.I Tee 75mm dia	No	272.73
10110	G.I Tee 90mm dia	No	281.82
10111	G.I Tee 100mm dia	No	309.09
10112	G.I Tee 110mm dia	No	336.36
10113	G.I Tee 125mm dia	No	409.09
10114	G.I Tee 150mm dia	No	545.45
10115	G.I Reducer 15x20mm dia	No	47.83
10116	G.I Reducer 20x25mm dia	No	69.57
10117	G.I Reducer 25x32mm dia	No	86.96
10118	G.I Reducer 32x40mm dia	No	139.13
10119	G.I Reducer 40x50mm dia	No	173.91
10120	G.I Reducer 63x50mm dia	No	295.65
10121	G.I Reducer 63x75mm dia	No	373.91
10122	G.I Reducer 75x90mm dia	No	591.30
10123	G.I Reducer 90x100mm dia	No	913.04
10124	Compression Copler 63mm dia	No	266.67
10125	Compression Copler 75mm dia	No	383.33
10126	Compression Copler 90mm dia	No	541.67
10127	Compression Copler 110mm dia	No	816.67
10128	U-Clamp	No	833.33
10129	Nuts and Bolts	No	125.00
10130	Washer/ Gasket	No	66.67
10131	submersible Pump set make of Crompton Graves head capacity 90Mtr	each	38500.00
10132	with electrical panel 240V. 50 cycle for single phase	each	14500.00
10133	safety cable 6mm thick- single face	Metre	1125.00
10134	3HP dual solar submersible pump,	each	350000.00
10135	GI Mounting structure set	KG	275.00
10136	DC cable for Solar Panel 4 Sqmm	Metre	550.00
10137	suitable submersible pump of 10-35 HP, rating 1500 LPH at 500mtr head	each	67200.00

Code No.	Description	Unit	Basic rate 2023-24
10138	Electrical panel box	each	26533.00
10139	3 core 16sq-mm including water proofing cable	Metre	1338.40
10140	15 Hp Solar Water submersible Pump	each	960000.00
10148	Mud mortar using approved quality mud	cum	1925
10149	5mm thick dry grass	sqm	150
10150	Compressed earth blocks (CEB)	cum	5900
10151	Corrugated sheet,3 mm thick, "W" beam section railing,4.5 m in length	kg	85
10152	Channel post 150 x 75 x 5 mm,1.8 m long,3 Nos @ 16.4 kg per metre	kg	105
10153	Spacer 150 x 75 x 5 mm channel 0.33 m long,3 Nos @ 16.4 kg per metre	kg	105
10154	Nuts and bolts	kg	80

BASIC RATES
0.4 CARRIAGE CODES

(Carriage for 5.0 km lead by Mechanical Transport including loading, Unloading and stacking).

Note: - These rates are exclusive of GST, contractor's profit and overhead charges.

Code No.	Description	Unit	Basic rate 2023-24
2200	Carriage of Steam coal	tonne	0
2201	Carriage of Bricks	1000 Nos	0
2202	Carriage of Stone aggregate below 40 mm nominal size	cum	0
2203	Carriage of Coarse sand	cum	0
2204	Carriage of Timber	cum	0
2205	Carriage of Steel	tonne	0
2206	Carriage of Stone aggregate 40 mm nominal size and above	cum	0
2207	Carriage of Brick tiles	1000 Nos	0
2208	Carriage of Lime	cum	0
2209	Carriage of Cement	tonne	0
2211	Carriage of Tar / Bitumen	tonne	0
2215	Carriage of Soling stone & masonry stone	cum	0
2216	Carriage of Stone blocks white & red sand stone & kota stone slab	tonne	0
2224	Carriage of S.W. pipes 100 mm dia	100 metre	0
2225	Carriage of S.W. pipes 150 mm dia	100 metre	0
2226	Carriage of S.W. pipes 200 mm dia	100 metre	0
2228	Carriage of S.W. pipes 250 mm dia	100 metre	0
2229	Carriage of S.W. pipes 300 mm dia	100 metre	0
2241	Carriage of Good earth	cum	0
2242	Carriage of Dump manure by mechanical transport upto 5 km lead	cum	0
2260	Carriage of Brick aggregate	cum	0
2261	Carriage of Fine sand (1 part of badarpur sand: 2 parts jamuna sand)	cum	0
2262	Carriage of Flyash	cum	0
2264	Carriage of Rubbish	cum	0
2265	Carriage of Moorum	cum	0
2266	Carriage of Surkhi	cum	0
2267	Carriage of Stone dust	cum	0
2268	Carriage of Marble dust and/or marble chips	cum	0
2271	Carriage of G.I. pipes below 100 mm dia	tonne	0
2272	Carriage of Stainless Steel pipes below 100 mm dia	tonne	0
2273	Carriage of A.C.sheet and accessories	tonne	0
2275	Carriage of R.C.C. pipes 100 mm dia	100 metre	0
2281	Carriage of R.C.C. pipes 150 mm dia	100 metre	0
2287	Carriage of R.C.C. pipes 250 mm dia	100 metre	0
2290	Carriage of R.C.C. pipes 300 mm dia	100 metre	0
2299	Carriage of R.C.C. pipes 450 & 500 mm dia	100 metre	0
2302	Carriage of G.I. sheet and accessories	tonne	0
2303	Carriage of R.C.C. pipes 600,700,750 & 800 mm dia	100 metre	0
2308	Carriage of Plaster of paris	tonne	0
2309	Carriage of Cast Iron fittings	tonne	0
2311	Carriage of Red bajri	cum	0
2314	Carriage of Barbed wire	tonne	0
2317	Carriage of Sludge	cum	0
2319	Carriage of Spun iron S & S pipes 100 mm dia	100 metre	0
2320	Carriage of Spun iron S & S pipes 125 mm dia	100 metre	0

Code No.	Description	Unit	Basic rate 2023-24
2321	Carriage of Spun iron S & S pipes 150 mm dia	100 metre	0
2322	Carriage of Spun iron S & S pipes 200 mm dia	100 metre	0
2323	Carriage of Spun iron S & S pipes 250 mm dia	100 metre	0
2324	Carriage of Spun iron S & S pipes 300 mm dia	100 metre	0
2325	Carriage of Spun iron S & S pipes 350 mm dia	100 metre	0
2326	Carriage of Spun iron S & S pipes 400 mm dia	100 metre	0
2327	Carriage of Spun iron S & S pipes 450 mm dia	100 metre	0
2328	Carriage of Spun iron S & S pipes 500 mm dia	100 metre	0
2329	Carriage of Spun iron S & S pipes 600mm dia	100 metre	0
2330	Carriage of C.I. pipes 500 mm dia	100 metre	0
2331	Carriage of R.C.C. pipes 900 mm dia	100 metre	0
2332	Carriage of R.C.C. pipes 1000 mm dia	100 metre	0
2333	Carriage of R.C.C. pipes 1100 mm dia	100 metre	0
2334	Carriage of R.C.C. pipes 1200 mm dia	100 metre	0
2335	Carriage of sand	cum	0
2336	Carriage of R.C.C. pipe above 1200 mm dia and upto 1800 mm dia	100 metre	0
2341	Carriage of Pig lead	tonne	0
2342	Carriage of Solvent / Diesel.	quintal	0
2343	Carriage of Ductile Iron pipes (k7) 100 mm dia	100 metre	0
2344	Carriage of Cast iron pipes 150 mm dia	100 metre	0
2345	Carriage of Cast iron pipes 200 mm dia	100 metre	0
2346	Carriage of Cast iron pipes 250 mm dia	100 metre	0
2347	Carriage of Cast iron pipes 300 mm dia	100 metre	0
2348	Carriage of Cast iron pipes 350 mm dia	100 metre	0
2349	Carriage of Cast iron pipes 400 mm dia	100 metre	0
2350	Carriage of Cast iron pipes 450 mm dia	100 metre	0
2351	Carriage of Cast iron pipes 500 mm dia	100 metre	0
2352	Carriage of Cast iron pipes 600 mm dia	100 metre	0
2353	Carriage of Cast iron pipes 700 mm dia	100 metre	0
2355	Carriage of Cast iron pipes 800 mm dia	100 metre	0
2356	Carriage of Cast iron pipes 900 mm dia	100 metre	0
2357	Carriage of Cast iron pipes 1000 mm dia	100 metre	0
2358	Carriage of Bamboo Mat corrugated sheets and accessories	tonne	0

SUB HEAD - 2.0
EARTHWORK

SI No.	Description of Item	Unit	Amount in Rs.
2.1	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including getting out and disposal of excavated earth upto 50 m and lift upto 1.5 m, as directed by Engineer-in-Charge:		
2.1.1	All kinds of soil	Sqm	104.97
2.2	Earth work in rough excavation, banking excavated earth in layers not exceeding 20cm in depth, breaking clods, watering, rolling each layer with ½ tonne roller or wooden or steel rammers, and rolling every 3rd and top-most layer with power roller of minimum 8 tonnes and dressing up in embankments for roads, flood banks, marginal banks and guide banks or filling up ground depressions, lead upto 50 m and lift upto 1.5 m :		
2.2.1	All kinds of soil	Cum	852.74
2.3	Banking excavated earth in layers not exceeding 20 cm in depth, breaking clods, watering, rolling each layer with ½ tonne roller, or wooden or steel rammers, and rolling every 3rd and top-most layer with power roller of minimum 8 tonnes and dressing up, in embankments for roads, flood banks, marginal banks, and guide banks etc., lead upto 50 m and lift upto 1.5 m :		
2.3.1	All kinds of soil	Cum	535.50
2.4	Deduct for not rolling with power roller of minimum 8 tonnes for banking excavated earth in layers not exceeding 20 cm in depth.	Cum	5.45
2.5	Deduct for not watering the excavated earth for banking	Cum	38.78
2.6	Earth work in excavation by manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge.		
2.6.1	All kinds of soil	Cum	647.61
2.6.2	Ordinary rock(By Manual means)	Cum	1026.87
2.6.3	Hard rock (requiring blasting) By manual means	Cum	1441.57
2.6.4	Hard rock (blasting prohibited) Manual Means	Cum	2424.30
2.7	Earth work in excavation by mechanical means (Hydraulic excavator) over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge.		
2.7.1	All kinds of soil	Cum	245.94
2.7.2	Ordinary rock	Cum	452.99
2.7.3	Hard rock (requiring blasting)	Cum	922.23
2.7.4	Hard rock (Blasting Prohibited)	Cum	1292.60
2.8	Earth work in excavation by manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.		
2.8.1	All kinds of soil.	Cum	526.11
2.8.2	Ordinary rock	Cum	1164.03
2.8.3	Hard rock (requiring blasting)	Cum	1540.55

SI No.	Description of Item	Unit	Amount in Rs.
2.8.4	Hard rock (blasting prohibited)	Cum	2374.71
2.9	Earth work in excavation by mechanical means (Hydraulic excavator) in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.		
2.9.1	All kinds of soil.	Cum	328.15
2.9.2	Ordinary rock	Cum	595.29
2.9.3	Hard rock (requiring blasting)	Cum	1113.63
2.9.4	Hard rock (blasting prohibited)	Cum	1434.91
2.10	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :		
2.10.1	All kinds of soil		
2.10.1.1	Pipes, cables etc, not exceeding 80 mm dia.	Metre	371.47
2.10.1.2	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	Metre	606.72
2.10.1.3	Pipes, cables etc. exceeding 300 mm dia but not exceeding 600 mm	Metre	947.22
2.11	Extra for excavating trenches for pipes, cables etc. in all kinds of soil for depth exceeding 1.5 m, but not exceeding 3 m. (Rate is over corresponding basic item for depth upto 1.5 metre).	Metre	144.00
2.12	Extra for excavating trenches for pipes, cables, etc, in all kinds of soil for depth exceeding 3 m in depth, but not exceeding 4.5 m. (Rate is over corresponding basic item for depth upto 1.5 metre.)	Metre	206.00
2.13	Excavating trenches of required width for pipes, cables, etc, including excavation for sockets, depth upto 1.5 m, including getting out the excavated materials, returning the soil as required in layers not exceeding 20 cm in depth, including consolidating each deposited layers by ramming, watering etc., stacking serviceable material for measurements and disposal of unserviceable material as directed, within a lead of 50 m :		
2.13.1	Ordinary rock :		
2.13.1.1	Pipes, cables etc. not exceeding 80 mm dia	Metre	290.12
2.13.1.2	Pipes, cables etc. exceeding 80 mm dia but not exceeding 300 mm dia	Metre	718.39
2.13.1.3	Pipes, cables exceeding 300 mm dia but not exceeding 600 mm dia	Metre	826.58
2.13.2	Hard rock (requiring blasting)		
2.13.2.1	Pipes, cables etc. not exceeding 80 mm dia	Metre	667.32
2.13.2.2	Pipes, cables etc. exceeding 80 mm dia but not exceeding 300 mm dia	Metre	1652.41
2.13.2.3	Pipes, cables etc. exceeding 300 mm dia but not exceeding 600 mm dia	Metre	1901.39
2.13.3	Hard rock (blasting prohibited)		
2.13.3.1	Pipes, cables etc. not exceeding 80 mm dia	Metre	820.65
2.13.3.2	Pipes, cables etc. exceeding 80 mm dia but not exceeding 300 mm dia	Metre	2032.07
2.13.3.3	Pipes, cables etc. exceeding 300 mm dia but not exceeding 600 mm dia	Metre	2338.39
2.14	Extra for excavating trenches for pipes, cables, etc. in ordinary/hard rock exceeding 1.5 m in depth but not exceeding 3 m. (Rate is over corresponding basic item for depth upto 1.5 metre)	Metre	99.27

SUB HEAD - 2.0 EARTHWORK

SI No.	Description of Item	Unit	Amount in Rs.
2.15	Extra for excavating trenches for pipes, cables, etc. in ordinary/hard rock exceeding 3m in depth but not exceeding 4.5 m. (Rate is over corresponding basic item for depth upto 1.5 metre)	Metre	244.93
2.16	Close timbering in trenches including strutting, shoring and packing cavities (wherever required) complete. (Measurements to be taken of the face area timbered).		
2.16.1	Depth not exceeding 1.5 m	Sqm	302.12
2.16.2	Depth exceeding 1.5 m but not exceeding 3 m	Sqm	316.60
2.16.3	Depth exceeding 3 m but not exceeding 4.5 m	Sqm	347.24
2.17	Close timbering in case of shafts, wells, cesspits, manholes and the like including strutting, shoring and packing cavities (wherever required) etc. complete. (Measurements to be taken of the face area timbered).		
2.17.1	Depth not exceeding 1.5 m	Sqm	312.18
2.17.2	Depth exceeding 1.5 m but not exceeding 3 m	Sqm	341.41
2.17.3	Depth exceeding 3 m but not exceeding 4.5 m	Sqm	372.48
2.18	Close timbering over areas including strutting, shoring and packing cavities (wherever required) etc. complete. (Measurements to be taken of the face area timbered):		
2.18.1	Depth not exceeding 1.5 m		268.53
2.18.2	Depth exceeding 1.5 m but not exceeding 3 m	Sqm	284.89
2.18.3	Depth exceeding 3 m but not exceeding 4.5 m	Sqm	302.19
2.19	Extra for planking, strutting and packing materials for cavities (in close timbering) if required to be left permanently in position. (Face area of timber permanently left to be measured).	Sqm	4003.34
2.20	Open timbering in trenches including strutting and shoring complete (measurements to be taken of the face area timbered):		
2.20.1	Depth not exceeding 1.5 m	Sqm	155.12
2.20.2	Depth exceeding 1.5 m but not exceeding 3 m	Sqm	163.77
2.20.3	Depth exceeding 3 m but not exceeding 4.5 m	Sqm	178.13
2.21	Open timbering in case of shafts, wells, cesspits, manholes and the like including strutting and shoring complete (Measurements to be taken of the face area timbered):		
2.21.1	Depth not exceeding 1.5 m	Sqm	132.22
2.21.2	Depth exceeding 1.5 m but not exceeding 3 m	Sqm	145.99
2.21.3	Depth exceeding 3 m but not exceeding 4.5 m	Sqm	164.20
2.22	Open timbering over areas including strutting, shoring etc. complete. (Measurements to be taken of the face area timbered):		
2.22.1	Depth not exceeding 1.5 m	Sqm	88.43
2.22.2	Depth exceeding 1.5 m but not exceeding 3 m	Sqm	97.79
2.22.3	Depth exceeding 3 m but not exceeding 4.5 m	Sqm	112.90
2.23	Extra for planking and strutting in open timbering if required to be left permanently in position. (Face area of the timber permanently left to be measured).	Sqm	2046.90
2.24	Extra rates for quantities of works, executed:		
2.24.1	In or under water and/or liquid mud, including pumping out water as required	metre depth	0.20
2.24.2	In or under foul position, including pumping out water as required	metre depth	0.25

SUB HEAD - 2.0 EARTHWORK

SI No.	Description of Item	Unit	Amount in Rs.
2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	Cum	260.08
2.25(a)	Excavating, supplying and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete.	Cum	812.13
2.26	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials.		
2.26.1	All kinds of soil	Cum	105.24
2.26.2	Ordinary or hard rock	Cum	189.27
2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	Cum	2234.22
2.28	Surface dressing of the ground including removing vegetation and in-equalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m.		
2.28.1	All kinds of soil	Sqm	27.60
2.29	Ploughing the existing ground to a depth of 15 cm to 25 cm and watering the same.		
2.29.1	All kinds of soil	Sqm	28.12
2.30	Excavating holes more than 0.10 cum & upto 0.5 cum including getting out the excavated soil, then returning the soil as required in layers not exceeding 20cm in depth, including consolidating each deposited layer by ramming, watering etc, disposing of surplus excavated soil, as directed within a lead of 50 m and lift upto 1.5 m.		
2.30.1	All kinds of soil	Each	164.73
2.30.2	Ordinary rock	Each	185.74
2.30.3	Hard rock (requiring blasting)	Each	342.79
2.30.4	Hard rock (blasting prohibited)	Each	440.16
2.31	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared.	Sqm	37.56
2.32	Clearing grass and removal of the rubbish up to a distance of 50 m outside the periphery of the area cleared.	Sqm	7.27
2.33	Felling trees of the girth (measured at a height of 1 m above ground level), including cutting of trunks and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material.		
2.33.1	Beyond 30 cm girth upto and including 60 cm girth	Each	434.30
2.33.2	Beyond 60 cm girth upto and including 120 cm girth	Each	1926.07
2.33.3	Beyond 120 cm girth upto and including 240 cm girth	Each	8920.32
2.33.4	Above 240 cm girth	Each	17882.05
2.34	Supplying chemical emulsion in sealed containers including delivery as specified.		
2.34.1	Chlorpyrifos/ Lindane emulsifiable concentrate of 20%	Litre	234.74

SUB HEAD - 2.0 EARTHWORK

SI No.	Description of Item	Unit	Amount in Rs.
2.35	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :		
2.35.1	Along external wall where the apron is not provided using chemical emulsion @ 7.5 litres / sqm of the vertical surface of the substructure to a depth of 300mm including excavation channel along the wall & rodding etc. complete:		
2.35.1.1	With Chlorpyrifos/ Lindane E.C. 20% with 1% concentration	Metre	33.23
2.35.2	Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc.:		
2.35.2.1	With Chlorpyrifos/ Lindane E.C. 20% with 1% concentration	Metre	47.98
2.35.3	Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm dia holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the existing floor:		
2.35.3.1	With Chlorpyrifos/Lindane E.C. 20% with 1% concentration	Sqm	267.65
2.35.4	Treatment of existing masonry using chemical emulsion @ one litre per hole at 300 mm interval including drilling holes at 45 degree and plugging them with cement mortar 1:2 (1 cement : 2 coarse sand) to the full depth of the hole :		
2.35.4.1	With Chlorpyrifos/Lindane E.C. 20% with 1% concentration	Metre	38.18
2.35.5	Treatment at points of contact of wood work by chemical emulsion Chlorpyrifos/ Lindane (in oil or kerosene based solution) @ 0.5 litres per hole by drilling 6 mm dia holes at downward angle of 45 degree at 150 mm centre to centre and sealing the same.	Metre	323.91
2.36	Extra for levelling & neatly dressing of disposed soil completely as directed by Engineer-in-charge.	Cum	77.47
2.37	Supply and stacking of Fly ash conforming to IRC- 58 at site, including carriage, loading , unloading & stacking up to any lead (measured stacks will be reduced by 20% for payment).	Cum	263.61
2.38	Filling with available fly ash and earth (excluding rock) in trenches or embankment in layers (each layer should not exceed 15 cm), with intermediate layer of compacted earth (Soil density of 98%) after every four layers of compacted depth of fly ash, sides & top layer of filling shall be done with earth having total minimum compacted thickness 30 cm or as decided by Engineer - in-charge, including compacting each layer by rolling/ ramming and watering, all complete as per drawing and direction of Engineer -in - charge.	Cum	255.23

**SUB HEAD - 3.0
MORTAR**

Sl No.	Description of Item	Unit	Amount in Rs.
3.1	Cement mortar 1:1 (1 cement : 1 fine sand)	Cum	18468.86
3.2	Cement mortar 1:2 (1 cement : 2 fine sand).	Cum	13116.87
3.3	Cement mortar 1:3 (1 cement : 3 fine sand).	Cum	10442.39
3.4	Cement mortar 1:4 (1 cement : 4 fine sand).	Cum	8297.15
3.5	Cement mortar 1:5 (1 cement : 5 fine sand).	Cum	7141.71
3.6	Cement mortar 1:6 (1 cement : 6 fine sand).	Cum	6150.9
3.7	Cement mortar 1:2 (1 cement : 2 coarse sand).	Cum	13116.87
3.8	Cement mortar 1:3 (1 cement : 3 coarse sand).	Cum	10442.39
3.9	Cement mortar 1:4 (1 cement : 4 coarse sand).	Cum	8297.15
3.10	Cement mortar 1:5 (1 cement : 5 coarse sand).	Cum	7141.71
3.11	Cement mortar 1:6 (1 cement : 6 coarse sand).	Cum	6150.9
3.12	Cement mortar 1:2 (1 cement : 2 stone dust).	Cum	12887.6
3.13	Cement mortar 1:2 (1 cement : 2 marble dust).	Cum	13266.35
3.14	Cement mortar 1:5 (1 cement : 5 marble dust).	Cum	8024.45
3.15	White cement mortar 1:2 (1 white cement : 2 marble dust).	Cum	34748.04
3.16	White cement mortar 1:3 (1 white cement : 3 marble dust).	Cum	26960.94
3.17	White cement mortar 1:5 (1 white cement : 5 marble dust).	Cum	17528.55
3.18	Mud mortar	Cum	1166.55
3.19	Mortar in lime, surkhi (50% red and 50% light yellow) and marble dust 1:1.5:0.6	Cum	5109.59

**SUB HEAD - 4.0
CONCRETE WORK**

SI No.	Description of Item	Unit	Amount in Rs.
4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :		
4.1.2	1:1½:3 (1 Cement: 1½ coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	Cum	10677.72
4.1.2A	1:1.5:3 (1 Cement: 1.5 coarse sand (zone-III) including manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 25% : 3 graded stone aggregate 20 mm nominal size including Recycled Concrete Aggregate (RCA) upto 25%).	Cum	10694.89
4.1.3	1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	Cum	9432.39
4.1.3A	1:2:4 (1 cement : 2 coarse sand (zone-III) including manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 25% : 4 graded stone aggregate 20 mm nominal size including Recycled Concrete Aggregate (RCA) upto 25%)	Cum	10052.53
4.1.4	1:2:4 (1 Cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 40 mm nominal size derived from natural sources)	Cum	9250.59
4.1.5	1:3:6 (1 Cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources)	Cum	7795.18
4.1.5A	1:3:6 (1 Cement : 3 manufactured sand derived from Recycled Concrete Aggregate (RCA) : 6 graded stone aggregate 20 mm nominal size Recycled Concrete Aggregate (RCA))	Cum	7604.29
4.1.5B	1:3:6 (1 cement : 3 manufactured sand derived from Recycled concrete Aggregate (RCA) : 6 graded stone aggregate 20 mm nominal size Recycled Aggregate (RA))	Cum	7632.57
4.1.6	1:3:6 (1 Cement : 3 coarse sand (zone-III) derived from natural sources : 6 gradedstone aggregate 40 mm nominal size derived from natural sources)	Cum	7572.98
4.1.6A	1:3:6 (1 Cement : 3 manufactured sand derived from Recycled Concrete Aggregate (RCA) : 6 graded stone aggregate 40 mm nominal size Recycled Aggregate (RA))	Cum	7075.05
4.1.8	1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	Cum	6755.89

SI No.	Description of Item	Unit	Amount in Rs.
4.1.8A	1:4:8 (1 cement : 4 manufactured sand derived from Recycled Concrete Aggregate (RCA) : 8 graded stone aggregate 40 mm nominal size Recycled Aggregate (RA)	Cum	6277.15
4.1.10	1:5:10 (1 cement : 5 coarse sand (zone-III) derived from natural sources : 10 graded stone aggregate 40 mm nominal size derived from natural sources)	Cum	6102.42
4.1.10A	1:5:10 (1 cement : 5 manufactured sand derived from Recycled Concrete Aggregate (RCA) : 10 graded stone aggregate 40 mm nominal size Recycled Aggregate (RA)	Cum	5616.61
4.1.11	1:5:10 (1 cement : 5 fine sand derived from natural sources : 10 graded stone aggregate 40 mm nominal size derived from natural sources)	Cum	6085.25
4.1.12	1:2:3½:9 (1 ordinary portland cement : 2 Fly ash : 3½ coarse sand (zone-III) : 9 graded stone aggregate 40 mm nominal size)	Cum	6706.40
4.1.12A	1:2:3½:9 (1 ordinary portland cement : 2 Fly ash : 3½ manufactured sand derived from Recycled Concrete Aggregate (RCA) : 9 graded stone aggregate 40 mm nominal size Recycled Aggregate (RA))	Cum	5567.12
4.1.13	1:2½:4:11 (1 ordinary portland cement : 2½ fly ash : 4 coarse sand(zone-III) derived from natural sources : 11 graded stone aggregate 40 mm nominal size derived from natural sources)	Cum	6020.61
4.1.13A	1:2½:4:11 (1 ordinary portland cement : 2½ fly ash : 4 manufactured sand derived from Recycled Concrete Aggregate (RCA) :11 graded stone aggregate 40 mm nominal size Recycled Aggregate (RA))	Cum	5534.80
4.2	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc., up to floor five level, excluding the cost of centering, shuttering and finishing:		
4.2.2	1:1½:3 (1 cement : 1½ coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size).	Cum	12644.19
4.2.2A	1:1½:3 (1 cement : 1½ coarse sand (zone-III) including manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 25% : 3 graded stone aggregate 20 mm nominal size including Recycled Concrete Aggregate (RCA) upto 25%)).	Cum	12782.56
4.2.3	1:2:4 (1 Cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	Cum	11411.99
4.2.3A	1:2:4 (1 Cement : 2 coarse sand (zone-III) including manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 25% : 4 graded stone aggregate 20 mm nominal size including Recycled Concrete Aggregate (RCA) upto 25%)).	Cum	11537.23

SUB HEAD - 4.0 CONCRETE WORK

SI No.	Description of Item	Unit	Amount in Rs.
4.2.5	1:3:6 (1 cement : 3 coarse sand (zone-III) : 6 graded stone aggregate 20 mm nominal size)	Cum	9867.70
4.2.5A	1:3:6 (1 cement : 3 manufactured sand derived from Recycled Concrete Aggregate (RCA) : 6 graded stone aggregate 20 mm nominal size Recycled Concrete Aggregate (RCA))	Cum	10016.17
4.2.5B	1:3:6 (1 cement : 3 manufactured sand derived from Recycled Concrete Aggregate (RCA) : 6 graded stone aggregate 20 mm nominal size Recycled Aggregate (RA))	Cum	9263.72
4.2.8	1:5:10 (1 cement : 5 coarse sand (zone-III) : 10 graded stone aggregate 40 mm nominal size).	Cum	8160.80
4.2.8A	1:5:10 (1 cement : 5 manufactured sand derived from Recycled Concrete Aggregate (RCA) : 10 graded stone aggregate 40 mm nominal size Recycled Aggregate (RA)) (RCA) : 6 graded stone aggregate 20 mm nominal size Recycled Aggregate (RA))	Cum	7695.19
4.3	Centering and shuttering including strutting, propping etc. and removal of form work for :		
4.3.1	Foundations, footings, bases for columns	Sqm	361.26
4.3.2	Retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc.	Sqm	749.83
4.3.3	Columns, piers, abutments, pillars, posts and struts	Sqm	907.43
4.4	Providing and laying cement concrete in kerbs, steps and the like at or near ground level excluding the cost of centering, shuttering and finishing.		
4.4.1	1:1½:3 (1 Cement: 1½ coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size)	Sqm	10677.72
4.4.1A	1:1.5:3 (1 cement: 1.5 coarse sand (zone-III) including manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 25% : 3 graded stone aggregate 20 mm nominal size including Recycled Concrete Aggregate (RCA) upto 25%)).	Cum	10694.89
4.5	Providing and fixing up to floor five level precast cement concrete string or lacing courses, copings, bed plates, anchor blocks, plain window sills, shelves, louvers, steps, stair cases, etc., including hoisting and setting in position with cement mortar 1:3 (1 Cement : 3 coarse sand), cost of required Centering complete.		
4.5.1	1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20mm nominal size)	Cum	12359.31
4.5.1A	1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) including manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 25% : 3 graded stone aggregate 20mm nominal size including Recycled Concrete Aggregate (RCA) upto 25%))	Cum	12377.09
4.6	Providing and fixing at or near ground level precast cement concrete in kerbs, edgings etc. as per approved pattern and setting in position with cement mortar 1:3 (1 Cement : 3 coarse sand), including the cost of required centering, shuttering complete.		

SI No.	Description of Item	Unit	Amount in Rs.
4.6.1	1:1½:3 (1 Cement: 1½ coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size).	Cum	11161.98
4.6.1A	1:1.5:3 (1 Cement: 1.5 coarse sand (zone-III) including manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 25% : 3 graded stone aggregate 20 mm nominal size including Recycled Concrete Aggregate (RCA) upto 25%))	Cum	14904.87
4.7	Providing and fixing up to floor five level precast cement concrete solid block, including hoisting and setting in position with cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering, shuttering complete :		
4.7.1	1:1½:3 (1 Cement: 1½ coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size).	Cum	19534.88
4.7.1A	1:1.5:3 (1 Cement: 1.5 coarse sand (zone-III) including manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 25% : 3 graded stone aggregate 20 mm nominal size including (Recycled Concrete Aggregate (RCA) upto 25%)).	Cum	19175.70
4.8	Providing and fixing up to floor five level precast cement concrete hollow block, including hoisting and setting in position with cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering, shuttering complete.		
4.8.1	1:1½:3 (1 Cement: 1½ coarse sand (zone-III): 3 graded stone aggregate 20 mm nominal size)	Cum	14853.40
4.8.1A	1:1.5:3 (1 Cement: 1.5 coarse sand (zone-III) ncluding manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 25% : 3 graded stone aggregate 20 mm nominal size including (Recycled Concrete Aggregate (RCA) upto 25%)).	Cum	14853.20
4.9	Precasting and placing in position 125 mm dia Bollards 600 mm high of required shape including providing M.S. Pipe Sleeve 50 mm dia 300 mm long in the Bollard and M.S. Pipes 40 mm dia and 450mm long with 150x150x6mm M.S. plate welded at bottom and embedded 150mm in cement concrete 1:3:6 (1 Cement : 3 coarse sand (zone-III) : 6 graded stone aggregate 20 mm nominal size), including necessary excavation of size 250x250x450mm deep for the same in bitumen/ concrete pavement at specified spacing.	Each	823.51
4.9A	Precasting and placing in position 125 mm dia Bollards 600 mm high of required shape including providing M.S. Pipe Sleeve 50 mm dia 300 mm long in the Bollard and M.S. Pipes 40 mm dia and 450mm long with 150x150x6mm M.S. plate welded at bottom and embedded 150mm in cement concrete 1:3:6 (1 Cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources), including necessary excavation of size 250x250x450mm deep for the same in bitumen/concrete pavement at specified spacing.	Each	1059.51

SI No.	Description of Item	Unit	Amount in Rs.
4.9B	Precasting and placing in position 125 mm dia Bollards 600 mm high of required shape including providing M.S. Pipe Sleeve 50 mm dia 300 mm long in the Bollard and M.S. Pipes 40 mm dia and 450mm long with 150x150x6mm M.S. plate welded at bottom and embedded 150mm in cement concrete 1:3:6 (1 Cement : 3 manufactured sand derived from Recycled Concrete Aggregate (RCA) : 6 graded stone aggregate 20 mm nominal size (Recycled Aggregate (RA), including necessary excavation of size 250x250x450mm deep for the same in bitumen/ concrete pavement at specified spacing	Each	1076.51
4.10	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 12.5mm nominal size derived from natural sources)	Sqm	474.87
4.10A	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III) including manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 25% : 4 graded stone aggregate 12.5mm nominal size including (Recycled Concrete Aggregate (RCA) upto 25%))	Sqm	499.67
4.11	Providing and laying damp-proof course 50mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand(zone-III) : 4 graded stone aggregate 20mm nominal size).	Sqm	573.71
4.11A	Providing and laying damp-proof course 50mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III) ncluding manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 25% : 4 graded stone aggregate 20mm nominal size including (Recycled Concrete Aggregate (RCA) upto 25%))	Sqm	604.81
4.12	Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification.	Per bag	79.79
4.13	Providing & applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7kg per square metre on damp proof course after cleaning the surface with brushes and finally with apiece of cloth lightly soaked in kerosene oil.	Sqm	205.03
4.14	Extra for concrete work in superstructure above floor V level for each four floors or part thereof.	Cum	1270.58
4.15	Extra for laying concrete in or under water and/or liquid mud including cost of pumping or bailing out water and removing slush etc. complete.	Metre	914.29
4.16	Extra for laying concrete in or under foul positions.	Cum	387.84

SI No.	Description of Item	Unit	Amount in Rs.
4.17	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.	Sqm	724.27
4.17A	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 manufactured sand derived from Recycled Concrete Aggregate (RCA) : 6 graded stone aggregate 20 mm nominal size Recycled Concrete Aggregate (RCA) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth	Sqm	726.80
4.17B	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 manufactured sand derived from Recycled Concrete Aggregate (RCA) : 6 graded stone aggregate 20 mm nominal size Recycled Concrete Aggregate (RCA) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth	Sqm	714.37
4.18	Extra for addition of synthetic Polyester triangular fibre of length 12mm, effective diaMetre 10-40 microns and specific gravity of 1.34 to 1.40 in cement concrete/RCC/Flooring/water retaining structures by using 125gms of synthetic Polyester triangular fibre for 50 Kg cement used as per directions of Engineer-in-Charge.	Per bag	72.72
4.20	<p>Providing and laying in position ready mixed plain cement concrete, using fly ash and cement content as per approved design mix and manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for plain cement concrete work, including pumping of R.M.C. from transit mixer to site of laying and curing, excluding the cost of centering, shuttering and finishing, including cost of curing, admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer-in-charge.</p> <p>Note : (1) Excess/less cement used than specified in this item is payable/ recoverable separately.</p> <p>(2) Fly ash conforming to grade I of IS 3812 (Part-1) only be used as part replacement of OPC as per IS : 456. Uniform blending with cement is to be ensured in accordance with clauses 5.2 and 5.2.1 of IS: 456 -2000 in the items of BMC and RMC.</p>		
4.20.1	All works upto plinth level:		
4.20.1.1	Concrete of M10 grade with minimum cement content of 220 kg /cum	Cum	9205.14
4.20.1.2	Concrete of M15 grade with minimum cement content of 240 kg /cum	Cum	9545.51
4.20.1.3	Concrete of M20 grade with minimum cement content of 270 kg /cum	Cum	10057.58
4.20.1.4	Concrete of M25 grade with minimum cement content of 300 kg /cum	Cum	10206.05
4.20.2	All works above plinth and upto floor V level :		

SI No.	Description of Item	Unit	Amount in Rs.
4.20.2.1	Concrete of M10 grade with minimum cement content of 220 kg /cum	Cum	10763.57
4.20.2.2	Concrete of M15 grade with minimum cement content of 240 kg /cum	Cum	10825.18
4.20.2.3	Concrete of M20 grade with minimum cement content of 270 kg /cum	Cum	11337.25
4.20.2.4	Concrete of M25 grade with minimum cement content of 300 kg /cum	Cum	11848.31

SUB HEAD - 5.0
REINFORCED CEMENT CONCRETE

SI No.	Description of Item	Unit	Amount in Rs.
5.1	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :		
5.1.2	1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	Cum	11277.66
5.1.3	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	Cum	10032.33
5.1.3A	1:2:4 (1 cement : 2 coarse sand including manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 20% : 4 graded stone aggregate 20 mm nominal size of Recycled Concrete Aggregate (RCA) upto 20%).	Cum	10042.43
5.2	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement :		
5.2.2	1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size)	Cum	13100.73
5.3	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size).	Cum	13630.96
5.4	Providing and laying up to floor five level reinforced cement concrete in kerbs, steps and the like excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size).	Cum	12692.96
5.5	Reinforced cement concrete work in arches, archribs, domes, vaults, shells, folded plate and roofs having slope more than 15° up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size).	Cum	14278.82
5.6	Reinforced cement concrete work in chimneys, shafts, up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size).	Cum	13321.19

SI No.	Description of Item	Unit	Amount in Rs.
5.7	Reinforced cement concrete work in well-steining, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size).	Cum	10745.68
5.8	Reinforced cement concrete work in vertical and horizontal fins individually or forming box louvers, facias and eaves boards above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1½:3 (1 cement : 1½ coarse sand(zone-III) : 3 graded stone aggregate 20mm nominal size).	Cum	12279.15
5.9	Centering and shuttering including strutting, propping etc. and removal of form for		
5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	Sqm	361.26
5.9.2	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	Sqm	749.83
5.9.3	Suspended floors, roofs, landings, balconies and access platform	Sqm	871.60
5.9.4	Shelves (Cast in situ)	Sqm	871.60
5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers	Sqm	710.36
5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm	907.43
5.9.7	Stairs, (excluding landings) except spiral-staircases	Sqm	1050.82
5.9.8	Spiral staircases (including landing)	Sqm	1103.12
5.9.9	Arches, domes, vaults up to 6 m span	Sqm	2719.86
5.9.10	Extra for arches, domes, vaults exceeding 6 m span	Sqm	1362.55
5.9.11	Chimneys and shafts	Sqm	749.83
5.9.12	Well steining	Sqm	1146.90
5.9.13	Vertical and horizontal fins individually or forming box louvers band, facias and eaves boards	Sqm	1578.52
5.9.15	Small lintels not exceeding 1.5 m clear span, moulding as in cornices, window sills, string courses, bands, copings, bed plates, anchor blocks and the like	Sqm	361.26
5.9.16	Edges of slabs and breaks in floors and walls		
5.9.16.1	Under 20 cm wide	Metre	314.45
5.9.16.2	Above 20 cm wide	Sqm	1384.96
5.9.17	Cornices and mouldings	Sqm	1472.33
5.9.18	Small surfaces such as cantilever ends, brackets and ends of steps, caps and bases to pilasters and columns and the like	Sqm	1254.80
5.9.19	Weather shade, Chajjas, corbels etc., including edges	Sqm	1269.38
5.9.20	Suspended floors, roofs, landings, balconies and access platform. with water proof ply 12 mm thick	Sqm	976.06
5.9.21	Lintels, beams, plinth beams, girders, bressumers and cantilevers. with water proof ply 12 mm thick	Sqm	826.36
5.10	Providing and fixing tie bolt, spring coil and plastic cone in wall shuttering complete as per the direction of Engineer-in-charge.		
5.10.1	12 mm dia. & 100 mm length	Each set	336.54
5.10.2	12 mm dia. & 150 mm length	Each set	352.11
5.10.3	20 mm dia. & 150 mm length	Each set	208.27
5.10.4	20 mm dia.& 225 mm length	Each set	223.88

SI No.	Description of Item	Unit	Amount in Rs.
5.11	Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc., including cost of de-shuttering and decentering at all levels, over a height of 3.5 m, for every additional height of 1 metre or part thereof (Plan area to be measured).		
5.11.1	Suspended floors, roofs, landing, beams and balconies (Plan area to be measured)	Sqm	338.70
5.12	Providing, hoisting and fixing above plinth level up to floor five level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like, including the cost of required centering, shuttering but , excluding cost of reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size).	Cum	12783.20
5.13	Providing, hoisting and fixing up to floor five level precast reinforced cement concrete in small lintels not exceeding 1.5m clear span up to floor five level, including the cost of required centering, shuttering but , excluding the cost of reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size).	Cum	17059.63
5.14	Providing, hoisting and fixing above plinth level up to floor five level precast reinforced cement concrete in mouldings as in cornices, windows sills etc, including setting in cement mortar 1:3 (1 cement : 3 coarse sand) cost of required centering, shuttering but, excluding the cost of reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size).	Cum	19713.33
5.15	Providing, hoisting and fixing above plinth level up to floor five level precast reinforced cement concrete in lintels, beams and bressumers, including setting in cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering and shuttering but , excluding the cost of reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size)	Cum	15986.22
5.16	Providing, hoisting and fixing above plinth level up to floor five level precast reinforced cement concrete in shelves, including setting in cement mortar 1:3 (1cement : 3 coarse sand), cost of required centering, shuttering and finishing with neat cement punning on exposed surfaces but , excluding the cost of reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size).	Cum	24693.83
5.17	Providing, hoisting and fixing above plinth level up to floor five level precast reinforced cement concrete in vertical & horizontal fins, individually or forming box louvers, setting in cement mortar 1:2 (1 cement : 2 coarse sand), including the cost of required centering, shuttering but , excluding the cost of reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size).	Cum	14103.38

SI No.	Description of Item	Unit	Amount in Rs.
5.18	Providing precast cement concrete Jali 1:2:4 (1 cement : 2 coarse sand(zone-III) : 4 graded stone aggregate 6mm nominal size), reinforced with 1.6 mm dia mild steel wire, including centering and shuttering, roughening cleaning, fixing and finishing in cement mortar 1:3 (1 cement: 3 fine sand) etc. complete, excluding plastering of the jambs, sills and soffits.		
5.18.1	50 mm thick	Sqm	2045.59
5.18.2	40 mm thick	Sqm	1855.88
5.18.3	25 mm thick	Sqm	1677.95
5.19	Encasing rolled steel sections, in beams and columns, with cement concrete 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size, including centering and shuttering complete but , excluding cost of reinforcement.	Cum	18154.79
5.20	Encasing rolled steel section in grillages with cement concrete 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III): 3 graded stone aggregate 20 mm nominal size, including centering and shuttering but, excluding cost of expanded metal and hangers.	Cum	11912.93
5.21	Extra for providing and fixing expanded metal mesh of size 20x60 mm and strands 3.25 mm wide 1.6 mm thick weighing 3.64 kg per sqm for encasing of rolled steel sections in beams, columns and grillages, excluding cost of hangers.	Sqm	655.09
5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.		
5.22.1	Mild steel and Medium Tensile steel bars	Kg	125.94
5.22.2	Hard drawn steel wire	Kg	108.49
5.22.3	Cold twisted bars	Kg	129.01
5.22.4	Hot rolled deformed bars	Kg	129.01
5.22.5	Hard drawn steel wire fabric	Kg	109.95
5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	129.01
5.22 A	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.		
5.22A.1	Mild steel and Medium Tensile steel bars	Kg	125.94
5.22A.2	Hard drawn steel wire	Kg	108.49
5.22A.3	Cold twisted bars	Kg	129.01
5.22A.4	Hot rolled deformed bars	Kg	129.01
5.22A.5	Hard drawn steel wire fabric	Kg	109.95
5.22A.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	129.01
5.22B	Steel reinforcement for R.C.C. work ready to use "cut and bend" rebars of approved make from factory/workshop to construction site including placing in position and binding all complete upto plinth level.		
5.22B.1	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	121.60

SI No.	Description of Item	Unit	Amount in Rs.
5.22C	Steel reinforcement for R.C.C. work ready to use "cut and bend" rebars of approved make from factory/workshop to construction site including placing in position and binding all complete above plinth level.		
5.22C.1	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	121.60
5.23	Smooth finishing of the exposed surface of R.C.C. work with 6 mm thick cement mortar 1:3 (1 Cement : 3 fine sand).	Sqm	337.14
5.24	Extra for rendering smooth the top of suspended floors, landings and staircases (treads and risers) with cement mortar 1:2 (1 cement : 2 coarse sand), including a floating coat of neat cement and protecting the surface with a layer of 7.5 cm of earth laid over 15 mm of fine sand in case of suspended floor and bricks laid in mud mortar in case of landings and steps, including subsequent removal and cleaning of the same.	Sqm	195.44
5.25	Providing and fixing in position copper plate as per design for expansion joints.	Kg	1097.99
5.26	Providing and filling in position, blown bitumen in expansion joints.	Cum	79084.35
5.27	Providing and filling in position bitumen mix filler of Proportion 80 kg. of hot bitumen, 1 kg. of cement and 0.25 cubic metre of coarse sand for expansion joints.	Cum	35387.71
5.28	Providing and fixing in position 12mm thick bitumen impregnated fiber board conforming to IS: 1838, including cost of primer, sealing compound Grade-A in expansion joints.	Cost per cm depth per 100m long	882.13
5.29	Providing and fixing sheet covering over expansion joints with iron screws as per design.		
5.29.1	Non-asbestos fibre cement board 6 mm thick as per IS: 14862.		
5.29.1.1	150mm wide	Metre	257.21
5.29.1.2	200mm wide	Metre	345.76
5.29.2	Aluminium fluted strips 3.15 mm thick.		
5.29.2.1	150 mm wide	Metre	645.39
5.29.2.2	200 mm wide	Metre	877.69
5.29.3	Cement bonded wood particle board 6mm thick as per IS : 14276		
5.29.3.1	150 mm wide	Metre	275.06
5.29.3.2	200 mm wide	Metre	369.66
5.30	Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.	Metre	72.08

SI No.	Description of Item	Unit	Amount in Rs.
5.31	Extra for laying reinforced cement concrete in or under water and/ or liquid mud, including cost of pumping or bailing out water and removing slush etc., complete. Note For Item No. 5.31:- The quantity will be calculated by multiplying the depth measured from the subsoil water level up to the centre of gravity of the R.C.C. under subsoil water with the quantity of R.C.C. in cubic metre executed under subsoil water. The depth of centre of gravity shall be reckoned correct to 0.1 m. 0.05 m or more shall be taken as 0.1 m and less than 0.05 m ignored. No extra payment shall be made for placing reinforcement or centering & shuttering under sub - soil water conditions.	Metre	914.29
5.32	Extra for laying reinforced cement concrete in or under foul positions.	Cum	387.84
5.33	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. (Note :- Cement content considered in this item is @ 330 kg/cum. Excess/ less cement used as per design mix is payable/recoverable separately).		
5.33.1	All works upto plinth level		
5.33.1.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	Cum	11135.25
5.33.1.2	Concrete of M30 grade with minimum cement content of 350 kg /cum	Cum	11476.63
5.33.1.3	Concrete of M35 grade with minimum cement content of 370 kg /cum	Cum	11817.00
5.33.1.4	Concrete of M40 grade with minimum cement content of 390 kg/cum	Cum	12158.38
5.33.1.5	Concrete of M50 grade with minimum cement content of 410 kg/cum	Cum	12499.76
5.33.2	All works above plinth level upto floor V level		
5.33.2.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	Cum	12727.01
5.33.2.2	Concrete of M30 grade with minimum cement content of 350 kg /cum	Cum	13067.38
5.33.2.3	Concrete of M35 grade with minimum cement content of 370 kg /cum	Cum	13408.76
5.33.2.4	Concrete of M40 grade with minimum cement content of 390 kg /cum	Cum	13750.14
5.33.2.5	Concrete of M50 grade with minimum cement content of 410 kg /cum	Cum	14090.51
5.34	Extra for providing richer mixes at all floor levels. Note:- Excess/less cement over the specified cement content used is payable / recoverable separately.		
5.34.1	Providing M-30 grade concrete instead of M-25 grade BMC/ RMC. (Note:- Cement content considered in M-30 is @ 340 kg/cum)	Cum	170.69
5.34.2	Providing M-35 grade concrete instead of M-25 grade BMC/ RMC. (Note : Cement content considered in M-35 is @ 350 kg/ cum)	Cum	341.38
5.34.3	Providing M-40 grade concrete instead of M-25 grade BMC/ RMC.(Note : Cement content considered in M-40 is @ 360 kg/ cum)	Cum	512.07
5.35	Add for using extra cement in the items of design mix over and above the specified cement content therein.	Quintal	1650.34

SI No.	Description of Item	Unit	Amount in Rs.
5.36	Providing and placing in position precast reinforced cement concrete waffle units, square or rectangular, as per design and shape for floors and roofs in 1:1½:3 (1 Cement : 1½ coarse sand (zone-III) : 3 graded stone aggregate 10 mm nominal size), including flush or deep ruled pointing at joints in Cement mortar 1:2 (1 Cement : 2 Fine sand), making necessary holes of required sizes for carrying through service lines etc., providing steel hooks for lifting etc, form work in precasting, handling, hoisting, centering and erection complete for all floor levels but, excluding the cost of reinforcement.	Cum	33670.34
5.37	Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of R.M.C. from transit mixer to site of laying , excluding the cost of centering, shuttering finishing and reinforcement, including cost of admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer-in-charge. (Note :- Cement content considered in this item is @ 330 kg/cum.Excess/less cement used as per design mix is payable/recoverable separately).		
5.37.1	All works upto plinth level	Cum	11647.32
5.37.2	All works above plinth level upto floor V level	Cum	13239.08
5.38	Extra for R.C.C./ B.M.C/ R.M.C. work above floor V level for each four floors or part thereof.	Cum	363.60
5.40	Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work, using fly ash and cement content as per approved design mix, and manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of R.M.C. from transit mixer to site of laying, excluding the cost of centering, shuttering, finishing and reinforcement, including cost of admixtures in recommended proportions as per IS : 9103 to accelerate / retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge.		
NOTE-(1)	Cement content considered in this item is @ 330 kg/cum. Excess/ less cement used as per design mix is payable/ recoverable separately. (2) Fly ash conforming to grade I of IS 3812 (Part-1) only be used as part replacement of OPC as per IS : 456. Uniform blending with cement to be ensured in accordance with clauses 5.2 and 5.2.1 of IS:456 -2000 in the items of BMC and RMC.		
5.40.1	All works up to Plinth level.	Cum	11539.25
5.40.2	All works above plinth & up to floor V level.	Cum	13130.00

SI No.	Description of Item	Unit	Amount in Rs.
5.41	Supplying and applying pre tested and approved water based concrete curing compound to concrete/ masonry surface, all as per manufacturer's specification and direction of Engineer-in-charge.		
5.41.1	Non pigmented wet curing compound	Sqm	68.48
5.42	Providing and fixing parallel threaded couplers conforming to IS code on "Reinforcement Couplers for Mechanical Splices of Bars for Concrete Reinforcement - Specification", to reinforcement bars including threading, enlargement at connection by forging, protecting the prepared reinforcement bars and related operations as required to complete the works per direction of Engineer- in-Charge.		
5.42.1	Coupler for 16 mm diaMetre reinforcement bar	Each	141.40
5.42.2	Coupler for 20 mm diaMetre reinforcement bar	Each	195.94
5.42.3	Coupler for 25 mm diaMetre reinforcement bar		276.74
5.42.4	Coupler for 28 mm diaMetre reinforcement bar	Each	323.20
5.42.5	Coupler for 32 mm diaMetre reinforcement bar	Each	385.82
5.43	Providing and fixing in position Stainless steel Grade 304 plate-1.0 mm thick as per design for expansion joints.		
5.43.1	200 mm wide.	Metre	944.35
5.43.2	300 mm wide.	Metre	1338.25
5.44	Providing and fixing of expansion joint system related with floor location as per drawings and direction of Engineer-In-Charge. The joints system will be of extruded aluminum base members, self aligning / self centering arrangement and support plates etc. as per ASTM B221-02. The system shall be such that it provides floor to floor /floor to wall expansion control system for various vertical localtion in load application areas that accommodates multi directional seismic movement without stress to it's components. System shall consist of metal profiles with a universal aluminum base member designed to accommodate various project conditions and finish floor treatments. The cover plate shall be designed of width and thickness required to satisfy projects movement and loading requirements and secured to base members by utilizing manufacturer's pre-engineered self- centering arrangement that freely rotates / moves in all directions. The Self - centering arrangement shall exhibit circular sphere ends that lock and slide inside the corresponding aluminum extrusion cavity to allow freedom of movement and flexure in all directions including vertical displacement. Provision of Moisture Barrier Membrane in the Joint System to have watertight joint is mandatory requirement all as per the manufactures design and as approved by Engineer -in-Charge. (Material shall confirm to ASTM 6063).		
5.44.1	Floor Joint of 100 mm gap	Metre	9005.16
5.44.2	Floor Joint of 150 mm gap	Metre	10702.97
5.44.3	Floor Joint of 200 mm gap	Metre	13246.15

SI No.	Description of Item	Unit	Amount in Rs.
5.45	Providing and fixing of expansion joint system related with wall joint (internal/ external) location as per drawings and direction of Engineer-In- Charge. The joints shall be of extruded aluminum base members, self aligning / centering arrangement and support plates as per ASTM B221- 02. The material shall be such that it provides an Expansion Joints System suitable for vertical wall to wall/ wall to corner application, both new and existing construction in office Buildings & complexes with no slipping down tendency amongst the components of the Joint System. The Joint System shall utilize light weight aluminum profiles exhibiting minimal exposed aluminum surfaces mechanically snap locking the multicellular to facilitate movement. (Material shall confirm to ASTM 6063).		
5.45.1	Wall Joint of 100 mm gap	Metre	7965.87
5.45.2	Wall Joint of 150 mm gap	Metre	8824.37
5.45.3	Wall Joint of 200 mm gap	Metre	9979.81
5.46	Providing and fixing of expansion joint system of approved make and manufactures for various roof locations as per approved drawings and direction of Engineer-In-Charge. The joints shall be of extruded aluminum base members with, self aligning and self centering arrangement support plates asper ASTM B221-02. The system shall be such that it provides watertight roof to roof/roof to corner joint cover expansion control system that is capable of accommodating multidirectional seismic movement without stress to its components. System shall consist of metal profile that incorporates a universal aluminum base member designed to accommodate various project conditions and roof treatments. The cover plate shall be designed of width and thickness required to satisfy movement and loading requirements and secured to base members by utilizing manufacturer's pre- engineered self-centering arrangement that freely rotates / moves in all directions. The Self centering arrangement shall exhibit circular sphere ends that lock and slide inside the corresponding aluminum extrusion cavity to allow freedom of movement and flexure in all directions including vertical displacement. The Joint System shall resists damage or deterioration from the impact of falling ice, exposure to UV, airborne contaminants and occasional foot traffic from maintenance personnel. Provision of Moisture Barrier Membrane in the Joint System to have water tight joint is mandatory requirement. (Material shall confirm to ASTM 6063).		
5.46.1	Roof Joint of 100 mm gap	Metre	8666.81
5.46.2	Roof Joint of 150 mm gap	Metre	9348.56
5.46.3	Roof Joint of 200 mm gap	Metre	10875.68

SI No.	Description of Item	Unit	Amount in Rs.
5.47	Providing and fixing in position factory made precast RCC M-40 fixing with hold fast embedded in 1:3:6 concrete block for doors and windows frames having excellent smooth finish as per IS: 6523 with reinforcement of 3 Nos, 6 mm dia main bars tied with 3 mm M.S stirrups placed @ 200 mm C/C and 6 numbers high strength polymer blocks of required size for fixing hinges including providing 6 no specially designed M.S. galvanised sleeves for accomodating 6 mm dia fully threaded bolts for fixing hold fast on vertical members, providing suitable arrangement for recieving sliding door bolts and tower bolt etc. all complete, as per the direction of Engineer-in-charge. The frame shall be measured in running metre correct to two places of decimal.		
5.47.1	Door frame 125 mmx 60 mm	Metre	993.45
5.47.2	Door frame 100 mmx 60 mm	Metre	828.13
5.47.3	Door frame 85 mmx60 mm	Metre	786.12
5.48	Providing and laying Reinforced cement concrete for construction of piers, abutments, portal frames, pier caps and bearing pedestals and seismic arresters over pier/ abutment caps at all locations with specified grade using Ordinary Portland Cement (conforming to strength requirement of IS:8112) including the cost of steel centering and shuttering etc. complete, including testing of materials etc. for casting pier & pier cap in one/two stage, necessary tools, plants, machinery and all related operations as required to complete the work as per drawings and Specifications with all leads, lifts and depths true to level and position but excluding the cost of providing reinforcement. Reinforcement shall be measured and paid separately. Note:- Cement content considered in this item is 480 Kg./ Cum. Excess/ less cement used as per design mix is payable/ recoverable separately.		
5.48.1	Reinforced Cement Concrete -M-50	Cum	12384.15
5.48.2	Reinforced Cement Concrete -M-60	Cum	13726.54
5.48.3	Extra for using M-50/ M-60 Grade Self-compacting Cement Concrete	Cum	1011.01
5.48.3X	M 60 grade Self-compacting Reinforced Cement Concrete	Cum	14437.12
5.48X	Annexure for item 5.48.1, Providing M50 grade Reinforced Cement Concrete data for 120.00 cum	Cum	929366.50
5.48Y	Annexure for items 5.48.2 for using M 60 grade Self Compacting Reinforced cement concrete data for 120.00 cum	Cum	1030106.20
5.48Z	Annexure for items 5.48.3. Extra for using M 60 grade Self Compacting Reinforced cement concrete data for 120.00 cum	Cum	1083431.40

SI No.	Description of Item	Unit	Amount in Rs.
5.49	<p>Constructing cast-in situ RCC diaphragm wall by providing and laying machine batched, machine mixed, self compacting, ready mix reinforced cement concrete, tramie controlled, of M 30 grade using minimum 400 kg cement per cum of concrete including providing and mixing required admixtures in recommended proportions as per IS : 9103, as approved by the Engineer-in-charge, for achieving 150- 200mm slump, for diaphragm wall having thickness as per approved structural design not exceeding 600 mm, in pannels of required depth and lengths as per approved drawing, including constructing necessary guide walls as required and as specified including boring in all kinds of soils and rocks, including working in or under water and / or liquid mud, in foul conditions and pumping or bailing out of water and removing slush, including disposal of earth/ rock / slush etc. for all leads and all lifts, including preparing, providing and re-circulating bentonite slurry in the trench as and when required for all depths, including agitating bentonite slurry during trenching etc., providing and fixing stop ends or form tubes, upto the required depth of diaphragm wall including extracting the same after casting,</p> <p>including chipping off the bentonite adulterated concrete or unsound concrete up to the cut off level for obtaining the sound concrete, dressing undulations on the exposed face of diaphragm wall after excavation by chipping / chiseling etc. including filling the depression/ cavities with sound concrete etc. complete and as directed by the Engineer-in-charge, including providing recess for bearing plates and fixing insert boxes for inclined rock anchors etc.</p> <p>complete as per the specifications and approved design and as directed by the Engineer-in-charge, but excluding the cost of reinforcement and inserts. (rates include cost of all inputs of labour, material and T & P, cost of handling, lifting & placing in position the reinforcement cage in the trench, including the additional cost of welding the reinforcement bars etc. involved in the work and all other incidental expenditure for completing the work as directed by the Engineer-in-charge), However, the actual area of the diaphragm wall, correct to two places of decimal, from design bottom level to the design cut off level (including portion anchored in the rock upto the design bottom level) only shall be measured for payment. Excess/less cement used for design mix including the extra cement required for under water concreting is payable / recoverable separately.</p>	each.	23727.80

SUB HEAD - 6.0
MASONRY WORK

SI No.	Description of Item	Unit	Amount in Rs.
6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:		
6.1.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	Cum	10116.63
6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	9580.64
6.2	Brick work with common burnt clay modular bricks of class designation 7.5 in foundation and plinth in:		
6.2.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	Cum	7605.23
6.2.2	Cement Mortar 1:6 (1 cement : 6 coarse sand).	Cum	7132.22
6.3	Brick work with common burnt clay machine moulded perforated bricks of class designation 12.5 conforming to IS: 2222 in superstructure above plinth level up to floor five level in cement mortar 1:6 (1 cement : 6 coarse sand) :		
6.3.1	With F.P.S.(non modular) bricks	Cum	8458.53
6.3.2	With Modular bricks	Cum	8226.05
6.4	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :		
6.4.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	Cum	11791.21
6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	11254.21
6.5	Extra for brick work / AAC block masonry / Tile brick masonry in superstructure above floor V level, for each four floors or part thereof by mechanical means.	Cum	299.57
6.6	Extra for forming cavity 5 cm to 11.5 cm wide in cavity walls with necessary weep and vent holes including use of cores and cost of providing and fixing bitumastic coated M .S. ties 300 mm long of 25x3 mm section at not less than 3 ties per sqm as per approved design.	Sqm	237.96
6.7	Providing half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in cement mortar 1:3 (1 Cement : 3 coarse sand) in superstructure for closing cavity 5 to 7.5 cm wide in cavity wall complete with 10cm / 11.4 cm wide bitumen felt type 3 grade 1.	Metre	389.26
6.8	Brick work 7 cm thick with common burnt clay F.P.S. (non modular) brick of class designation 7.5 in cement mortar 1:3 (1 cement : 3 coarse sand) in superstructure above plinth level and upto floor five level.	Sqm	1102.24
6.9	Brick work in plain arches in superstructure above plinth level and upto floor five level including centering and shuttering complete for span up to 6 metres with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in cement mortar 1:3 (1 cement : 3 coarse sand).	Cum	18993.62

SI No.	Description of Item	Unit	Amount in Rs.
6.10	Brick work in gauged arches in superstructure above plinth level and upto floor five level in cement mortar 1:3 (1 cement : 3 coarse sand) including centering and shuttering complete, for span up to 6 Metres with common burnt clay F.P.S. (non modular) bricks of class designation 7.5.	Cum	22764.96
6.11	Extra for additional cost of centering for arches exceeding 6m span including all shuttering, bolting, wedging and removal (Area of the soffit to be measured).	Sqm	1280.74
6.12	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in :		
6.12.1	Cement mortar 1:3 (1 cement : 3 coarse sand)	Sqm	1269.68
6.12.2	Cement mortar 1:4 (1 cement : 4 coarse sand)	Sqm	1209.68
6.13	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.		
6.13.1	Cement mortar 1:3 (1 cement :3 coarse sand)	Sqm	1453.30
6.13.2	Cement mortar 1:4 (1 cement :4 coarse sand)	Sqm	1393.19
6.14	Extra for half brick masonry in superstructure, above floor V level for every four floors or part thereof by mechanical means.	Sqm	26.54
6.15	Extra for providing and placing in position 2 Nos 6mm dia. M.S. bars at every third course of half brick masonry.	Sqm	128.27
6.16	Tile brick masonry with common burnt clay F.P.S. (non modular) tile bricks of class designation 10 in foundation and plinth in:		
6.16.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	Cum	18367.00
6.16.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	18548.65
6.17	Tile brick masonry with common burnt clay machine moulded tile bricks of class designation 12.5 conforming to IS : 2690 (Part I) in foundation and plinth in cement mortar 1:6 (1 cement : 6 coarse sand).	Cum	10856.13
6.18	Tile brick masonry with common burnt clay F.P.S. (non modular) tile bricks of class designation 10 in superstructure above plinth level up to floor V level in cement mortar 1:6 (1 cement : 6 coarse sand).	Cum	19300.74
6.20	Tile brick masonry with common burnt clay F.P.S. (non modular) tile bricks of class designation 10 in plain arch work in superstructure above plinth and upto floor five level in cement mortar 1:4 (1 cement : 4 coarse sand) including centering and shuttering complete.	Cum	26737.39
6.21	Tile brick masonry with common burnt clay F.P.S. (non modular) tile bricks of class designation 10 in gauged arch work in superstructure above plinth and upto floor five level in cement mortar 1:4 (1 cement : 4 coarse sand) including centering and shuttering complete.	Cum	30463.28

SI No.	Description of Item	Unit	Amount in Rs.
6.22	Tile brick masonry work 5 cm thick with common burnt clay F.P.S. (non modular) tile bricks of class designation 10 in cement mortar 1:3 (1 cement : 3 coarse sand) in superstructure above plinth and upto floor five level.	Sqm	1261.94
6.23	Honey-comb brick work 10 / 11.4 cm thick with common burnt clay bricks of class designation 7.5 in super structure above plinth level upto floor V level with cement mortar 1:4 (1 cement : 4 coarse sand).	Sqm	894.81
6.24	Extra for laying brick work in or under water and/or liquid mud including cost of pumping or bailing out water and removing slush etc. complete. NOTE :- The quantity will be calculated by multiplying the depth measured from sub - soil water level up to the centre of gravity of brick work under sub - soil water with the quantity of brick work in cum. executed under the sub - soil water. The depth of centre of gravity shall be reckoned correct to 0.1 m, 0.05 m or more shall be taken as 0.1 m and less than 0.05 m ignored.	Metre	914.29
6.25	Extra for laying brick work in or under foul position.	Cum	387.84
6.26	Brick work with common burnt clay selected F.P.S. (non modular) bricks of class designation 7.5 in exposed brick work including making horizontal and vertical grooves 10 mm wide 12 mm deep complete in cement mortar 1:6 (1 cement : 6 coarse sand)		
6.26.1	From ground level upto plinth level	Cum	9778.60
6.26.2	Above plinth level upto floor V level	Cum	11538.02
6.27	Brick work with common burnt clay modular bricks of class designation 7.5 in exposed brick work including making horizontal and vertical grooves 10mm wide 12 mm deep complete in cement mortar 1:6 (1 cement : 6 coarse sand).		
6.27.1	From ground level upto plinth level	Cum	7185.75
6.27.2	Above plinth level upto floor V level	Cum	8860.33
6.28	Brick work with common burnt clay machine moulded modular bricks of class designation 12.5 in exposed brick work including making horizontal and vertical grooves 10 mm wide 12 mm deep complete in cement mortar 1:6 (1 cement : 6 coarse sand).		
6.28.1	From ground level upto plinth level	Cum	9561.27
6.28.2	Above plinth level upto floor V level	Cum	11235.85
6.29	Brick work with common burnt clay machine moulded F.P.S. (non modular) bricks of class designation 12.5 in exposed brick work including making horizontal and vertical grooves 10 mm wide 12 mm deep complete in cement mortar 1:6 (1 cement : 6 coarse sand).		
6.29.1	From ground level upto plinth level	Cum	7196.03
6.29.2	Above plinth level upto floor V level	Cum	8796.88

SI No.	Description of Item	Unit	Amount in Rs.
6.30	Brick work with common burnt clay machine moulded perforated F.P.S. (non modular) bricks of class designation 12.5 conforming IS : 2222 in exposed brick work including making horizontal and vertical grooves 10mm wide 12 mm deep complete in cement mortar 1:6 (1 cement : 6 coarse sand).		
6.30.1	From ground level upto plinth level	Cum	6837.48
6.30.2	Above plinth level upto floor V level	Cum	8511.05
6.31	Brick work with common burnt clay machine moulded perforated modular bricks of class designation 12.5 conforming to IS : 2222 in exposed brick work including making horizontal and vertical grooves 10 mm wide 12mm deep complete in cement mortar 1:6 (1 cement : 6 coarse sand).		
6.31.1	From ground level upto plinth level	Cum	6629.24
6.31.2	Above plinth level upto floor V level	Cum	8302.81
6.32	Brick work with clay flyash F.P.S. (non modular) brick of class designation 7.5 in superstructure above plinth level up to floor five level in :		
6.32.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	Cum	12143.70
6.32.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	11607.71
6.34	Brick work with non modular fly ash bricks conforming to IS:12894, class designation 10 average compressive strength in super structure above plinth level up to floor V level in :		
6.34.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	Cum	5821.57
6.34.2	Cement mortar 1:6 (1 cement : 6 Coarse sand)	Cum	5349.57
6.35	Brick work with modular calcium silicate bricks machine moulded conforming to IS:4139, class designation 10 average compressive strength in super structure above plinth level up to floor V level in :		
6.35.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	Cum	9583.82
6.35.2	Cement mortar 1:6 (1 cement : 6 Coarse sand)	Cum	9111.82
6.36	Brick work with modular extruded brunt fly ash clay sewer bricks (Conforming to IS: 4885) in cement mortar 1:4 (1 cement : 4 coarse sand) in foundation and plinth :		
6.36.1	Cement Mortar 1:4 (1 cement : 4 coarse sand)	Cum	7465.85
6.37	Brick work with modular extruded brunt fly ash clay sewer bricks (conforming to IS : 4885) in arches in foundation and plinth in cement mortar 1:3 (1 cement : 3 fine sand).	Cum	15336.41
6.38	Providing and laying autoclaved aerated cement blocks masonry with 100 mm thick AAC blocks in super structure above plinth level up to floor V level in cement mortar 1:4 (1 cement : 4 coarse sand). The rate includes providing and placing in position 2 Nos 6 mm dia M.S. bars at every third course of masonry work.	Cum	27438.90

SI No.	Description of Item	Unit	Amount in Rs.
6.40	Providing and laying Gypsum panel partitions 100 mm thick with water proof Gypsum panels of size 666x500x100 mm, made of calcite phosphor Gypsum fixed with tongue and groove, jointed with bonding plaster as per manufacturer's specifications in superstructure above plinth level up to floor V level. Gypsum blocks will have a minimum compressive strength of 9.3 kg/cm ³	Sqm	1004.45
6.41	Extra for Gypsum panel Partitions in superstructure above floor V level for every four floors or part thereof.	Sqm	146.45
6.44	Brick edging 7cm wide 11.4 cm deep to plinth protection with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 including grouting with cement mortar 1:4 (1 cement : 4 fine sand).	Metre	83.90
6.45	Half brick masonry with non modular fly ash bricks of class designation 10, conforming to IS :12894, in super structure above plinth and upto floor V level.		
6.45.1	Cement mortar 1 : 3 (1 cement : 3 coarse sand)	Sqm	799.22
6.45.2	Cement mortar 1 : 4 (1 cement : 4 coarse sand)	Sqm	739.12
6.47	Providing and laying autoclaved aerated cement blocks masonry with 150mm/230mm/300 mm thick AAC blocks in super structure above plinth level up to floor V level with RCC band at sill level and lintel level with approved block laying polymer modified adhesive mortar all complete as per direction of Engineer-in-Charge. (The payment of RCC band and reinforcement shall be made for separately).	Cum	25277.27

**SUB HEAD - 7.0
STONE WORK**

SI No.	Description of Item	Unit	Amount in Rs.
7.1	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) upto plinth level with :		
7.1.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	6761.86
7.2	Random rubble masonry with hard stone in superstructure above plinth level and upto floor five level, including leveling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) at window sills, ceiling level and the like.		
7.2.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	8467.75
7.4	Extra for random rubble masonry with hard stone in :		
7.4.1	Square or rectangular pillars	Cum	965.56
7.4.2	Circular pillars		2512.88
7.5	Extra for random rubble masonry with hard stone curved on plan for a mean radius not exceeding 6 m.	Cum	934.25
7.6	Coursed rubble masonry (first sort) with hard stone in foundation and plinth with :		
7.6.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	8210.02
7.7	Coursed rubble masonry (second sort) with hard stone in foundation & plinth with :		
7.7.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	7596.01
7.8	Coursed rubble masonry with hard stone (first or second sort) in superstructure above plinth level and upto floor five level.		
7.8.1	Masonry work (first sort), in cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	9887.53
7.8.2	Masonry work (second sort), in cement mortar 1:6 (1 cement: 6 coarse sand)	Cum	9273.69
7.10	Extra for coursed rubble masonry with hard stone (first or second sort) in:		
7.10.1	Square or rectangular pillars	Cum	1079.72
7.10.2	Circular pillars	Cum	2873.10
7.11	Extra for coursed rubble masonry with hard stone (first or second sort) curved on plan for a mean radius not exceeding 6 m.	Cum	1024.36
7.12	Stone work in plain ashlar in super structure upto floor five level in cement mortar 1:6 (1 cement : 6 coarse sand) including pointing with cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade :		
7.12.1	One face dressed		
7.12.1.1	Red sand stone	Cum	88836.75

SI No.	Description of Item	Unit	Amount in Rs.
7.12.1.2	White sand stone	Cum	107982.31
7.12.2	Both face dressed		
7.12.2.1	Red sand stone	Cum	110803.68
7.12.2.2	White sand stone	Cum	129767.43
7.13	Stone work in plain ashlar in super structure upto floor five level in cement mortar 1:6 (1 cement : 6 coarse sand) including pointing with cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade :		
7.13.1	One face dressed		
7.13.1.1	Red sand stone	Cum	97461.20
7.13.1A	Extra for using white cement Extra labour for lifting of material	Cum	4422.98
7.13.1.2	White sand stone	Cum	116424.95
7.13.2	Both face dressed		
7.13.2.1	Red sand stone	Cum	119246.32
7.13.2.2	White sand stone	Cum	138210.07
7.14	Stone work plain ashlar in domes , in super structure upto floor V level in cement mortar 1:3 (1 cement : 3 coarse sand) including centering, shuttering and pointing with white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade.		
7.14.1	One face dressed		
7.14.1.1	Red sand stone	Cum	139997.54
7.14.1.2	White sand stone	Cum	158695.25
7.14.2	Both face dressed		
7.14.2.1	Red sand stone	Cum	196107.18
7.14.2.2	White sand stone	Cum	215070.92
7.15	Stone work ashlar punched (ordinary) in superstructure upto floor five level in cement mortar 1:6 (1 white cement : 6 coarse sand) including pointing with cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade.		
7.15.1	One face dressed		
7.15.1.1	Red sand stone	Cum	86933.69
7.15.1.2	White sand stone	Cum	104298.11
7.15.2	Both faced punched		
7.15.2.1	Red sand stone	Cum	103435.28
7.15.2.2	White sand stone	Cum	122399.03
7.16	Extra for stone work, random rubble / coursed rubble masonry / ashlar masonry above floor V level for every four floors or part thereof.	Cum	1692.94
7.17	Extra for plain ashlar or ashlar punched in :		
7.17.1	Square or rectangular pillars	Cum	3509.29
7.18	Extra for stone work; plain ashlar or ashlar punched curved on plan with a mean radius not exceeding 6 m.	Cum	2441.24

SI No.	Description of Item	Unit	Amount in Rs.
7.19	Extra for additional cost of centering for arches exceeding 6m span including all strutting, bolting, wedging etc. and removal (area of soffit to be measured).	Cum	159.42
7.20	Stone work ashlar sunk or moulded or sunk and moulded upto floor five level in cement mortar 1:6 (1 cement : 6 coarse sand) including pointing with white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade		
7.20.1	Red sand stone	Cum	117961.25
7.20.2	White sand stone	Cum	136925.00
7.21	Extra for stone work ashlar sunk or moulded or sunk and moulded or carved in :		
7.21.1	Triangular or Square or rectangular pillars	Cum	4577.33
7.21.2	Circular or polygonal pillars	Cum	12969.11
7.22	Extra for stone work ashlar sunk or moulded in cornices.		282.24
7.24	Extra for stone work (vener work) curved on plan with a mean radius not exceeding 6 m.	Cum	2552.21
7.26	Providing and fixing stone dowels 10x5x2.50 cm cut to double wedge shape as per design in cement mortar 1:2 (1 cement : 2 coarse sand), including making the necessary chases.	Cum	75.11
7.28	Providing and fixing sloping chajja of stone 40 mm thick and upto 80 cm wide beyond the wall as measured along the slope in cement mortar 1:4 (1 cement : 4 coarse sand) with 12 mm diameter anchoring steel bar, 45 cm long, fixed in each stone and supported on and including with bricks cove in cement mortar 1:4 (1 cement : 4 coarse sand), including pointing in cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade :		
7.28.1	Red sand stone :		
7.28.1.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.6	Sqm	2908.17
7.28.2	White sand stone :		
7.28.2.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.6	Cum	2966.00
7.29	Providing and fixing horizontal chajja of stone 40 mm thick and upto 80 cm projection in cement mortar 1:4 (1 cement : 4 coarse sand), including pointing in white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade :		
7.29.1	Red sand stone	Sqm	1871.24
7.29.2	White sand stone	Cum	1922.45
7.30	30 mm red sand stone sun-shade (chisel-dressed) supported on red sand stone brackets, fixed in walls with cement mortar 1:4 (1 cement : 4 coarse sand), including finishing complete.	Cum	2238.95
7.31	Providing and fixing red sand stone brackets 55x22.5x45 cm sunk and moulded including providing and fixing with 4 Nos gun metal cramp 25x6 mm 30 cm long	Cum	7907.89

SI No.	Description of Item	Unit	Amount in Rs.
7.32	Stone work, plain in copings, cornices, string courses and plinth courses, upto 75 mm thick in Cement mortar 1:6 (1 cement : 6 coarse sand), including pointing with white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade.		
7.32.1	Red sand stone	Cum	89072.59
7.32.2	White sand stone	Cum	89072.59
7.33	Providing and fixing stone jali 40 mm thick throughout in cement mortar 1:3 (1 cement : 3 coarse sand), including pointing in white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment, matching the stone shade, jali slab without any chamfers etc.		
7.33.1	Red sand stone	Cum	14827.88
7.33.2	White sand stone	Cum	14874.83
7.34	Extra for laying stone work in or under water and/or liquid mud including cost of pumping or bailing out water and removing slush etc. complete. NOTE :- The quantity will be calculated by multiplying the depth measured from sub-soil water level up to the centre of gravity of stone work under sub - water with the quantity of stone work in cum executed under the sub-soil water. The depth of centre of gravity shall be reckoned correct to 0.1 m, 0.05 m or more shall be taken as 0.1 m and less than 0.05 m ignored.	cum per metre depth	914.13
7.35	Extra for laying stone work in or under foul position.	Cum	386.99
7.38	Stone tile work for wall lining upto 10 m height with special adhesive over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand), including pointing in white cement with an admixture of pigment to match the stone shade.		
7.38.1	8mm thick (mirror polished and machine cut edge)		
7.38.1.1	Granite stone of any colour and shade	Cum	3413.45
7.38.1.2	Raj Nagar plain white marble/ Udaipur green marble/ Zebra black marble	Cum	2971.61
7.39	Random rubble masonry with hard stone laid dry in foundation, plinth & walls		
7.39.1	Laid without bond stone	Cum	4732.86
7.39.2	Laid with bond stone	Cum	4793.46

**SUB HEAD - 8.0
CLADDING WORK**

SI No.	Description of Item	Unit	Amount in Rs.
8.1	Marble work gang saw cut (polished and machine cut) of thickness 18 mm for wall lining (veneer work), backing filled with a grout of average 12 mm thick in cement mortar 1:3 (1 cement : 3 coarse sand), including pointing with white cement mortar 1:2 (1 white cement : 2 marble dust) with an admixture of pigment to match the marble shade (To be secured to the backing by means of cramps, which shall be paid for separately).		
8.1.1	Raj Nagar Plain white marble/ Udaipur green marble/ Zebra black marble.		
8.1.1.1	Area of slab upto 0.50 sqm	Sqm	5634.93
8.1.1.2	Area of slab over 0.50 sqm	Sqm	6040.56
8.2	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.		
8.2.1	Raj Nagar Plain white marble/ Udaipur green marble/ Zebra black marble		
8.2.1.1	Area of slab upto 0.50 sqm	Sqm	3596.25
8.2.1.2	Area of slab over 0.50 sqm	Sqm	6973.68
8.2.2	Granite of any colour and shade		
8.2.2.1	Area of slab upto 0.50 sqm	Sqm	5485.87
8.2.2.2	Area of slab over 0.50 sqm	Sqm	4366.16
8.2.3	Granite stone slab all colour and texture except black, Cherry/Ruby red		
8.2.3.1	Area of slab upto 0.50 sqm	Sqm	4171.35
8.2.3.2	Area of slab over 0.50 sqm	Sqm	3729.81
8.3	Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.		
8.3.1	Marble work	metre	326.78
8.3.2	Granite work	metre	553.65
8.4	Extra for fixing marble /granite stone, over and above corresponding basic item, in facia and drops of width upto 150 mm with epoxy resin based adhesive, including cleaning etc. complete.	metre	552.75

SI No.	Description of Item	Unit	Amount in Rs.
8.5	Extra for providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/ Granite/ stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.	each	930.51
8.6	Mirror polishing on marble work/Granite work/stone work where ever required to give high gloss finish complete.	Sqm	466.80
8.7	Providing and fixing cramps of required size & shape in RCC/ CC / Brick masonry backing with cement mortar 1:2 (1 cement :2 coarse sand), including drilling necessary hole in stones and embedding the cramp in the hole (fastener to be paid separately).		
8.7.1	Gunmetal cramps	Kg	807.72
8.7.2	Stainless steel cramps	Kg	812.18
8.8	Providing and fixing expansion hold fasteners on C.C. /R.C.C./Brick masonry surface backing including drilling necessary holes and the cost of bolt etc complete.		
8.8.1	Wedge expansion type		
8.8.1.1	Fastener with threaded dia 6 mm	Each	38.14
8.8.1.2	Fastener with threaded dia 10 mm	Each	39.03
8.8.1.3	Fastener with threaded dia 12 mm	Each	62.88
8.9	Stone tile (polished) work for wall lining over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and cement slurry @ 3.3 kg/sqm including pointing in white cement complete.		
8.9.1	8mm thick		
8.9.1.1	Raj nagar plain white marble/ Udaipur green marble/ Zebra black marble	Sqm	3192.50
8.9.1.2	Granite of any colour and shade	Sqm	3886.61
8.10	Providing and fixing stone slab with table rubbed, edges rounded and polished, of size 75x50 cm deep and 1.8 cm thick, fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) as per direction of Engineer-in-charge and finished smooth.		
8.10.1	White Agaria Marble Stone	Sqm	4325.80
8.10.2	Granite Stone of approved shade	Sqm	4325.80
8.11	Providing and fixing machine cut, mirror/ eggshell polished , Marble stone work for wall lining (veneer work) including dado, skirting, risers of steps etc., in required design and pattern wherever required, stones of different finished surface texture, on 12 mm (average) thick cement mortar 1:3 (1 cement : 3 coarse sand) laid and jointed with white cement slurry @ 3.3 kg/sqm including pointing with white cement slurry admixed with pigment of matching shade, including rubbing, curing, polishing etc. all complete as per Architectural drawings, and as directed by the Engineer-in-Charge.		

SI No.	Description of Item	Unit	Amount in Rs.
8.11.1	18 mm thick Italian Marble stone slab,Perlato, Rosso verona, Fire Red or Dark Emperadore etc.	Sqm	9002.91
8.14	Stone work (machine cut edges) for wall lining etc. (veneer work) upto 10 metre height, backing filled with a grout of average 12 mm thick cement mortar 1:3 (1 cement : 3 coarse sand) including pointing in white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade : (To be secured to the backing and the sides by means of cramps and pins which shall be paid for separately) :		
8.14.1	Red sand stone - exposed face fine dressed with rough backing.		
8.14.1.1	70 mm thick	Sqm	7967.42
8.14.1.2	60 mm thick	Sqm	7493.33
8.14.1.3	50 mm thick	Sqm	7020.30
8.14.1.4	40 mm thick	Sqm	6067.73
8.14.1.5	30 mm thick	Sqm	6070.34
8.14.2	Red sand stone - Exposed face machine cut and table rubbed with rough backing.		
8.14.2.1	70 mm thick	Sqm	10304.91
8.14.2.2	60 mm thick	Sqm	9830.81
8.14.2.3	50 mm thick	Sqm	9361.61
8.14.2.4	40 mm thick	Sqm	8882.27
8.14.2.5	30 mm thick	Sqm	8407.82
8.14.3	White sand stone - exposed face fine dressed with rough backing .		
8.14.3.1	70 mm thick	Sqm	9295.17
8.14.3.2	60 mm thick	Sqm	8631.44
8.14.3.3	50 mm thick	Sqm	7969.20
8.14.3.4	40 mm thick	Sqm	7301.98
8.14.3.5	30 mm thick	Sqm	6639.25
8.14.4	White sand stone - Exposed face machine cut and table rubbed with rough backing.		
8.14.4.1	70 mm thick	Sqm	11632.65
8.14.4.2	60 mm thick	Sqm	10968.92
8.14.4.3	50 mm thick	Sqm	10306.69
8.14.4.4	40 mm thick	Sqm	9639.47
8.14.4.5	30 mm thick	Sqm	8976.73
8.14.5	Gang saw cut stone		
8.14.5.1	30mm thick White sand stone	Sqm	3230.73
8.14.5.2	30mm thick Red sand stone	Sqm	3092.71
8.15	Providing and fixing stainless steel cramps of required size and shape for anchoring stone wall lining to the backing or securing adjacent stones in stone wall lining in cement mortar 1:2 (1 cement : 2 coarse sand), including making the necessary chases in stone and holes in walls wherever required.	Kg	812.18

SI No.	Description of Item	Unit	Amount in Rs.
8.16	Providing and fixing copper pins 7.5 cm long 6 mm diameter for securing adjacent stones in stone wall lining in cement mortar 1:2 (1 cement : 2 coarse sand), including making the necessary chases.	each	61.61
8.17	Wall lining butch work upto 10m height with Dholpur stone 40 mm thick rough facing on the exposed surface with stone strips of minimum length 300 mm and required width, including embedding every tenth layer and bottom most layer in masonry or concrete after making necessary chases of size 75x75 mm and by providing layer of 75 mm thick strips i/c 12 mm thick bed of cement mortar 1:3 (1 Cement : 3 coarse sand) i/c ruled pointing in cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment to match the shade of stone complete as per direction of Engineer-in-charge.	Sqm	3540.94
8.18	Stone work (machine cut edges Veneer work) for wall lining upto 10 m height, backing filled with a grout of 12 mm thick cement mortar 1:3 (1 Cement : 3 coarse sand) and jointed with Cement mortar 1:2 (1 cement : 2 stone dust), including rubbing and polishing complete. (To be secured to the backing and the sides by means of cramps and pins which shall be paid for separately).		
8.18.1	Pre polished Kota stone slabs on exposed face.		
8.18.1.1	25 mm thick	Sqm	4260.43
8.19	Extra for stone work for wall lining on exterior walls of height more than 10 m from ground level for every additional height of 3 m or part there of.	Sqm	173.43
8.20	Providing and fixing dry cladding upto 10 metre heights with 30mm thick gang saw cut stone with (machine cut edges) of uniform colour and size upto 1mx1m, fixed to structural steel frame work and/ or with the help of cramps, pins etc. and sealing the joints with approved weather sealant as per Architectural drawing and direction of Engineer-in-charge. (The steel frame work, stainless steel cramps and pins etc. shall be paid for separately).		
8.20.1	Red sand stone - 30mm thick gang saw cut stone	Sqm	2941.35
8.20.2	White sand stone - 30mm thick gang saw cut stone	Sqm	3079.37

SI No.	Description of Item	Unit	Amount in Rs.
8.21	Providing and fixing structural steel frame (for dry cladding with 30 mm thick gang saw cut with machine cut edges sand stone) on walls at all heights using M.S. square/ rectangular tube in the required pattern as per architectural drawing, including cost of cutting, bending, welding etc. The frame work shall be fixed to the wall with the help of M.S. brackets/ lugs of angle iron/ flats etc. which shall be welded to the frame and embedded in brick wall with cement concrete block 1:2:4 (1 cement :2 coarse sand :4 graded stone aggregate 20 mm nominal size) of size 300x230x300 mm, including cost of necessary centring and shuttering and with approved expansion hold fasteners on CC/RCC surface, including drilling necessary holes. Approved cramps/ pins etc. shall be welded to the frame work to support stone cladding, the steel work will be given a priming coat of Zinc primer as approved by Engineer-in-charge and painted with two or more coats of epoxy paint (Shop drawings shall be submitted by the contractor to the Engineer- in-charge for approval before execution). The frame work shall be fixed in true horizontal & vertical lines/planes. (Only structural steel frame work shall be measured for the purpose of payment, stainless steel cramps shall be paid for separately and nothing extra shall be paid).	Kg	304.99
8.22	Providing and fixing adjustable stainless steel cramps of approved quality, required shape and size, adjustable with stainless steel nuts, bolts and washer (total weight not less than 260 gms), for dry stone cladding fixed on frame work at suitable location, including making necessary recesses in stone slab, drilling required holes etc complete as per direction of the Engineer-in-charge.	each	416.39
8.23	Providing 50x50x50 mm 2nd class teak wood plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement : 3 fine sand) and making good the walls etc.	each	48.74
8.24	Providing and fixing expandable fasteners of specified size with necessary plastic sleeves and galvanised M.S. screws including drilling holes in masonry work / CC/ R.C.C. and making good etc. complete.		
8.24.1	25 mm long	each	31.61
8.24.2	32 mm long	each	35.21
8.24.3	40 mm long	each	38.34
8.24.4	50 mm long	each	41.47
8.25	Providing and fixing 2nd class teak wood plain lining tongued and grooved, including wooden plugs complete with necessary screws and priming coat on unexposed surface.		
8.25.1	40 mm thick	Sqm	10164.10
8.25.2	25 mm thick	Sqm	6768.89
8.25.3	20 mm thick	Sqm	5430.29
8.25.4	12 mm thick	Sqm	3534.27

SI No.	Description of Item	Unit	Amount in Rs.
8.26	Providing and fixing in wall lining flat pressed three layer (medium density) particle board or graded wood Pre-laminated one side decorative lamination and other side balancing lamination Grade I, Type II, IS : 12823 marked, including priming coat on unexposed arrangement and screws etc. complete :		
8.26.1	12 mm thick	Sqm	1451.12
8.26.2	18 mm thick	Sqm	1546.58
8.26.3	25 mm thick	Sqm	2045.78
8.27	Providing and fixing specified wood frame work consisting of battens 50x25mm fixed with rawl plug and drilling necessary holes for rawl plug etc. including priming coat complete.		
8.27.1	Kiln seasoned and chemically treated hollock wood	Cum	200091.22
8.28	Providing and fixing plywood 4 mm thick, one side decorative veneer conforming to IS: 1328 (type-1), for plain lining / cladding with necessary screws, including priming coat on unexposed surface with :		
8.28.1	Decorative veneer facings of approved manufacture	Sqm	2006.78
8.29	Providing and fixing 4mm thick coir veneer board, ISI marked IS : 14842, plain lining with necessary screws, priming coat on unexposed surface etc., complete.	Sqm	1803.62
8.30	Providing and fixing skirting with Pre-laminated (one side decorative and other side balancing lamination) flat pressed 3 layer or graded particle board (medium density) Grade I, Type II, IS :12823 marked, with necessary fixing arrangements and screws, including drilling necessary holes for rawl plugs etc. and priming coat on unexposed surface complete :		
8.30.1	18 mm thick	Sqm	2059.94
8.30.2	25 mm thick	Sqm	2605.70
8.31	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	Sqm	1514.98
8.32	Designing, fabricating, testing, installing and fixing in position Curtain Wall with Aluminium Composite Panel Cladding, with open grooves for linear as well as curvilinear portions of the building , for all heights and all levels etc. including:	Sqm	6356.62
(a)	Structural analysis & design and preparation of shop drawings for pressure equalisation or rain screen principle as required, proper drainage of water to make it watertight including checking of all the structural and functional design.		

SI No.	Description of Item	Unit	Amount in Rs.
(b)	<p>Providing, fabricating and supplying and fixing panels of aluminium composite panel cladding in pan shape in metallic colour of approved shades made out of 4mm thick aluminium composite panel material consisting of 3mm thick FR grade mineral core sandwiched between two Aluminium sheets (each 0.5mm thick). The aluminium composite panel cladding sheet shall be coil coated, with Kynar 500 based PVDF / Lumiflon based fluoropolymer resin coating of approved colour and shade on face # 1 and polymer (Service) coating on face # 2 as specified using stainless steel screws, nuts, bolts, washers, cleats, weather silicone sealant, backer rods etc.</p>		
(c)	<p>The fastening brackets of Aluminium alloy 6005 T5 / MS with Hot Dip Galvanised with serrations and serrated washers to arrest the wind load movement, fasteners, SS 316 Pins and anchor bolts of approved make in SS 316, Nylon separators to prevent bi-metallic contacts all complete required to perform as per specification and drawing The item includes cost of all material & labour component, the cost of all mock ups at site, cost of all samples of the individual components for testing in an approved laboratory, field tests on the assembled working curtain wall with</p>		

**SUB HEAD - 9.0
WOOD AND PVC WORK**

SI No.	Description of Item	Unit	Amount in Rs.
9.1	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).		
9.1.1	Second class teak wood	Cum	212881.28
9.1.2	Sal wood	Cum	167849.14
9.1.3	Kiln seasoned and chemically treated hollock wood	Cum	94360.54
9.1.4	First class Kail wood	Cum	139072.60
9.1.5	Second class Kail wood	Cum	120151.54
9.2	Providing laminated veneer lumber conforming to IS:14616 and TAD -15: 2001 (Part B) in factory made frames of doors, windows, clerestory windows and other frames, wrought framed and fixing in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).	Cum	134107.21
9.2A	Providing hoisting and fixing trusses/purlins/rafters/posts/post plates or like components of 1st class budloo/fir wood including cost of screws etc complete.	Cum	209060.42
9.3	Providing wood work in frames of false ceiling, partitions etc. sawn and fixed in position with necessary stainless steel screws etc.		
9.3.1	Sal wood	Cum	153292.36
9.3.2	Kiln seasoned and chemically treated hollock wood	Cum	79626.87
9.3.3	Budloo/Fir wood	Cum	77119.55
9.4	Extra for additional labour for circular works, such as in frames of fan light		
9.4.1	Second class teak wood	Cum	21288.13
9.4.2	Sal wood	Cum	16784.91
9.4.3	Kiln seasoned and chemically treated hollock wood	Cum	9436.38
9.5	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows fixing with butt hinges of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer-in-charge. (Note:- Butt hinges and necessary screws shall be paid separately)		
9.5.1	Second class teak wood		
9.5.1.1	35 mm thick shutters	Sqm	5770.78
9.5.1.2	30 mm thick shutters	Sqm	5183.19
9.5.2	Kiln seasoned and chemically treated hollock wood		
9.5.2.1	35 mm thick shutters	Sqm	3095.16
9.5.2.2	30 mm thick shutters	Sqm	2877.07
9.5.3	Kiln seasoned selected planks of sheesham wood		
9.5.3.1	35 mm thick shutters	Sqm	5317.52

SI No.	Description of Item	Unit	Amount in Rs.
9.5.3.2	30 mm thick shutters	Sqm	4792.14
9.5.4	First class kail wood		
9.5.4.1	35 mm thick shutters	Sqm	3302.92
9.5.5	Second class kail wood		
9.5.5.1	35 mm thick shutters	Sqm	3573.69
9.6	Providing and fixing 35 mm thick factory made laminated veneer lumber door shutter conforming to IS : 14616 and TADS 15:2001 (Part B) fixing with butt hinges of required size with necessary screws, all complete as per directions of Engineer- in-charge and panelling with panels of : (Note:- Butt hinges and necessary screws shall be paid separately)		
9.6.1	12 mm thick plain grade -1, medium density flat pressed three layer particle board FPT - I or graded wood particle board FPT- I, IS : 3087 marked, bonded with BWP type synthetic resin adhesive as per IS : 848 :	Sqm	3272.05
9.6.2	12 mm thick pre-laminated particle board (decorative lamination on both sides) grade -1, medium density flat pressed, three layer particle board FPT- I or graded wood particle board FPT- I, conforming to IS : 3087, bonded with BWP type synthetic resin adhesive as per IS : 848 and pre-laminated conforming to IS : 12823, Grade 1, Type - II marked :	Sqm	3339.34
9.6.3	12 mm thick one side Pre-laminated particle board (decorative lamination on one side and other sides balancing lamination) grade -1, medium density flat pressed, three layer particle board FPT - I or graded wood particle board FPT-1 conforming to IS : 3087 bonded with BWP type synthetic resin adhesive as per IS : 848 and pre- laminated conforming to IS : 12823, Grade -1, Type II marked :	Sqm	3631.98
9.7	Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick :		
9.7.1	Second class teak wood	Sqm	4667.23
9.7.2	Kiln seasoned and chemically treated hollock wood	Sqm	2491.86
9.7.2.1	First class Kail wood	Sqm	2624.32
9.7.2.2	Second class Kail wood	Sqm	2848.47
9.7.3	Ply wood 5 ply, 9 mm thick		
9.7.3.1	Decorative plywood both side decorative veneer (Type - I) conforming to IS 1328 BWR type	Sqm	3043.08
9.7.3.2	Decorative plywood one side decorative veneer and commercial veneer on other face (Type 1) conforming to IS 1328 BWR Type	Sqm	3001.70
9.7.4	Ply wood 7 ply, 9 mm thick		
9.7.4.1	Decorative plywood one side decorative veneer and commercial veneer on other face (Type 1) conforming to IS 1328 BWR Type	Sqm	3186.21
9.7.5	Particle Board 12 mm thick		

SI No.	Description of Item	Unit	Amount in Rs.
9.7.5.1	Plain particle board flat pressed, 3 layer or graded wood particle board medium density Grade I, IS : 3087 marked	Sqm	1658.38
9.7.5.2	Veneered flat pressed three layer or graded wood particle board with commercial veneering on both sides conforming to IS:3097, grade I	Sqm	2272.27
9.7.5.3	Pre-laminated particle board with decorative lamination on one side and balancing lamination on other side, Grade I, Type II IS: 12823 marked	Sqm	2082.59
9.7.5.4	Pre-laminated particle board with decorative lamination on both sides, Grade I, Type II, IS:12823 marked	Sqm	2063.62
9.7.6	Coir Veneer Board (conforming to IS 14842)		
9.7.6.1	12 mm thick	Sqm	2319.70
9.7.7	Float glass panes		
9.7.7.1	4 mm thick glass pane (weight not less than 10kg/sqm).	Sqm	2879.65
9.7.7.2	5.0 mm thick glass panes (weight not less than 12.50 kg/sqm).	Sqm	3174.52
9.7.8	Fly proof stainless steel grade 304 wire gauge with 0.5 mm dia. wire and 1.4mm wide aperture with matching wood beading	Sqm	1864.73
9.9	Providing and fixing glazed shutters for doors, windows and clerestory windows using 4 mm thick float glass panes, including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws.		
9.9.1	Second class teak wood		
9.9.1.1	35 mm thick	Sqm	10565.32
9.9.1.2	30 mm thick	Sqm	6446.75
9.9.2	Kiln seasoned and chemically treated hollock wood		
9.9.2.1	35 mm thick	Sqm	4073.15
9.9.2.2	30 mm thick	Sqm	3785.28
9.9.3	Kiln seasoned selected planks of sheesham wood		
9.9.3.1	35 mm thick	Sqm	6602.80
9.9.3.2	30 mm thick	Sqm	6002.37
9.10	Providing and fixing factory made laminated veneer lumber glazed shutter conforming to IS: 14616 and TADS 15:2001 (Part B), using 4 mm thick float glass panes for doors, windows and clerestory windows fixing with butt hinges of required size with necessary screws, all as per directions of Engineer-in-charge (Note:- Butt hinges and necessary screws shall be paid separately)		
9.10.1	30 mm thick shutters	Sqm	2796.32
9.11	Extra for providing heavy sheet float glass panes instead of ordinary float glass in glazed doors, windows and clerestory window shutters. (Area of opening for glass panes excluding portion inside rebate shall be measured)		
9.11.1	5.0 mm thick instead of 4 mm thick.	Sqm	243.27

SI No.	Description of Item	Unit	Amount in Rs.
9.12	Extra for providing frosted glass panes 4 mm thick instead of ordinary float glass panes 4 mm thick in doors, windows and clerestory window shutters. (Area of opening for glass panes excluding portion inside rebate shall be measured).	Sqm	471.18
9.13	Deduct for providing pin headed glass panes instead of ordinary float glass panes weighing 4 mm thick in doors, windows and clerestory windows shutters (Area of opening for glass panes excluding portion inside rebate shall be measured).	Sqm	38.41
9.14	Extra for providing ISI marked Stainless Steel butt hinges instead of M.S. pressed butt hinges bright finished of required size with necessary screws. (Shutter area to be measured).	Sqm	152.42
9.15	Deduct for not providing hinges in doors, windows or clerestory window shutters with :		
9.15.1	Stainless steel butt hinges with stainless steel screws :		
9.15.1.1	For 2nd class teak wood and other class of wood shutters	Sqm	236.91
9.15.2	ISI marked M.S. pressed butt hinges bright finished of required size.		
9.15.2.1	For 2nd class teak wood and other class of wood shutters	Sqm	84.49
9.16	Providing and fixing 25 mm thick shutters for cup board etc. :		
9.16.1	Panelled or panelled & glazed shutters :		
9.16.1.1	Second class teak wood including ISI marked anodised aluminium butt hinges with necessary screws	Sqm	5892.73
9.16.1.2	Second class teak wood including ISI marked nickel plated bright finished M.S. piano hinges with necessary screws	Sqm	5035.12
9.16.2	Glazed shutters :		
9.16.2.1	Second class teak wood including ISI marked anodized aluminium butt hinges with necessary screws	Sqm	5900.49
9.16.2.2	Second class teak wood including ISI marked nickel plated bright finished M.S. piano hinges with necessary screws	Sqm	5952.97
9.17	Providing and fixing flat pressed 3 layer particle board medium density exterior grade (Grade I) or graded wood particle board IS : 3087 marked, to frame, backing or studding with screws etc. complete (Frames, backing or studding to be paid separately):		
9.17.1	12 mm thick	Sqm	753.10
9.17.2	18 mm thick	Sqm	1150.34
9.18	Providing and fixing Pre-laminated flat pressed 3 layer (medium density) particle board or graded wood particle board IS : 3087 marked, with one side decorative and other side balancing lamination Grade I, Type II exterior grade IS : 12823 marked, in shelves with screws and fittings wherever required, edges to be painted with polyurethane primer (fittings to be paid separately).		
9.18.1	18 mm thick	Sqm	1283.30
9.18.2	25 mm thick	Sqm	1765.74

SI No.	Description of Item	Unit	Amount in Rs.
9.20	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.		134107.21
9.20.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screw:	Sqm	4260.87
9.20.2	30 mm thick including ISI marked Stainless Steel butt hinges with necessary screw:	Sqm	3932.24
9.20.3	25 mm thick (for cupboard) including ISI marked nickel plated bright finished M.S. Piano hinges IS : 3818 marked with necessary screws	Sqm	3704.29
9.21	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:		
9.21.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	Sqm	2798.40
9.21.2	30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	Sqm	2717.31
9.21.3	25 mm thick (for cupboard) including ISI marked nickel plated bright finished M.S. piano hinges with necessary screws	Sqm	2610.29
9.22	Extra for Providing and fixing flush doors with decorative veneering instead of non decorative ISI marked flush door shutters conforming to IS: 2202 (Part I)		
9.22.1	On one side only	Sqm	594.66
9.23	Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured).	Sqm	507.88
9.24	Extra for providing vision panel not exceeding 0.1 sqm in all type of flush doors (cost of glass excluded) (overall area of door shutter to be measured):		
9.24.1	Rectangular or square	Sqm	246.12
9.24.2	Circular	Sqm	246.12
9.25	Extra if louvers (not exceeding 0.2 sqm) are provided in flush door shutters (overall area of door shutters to be measured).		
9.25.1	Decorative type door	Sqm	492.23
9.26	Extra for cutting rebate in flush door shutters (Total area of the shutter to be measured).	Sqm	136.57
9.27	Providing and fixing wire gauge shutters using galvanized M.S. wire gauge of average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm, for doors, windows and clerestory windows with hinges and necessary screws :		
9.27.1	35 mm thick shutters		
9.27.1.1	with ISI marked M.S. pressed butt hinges bright finished of required size		

SI No.	Description of Item	Unit	Amount in Rs.
9.27.1.1.1	Second class teak wood	Sqm	6438.80
9.27.1.1.2	Kiln seasoned and chemically treated hollock wood	Sqm	3741.82
9.27.1.1.3	Kiln seasoned selected class of sheesham wood	Sqm	5981.98
9.27.1.2	With ISI marked stainless steel butt hinges of required size		
9.27.1.2.1	Second class teak wood	Sqm	6591.22
9.27.1.2.2	Kiln seasoned and chemically treated hollock wood	Sqm	3894.24
9.27.1.2.3	Kiln seasoned selected class of sheesham wood	Sqm	6134.40
9.27.1.2.4	First class kail wood	Sqm	3951.58
9.27.1.2.5	Second class kail wood	Sqm	4224.47
9.27.2	30 mm thick shutters		
9.27.2.1	with ISI marked M.S. pressed butt hinges bright finished of required size		
9.27.2.1.1	Second class teak wood	Sqm	5680.30
9.27.2.1.2	Kiln seasoned and chemically treated hollock wood	Sqm	3371.60
9.27.2.1.3	Kiln seasoned selected class of sheesham wood	Sqm	5289.24
9.27.2.2	With ISI marked stainless steel butt hinges of required size		
9.27.2.2.1	Second class teak wood	Sqm	5832.72
9.27.2.2.2	Kiln seasoned and chemically treated hollock wood	Sqm	3524.02
9.27.2.2.3	Kiln seasoned selected class of sheesham wood	Sqm	5441.66
9.31	Providing and fixing wire gauge laminated veneer lumber shutters conforming to IS : 14616, and as per TADS 15 :2001 (Part B) using galvanised wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm as per IS :1568, for doors, windows and clerestory windows fixing with butt hinges of required size with necessary screws, as per directions of Engineer- in-charge: (Note:- Butt hinges and necessary screws shall be paid separately)		
9.31.1	35 mm thick shutters	Sqm	3272.05
9.31.2	30 mm thick shutters	Sqm	2849.53
9.40	Providing and fixing wooden moulded beading to door and window frames with iron screws, plugs and priming coat on unexposed surface etc. complete :		
9.40.1	2nd class teak wood		
9.40.1.1	50x12 mm	Metre	270.91
9.40.1.2	50 x 20 mm	Metre	352.42
9.40.2	Kiln seasoned and chemically treated hollock wood		
9.40.2.1	50x12 mm	Metre	195.66
9.40.2.2	50x20 mm	Metre	226.99
9.41	Providing and fixing plain jaffri of 35x10 mm laths placed 35 mm apart (frames to be paid separately), including fixing 50x12 mm beading complete with :		
9.41.1	Second class teak wood	Sqm	3930.27

SI No.	Description of Item	Unit	Amount in Rs.
9.42	Providing and fixing 18 mm thick, 150 mm wide pelmet of flat pressed 3 layer or graded wood particle board medium density grade I, IS : 3087 marked, including top cover of 6 mm commercial ply wood conforming to IS: 303 BWR grade, nickel plated M.S. pipe 20 mm dia (heavy type) curtain rod with nickel plated brackets, including fixing with 25x3 mm M.S. flat 10 cm long fixed to pelmet with hollock wood cleats of size 100 mm x 40 mm x 40 mm on both inner side of pelmet and rawl plugs 75 mm long etc. all complete.	Metre	653.03
9.43	Providing and fixing 18 mm thick, 150 mm wide pelmet of coir veneer board ISI marked IS : 14842, including top cover of 6 mm coir veneer board, nickle plated M.S. Pipe 20 mm dia. (heavy type) curtain rod with nickel plated brackets, including fixing with 25x3 mm M.S. Flat 10 cm long fixed to pelmet with hollock wood cleats of size 100 mm x 40 mm x 40 mm on both inner side of pelmet and rawl plugs 75 mm long etc. all complete.	Metre	757.75
9.44	Extra for using veneered particle board conforming to IS 3097 Grade I, in item of pelmet 18mm thick 150mm wide.		
9.44.1	Non decorative veneer on both sides	Metre	43.02
9.44.2	Particle board with decorative veneering on both sides	Metre	135.44
9.45	Providing and fixing teak wood lipping of size 25x3 mm in pelmet.	Metre	82.69
9.46	Providing and fixing chromium plated brass curtain rod having wall thickness of 1.25mm with two chromium plated brass brackets fixed with C.P. brass screws and PVC sleeves etc., wherever necessary complete :		
9.46.1	12 mm dia	Metre	389.50
9.46.2	20 mm dia	Metre	526.07
9.46.3	25 mm dia	Metre	678.29
9.47	Providing and fixing nickel plated M.S. pipe curtain rods with nickel plated brackets :		
9.47.1	20 mm dia (heavy type)	Metre	207.25
9.47.2	25 mm dia (heavy type)	Metre	227.60
9.48	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.		
9.48.1	Fixed to steel windows by welding	Kg	220.90
9.48.2	Fixed to openings /wooden frames with rawl plugs screws etc.	Kg	242.66
9.49	Providing and fixing expanded metal 20x60 mm strands 3.25 mm wide and 1.6mm thick for windows etc. including 62 x19 mm beading of II nd class teak wood and priming coat with approved steel primer all complete.	Sqm	1859.41

SI No.	Description of Item	Unit	Amount in Rs.
9.50	Providing and fixing hard drawn steel wire fabric 75x25 mm mesh of weight not less than 7.75 Kg per sqm to window frames etc. including 62x19 mm beading of second class teak wood and priming coat with approved steel primer all complete.	Sqm	2787.76
9.51	Providing and fixing fly proof galvanized M.S. wire gauge to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm all complete.		
9.51.1	With 2nd class teak wood beading 62X19 mm	Sqm	1555.88
9.51.2	With 12 mm mild steel U beading	Sqm	900.27
9.52	Deduct for fixing 75x25 mm hard drawn steel wire fabric of weight not less than 7.75 Kg per sqm in panelled and glazed door and window shutter instead of glass sheet 4 mm thick.	Sqm	220.51
9.53	Providing 40x5 mm flat iron hold fast 40 cm long including fixing to frame with 10 mm diaMetre bolts, nuts and wooden plugs and embedding in cement concrete block 30x10x15cm 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size).	each	256.24
9.54	Providing beams including hoisting, fixing in position and applying wood preservative for the unexposed surfaces, etc. complete with :		
9.54.1	Sal wood	Cum	151762.10
9.54.2	Hollock wood	Cum	75905.74
9.55	Providing and fixing ISI marked M.S. pressed butt hinges bright finished with necessary screws etc. complete :		
9.55.1	125x65x2.12 mm	each	65.25
9.55.2	100x58x1.90 mm	each	52.11
9.55.3	75x47x1.70 mm	each	41.65
9.55.4	50x37x1.50 mm	each	21.81
9.56	Providing and fixing ISI marked, IS : 1341, M.S. heavy weight butt hinges with necessary screws etc. complete :		
9.56.1	125x90x4.00 mm	each	73.22
9.56.2	100x75x3.50 mm	each	63.34
9.56.3	75x60x3.10 mm	each	47.77
9.56.4	50x40x2.50 mm	each	26.50
9.57	Providing and fixing ISI marked oxidised M.S. pressed butt hinges with necessary screws etc. complete.		
9.57.1	125x65x2.12 mm	each	62.87
9.57.2	100x58x1.90 mm	each	54.61
9.57.3	75x47x1.70 mm	each	44.12
9.57.4	50x37x1.50 mm	each	23.60
9.58	Providing and fixing ISI marked oxidised M.S. pressed Parliamentary hinges with necessary screws etc.complete :		
9.58.1	150x125x27x2.80 mm	each	101.24
9.58.2	125x125x27x2.80 mm	each	95.26

SI No.	Description of Item	Unit	Amount in Rs.
9.58.3	100x125x27x2.80 mm	each	86.87
9.58.4	75x100x20x2.24 mm	each	74.04
9.59	Providing and fixing ISI marked oxidised M.S. single acting spring hinges with necessary screws etc.complete :		
9.59.1	150 mm	each	350.38
9.59.2	125 mm	each	316.24
9.59.3	100 mm	each	277.32
9.60	Providing and fixing oxidised M.S. double acting spring hinges with necessary screws etc. complete.		
9.60.1	150 mm	each	384.53
9.60.2	125 mm	each	350.38
9.60.3	100 mm	each	314.30
9.61	Providing M.S. Piano hinges ISI marked IS : 3818 finished with nickel plating and fixing with necessary screws etc., complete.		
9.61.1	Overall width 35 mm	Metre	362.57
9.61.2	Overall width 50 mm	Metre	361.14
9.61.3	Overall width 65 mm	Metre	382.48
9.62	Providing and fixing ISI marked oxidised M.S. sliding door bolts with nuts and screws etc. complete :		
9.62.1	300x16 mm	each	280.74
9.62.2	250x16 mm	each	260.74
9.63	Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete :		
9.63.1	250x10 mm	each	108.98
9.63.2	200x10 mm	each	93.80
9.63.3	150x10 mm	each	78.97
9.63.4	100x10 mm	each	59.48
9.64	Providing and fixing ISI marked 85x42 mm oxidised M.S. pull bolt lock conforming to IS : 7534 with necessary screws bolts, nut and washers etc. complete.	each	143.69
9.65	Providing and fixing ISI marked oxidised M.S. door latches conforming to IS:5930 with screws etc. complete :		
9.65.1	300x20x6 mm	each	125.53
9.65.2	250x20x6 mm	each	99.93
9.66	Providing and fixing ISI marked oxidised M.S. handles conforming to IS:4992 with necessary screws etc.complete :		
9.66.1	125 mm	each	54.19
9.66.2	100 mm	each	42.45
9.66.3	75 mm	each	36.76
9.67	Providing and fixing oxidised M.S. hasp and staple (safety type) conforming to IS : 363 with necessary screws etc. complete :		
9.67.1	150 mm	each	41.94

SI No.	Description of Item	Unit	Amount in Rs.
9.67.2	115 mm	each	37.02
9.67.3	90 mm	each	31.33
9.68	Providing and fixing oxidised M.S. casement stays (straight peg type) with necessary screws etc.complete.		
9.68.1	300 mm weighing not less than 200 grams	each	86.91
9.68.2	250 mm weighing not less than 150 grams	each	78.23
9.68.3	200 mm weighing not less than 120 grams	each	62.58
9.69	Providing and fixing oxidised M.S. Safety chain with necessary fixtures for doors, (weighting not less	each	115.82
9.70	Providing and fixing IS : 12817 marked stainless steel butt hinges with stainless steel screws etc.		
9.70.1	125x64x1.90 mm	each	111.69
9.70.2	100X58X1.90 mm	each	100.73
9.70.3	75x47x1.80 mm	each	75.02
9.70.4	50x37x1.50 mm	each	42.89
9.71	Providing and fixing IS : 12817 marked stainless steel butt hinges (heavy weight) with stainless steel screws etc. complete :		
9.71.1	125x64x2.50 mm	each	121.86
9.71.2	100x60x2.50 mm	each	99.95
9.71.3	75x50x2.50 mm	each	82.85
9.72	Providing and fixing bright finished brass butt hinges with necessary screws etc. complete :		
9.72.1	125x85x5.5 mm (heavy type)	each	316.47
9.72.2	125x70x4 mm (ordinary type)	each	216.60
9.72.3	100x85x5.5 mm (heavy type)	each	236.65
9.72.4	100x70x4 mm (ordinary type)	each	165.66
9.72.5	75x65x4 mm (heavy type)	each	197.35
9.72.6	75x40x2.5 mm (ordinary type)	each	112.71
9.72.7	50x40x2.5 mm (ordinary type)	each	48.06
9.73	Providing and fixing bright finished brass parliamentary hinges with necessary screws etc. complete :		
9.73.1	150x125x27x5 mm	each	539.78
9.73.2	125x125x27x5 mm	each	482.16
9.73.3	100x125x27x5 mm	each	443.18
9.73.4	75x100x20x3.2 mm	each	383.55
9.74	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete :		
9.74.1	250x10 mm	each	473.57
9.74.2	200x10 mm	each	379.90
9.74.3	150x10 mm	each	294.54
9.74.4	100x10 mm	each	204.43
9.75	Providing and fixing bright finished brass door latch with necessary screws etc. complete :		

SI No.	Description of Item	Unit	Amount in Rs.
9.75.1	300x16x5 mm	each	370.49
9.75.2	250x16x5 mm	each	363.38
9.76	Providing and fixing bright finished brass 100 mm mortice latch and lock with 6 levers and a pair of leverhandles of approved quality with necessary screws etc. complete.	each	975.67
9.77	Providing and fixing bright finished brass 100 mm mortice latch with one dead bolt and a pair of lever handles of approved quality with necessary screws etc. complete.	each	751.38
9.78	Providing and fixing bright finished brass night latch of approved quality including necessary screws etc.complete.	each	1348.40
9.79	Providing and fixing special quality bright finished brass cupboard or ward robe locks with four levers of approved quality including necessary screws etc. complete.		
9.79.1	40 mm	each	519.01
9.79.2	50 mm	each	536.08
9.79.3	65 mm	each	602.94
9.79.4	75 mm	each	628.55
9.80	Providing and fixing 50 mm bright finished brass cup board or wardrobe knob of approved quality with	each	87.14
9.81	Providing and fixing bright finished brass handles with screws etc. complete:		
9.81.1	125 mm	each	295.72
9.81.2	100 mm	each	277.94
9.81.3	75 mm	each	218.19
9.82	Providing and fixing bright finished brass hanging type floor door stopper with necessary screws, etc.complete.	each	184.67
9.83	Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm),with necessary accessories and screws etc. complete.	each	2058.58
9.84	Providing and fixing aluminium extruded section brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door body tubular type universal hydraulic door closer width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete.	each	1105.82
9.85	Providing and fixing bright finished brass casement window fastener with necessary screws etc.complete.	each	96.65
9.86	Providing and fixing bright finished brass casement stays (straight peg type) with necessary screws etc.complete :		
9.86.1	300 mm weighing not less than 330 gms	each	277.22

SI No.	Description of Item	Unit	Amount in Rs.
9.86.2	250 mm weighing not less than 280 gms	each	189.13
9.86.3	200 mm weighing not less than 240 gms	each	189.13
9.87	Providing and fixing bright finished brass hasp and staple (safety type) with necessary screws etc. complete :		
9.87.1	150 mm	each	168.39
9.87.2	115 mm	each	150.96
9.87.3	90 mm	each	134.03
9.88	Providing and fixing chromium plated brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles of approved quality with necessary screws etc. complete.	each	1162.04
9.89	Providing and fixing chromium plated brass night latch of approved quality including necessary screws etc. complete.	each	1162.04
9.90	Providing and fixing special quality chromium plated brass cupboard locks with six levers of approved quality including necessary screws etc. complete.		
9.90.1	Size 40 mm	each	493.40
9.90.2	Size 50mm	each	528.96
9.90.3	Size 65 mm	each	581.60
9.90.4	Size 75 mm	each	615.75
9.91	Providing and fixing chromium plated brass 50 mm cupboard or wardrobe knobs with nuts complete.	each	172.50
9.92	Providing and fixing chromium plated brass handles with necessary screws etc. complete:		
9.92.1	125 mm	each	338.40
9.92.2	100 mm	each	303.55
9.92.3	75 mm	each	260.87
9.93	Providing and fixing chromium plated brass casement window fastener with necessary screws etc.complete.	each	180.25
9.94	Providing and fixing chromium plated brass casement stays (straight peg type) with necessary screws etc. complete :		
9.94.1	300 mm weighing not less than 330 gms	each	289.79
9.94.2	250 mm weighing not less than 280 gms	each	255.65
9.94.3	200 mm weighing not less than 240 gms	each	230.04
9.95	Providing and fixing ISI marked aluminium butt hinges anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade with necessary screws etc. complete:		
9.95.1	125x75x4 mm	each	167.38
9.95.2	125x63x4 mm	each	158.99
9.95.3	100x75x4 mm	each	131.33
9.95.4	100x63x4 mm	each	134.28
9.95.5	100x63x3.2 mm	each	134.28
9.95.6	75x63x4 mm	each	109.00

SI No.	Description of Item	Unit	Amount in Rs.
9.95.7	75x63x3.2 mm	each	91.82
9.95.8	75x45x3.2 mm	each	92.92
9.96	Providing and fixing aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc.complete :		
9.96.1	300x16 mm	each	376.53
9.96.2	250x16 mm	each	316.78
9.97	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc.complete :		
9.97.1	300x10 mm	each	157.71
9.97.2	250x10 mm	each	138.22
9.97.3	200x10 mm	each	120.63
9.97.4	150x10 mm	each	106.52
9.97.5	100x10 mm	each	80.60
9.98	Providing and fixing aluminium pull bolt lock, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws bolts,nut and washers etc. complete.	each	122.35
9.99	Providing and fixing 50 cm long aluminium kicking plate of size 100x3.15 mm, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete.	each	300.53
9.100	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :		
9.100.1	125 mm	each	86.68
9.100.2	100 mm	each	76.08
9.100.3	75 mm	each	66.04
9.101	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete.		
9.101.1	Single rubber stopper	each	71.40
9.101.2	Twin rubber stopper	each	75.81
9.102	Providing and fixing aluminium casement stays, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc.complete.	each	86.35

SI No.	Description of Item	Unit	Amount in Rs.
9.103	Providing and fixing bright finished brass 100 mm mortice latch and lock, ISI marked, with six levers and a pair of anodised (anodic coating not less than grade AC 10 as per IS : 1868) aluminium lever handles of approved quality with necessary screws etc. complete.	each	875.38
9.104	Providing and fixing aluminium tee channels (heavy duty) with rollers & stop end in pelmets as curtain rod.	Metre	199.06
9.105	Providing and fixing partition upto ceiling height consisting of G.I. frame and required board, including providing and fixing of frame work made of special section power pressed/ roll form G.I. sheet with zinc coating of 120 gms/sqm (both side inclusive), consisting of floor and ceiling channel 50mm wide having equal flanges of 32 mm and 0.50 mm thick, fixed to the floor and ceiling at the spacing of 610 mm centre to centre with dash fastener of 12.5 mm dia Metre 50 mm length or suitable anchor fastener or metal screws with nylon plugs and the studs 48 mm wide having one flange of 34 mm and other flange 36 mm and 0.50 mm thick fixed vertically within flanges of floor and ceiling channel and placed at a spacing of 610 mm centre to centre by 6 mm dia bolts and nuts, including fixing of studs along both ends of partition fixed flush to wall with suitable anchor fastener or		
9.105.1	75 mm overall thickness partition with 12.5 mm thick double skin fire rated Glass Reinforced Gypsum (GRG) plaster board conforming to IS: 2095: part 3 (Board with BIS certification marks)	Sqm	2199.56
9.105.2	5mm overall thickness partition with 12.5 mm thick double skin tapered edged plain Gypsum plaster 7 board conforming to IS: 2095: (part I): 2011 (Board with BIS certification marks)	Sqm	2174.51
9.105.3	66mm overall thickness Partition with 8mm thick double skin Calcium Silicate Board made with Calcareous & Siliceous materials reinforced with process with Compressive Strength 225 kg/sq.cm, Bending Strength 100 kg./ sq.cm cellulose fiber manufactured through autoclaving	Sqm	2224.30
9.105.4	66mm overall thickness partition using 8mm thick double skin multipurpose cement board reinforced with cellulose fibre manufactured through autoclaving process (High pressure steam cured) as per IS : 14862 with suitable fibre cement screws	Sqm	2227.15
9.105.5	66 mm overall thickness partition using 8 mm thick double skin multipurpose cement bonded wood particle board manufactured as per IS: 14276 with suitable cement bonded board screws	Sqm	2639.80
9.106	Providing and fixing PTMT handles with necessary screws etc. complete.		
9.106.1	125x34x24 mm weighing not less than 23 gms	each	62.70
9.106.2	150x34x24 mm weighing not less than 26 gms	each	116.62
9.107	Providing and fixing PTMT Butt hinges with necessary screws etc. complete.		
9.107.1	75x60x10 mm fitted with 5.5 mm dia M.S. Bright Bar Rod weighing not less than 34 gms	each	116.62
9.107.2	100x75x10 mm fitted with 5.5 mm dia MS Bright Bar Rod weighing not less than 53 gms	each	144.72

SI No.	Description of Item	Unit	Amount in Rs.
9.108	Providing and fixing PTMT Tower Bolts with 12 mm one piece rod inside and necessary screws etc., complete.		
9.108.1	152x42x18 mm weighing not less than 60 gms	each	125.58
9.108.2	202x42x18 mm weighing not less than 78 gms	each	164.19
9.109	Providing and fixing PTMT door catcher of length 72 mm and dia. of 42 mm with suitable washers weighing not less than 33 gms	each	51.63
9.110	Providing and fixing Bamboo jaffery/ fencing consisting of superior quality 25mm dia (Average) half cut bamboo placed vertically and fixed together with three numbers horizontal running members of hollock wood in scantling of section 50X25 mm, fixed with nails and G.I wire on existing support complete as per direction of Engineer-in-charge.	Sqm	735.07
9.111	Providing and fixing wooden moulded corner beading of triangular shape to the junction of panelling etc.with iron screws, plugs and priming coat on unexposed surface etc. complete 2nd class teak wood.		
9.111.1	50x50 mm (base and height)	Metre	452.26
9.112	Providing and fixing 2nd class teak wood lipping/ moulded beading or taj beading of size 18X5 mm fixed with wooden adhesive of approved quality and screws/nails on the edges of the Pre-laminated particle board as per direction of Engineer-in-charge.	Metre	106.16
9.113	Providing and fixing bright finished 100 mm mortice lock with 6 levers without pair of handles of approved quality for aluminium door, with necessary screws etc complete as per direction of Engineer- in- charge.	each	851.36
9.114	Providing and fixing magnetic catcher of approved quality in cupboard / ward robe shutters, including fixing with necessary screws etc. complete.		
9.114.1	Triple strip vertical type	each	57.12
9.114.2	Double strip (horizontal type)	each	49.29
9.115	Providing and fixing powder coated telescopic drawer channels 300 mm long with necessary screws etc.complete as per directions of Engineer- in-charge.	One set	469.31
9.116	Providing and fixing sliding arrangement in racks/ cupboards/cabinets shutter by with stainless steel rollers to run inside C or E aluminium channel section (The payment of C or E channel shall be made separately)	each	24.41

SI No.	Description of Item	Unit	Amount in Rs.
9.117	Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance ± 1 mm), with wall thickness 2.0 mm (± 0.2 mm), corners of the door frame to be Jointed with galvanized brackets and stainless steel screws, joints mitred and Plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 X 19 mm and 1mm (± 0.1 mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineer- in-charge		
9.117.1	Extruded section profile size 48x40 mm	Metre	601.03
9.117.2	Extruded section profile size 42x50 mm	Metre	350.64
9.118	Providing and fixing to existing door frames.		
9.118.1	24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanised/ plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm (± 0.2 mm) wall thickness, fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (± 0.2 mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter).	Sqm	3360.08
9.118.2	30 mm thick factory made Polyvinyl Chloride (PVC) door shutter made of styles and rails of a Upvc hollow section of size 60x30 mm and wall thickness 2 mm (± 0.2 mm), with inbuilt decorative moulding edging on one side. The styles and rails mitred and joint at the corners by means of M.S. galvanised/ plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 25x20 mm and 1 mm (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x30 mm and 2 mm (± 0.3 thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x30 mm and 2 mm (± 0.3 mm) wall thickness fixed to the shutter styles by means of plastic/ galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (± 0.1 mm) wall thickness . The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge.	Sqm	3494.66

SI No.	Description of Item	Unit	Amount in Rs.
9.118.3	25 mm thick PVC flush door shutters made out of a one piece Multi chamber extruded PVC section of the size of 762 mm X 25 mm or less as per requirement with an average wall thickness of 1 mm (\pm 0.3 mm).PVC foam end cap of size 23x10 mm are provided on both vertical edges to ensure the overall thickness of 25 mm. M.S. tube having dimensions 19 mm x 19 mm and 1.0 mm (\pm 0.1 mm) is inserted along the hinge side of the door. Core of the door shutter should be filled with High Density Polyurethane foam.The Top & Bottom edges of the shutter are covered with an end-cap of the size 25 mm X 11 mm. Door shutter shall be reinforced with special polymeric reinforcements as per manufacturer's specification and direction of Engineer-in-charge to take up necessary hardware and fixtures. Stickers indicating the locations of hardware will be pasted at appropriate places	Sqm	3709.05
9.119	Providing and fixing factory made P.V.C. door frame of size 50x47 mm with a wall thickness of 5 mm,made out of extruded 5mm rigid PVC foam sheet, mitred at corners and joined with 2 Nos of 150 mm long brackets of 15x15 mm M.S. square tube, the vertical door frame profiles to be reinforced with 19x19 mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame.The door frame to be fixed to the wall using M.S. screws of 65/100 mm size, complete as per manufacturer's specification and direction of Engineer- in-Charge.	Metre	478.28
9.120	Providing and fixing factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19 mm x 19 mm for styles and 15x15 mm for top & bottom rails. M.S.frame shall have a coat of steel primers of approved make and manufacture. M.S. frame covered with 5 mm thick heat moulded PVC 'C' channel of size 30 mm thickness, 70 mm width out of which 50 mm shall be flat and 20 mm shall be tapered in 45 degree angle on both side forming styles and 5 mm thick, 95 mm wide PVC sheet out of which 75mm shall be flat and 20 mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided both side of the panel. 10 mm (5 mm x 2) thick, 20 mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail, paneling of 5 mm thick both side PVC sheet to be fitted in the M.S. frame welded/ sealed to the styles & rails with 7 mm (5 mm+2 mm) thick x 15 mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5 mm thick PVC strip of 20 mm width is to be stuck on the interior side of the 'C' Channel using PVC solvent adhesive etc. complete as per direction of Engineer-in-charge, manufacturer's specification & drawing.		
9.120.1	30 mm thick plain PVC door shutters	Sqm	3420.38
9.120.2	30 mm thick pre laminated PVC door shutters	Sqm	3958.71

SI No.	Description of Item	Unit	Amount in Rs.
9.121	Providing and fixing Fiber Glass Reinforced plastic (FRP) Door Frames of cross-section 90 mm x 45 mm having single rebate of 32 mm x 15 mm to receive shutter of 30 mm thickness. The laminate shall be moulded with fire resistant grade unsaturated polyester resin and chopped mat. Door frame laminate shall be 2mm thick and shall be filled with suitable wooden block in all the three legs. The frame shall be covered with fiber glass from all sides. M.S. stay shall be provided at the bottom to steady the frame.	Metre	878.89
9.122	Providing and fixing to existing door frames.		
9.122.1	30 mm thick Glass Fibre Reinforced Plastic (FRP) panelled door shutter of required colour and approved brand and manufacture, made with fire - retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate for forming hollow rails and styles, with wooden frame and suitable blocks of seasoned hollow wood inside at required places for fixing of fittings, cast monolithically with 5 mm thick FRP laminate for panels conforming to IS: 14856, including fixing to frames.	Sqm	4387.49
9.122.2	30 mm thick Fiberglass Reinforced Plastic (F.R.P.) flush door shutter in different plain and wood finish made with fire retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate all around, with suitable wooden blocks inside at required places for fixing of fittings and polyurethane foam (PUF)/Polystyrene foam to be used as filler material throughout the hollow panel, casted monolithically with testing paraMetres of F.R.P. laminate conforming to table - 3 of IS: 14856, complete as per direction of Engineer-in-charge.	Sqm	4645.70
9.123	Providing and fixing factory made door frame (single rebate) made out of single piece extruded solid PVC foam profile with homogenous fine cellular structure having smooth outer integral skin having 62 mm width & 32 mm thickness, frame will be mitred & Jointed with self driven self tapping screws of size 38 mm x 4 mm & PVC solvent cement, including fixing the frame to wall with suitable dia & length anchor fastener as per manufacturer's specification and direction of Engineer-in-charge.	Metre	603.47
9.124	Providing and fixing factory made 30 mm thick door shutter made of solid PVC foam profile. The styles & rails shall be of size 75 mm x 30 mm having wall thickness 5 mm. The styles, top & bottom rails shall have one side wall thickness of 15 mm integrally extruded on the hinge side of the		
9.124.1	Non decorative finish	Sqm	3902.37
9.124.2	Decorative finish (both side wood grained finish)	Sqm	4434.44
9.125	Providing and fixing PVC rigid foam sheet 1 mm thick on existing door shutters (bathroom and W.C. doors) using synthetic rubber based adhesive.	Sqm	1498.54

SI No.	Description of Item	Unit	Amount in Rs.
9.126	Providing and fixing 12 mm thick panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick.		
9.126.1	Marine plywood conforming to IS: 710	Sqm	2689.58
9.126.2	Fire retardant plywood conforming to IS: 5509	Sqm	2864.09
9.127	Providing & Fixing decorative high pressure laminated sheet of plain / wood grain in gloss / matt/ suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, including cost of adhesive of approved quality.		
9.127.1	1.5 mm thick	Sqm	1059.08
9.127.2	1.0 mm thick	Sqm	911.04
9.128	Providing and fixing factory made Fiberglass Reinforced plastics (F.R.P.) chajja 4 mm thick of required colour, size and design made by Resin Transfer Moulding (RTM) Machine Technology, resulting in void free compact laminate in single piece, having smooth gradual slope curvature for easy drainage of water and duly reinforced by 2 nos vertically and 1 nos horizontally 50x2 mm thick M.S. flat with 12 mm in built hole for grouting on the existing wall along with the 50 mm flanges duly inserted and sealed in the wall complete in one single piece casted monolithically, including all necessary fittings . The FRP Chajja should be manufactured using unsaturated Polyester resin as per IS: 6746, duly reinforced with fibre glass chopped strand mat (CSM) as per IS: 11551 complete with protective Gel coat U/V coating on Top for complete resistance from the extreme of temperature, weather & sunlight (Only plan area of chajja shall be measured for making payment).	Sqm	6545.05
9.129	Providing and fixing cup board shutters 25 mm thick, with Pre-laminated flat pressed three layer particle board or graded wood particle board IS: 12823 marked, exterior grade (Grade I Type II), having one side decorative lamination and other side balancing lamination, including IIInd class teak wood lipping of 25 mm wide x12 mm thick with necessary screws and bright finished stainless steel piano hinges, complete as per direction of the Engineer-in-Charge	Sqm	2373.05
9.130	Providing and fixing cup board shutters with 25 mm thick veneered particle board IS : 3097 marked, exterior grade (Grade I), of approved make, including IIInd class teak wood lipping of 25 mm wide x 12 mm thick with necessary screws and bright finished stainless steel piano hinges, complete as per direction of Engineer-in-Charge.		
9.130.1	With decorative veneering on one side and commercial veneering on other side	Sqm	2174.73
9.130.2	With non decorative veneering on both sides	Sqm	2041.00

SI No.	Description of Item	Unit	Amount in Rs.
9.131	Providing and fixing factory made shutters of Pre-laminated particle board flat pressed three layer or graded wood particle board with one side decorative finish and other side balancing lamination conforming to IS: 12823 Grade I Type II, of approved design, and edges sealed with water resistant paint and lipped with aluminium 'U' type edge beading all- round the shutter, including fixing with angle cleat,grip strip, cadmium plated steel screws, including fixing of aluminium hinges 100x63x4 mm etc. complete as per architectural drawing and direction of Engineer-in-Charge (Cost of 'U' beading and hinges will be paid for separately).		
9.131.1	25 mm thick	Sqm	1995.63
9.132	Providing and fixing aluminum U beading of required size to Pre-laminated/ flush door shutter, including fixing etc. complete as per direction of Engineerin-charge.	Kg	675.25
9.133	Providing and fixing, in position concealed G.I. section for wall paneling using board of required thickness fixed on the 'W' profile (0.55 mm thick) having a knurled web of 51.55 mm and two flanges of 26 mm each with lips of 10.55 mm, placed @ 610 mm C/C in periMetre channel having one flange of 20 mm and another flange of 30 mm with thickness of 0.55 mm and web of length 27 mm. PeriMetre channel is fixed on the floor and the ceiling with the nylon sleeves @ 610 mm C/C with fully threaded self-tapping dry wall screws. Board is fixed to the 'W' profile with 25 mm countersunk ribbed head screws @ 200 mm C/C., all complete as per the drawing & directions of engineer-in-charge, the joints of the boards are finished with specially formulated jointing compound and 48mm wide jointing tape to provide seamless finish.		
9.133.1	Tapered edge calcium silicate board made with calcareous & siliceous materials reinforced with cellulose fiber manufactured through autoclaving process to give stable crystalline structure with compressive strength 225 kg/ sq.cm, Bending strength 100 kg/sq.cm.		
9.133.1.1	10mm thick	Sqm	1737.97
9.133.2	Multipurpose cement board reinforced with suitable fibre cement screw.		
9.133.2.1	8 mm thick cement fibre board as per IS : 14862	Sqm	1481.24
9.133.2.2	8 mm thick Cement bonded wood particle board as per IS:14276	Sqm	1559.51
9.133.3	Plain Gypsum plaster board conforming to IS: 2095 Part -1:2011 (Board with BIS certification marks)		
9.133.3.1	12.5 mm thick	Sqm	1452.28
9.134	Providing and fixing wire gauge shutters using stainless steel grade 304 wire gauge with wire of dia 0.5 mm and average width of aperture 1.4 mm in both directions for doors, windows and clerestory windows with necessary screws :		
9.134.1	35 mm thick shutters		

SI No.	Description of Item	Unit	Amount in Rs.
9.134.1.1	With ISI marked M.S. pressed butt hinges bright finished of required size		
9.134.1.1.1	Second class teak wood	Sqm	6623.88
9.134.1.1.2	Kiln seasoned and chemically treated hollock wood	Sqm	3926.90
9.134.1.1.3	Kiln seasoned selected class of sheesham wood	Sqm	6167.06
9.134.1.2	With ISI marked stainless steel butt hinges of required size		
9.134.1.2.1	Second class teak wood	Sqm	6776.30
9.134.1.2.2	Kiln seasoned and chemically treated hollock wood	Sqm	4568.70
9.134.1.2.3	Kiln seasoned selected class of sheesham wood	Sqm	6349.71
9.134.2	30 mm thick shutters		
9.134.2.1	with ISI marked M.S. pressed butt hinges bright finished of required size		
9.134.2.1.1	Second class teak wood	Sqm	5865.38
9.134.2.1.2	Kiln seasoned and chemically treated hollock wood	Sqm	3556.69
9.134.2.1.3	Kiln seasoned selected class of sheesham wood	Sqm	5474.33
9.134.2.2	With ISI marked stainless steel butt hinges of required size		
9.134.2.2.1	Second class teak wood	Sqm	6017.80
9.134.2.2.2	Kiln seasoned and chemically treated hollock wood	Sqm	3709.11
9.134.2.2.3	Kiln seasoned selected class of sheesham wood	Sqm	5626.75
9.135	Providing and fixing fly proof stainless steel grade 304 wire gauge, to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia. 0.50 mm all complete.		
9.135.1	With 2nd class teak wood beading 62X19 mm	Sqm	1867.03
9.135.2	With 12 mm mild steel U beading	Sqm	1211.42
9.136	Providing and fixing fire resistant door frame of section 143 x 57 mm having built in rebate made out of 16 SWG G.I. sheet (zinc coating not less than 120 gm/sqm) duly filled with vermiculite based concrete mix, suitable for mounting 60 minutes fire rated door shutters. The frame is fitted with intumescent fire seal strip of size 10x4 mm (minimum) around the frame and fixing with dash fastener of approved size and make, including applying a coat of approved brand fire resistant primer etc. complete as per direction of Engineer-in-charge (Dash fastener to be paid for separately).	Metre	1719.63
9.137	Providing and fixing 50 mm thick glazed fire resistant door shutters of 60 minutes fire rating conforming to IS:3614 (Part-II), tested and certified as per laboratory approved by Engineer-in-charge, with suitable mounting on door frame, consisting of vertical styles, lock rail, top rail 100 mm wide, bottom rail 200 mm wide, made out of 16 SWG G.I. sheet (zinc coating not less than 120 gm/m ²) duly filled FR insulation material and fixing with necessary stainless steel ball bearing hinges of approved make, including applying a coat of approved fire resistant primer etc. all complete as per direction of Engineer-in-charge (panneling to be paid for separately).	Sqm	7570.54

SI No.	Description of Item	Unit	Amount in Rs.
9.138	Providing and fixing glazing in fire resistant door shutters, fixed panels & partitions etc., with G.I. beading made out of 1.6 mm thick G.I. sheet (zinc coating not less than 120 gm/m ²) of size 20 x 33 mm screwed with M4 x 38 mm SS screws at distance 75 mm from the edges and 150 mm c/c, including applying a coat of approved fire resistant primer/powder coating of not less than 30 micron on G.I. beading, & special ceramic tape of 5 x 20 mm size etc complete in all respect as per NBC 2016, IS 16231 (Part 3):2016 and as per direction of Engineer-in-charge with glass of required thickness having 60 minutes of fire resistance both integrity & radiation control (EW60) and minimum 20 minutes of insulation (EI20). The manufacturer have to give test report/certification of fire glass and the glass should have the stamp showing the value of E, EW & EI. The glass shall be tested in approved NABL accredited lab or by any other accreditation body which operates in accordance with ISO/IEC 17011 and accredits labs as per ISO/IEC 17025 for testing and calibration scopes shall be eligible. The maximum glazing size shall not be more than 1100x2200 mm (w x h) or 2.42 sqm.	Sqm	43283.69
9.139	Providing and fixing panic bar / latch (Double point) fitted with a single body, Trim Latch & Lock on back side of the Panic Latch of reputed brand and manufacture to be approved by the Engineer- in- charge, all complete.	each	8367.69
9.140	Providing and fixing plain lining with necessary screws/nuts & bolts/ nails, including a coat of approved primer on one face, and fixed on wooden /steel frame work, complete as per direction of Engineer-in-charge (Frame work shall be paid for separately).		152.42
9.140.1	12mm thick commercial ply conforming to IS : 1328 BWR type	Sqm	1387.21
9.141	Providing and fixing PVC Door Frame of size 50x47 mm with a wall thickness of 5 mm (\pm 0.2 mm), made out of single piece extruded PVC profile, with mitred cut joints and joint with 2 nos of PVC bracket of size 191 mm x 100 mm long arms of cross section size 35 x 15 mm & self driven self tapping screws, the vertical door profiles to be reinforced with 40x20 mm M.S. rectangular tube of 0.8 mm, including providing EPDM rubber gasket weather seal throughout the frame, including jointing 5 mm PVC frame strip with PVC solvent cement on the back of the profile. The door frame to be fixed to the wall using 9x100 mm long anchor fasteners complete, all as per manufacturer's specification and direction of Engineer -in- charge.	Metre	747.32

SI No.	Description of Item	Unit	Amount in Rs.
9.142	35 mm thick factory made Solid panel PVC Door shutter, made out of single piece extruded solid PVC profiles, 5 mm (± 0.2 mm) thick, having styles & rails (except lock rail) of size 95 mm x 35 mm x 5 mm, out of which 75 mm shall be flat and 20 mm shall be tapered (on both side), having one side thickness of 16mm integrally extruded on the hinge side of the profile for better screw holding power, including reinforcing with MS tube of size 40 mm X 20 mm x 1 mm, joints of styles & rails to be mitered cut & joint with the help of PVC solvent cement, self driven self tapping screws & M.S. rectangular pipes bracket of size 190 mm X 100 mm of cross section size 35 mm x 17 mm x 1 mm at each corner. Single piece extruded 5 mm thick solid PVC Lock rail of size 115 mm x 35 mm, out of which 75 mm to be flat and 21mm to be tapered at both ends, having 15 mm solid core in middle of rail section integrally extruded, fixing the styles & rails with the help of solvent and self driven self tapping screws of 125 mm x 11 mm, including providing 5 mm Single piece solid PVC extruded sheet inserted in the door as panel, all complete as per manufacturer's specification and direction of Engineer-in-charge.		
9.142.1	Non decorative finish (matt finish)	Sqm	4067.46
9.142.2	Decorative finish (wood grained finish)	Sqm	4712.20
9.143	Providing and Fixing factory made uPVC door frame, made of uPVC extruded sections, of size 65 mm x plastic brackets and stainless steel screws, reinforcing hinge side vertical of the frames with PVC profile of Size 28 mm x 30 mm having wall thickness 2 mm (± 0.2 mm), including providing & fixing 3 nos of 126mm long stainless steel hinges to the frame, fixing the frame with jamb with required number & size of anchor dash fasteners, all complete as per manufacturer's specification and direction of Engineer-in-charge.	Metre	638.58
9.144	Providing and fixing 37 mm thick factory made PVC door shutter, styles and rails made of PVC hollow section of size 100 mm x 37 mm with wall thickness 2 mm (± 0.2 mm), with inbuilt bead on one side, styles and rails mitered cut and joint at the corners by means of 2 nos of plastic brackets of size 75 mm x 221 mm at each corner and stainless steel screws, reinforcing the hinge side of style by inserting PVC profile of size 28 mm x 30 mm, with wall thickness 2 mm (± 0.2 mm). Lock rail of size 100 mm x 37 mm, wall thickness 2 mm (± 0.2 mm) will be fixed to the vertical styles. Providing with PVC snapfit beads and panel of size 100 mm x 20 mm, and inserting 2 nos tie bar of 6 mm dia and fastening with nuts and washers complete, all as per manufacturer's specification and direction of Engineer-in-charge.	Sqm	4278.68

SI No.	Description of Item	Unit	Amount in Rs.
9.145	<p>Providing and Fixing factory made PVC door frame made of PVC extruded sections of size 75 mm x 53mm, having wall thickness 2.0 mm (\pm 0.2 mm). Both verticalssides of the frame reinforced with PVCprofile of cross section size 28 mm x 30 mm x 2 mm thickness (\pm 0.2 mm) and 75 mm x 200 mm long,including reinforcing both ends of the top frame with PVC profile. PVC Door Frame and PVCreinforcement profile to be mitred cut, jointed and fusion welded together, including providing and fixing4 nos of 125 mm long stainless steel hinges to frame, fixing the frame with jamb with required nos & sizes of anchor dash fastener, all complete as per manufacturer's specification and direction of engineer-in-charge.</p>	Metre	715.26
9.146	<p>Providing and fixing 37 mm thick factory made PVC Door shutter, styles and rails made of PVC hollowextruded printed and laminated section having overall dimension 115 mm x 37 mm with wall thickness 3mm (\pm 0.2 mm) with inbuilt beading on one side, the styles and rails mitred cut and joint at corners byinserting 2 nos PVC profile reinforcement of size 75 mm x 200 mm long with cross section size of 28 mmx 30 mm having wall thickness 2 mm (\pm 0.2 mm). Styles, rails and reinforcements to be fusion weldedtogether. Only hinge side vertical style to be reinforced with PVC profile reinforcement in full length.Printed and laminated PVC lock rail of size 110 mm x 37 mm having wall thickness 2 mm (\pm 0.2 mm) to bewelded horizontally with the vertical styles after inserting PVC profile reinforcement as in styles and rails,providing with PVC snap fit beading, panels of 100 x 20 mm printed & laminated and inserting 2 nos 6 mmdia bright steel rod horizontally with both side threaded and tightened with check nuts and washerscomplete, all as per manufacturer's specification and direction of engineer-in-charge.</p>	Sqm	4629.21
9.147A	<p>Providing and fixing factory made uPVC white colour casement/casement cum fixed glazed windowscomprising of uPVC multi-chambered frame, sash and mullion (where ever required) extruded profilesduly reinforced with 1.60 \pm 0.2 mm thick galvanized mild steel section made from roll forming process ofrequired length (shape & size according to uPVC profile), uPVC extruded glazing beads of appropriatedimension, EPDM gasket, stainless steel (SS 304 grade) friction hinges, zinc alloy (white powder coated)casement handles, G.I fasteners 100 x 8 mm size for fixing frame to finished wall, plastic packers, plasticcaps and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusionwelded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixinghardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wallshall be filled with weather proof silicon sealant over backer rod of required size and of approved quality,all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes andsilicon sealant shall be paid separately). Variation in profile dimension in higher side shall be acceptedbut no extra payment on this account shall be made.</p>		

SI No.	Description of Item	Unit	Amount in Rs.
Note:	For uPVC frame, sash and mullion extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable. uPVC profile should be tested by BSI(UK) & SKZ(Germany) @25000 weathering hours		
9.147A.1	Casement window single panel with S.S. friction hinges (300 x 19 x 1.9 mm), made of (small series) frame 47 x 50 mm & sash 47 x 68 mm both having wall thickness of 1.9 ± 0.2 mm and single glass pane glazing bead of appropriate dimension. (Area of window upto 0.75 sqm.)	Sqm	12253.53
9.147A.2	Casement window double panels with S.S. friction hinges (300 x 19 x 1.9 mm) made of (small series) frame 47 x 50 mm, sash 47 x 68 mm & mullion 47 x 68 mm all having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension. (Area of window above 0.75 sqm upto 1.50 sqm).	Sqm	11234.25
9.147A.3	Casement window double panels with top fixed with S.S. friction hinges (350 x 19 x 1.9 mm) made of (small series) frame 47 x 50 mm, sash 47 x 68 mm & mullion 47 x 68 mm all having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension. (Area of window upto 2.50 sqm).	Sqm	8739.49
9.147A.4	Casement window single panel with S.S. friction hinges (400 x 19 x 1.9 mm) made of (big series) frame 67 x 60 mm & sash 67 x 80 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of window above 0.75 sqm.)	Sqm	13638.77
9.147A.5	Casement window double panels with S.S. friction hinges (350 x 19 x 1.9 mm) made of (big series) frame 67 x 60 mm & sash / mullion 67 x 80 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of window above 1.50 sqm).	Sqm	12521.80
9.147A.6	Casement cum fixed panel window having both end single casement panel, middle fixed panels and at top completely fixed ventilator with S.S friction hinges (350 x 19 x 1.9) made of (big series) frame 67 x 60 mm, sash 67 x 80 mm & mullion 67 x 80 mm all having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of window above 3.00 sqm upto 5.00 sqm).	Sqm	9430.60
9.147B	uPVC multi-chambered frame and mullion (where ever required) extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), uPVC extruded glazing beads of appropriate dimension, EPDM gasket, G.I fasteners 100 x 8 mm size for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixing hardware and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes and silicon sealant shall be paid separately). Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made.		

SI No.	Description of Item	Unit	Amount in Rs.
Note:	For uPVC frame, sash and mullion extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable. uPVC profile should be tested by BSI(UK) & SKZ(Germany) @25000 weathering hours		
9.147B.1	Fixed window / ventilator made of (small series) frame 47 x 50 mm & mullion 47 x 68 mm both having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension. (Area upto 0.75 sqm.)	Sqm	8537.70
9.147C	comprising of uPVC multi-chambered frame, sash and mullion (where ever required) extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), uPVC extruded glazing beads of appropriate dimension, EPDM gasket, zinc alloy (white powder coated) 3D hinges and one handle on each side of panels along with zinc plated mild steel multi point locking having transmission gear, cylinder with keep and one side key, G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws, etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weatherproof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes and silicon sealant shall be paid separately). Variation in profile dimension in higher side shall be accepted but no extrapayment on this account shall be made.		
Note:	For uPVC frame, sash and mullion extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable. uPVC profile should be tested by BSI(UK) & SKZ(Germany) @25000 weathering hours		
9.147C.1	Casement door with 3D hinges made of (big series) frame 67 x 64 mm & sash 67 x 110 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of door upto 2.00 sqm).	Sqm	11972.31
9.147C.2	Casement door with top hung ventilator with 3D and S.S. friction hinges (400 x 19 x 1.9 mm) made of (big series) frame 67 x 64 mm, sash 67 x 110 mm & mullion 67 x 80 mm all having wall thickness of 2.3 ± 0.3 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of door upto 2.50 sqm)	Sqm	12623.59

SI No.	Description of Item	Unit	Amount in Rs.
9.147D	<p>Providing and fixing factory made uPVC white colour sliding glazed window upto 1.50 m in height dimension comprising of uPVC multi-chambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), appropriate dimension of uPVC extruded glazing beads and uPVC extruded interlocks, EPDM gasket, wool pile, zinc alloy (white powder coated) touch locks with hook, zinc alloy body with single nylon rollers (weight bearing capacity to be 41kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, including drilling of holes finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single /double glass panes, wire mesh and silicon sealant shall be paid separately). Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made.</p>		
Note:	<p>For uPVC frame and sash extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable. uPVC profile should be tested by BSI(UK) & SKZ(Germany) @25000 weathering hours</p>		
9.147D.1	<p>Two track two panels sliding window made of (small series) frame 52 x 44 mm & sash 32 x 60 mm both having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension. (Area of window upto 1.75 sqm)</p>	Sqm	8880.99
9.147D.2	<p>Three track three panels sliding window with fly proof SS wire mesh (Two nos. glazed & one no. wire mesh panels) made of (small series) frame 92 x 44 mm & sash 32 x 60 mm both having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension (Area of window upto 1.75 sqm).</p>	Sqm	11683.65
9.147D.3	<p>Two track two panels sliding window made of (big series) frame 67 x 50 mm & sash 46 x 62 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension . (Area of window above 1.75 sqm upto 2.50 sqm).</p>	Sqm	9087.17
9.147D.4	<p>Three track three panels sliding window with fly proof S.S wire mesh (Two nos. glazed & one no. wire mesh panels) made of (big series) frame 116 x 45 mm & sash 46 x 62 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of window above 1.75 sqm).</p>	Sqm	11209.38
9.147D.5	<p>Three track three panels sliding window made of (big series) frame 116 x 45 mm & sash 46 x 62 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of window above 1.75 sqm)</p>	Sqm	10672.18

SI No.	Description of Item	Unit	Amount in Rs.
9.147E	<p>Providing and fixing factory made uPVC white colour sliding glazed window above 1.50 m in height dimension comprising of uPVC multi-chambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), appropriate dimension of uPVC extruded glazing beads, uPVC extruded interlocks and uPVC extruded Inline sash adaptor (if required), EPDM gasket, wool pile, zinc alloy (white powder coated) handle on one side of extreme panel along with zinc plated mild steel multi point locking having transmission gear with keeps, zinc alloy (white powder coated) touch lock with hook (if required for wire mesh panel), stainless steel (SS 304 grade) body with adjustable double nylon rollers (weight bearing capacity to be 120 kg), G.I fasteners 100 x 8 mm size for coated touch lock with hook (if required for wire mesh panel), stainless steel (SS 304 grade) body with mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes, wire mesh and silicon sealant shall be paid separately). Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made.</p>		
Note:	<p>For uPVC frame and sash extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable. uPVC profile should be tested by BSI(UK) & SKZ(Germany) @25000 weathering hours</p>		
9.147E.1	<p>Two track two panels sliding window made of (big series) frame 67 x 50 mm & sash 46 x 62 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of window above 2.50 sqm upto 4.00 sqm.)</p>	Sqm	9038.73
9.147E.2	<p>Two track four panels sliding window made of (big series) frame 67 x 50 mm & sash 46 x 62 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of window above 4.00 sqm upto 8.00 sqm).</p>	Sqm	7837.95

SI No.	Description of Item	Unit	Amount in Rs.
9.147F	<p>Providing and fixing factory made uPVC white colour sliding glazed door comprising of uPVC multi-chambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), appropriate dimension uPVC extruded glazing beads, uPVC extruded interlock and uPVC extruded Inline sash adaptor (if required), EPDM gasket, wool pile, zinc alloy (white powder coated) handle with key on one side of extreme panels along with zinc plated mild steel multipoint locking having transmission gear with keeps, zinc alloy (white powder coated) crescent lock (if required), stainless steel (SS 304 grade) body with adjustable double nylon rollers (weight bearing capacity to be 120 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backerrod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes, wire mesh and silicon sealant shall be paid separately). Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made.</p>		
Note:	<p>For uPVC frame and sash extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable. uPVC profile should be tested by BSI(UK) & SKZ(Germany) @25000 weathering hours</p>		
9.147F.1	Two track two panels sliding door made of (big series) frame 67 x 50 mm & sash 46 x 82 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of door above 2.00 sqm upto 5.00 sqm)	Sqm	7963.43
9.147F.2	Two track four panels sliding door made of (big series) frame 67 x 50 mm & sash 46 x 82 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of door above 8.00 sqm upto 10.00 sqm).	Sqm	7084.13
9.147F.3	Three track three panels sliding door made of (big series) frame 116 x 45 mm & sash 46 x 82 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of door above 5.00 sqm)	Sqm	8023.34
9.147F.4	Three track three panels sliding door with fly proof S.S wire mesh (Two nos. glazed & one no. wire mesh panels) made of (big series) frame 116 x 45 mm & sash 46 x 82 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of door above 2.01 sqm upto 5.00 sqm)	Sqm	10167.58
9.148	Providing and fixing stainless steel (SS-304 grade) friction hinges to the side/top hung uPVC windows, of approved quality, with necessary stainless steel screws etc. as per direction of Engineer-in-charge.		
9.148.1	200 x 19 x 1.9 mm	each	364.28
9.148.2	250 x 19 x 1.9 mm	each	403.40
9.148.3	300 x 19 x 1.9 mm	each	439.40

SI No.	Description of Item	Unit	Amount in Rs.
9.148.4	350 x 19 x 1.9 mm	each	597.45
9.148.5	400 x 19 x 1.9 mm	each	603.71
9.149	Providing and fixing casement handle made of zinc alloyed (white powder coated) for uPVC casement window with necessary screws etc. complete.	each	222.97
9.150	Providing and fixing zinc alloyed (white powder coated) touch lock for uPVC sliding window with necessary screws etc. complete.	each	197.93
9.151	Providing and fixing steel roller for uPVC sliding window with necessary screws etc. complete.	each	113.42
9.152	Providing and fixing steel roller for uPVC sliding door with necessary screws etc. complete.	each	183.84
9.153	Providing and fixing steel (white power coated) crescent lock for uPVC sliding window/ door with necessary screws etc. complete.	each	191.67
9.154	Providing and fixing frame work for partitions/ wall lining etc. made of 50x50x1.6 mm hollow MS tube, placed along the walls, ceiling and floor in a grid pattern with spacing @ 60 cm centre to centre bothways (vertically & horizontally) or at required spacing near opening, with necessary welding at junctions and fixing the frame to wall/ ceiling/ floors with steel dash fasteners of 8 mm dia, 75 mm long bolt, including making provision for opening for doors, windows, electrical conduits, switch boards etc., including providing with two coats of approved steel primer etc. complete, all as per direction of Engineer-in-charge.	Kg	169.57
9.155	Providing and fixing panelling or paneling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (area of opening for panel inserts excluding portion inside grooves or rebated to be measured). Panelling for panelled and glazed shutters 25mm to 40mm thick: Prelaminated with decorative lamination on both side exterior Grade - I MDF Board 12 mm thick confirming to IS:14587	Sqm	2591.29
9.156	Providing and fixing Pre -laminated medium density fibre board exterior grade (Grade-I) IS:14587:1999 marked, to frame, backing or studding with screws etc. complete (Frames, backing or studding to be paid separately).		
9.156.1	Pre-laminated with decorative lamination on both side exterior Grade - I MDF Board 12 mm thick confirming to IS:14588	Sqm	1561.23
9.156.2	Pre-laminated with decorative lamination on both side exterior Grade - I MDF Board 18 mm thick confirming to IS:14587	Sqm	2053.57

SI No.	Description of Item	Unit	Amount in Rs.
9.157	Providing and fixing Pre-laminated medium density fibre board IS: 14587:1998 marked, with one sidedecorative lamination other side balancing lamination Grade-I(exterior grade) in shelves with screws andfittings wherever required, edges to be sealed with PVC edge bending tape 2.00 mm thick of approvedbrand (fittings to be paid separately).		
9.157.1	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 18 mm thick confirming to IS:14588	Sqm	1927.54
9.157.2	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 25 mm thick confirming to IS:14587	Sqm	2965.66
9.158	Providing and fixing in wall lining medium density fibre board IS: 14587:1998 marked, Pre-laminated onside decorative lamination and other side balancing lamination, with necessary fixing arrangement andscrews etc. complete.		
9.158.1	12 mm thick.	Sqm	1624.16
9.158.2	18 mm thick.	Sqm	1810.38
9.158.3	25 mm thick.	Sqm	2891.73
9.159	Providing and fixing 25mm thick pre-laminated medium density fibre board exterior grade (Grade-I)IS:14587:1998 marked with one side decorative and other side balancing lamination for cupboardshutters edges to be sealed with PVC edge bending tape 2.00 mm thick of approved brand including ISImarked nickel plated bright finishing M.S. piano hinges conforming to IS:3818 marked with necessaryscrew etc all complete.	Sqm	3138.84
9.160	Providing and fixing skirting with Pre-laminated medium density fibre board exterior grade (Grade-I)conforming to IS: 14587:1998 marked, with (one side decorative and other side balancing lamination andedges to be sealed with PVC edge bending tape 2.00 mm thick of approved brand with necessary fixingarrangements and screws, including drilling necessary holes for rawl plugs etc. all complete.		
9.160.1	18 mm thick.	Sqm	2690.40
9.160.2	25 mm thick.	Sqm	3771.74
9.161	Providing and fixing fire resistant door frame of section 50 x 60 mm on horizontal side & 35 x 60 mm onvertical sides having built in rebate made out of 1.6 mm thick GI sheet (Zinc coating not less than120gm/m2) suitable for mounting 120 min Fire Rated Glazed Door Shutters. The frame shall be filled withMineral wool Insulation having density min 96Kg/m3 . The frame will have a provision of G.I. Anchorfastners 14 nos (5 each on vertical style & 4 on horizontal style of size M10 x 80) suitable for fixing inthe opening along with Factory made Template for SS Ball Bearing Hinges of Size 100x89x3mm for fixingof fire rated glazed shutter . The frame shall be finished with a approved fire resistant primer or Powdercoating of not less than 30 micron in desired shade as per the directions of Engineer - in- charge . (Costof SS ball bearing hinges is excluded).	Metre	2133.76

SI No.	Description of Item	Unit	Amount in Rs.
9.162	Providing and fixing 60 mm thick glazed fire resistant door shutters of 120 min Fire Rating confirming to IS:3614 (Part II) or EN1634-1:1999, tested and certified as per laboratory approved by Engineer-in-charge, with suitable mounting on door frame, consisting of vertical styles, top rail & side rail 60 mm x 60 mm wide and bottom rail of 110 mm x 60 mm made out of 1.6mm thick G.I. sheet (zinc coating not less than 120gm/m ²) duly filled mineral wool insulation having density min 96 kg/m ³ and fixing with necessary stainless steel ball bearing hinges of size 100x89x3mm of approved make, including applying a coat of approved fire resistant primer or powder coating not less than 30 micron etc all complete as per approved fire resistant primer or powder coating not less than 30 micron etc all complete as per	Sqm	11457.31
9.163	Providing and fixing non load bearing fixed frame for fire resistant glazed Partition for 120 minutes Fire Rating, made out to a profile of dimension 60mm x 70 mm of 1.6 mm thick galvanised steel sheet as per test evidence suitable for fixing fire rated glass for 120 minutes of both integrity & radiation control (EW120) & minimum 20 minutes of insulation (EI20). The profile has to be fixed to the supporting construction by means of anchor fasteners of size M10 x 80, every 150 mm from the edges and every 501mm (approx) c/c. Linear measurement of frame shall be measured for payment. The frame shall be filled with mineral wool insulation of density min 96kg/ m ³ . and finished with a approved fire resistant primer or Powder coating of not less than 30 micron in desired shade as per NBC 2016, IS 16231 (Part 3):2016 and directions of Engineer-in-charge.	Metre	2133.76
9.164	Providing and fixing glazing in fire resistant door shutters, fixed panels & partitions etc., with G.I. beading made out of 1.6 mm thick G.I. sheet (zinc coating not less than 120 gm/m ²) of size 20 x 33 mm screwed with M4 x 38 mm SS screws at distance 75 mm from the edges and 150 mm c/c, including applying a coat of approved fire resistant primer/powder coating of not less than 30 micron on G.I. beading, & special ceramic tape of 5 x 20 mm size etc complete in all respect as per NBC 2016, IS 16231 (Part 3):2016 and as per direction of Engineer-in-charge with glass of required thickness having 120 minutes of fire resistance both integrity & radiation control (EW120) and minimum 20 minutes of insulation (EI20). The manufacturer have to give test report/certification of fire glass and the glass should have the stamp showing the value of E, EW & EI. The glass shall be tested in approved NABL accredited lab or by any other accreditation body which operates in accordance with ISO/IEC 17011 and accredits labs as per ISO/IEC 17025 for testing and calibration scopes shall be eligible. The maximum glazing size shall not be more than 1100x2200 mm (w x h) or 2.42 sqm.	Sqm	50396.88
9.165	Providing and fixing bright /matt finished Stainless Steel handles of approved quality & make with necessary screws etc all complete.		
9.165.1	125 mm	each	127.84
9.165.2	100mm	each	97.39

SI No.	Description of Item	Unit	Amount in Rs.
9.165.3	75 mm	each	60.97
9.166	Providing and fixing 18mm thick both sides Pre-laminated cement bonded wood particle board as per IS :15786:2008 of approved brand and shade with suitable full threaded steel screws etc. in partitions, boxes,shelves, racks and cupboard, kitchen cabinet under kitchen counter etc. all complete as per direction of Engineer-in-charge (Note: Fittings to be paid separately).		
9.166.1	18 mm thick	Sqm	1750.84
9.167	Providing and fixing 6mm thick both sides Pre-laminated cement bonded wood particle board as per IS :15786:2008 of approved brand and shade with suitable full threaded steel screws etc. on the backing of racks, drawer, cupboard, kitchen cabinet under kitchen counter etc. all complete as per direction of Engineer-in-charge.	Sqm	1272.93
9.168	Providing and fixing cupboard shutter with 19mm thick one side decorative and other side balancing lamination factory pressed BWP grade marine ply as per IS 710 of approved brand including 2mm thick PVC edge banding tape with hot glue by edge bending machine etc. with auto closing spring loaded hinges (hydraulic type) etc. complete as per direction of Engineer-in-charge.(Payment of providing and fixing auto closing hinges shall be paid separately)	Sqm	3769.35
9.169	Providing and fixing 19mm thick both side balancing lamination factory pressed BWP grade marine ply as per IS 710 of approved brand boxes,shelves,racks, almirah, cupboard and drawer etc. including necessary nails,screws etc. complete as per direction of Engineer-in-charge.	Sqm	3456.73
9.170	Providing and fixing stainless steel fancy handle of approved make fixed with SS screws etc. complete as per direction of Engineer-in-charge.		
9.170.1	200 mm	each	168.20
9.171	Providing and fixing stainless steel soft closing spring hinges at 0 degree hinges (hydraulic type) of approved make/brand to cupboard shutters with full threaded steel screws including making necessary recess in board and finished etc. complete as per direction of Engineer-in-charge.	each	24.80
9.172	Providing and fixing stainless steel soft closing heavy type telescopic drawer channels of approved make 501 mm long with screws etc. complete as per directions of Engineer- in-charge.	One set	82.36

SI No.	Description of Item	Unit	Amount in Rs.
9.173	Providing and fixing ready made 304 grade stainless steel Modular kitchen basket and accessories such as right angle basket (Plain Cup & Saucer, plant, Partition, Bottle rack, Thali, Cutlery) kitchen utensil basket, Dinner set basket, kitchen grain basket, Multipurpose basket as per site requirement including finishing (wherever required) and fittings. The same shall be fixed with necessary stainless steel nuts & bolts, Stainless Steel screws & telescopic channel etc. as per direction of Engineer-in-charge. (For payment purpose only weight of Stainless steel basket shall be considered excluding weight of all fixing accessories such as nuts, bolts, fasteners telescopic basket channels etc. Payment of providing and fixing telescopic channel shall be paid separately)	Kg	464.94
9.174	Providing and fixing 2mm thick 16 to 19mm wide PVC edge binding tape of approved quality for cupboard/wardrobe shutters including necessary synthetic resin hot pressed to edges on binding machine etc. complete as per directions of Engineer-in-charge.	Metre	75.67

SUB HEAD - 10.0
STEEL WORK

SI No.	Description of Item	Unit	Amount in Rs.
10.1	Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting,	Kg	141.67
10.2	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including	Kg	185.73
10.3	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2 mm and braced	Sqm	12246.61
10.4	Providing and fixing 1 mm thick M.S. sheet sliding-shutters, with frame and diagonal braces of 40x40x7	Sqm	8186.05
10.5	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3 mm M.S.		
10.5.1	Using M.S. angels 40x40x6 mm for diagonal braces	Sqm	6363.44
10.5.2	Using flats 30x6mm for diagonal braces and central cross piece	Sqm	6221.24
10.6	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked		
10.6.1	80x1.25 mm M.S. laths with 1.25 mm thick top cover	Sqm	4142.27
10.6.2	80x1.20 mm M.S. laths with 1.20 mm thick top cover	Sqm	3955.05
10.6.3	80x0.90 mm M.S. laths with 0.90 mm thick top cover	Sqm	3386.99
10.7	Providing and fixing ball bearing for rolling shutters.	each	664.37
10.8	Extra for providing mechanical device chain and crank operation for operating rolling shutters.		
10.8.1	Exceeding 10.00 sqm and upto 16.80 sqm in the area	each	1543.82
10.8.2	Exceeding 16.80 sqm in area	Sqm	1543.82
10.9	Extra for providing grided rolling shutters manufactured out of 8 mm dia M.S. bar instead of laths as per	Sqm	790.20
10.10	Fixing standard steel glazed doors, windows and ventilators in walls, including fixing of float glass		
10.10.1	Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6	Kg	78.99
10.10.2	Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)	Kg	41.54
10.11	Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators, side/top		
10.11.1	Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6	Kg	230.52
10.11.2	Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)	Kg	152.60

SI No.	Description of Item	Unit	Amount in Rs.
10.12	Extra for providing and fixing steel beading of size 10 x 10 x 1.6 mm (box type), approved shape and section with screws instead of glazing clips and metal sash putty, in steel doors, windows, ventilators and composite units.	metre	73.33
10.13	Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints		
10.13.1	Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6	Kg	170.91
10.13.2	Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)	Kg	164.49
10.14	Providing and fixing pressed steel door frames conforming to IS: 4351, manufactured from commercial		
10.14.1	Profile B		
10.14.1.1	Fixing with adjustable lugs with split end tail to each jamb	metre	507.36
10.14.1.2	Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)	metre	529.70
10.14.2	Profile C		
10.14.2.1	Fixing with adjustable lugs with split end tail to each jamb	metre	576.65
10.14.2.2	Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)	metre	592.30
10.14.3	Profile E		
10.14.3.1	Fixing with adjustable lugs with split end tail to each jamb	metre	623.60
10.14.3.2	Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)	metre	639.25
10.15	Providing and fixing M.S. Tubular frames for doors, windows, ventilators and cupboard with rectangular/		
10.15.1	Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6	Kg	189.22
10.15.2	Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)	Kg	173.47
10.16	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including		
10.16.1	Hot finished welded type tubes	Kg	203.11
10.16.2	Hot finished seamless type tubes	Kg	218.05
10.16.3	Electric resistance or induction butt welded tubes	Kg	180.69
10.17	Providing and fixing M.S. fan clamp type I or II of 16 mm dia M.S. bar, bent to shape with hooked ends in	each	227.20
10.18	Providing and fixing circular/ Hexagonal cast iron or M.S. sheet box for ceiling fan clamp, of internal dia	each	239.96
10.19	Providing and fixing mild steel round holding down bolts with nuts and washer plates complete.	Kg	118.89

SUB HEAD - 10.0 STEEL WORK

SI No.	Description of Item	Unit	Amount in Rs.
10.20	Providing and fixing bolts including nuts and washers complete.	Kg	155.01
10.21	Providing and fixing M.S. rivets of sizes in position.	Kg	321.41
10.22	Welding by gas or electric plant including transportation of plant at site etc. complete.	Cm	18.09
10.25	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and		
10.25.1	In stringers, treads, landings etc. of stair cases, including use of chequered plate wherever required, all	Kg	172.63
10.25.2	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	Kg	212.69
10.26	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing,		
10.26.1	M.S. tube	Kg	210.64
10.26.2	E.R.W. tubes	Kg	196.87
10.26.3	G.I. pipes	Kg	234.29
10.27	Providing and fixing carbon steel galvanised (minimum coating 5 micron) dash fastener of 10 mm dia		
10.27.1	10 x 60 mm	each	137.95
10.27.2	10 x 80 mm	each	141.37
10.27.3	10 x 120 mm	each	177.40
10.27.4	10 x 140 mm	each	196.89
10.27.5	10 x 160 mm	each	240.61
10.28	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc.,	Kg	906.01
10.29	Providing & fixing fly proof wire gauze to windows, clerestory windows & doors with M.S. Flat 15x3 mm		
10.29.1	Galvanised M.S. Wire gauze with 0.63 mm dia wire and 1.4 mm aperture on both sides	Sqm	897.74
10.29.2	Stainless steel (grade 304) wire gauze of 0.5 mm dia wire and 1.4 mm aperture on both sides	Sqm	1208.89
10.30	Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows,		
10.30.1	4.0 mm thick glass panes	Sqm	1655.59
10.30.2	5.5 mm thick glass panes	Sqm	1923.19
10.31	Providing and fixing angle iron frames for doors, windows and ventilators of mild steel Angle sections of	Kg	159.76

**SUB HEAD - 11.0
FLOORING WORK**

Sl No.	Description of Item	Unit	Amount in Rs.
11.1	Brick on edge flooring with bricks of class designation 7.5 on a bed of 12 mm cement mortar, including filling the joints with same mortar, with common burnt clay non modular bricks:		
11.1.1	1:4 (1 cement : 4 coarse sand)	Sqm	1365.83
11.1.2	1:6 (1cement : 6 coarse sand)	Sqm	1272.68
11.2	Dry brick on edge flooring in required pattern with bricks of class designation 7.5 on a bed of 12	Sqm	1067.93
11.3	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished		
11.3.1	40 mm thick with 20 mm nominal size stone aggregate	Sqm	683.05
11.4	52 mm thick cement concrete flooring with concrete hardener topping, under layer 40 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6 mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacturer's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.	Sqm	1069.99
11.5	62 mm thick cement concrete flooring with concrete hardener topping, under layer 50 mm thick	Sqm	1161.43
11.6	Cement plaster skirting up to 30 cm height, with cement mortar 1:3 (1 cement : 3 coarse sand),		
11.6.1	18 mm thick	Sqm	713.61
11.7	Cement concrete pavement with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 21	Cum	10112.75
11.8	Extra for making chequers of approved pattern on cement concrete floors, steps, landing,	Sqm	77.14
11.9	40 mm thick marble chips flooring rubbed and polished to granolithic finish, under layer 34 mm		
11.9.1	Dark shade pigment with ordinary cement	Sqm	1213.75
11.9.2	Light shade pigment with white cement	Sqm	1349.63
11.9.3	Medium shade pigment with 50% white cement and 50% ordinary cement	Sqm	1275.98
11.9.4	White cement without any pigment	Sqm	1309.83
11.9.5	Light shade pigment with ordinary cement	Sqm	1225.46
11.9.6	Ordinary cement without any pigment	Sqm	1171.11
11.10	40 mm thick marble chips flooring, rubbed and polished to granolithic finish, under layer 31 mm		

SI No.	Description of Item	Unit	Amount in Rs.
11.10.1	Dark shade pigment with Ordinary cement	Sqm	1293.56
11.10.2	Light shade pigment with white cement	Sqm	1795.78
11.10.3	Medium shade pigment with 50% white cement and 50% ordinary cement	Sqm	1382.16
11.10.4	White cement without any pigment	Sqm	1409.86
11.10.5	Light shade pigment with ordinary cement	Sqm	1310.44
11.10.6	Ordinary cement without any pigment	Sqm	1232.66
11.11	40 mm thick marble chips flooring, rubbed and polished to granolithic finish, under layer 28 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size) and top layer 12 mm thick with white, black, chocolate, grey yellow or green marble chips of sizes from 7 mm to 10 mm nominal size, laid in cement marble powder mix 3:1 (3 cement : 1 marble powder) by weight in proportion of 2:3 (2 cement marble powder mix : 3 marble chips) by volume, including cement slurry etc. complete :		
11.11.1	Dark shade pigment with ordinary cement	Sqm	1369.08
11.11.2	Light shade pigment with white cement	Sqm	1640.80
11.11.3	Medium shade pigment with 50% white cement and 50% ordinary cement	Sqm	1493.24
11.11.4	White cement without any pigment	Sqm	1532.69
11.11.5	Light shade pigment with ordinary cement	Sqm	1392.47
11.11.6	Ordinary cement without any pigment	Sqm	1284.36
11.12	Marble chips skirting up to 30 cm height, rubbed and polished to granolithic finish, top layer 7		
11.12.1	18 mm thick with under layer 12 mm thick in cement plaster 1:3 (1 cement : 3 coarse sand) :		
11.12.1.1	Dark shade pigment with ordinary cement	Sqm	1806.84
11.12.1.2	Light shade pigment with white cement	Sqm	2025.14
11.12.1.3	Medium shade pigment with 50% white cement and 50% ordinary cement	Sqm	2018.50
11.12.1.4	White cement without any pigment	Sqm	1888.37
11.12.1.5	Light shade pigment with ordinary cement	Sqm	1900.98
11.12.1.6	Ordinary cement without any pigment	Sqm	1849.48
11.13	Providing and fixing glass strips in joints of terrazo/ cement concrete floors.		
11.13.1	40 mm wide and 4 mm thick	Meter	89.12
11.14	Extra for laying terrazo flooring on staircase treads not exceeding 30 cm in width, including cost of forming, nosing etc.	Sqm	85.27
11.15	Crazy marble stone flooring, including filling the gaps with light shade pigment with white cement marble powder mixture (3 parts of white cement : 1 part of marble powder) by weight in proportion of 4:7 (4 cement marble powder mix : 7 white, black or white and black marble chips of sizes from 1 mm to 4 mm nominal size by volume), with under layer 25 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size), including rubbing, polishing and cement slurry etc. complete :		

SI No.	Description of Item	Unit	Amount in Rs.
11.15.1	18 mm thick crazy marble stone white, black or as specified	Sqm	2157.27
11.16	Precast terrazo tiles 22 mm thick with graded marble chips of size upto 12 mm, laid in floors, and landings, jointed with neat cement slurry mixed with pigment to match the shade of the tiles, including rubbing and polishing complete, on 20 mm thick bed of cement mortar 1:4 (1 cement:4 coarse sand) :		
11.16.1	Light shade pigment using white cement	Sqm	1984.20
11.16.2	Medium shade pigment using 50% white cement and 50% ordinary cement	Sqm	1869.62
11.16.3	Dark shade pigment using ordinary cement	Sqm	1775.57
11.16.4	Ordinary cement without any pigment	Sqm	1689.66
11.17	Extra if terrazo tiles are laid in treads of steps not exceeding 30 cm in width.	Sqm	106.79
11.18	Precast terrazo tiles 22 mm thick with graded marble chips of sizes upto 12 mm, in skirting and risers of steps not exceeding 30 cm in height, on 12 mm thick cement plaster 1:3 (1 cement : 3 coarse sand), jointed with neat cement slurry mixed with pigment to match the shade of the tiles, including rubbing and polishing complete with tiles of :		
11.18.1	Light shade pigment using white cement	Sqm	2710.13
11.18.2	Medium shades pigment using 50% white cement and 50% ordinary cement	Sqm	2589.90
11.18.3	Dark shade pigment using ordinary cement	Sqm	2489.13
11.18.4	Ordinary cement without any pigment	Sqm	2319.45
11.19	Chequered terrazo tiles 22 mm thick with graded marble chips of size up to 6 mm in floors, jointed with neat cement slurry mixed with pigment to match the shade of the tiles, including rubbing and polishing complete, on 20 mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand) :		
11.19.1	Light shade pigment using white cement	Sqm	2012.37
11.19.2	Medium shade pigment using 50% white cement, 50% ordinary cement	Sqm	1932.21
11.19.3	Dark shade pigment using ordinary cement	Sqm	1855.38
11.19.4	Ordinary cement without any pigment	Sqm	1769.47
11.20	Chequerred precast cement concrete tiles 22 mm thick in footpath & courtyard, jointed with neat cement slurry mixed with pigment to match the shade of tiles, including rubbing and cleaning etc. complete, on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand).		
11.20.1	Light shade pigment using white cement	Sqm	1710.46
11.20.2	Medium shade pigment using 50% white cement 50% Grey cement	Sqm	1501.26
11.20.3	Dark shade pigment using ordinary cement	Sqm	1158.28
11.20.4	Ordinary cement without any pigment	Sqm	1158.28

SUB HEAD - 11.0 FLOORING WORK

SI No.	Description of Item	Unit	Amount in Rs.
11.21	Providing and fixing 10 mm thick acid and/or alkali resistant tiles of approved make and colour using acid and/or alkali resisting mortar bedding, and joints filled with acid and/or alkali resisting cement as per IS : 4457, complete as per the direction of Engineer-in- Charge.		
11.21.1	In flooring on a bed of 10 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand)		
11.21.1.1	Acid and alkali resistant tile	Sqm	1901.71
11.21.2	In dado/skirting on 12 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand)		
11.21.2.1	Acid and alkali resistant tile	Sqm	2006.97
11.22	Tile work in skirting, risers of steps and dado up to 2 m height over 12 mm thick bed of cementmortar 1:3 (1 cement :3 coarse sand) and jointed with grey cement slurry @ 3.3 kg/sqm,including pointing in white cement mixed with pigment of matching shade complete.		
11.22.1	Marble tiles (polished) Raj Nagar		
11.22.1.1	8 mm thick	Sqm	1637.04
11.23	Marble stone flooring with 18 mm thick marble stone, as per sample of marble approved by Engineer-in-charge, over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with grey cement slurry, including rubbing and polishing complete with :		
11.23.1	Makrana white second quality	Sqm	4085.03
11.23.2	Raj Nagar plain	Sqm	2997.07
11.23.3	Agaria White	Sqm	4758.10
11.23.4	Black Zebra	Sqm	3059.24
11.23.5	Udaipur green marble	Sqm	2555.34
11.23.6	Pink plain marble	Sqm	2663.32
11.24	Extra for pre finished nosing to treads of steps of marble stone.	Meter	643.96
11.25	Extra for marble stone flooring in treads of steps and risers using single length up to 2.00 metre.	Sqm	747.88
11.26	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :		
11.26.1	25 mm thick	Sqm	3620.31
11.27	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	Sqm	2938.11
11.28	40 mm thick fine dressed stone flooring over 20 mm (average) thick base of cement mortar 1:5 (1 cement : 5 coarse sand) with joints finished flush.		
11.28.1	Red sand stone	Sqm	1308.90

SUB HEAD - 11.0 FLOORING WORK

SI No.	Description of Item	Unit	Amount in Rs.
11.28.2	White sand stone	Sqm	1355.84
11.29	40 mm thick fine dressed stone flooring over 20 mm (average) thick base of cement mortar 1:6 (1 cement : 5 coarse sand), including pointing with cement mortar 1:2 (1 cement : 2 stone dust) with an admixture of pigment to match the shade of stone.		
11.29.1	Red sand stone	Sqm	1545.51
11.29.2	White sand stone	Sqm	1592.46
11.30	40 mm thick rubbed stone flooring over 20 mm (average) thick base of cement mortar 1:5 (1 cement : 5 coarse sand) with joints 3 mm thick, side buttered with cement mortar 1:2 (1 cement : 2 stone dust) admixed with pigment to match the shade of stone and pointing with same mortar.		
11.30.1	Red sand stone	Sqm	1688.93
11.30.2	White sand stone	Sqm	1735.88
11.31	Extra for pre finished nosing in treads of steps of Kota stone/ sand stone slab.	Meter	190.56
11.32	Extra for Kota stone/ sand stone in treads of steps and risers using single length up to 1.05 metre.	Sqm	39.92
11.33	25 mm wooden planking, tongued and grooved in flooring, including fixing with iron screws complete with :		
11.33.1	Second class teak wood	Sqm	6921.26
11.33.2	Second class deodar wood	Sqm	65417.99
11.34	38 mm thick wood block flooring of first class teak wood laid over 25 mm thick leveling layer of cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 10 mm nominal size) to be paid separately, coated with a thin layer of hot bitumen penetration 80/25 (blown type) @ 2.45 kg per sqm, including fixing blocks in position after dipping in hot bitumen (blown type) up to half depth, planed, levelled smooth and finished complete.	Sqm	13769.93
11.35	Providing and fixing M.S. angle 50x50x5 mm to act as nosing with lugs of M.S. flat 10x5 mm, 10 cm long, forked at end 60cm apart (minimum three lugs to be provided), including necessary welding and applying a priming coat of approved primer on exposed surface etc. complete.	Kg	197.31

SI No.	Description of Item	Unit	Amount in Rs.
11.37	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), Jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc., complete.	Sqm	1382.93
11.37A	Providing and fixing 1st quality ceramic glazed floor tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement: 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	Sqm	1346.64
11.38	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick bed of cement mortar 1:4 (1 Cement : 4 Coarse sand), jointing with grey cement slurry @ 3.3 kg/ sq.m including pointing the joints with white cement and matching pigments etc., complete.	Sqm	1456.72
11.39	Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in colours White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement: 4 Coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete.	Sqm	2174.65

SI No.	Description of Item	Unit	Amount in Rs.
11.40	Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick Cement Mortar 1:4 (1 Cement : 4 Coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including pointing the joints with white cement and matching pigments etc., complete.	Sqm	1517.01
11.41	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete.		
11.41.1	Size of Tile 500x500 mm	Sqm	1564.58
11.41.2	Size of Tile 600x600 mm	Sqm	1654.99
11.41.3	Size of Tile 800x800 mm	Sqm	2155.46
11.41.4	Size of Tile 1000x1000 mm	Sqm	2884.56
11.41A	Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily.		
11.41A.1	Double charge vitrified tile polished finish of size		
11.41A.1.1	Size of Tile 600 x 600 mm	Sqm	1698.31
11.41A.1.2	Size of Tile 800 x 800 mm	Sqm	2004.84
11.41A.1.3	Size of Tile 600 x 1200 mm	Sqm	2128.79
11.41A.1.4	Size of Tile 800 x 1600 mm	Sqm	2376.68
11.41A.1.5	Size of Tile 1000 x 1000 mm	Sqm	2500.63
11.41A.2	Glazed vitrified floor tiles polished finish of size		
11.41A.2.1	Size of Tile 600 x 600 mm	Sqm	1942.14
11.41A.2.2	Size of Tile 600 x 1200 mm	Sqm	2500.63
11.41A.2.3	Size of Tile 800 x 800 mm	Sqm	2128.79
11.41A.2.4	Size of Tile 800 x 1200 mm	Sqm	2376.68
11.41A.2.5	Size of Tile 1200 x 1200 mm	Sqm	2611.45
11.41A.3	Glazed Vitrified tiles Matt/Antiskid finish of size		
11.41A.3.1	Size of Tile 600 x 600 mm	Sqm	1570.29
11.41A.3.2	Size of Tile 600 x 1200 mm	Sqm	1867.77
11.41A.3.3	Size of Tile 800 x 800 mm	Sqm	1793.40
11.41A.3.4	Size of Tile 800 x 1200 mm	Sqm	2136.08
11.41A.3.5	Size of Tile 1200 x 1200 mm	Sqm	2908.92

SI No.	Description of Item	Unit	Amount in Rs.
11.42	Deduct for not using 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) bedding in laying of floor tiles and jointing with grey cement slurry @ 3.3 kg/sqm.	Sqm	940.42
11.43	Fixing glazed/ Ceramic/ Vitrified floor tiles with cement based high polymer modified quick-set tile adhesive (Water based) conforming to IS: 15477, in average 3mm thickness.	Sqm	757.25
11.44	Crazy ceramic tile flooring, with under layer 12 mm thick cement mortar 1:4 (1 cement: 4 coarse sand), with joints not exceeding 5 mm, including filling the gaps with ordinary cement mixture & mixing with synthetic polyester fibre, triangular in shape having specific gravity of 1.34 to 1.40, cross section size ranging from 10 to 40 micron & length upto 6 mm , mixing fibre @ 125 grams per 50 kg of cement in cement mortar, including providing and mixing water proofing material in mortar @ 1 kg per 50 kg of cement, all complete as per direction of Engineer-in-charge.	Sqm	958.71
11.45	Providing and laying 500x500x40 mm thick Turf paver (Turfpave XD) on 150 mm thick sub grade of compacted bed of 20 mm thick nominal size stone aggregate and base course and filling with 150 mm thick jamuna sand, including spreading, well ramming, consolidating and finishing smooth etc. all complete as per direction of Engineer-in-charge.	Sqm	1686.95
11.46	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete.		
11.46.1	Size of Tile 500x500 mm	Sqm	1617.49
11.46.2	Size of Tile 600x600 mm	Sqm	1707.90
11.46.3	Size of Tile 800x800 mm	Sqm	2212.43
11.46.4	Size of Tile 1000x1000 mm	Sqm	2941.54
11.46A	Providing and fixing glazed screen printed border tile 75mm wide having thickness 5mm, of approved quality & make, in all shades, design and prints, in dado, over 12mm thick bed of cement mortar 1:3 (1 Cement : 3 Coarse sand) and jointing with grey cement slurry @ 3.4 kg/sqm including pointing with white cement mixed with pigment of matching shade, all complete as approved by Engineer - in - Charge	Meter	199.68
11.47	Providing and laying Vitrified tiles in different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS: 15622, of approved brand & manufacturer, in all colours and shade, in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).		

SI No.	Description of Item	Unit	Amount in Rs.
11.47.1	Size of Tile 500x500 mm	Sqm	1755.05
11.47.2	Size of Tile 600x600 mm	Sqm	1845.46
11.47.3	Size of Tile 800x800 mm	Sqm	2350.00
11.47.4	Size of Tile 1000x1000 mm	Sqm	3079.10
11.48	Grouting the joints of flooring tiles having joints of 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), including filling / grouting and finishing complete as per direction of Engineer-in-charge.		
11.48.1	Size of Tile 500x500 mm	Sqm	356.13
11.48.2	Size of Tile 600x600 mm	Sqm	295.95
11.48.3	Size of Tile 800x800 mm	Sqm	235.77
11.48.4	Size of Tile 1000x1000 mm	Sqm	169.65
11.49	Providing and laying Vitrified tiles in floor with different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS : 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).		
11.49.1	Size of Tile 500x500 mm	Sqm	1606.89
11.49.2	Size of Tile 600x600 mm	Sqm	1697.29
11.49.3	Size of Tile 800x800 mm	Sqm	2201.83
11.49.4	Size of Tile 1000x1000 mm	Sqm	2930.93
11.50	Deduct for not grouting the joints with white cement and matching pigment in the items of fixing of vitrified tiles.	Sqm	16.12
11.51	Providing and laying machine cut, mirror polished, Italian Marble stone flooring laid in required pattern in linear portion of the building all complete as per architectural drawings, with 18 mm thick stone slab laid over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with white cement slurry @ 4.4 kg/sqm including pointing with white cement slurry admixed with pigment to match the marble shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge.		
11.51.1	18 mm thick Italian Marble stone slab, Perlato, Rosso verona, Fire Red or Dark Emperadore etc.	Sqm	8028.98
11.52	Providing and laying machine cut, mirror polished Marble stone flooring, in required design (Simple geometrical, abstract etc.) and in patterns in combination with Italian marble stones of different colours, shades and finished surface texture etc., in linear portions of the building, all complete as per the architectural drawings, with 18 mm thick stone slab laid over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with white cement slurry @ 4.4 kg/sqm, including pointing with white cement slurry admixed with pigment to match the marble shade, including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge.		

SI No.	Description of Item	Unit	Amount in Rs.
11.52.1	18 mm thick Italian Marble stone slab, Perlato, Rosso verona, Fire Red or Dark Emperadore etc.	Sqm	8400.13
11.53	Providing and fixing Glass mosaic tiles on finished plain wall surface of size 20 mm x 20 mm x 4 mm in all colour, design , fixing in customize design as per direction of Engineer-in- Charge. The glass mosaic tiles to be fixed on the wall surface with the help of approved adhesive applied at the rate of 2.5 kg per sqm and grouting of the same. The rate is inclusive of all operation, material and required pattern approved by Engineer-in-Charge:	Sqm	4297.75
11.54	<p>Providing and fixing removable raised/false access flooring with system and its components of approved make for different plenum height with possible height adjustment upto 50 mm, comprising of modular load bearing floor panels supported on G.I. rectangular stinger frame work and G.I. Pedestal etc. all complete, as per the architectural drawings, as specified and as directed by Engineer-in-charge consisting of:</p> <p>(a) Providing at required spacing to form modular framework, pedestals made out of GI tube of thickness minimum 2 mm and 25 mm outer diameter, fully welded on to the G.I. Base plate of size 100mm x 100mm x 3mm at the bottom of the pedestal tube, G.I. pedestal head of size 75mmx75mmx3.5 mm welded with GI fully threaded stud 16mm outer diameter with two GI Check nuts screwed on the stud for level adjustment upto 50mm, locking and stabilizing the pedestal head in position at the required level. The pedestals shall be fixed to the subfloor (base) through base plate using epoxy based adhesive of approved make or the machine screw with rawl plug.</p> <p>(b) Stringers system in all steel construction hot dipped galvanized of rectangular size 570x20x30x0.80mm thick having holes at both ends for securing the stringers on to the pedestal head using fully threaded screws ensuring maximum lateral stability in all directions, the grid formed by the pedestal and stringer assembly shall receive the floor panel, this system shall provide adequate solid, rigid support for access floor panel, the system shall provide a minimum clear uninterrupted clearance between the bottom of the floor for electrical conduits and wiring etc. all complete as per the architectural drawings, as specified and as directed by the Engineer-in-charge.</p>		

SI No.	Description of Item	Unit	Amount in Rs.
	<p>(c) Providing and fixing Access Floor panel of 600x600x32 mm medium grade Filled Steel anti static high pressure Lamination of 800H grade (FS800H). Access Floor panel shall be steel welded construction with an enclosed bottom pan with uniform pattern of 64 hemispherical cones. The top and bottom plates of Steel Gauges: top 0.6 mm and bottom 0.7 mm fused spot welded together (minimum 64 welds in each dome and 20 welds along each flange). The panel should be Corroresist epoxy coated for lifetime rust protection and cavity formed by the top and bottom plate is filled with Pyrogrip noncombustible Portland cementitious core mixed with lightweight foaming compound.</p> <p>The access floor shall be factory finished with Anti-static High Pressure laminate with Non Warp technology upto 1mm thickness for superior adhesion and Surface flatness within 0.75mm. The panel is to withstand a Concentrated Load of 363 kgs applied on area 25mm x 25mm without collapse in the centre of the panel which is placed on four steel blocks. The panel will withstand and Uniformly Distributed Load (UDL) minimum 1250 kg/sqm and an impact load of 50kg all complete as per the approved manufacturers specification and as per the direction of Engineer-in-charge. All specification must be printed on the side of the panel to ensure the quality of the product.</p>		
11.54.1	300 mm Finished Floor Height (FFH)	Sqm	6462.53
11.54.2	450 mm Finished Floor Height (FFH).	Sqm	6872.25
11.55	<p>Providing and laying flamed finish Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge :</p>		
11.55.1	Flamed finish granite stone slab Jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent.	Sqm	5387.82
11.56	<p>Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing , curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge.</p>		

SI No.	Description of Item	Unit	Amount in Rs.
11.56.1	Polished Granite stone slab colour of Black, Cherry/Ruby Red or equivalent	Sqm	3794.47
11.56.2	Polished Granite stone slab of all colour and texture except Black, Cherry/Ruby Red	Sqm	3097.52

SUB HEAD - 12.0
ROOFING WORK

SI No.	Description of Item	Unit	Amount in Rs.
12.1	Providing corrugated G.S. sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces), excluding the cost of purlins,rafters and trusses and including cutting to size and shape wherever required.		
12.1.1	1.00 mm thick with zinc coating not less than 275 gm/m3	Sqm	1758.31
12.1.2	0.80 mm thick with zinc coating not less than 275 gm/m2	Sqm	1506.75
12.1.3	0.63 mm thick with zinc coating not less than 275 gm/ m3	Sqm	1287.15
12.2	Extra for straight cutting in C.G.S. sheet roofing for making opening of area exceeding 40 sq. decimetre for chimney stacks, sky light etc.:		
12.2.1	1.00 mm thick	metre	105.84
12.2.2	0.80 mm thick	metre	84.68
12.2.3	0.63 mm thick	metre	84.68
12.3	Extra for circular cutting in C.G.S. sheet roofing for making opening of area exceeding 40 sq. decimetre:		
12.3.1	1.00 mm thick	metre	590.41
12.3.2	0.80 mm thick	metre	471.57
12.3.3	0.63 mm thick	metre	471.57
12.4	Providing ridges or hips of width 60 cm overall width plain G.S. sheet fixed with polymer coated J or L hooks, bolts and nuts 8 mm dia G.I. limpet and bitumen washers complete.		
12.4.1	0.80 mm thick with zinc coating not less than 275 gm/m2	metre	1025.81
12.4.2	0.63 mm thick with zinc coating not less than 275 gm/m3	metre	926.85
12.5	Providing valleys of 90 cm wide overall in plain G.S. sheet fixed with polymer coated J or L hooks, bolts and nuts 8 mm dia G.I. limpet and bitumen washers complete :		
12.5.1	1.60 mm thick with zinc coating not less than 350 gm/m3	metre	1771.57
12.6	Providing and fixing of 40 cm overall width plain G.S. sheet fixed with polymer coated J or L hooks, bolts and nuts, G.I. limpet and bitumen washer complete, bent to shape and fixed in wall with cement mortar 1:3 (2 cement : 3 coarse sand).		
12.6.1	1.00 mm thick with zinc coating not less than 275 gm/m3	metre	839.77
12.7	Providing and fixing 15 cm wide, 45 cm overall semi-circular plain G.S. sheet gutter with iron brackets 40x3mm size, bolts, nuts and washers etc., including making necessary connections with rain water pipes complete.		
12.7.1	0.80 mm thick with zinc coating not less than 275 gm/m3	metre	1043.02
12.7.2	0.63 mm thick with zinc coating not less than 275 gm/m3	metre	960.62

SI No.	Description of Item	Unit	Amount in Rs.
12.8	Providing reinforced by organic fibres and/or inorganic synthetic fibres cement 6 mm thick corrugated sheets (as per IS: 14871) roofing up to any pitch and fixing with polymer coated J, or L hooks, bolts and nuts 9 mm dia. G.I. plain and bitumen washers or with self drilling fastener and EPDM washers etc. complete (excluding the cost of purlins, rafters and trusses), including cutting sheets to size and shape wherever required.	Sqm	571.71
12.9	Extra for straight cutting in reinforced by organic fibres and/or inorganic synthetic fibres cement corrugated, semi corrugated 6 mm thick sheet roofing for making openings of area exceeding 40 square decimetre for chimney stacks, skylights etc.	metre	84.68
12.10	Extra for circular cutting in reinforced by organic fibres and/or inorganic synthetic fibres cement corrugated/semi corrugated 6 mm thick sheet roofing for making openings of area exceeding 40 square decimetre.	metre	233.91
12.11	Extra for providing and fixing wind ties of 40x 6 mm flat iron section.	metre	272.13
12.12	Providing and fixing ridges and hips in fibre cement reinforced by organic fibres and/or inorganic synthetic fibres roofing with suitable fixing accessories or self drilling fastener and EPDM washer etc. complete.		
12.12.1	Corrugated serrated adjustable ridges	metre	542.91
12.12.2	Plain wing adjustable ridges	metre	542.91
12.12.3	Close fitting adjustable ridges	metre	611.16
12.12.4	Unserrated adjustable hips	metre	541.58
12.13	Providing and fixing fibre cement reinforced by organic fibres and/or inorganic synthetic fibres roofing accessories in all colours with polymer coated J or L hooks, bolts and nuts and or G.I. seam bolts and nuts, G.I. plain and bitumen washers or with self drilling fastener and EPDM washer etc. complete:		
12.13.1	Corrugated apron pieces	metre	451.02
12.13.2	Eave's filler pieces	metre	365.89
12.13.3	North light curves	metre	614.82
12.13.4	Ventilator curves	metre	667.41
12.13.5	Barge boards	metre	789.81
12.13.6	Ridge finials	pair	336.49
12.13.7	Special north light curves	each	1101.45
12.13.8	Type louvers	metre	581.04
12.14	Providing flat iron brackets 50x3 mm size with necessary bolts, nuts and washers etc. for fixing G.S. sheet gutters with purlins.	metre	113.30
12.15	Painting top of roofs with bitumen of approved quality @ 17kg per 10 sqm impregnated with a coat of coarse sand at 60 cum per 10 sqm, including cleaning the slab surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil complete :		
12.15.1	With residual type petroleum bitumen of grade VG -11	Sqm	214.10

SUB HEAD - 12.0 ROOFING WORK

SI No.	Description of Item	Unit	Amount in Rs.
12.16	11 cm thick (average) mud phaska of damped brick earth on roofs laid to slope consolidated and plastered with 25 mm thick mud mortar mixed with bhusa @ 35 kg per cum of earth and gobri leaping with mix 1:1 (2clay : 1 cow dung) and covered with flat tile bricks, grouted with cement mortar 1:3 (1 cement : 3 fine sand)mixed with 2% of integral water proofing compound by weight of cement and finished neat:		
12.16.1	With common burnt clay F.P.S.(non modular) brick tile of class designation 11	Sqm	1301.01
12.17	10cm thick (average) mud phaska of damped brick earth on roofs laid to slope consolidated and plastered with 25 mm thick mud mortar with bhusha @ 35 kg per cum of earth and gobri leaping with mix 1:1 (1 clay : 2 cow-dung) and covered with machine moulded tile bricks, grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement and finished neat.		
12.17.1	With machine moulded common burnt clay F.P.S. (non modular) brick tiles of class designation 12.5, conforming to IS 2691	Sqm	975.68
12.18	Extra for every additional 1 cm thickness of mud phaska.	Sqm	23.97
12.19	Providing and laying brick tiles over mumty roofs, grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement, over 12 mm layer of cement mortar 1:3 (1 cement : 3 fine sand) and finished neat:		
12.19.1	With common burnt clay F.P.S. (non modular) brick tiles of class designation 11	Sqm	977.30
12.20	Providing and laying pressed clay tiles (as per approved pattern 20 mm nominal thickness of approved size)on roofs jointed with cement mortar 1:4 (1 cement : 4 coarse sand) mixed with 2% integral water proofingcompound, laid over a bed of 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) and finished neatcomplete.	Sqm	755.88
12.21	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10 mm and down gauge), including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design :		
12.21.1	In 75x75 mm deep chase	Sqm	302.38
12.22	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete.	each	272.23

SI No.	Description of Item	Unit	Amount in Rs.
12.23	Providing sand stone slab for roofing and laying them in cement mortar 1 : 4 (1 cement : 4 coarse sand) over wooden karries or R.C.C. battens or structural steel sections (Karries or battens or structural steel sections to be paid separately), including pointing the ceiling joints with cement mortar 1:3 (1 cement : 3 fine sand) complete :		
12.23.1	Red sand stone slab		
12.23.1.1	40 to 50 mm thick	Sqm	1168.27
12.23.2	White sand stone slab		
12.23.2.1	40 to 50 mm thick	Sqm	1262.16
12.24	Providing and fixing insulating board ceiling of approved quality with necessary nails etc. complete (frame work to be paid separately) :		
12.24.1	12.24.1 Natural colour insulating board		
12.24.1.1	12 mm thick	Sqm	966.77
12.24.2	White face insulating board		
12.24.2.1	12 mm thick	Sqm	1134.22
12.24.3	Flame retardant face insulating board		
12.24.3.1	12 mm thick	Sqm	1209.33
12.25	Providing and fixing flat pressed 3 layer medium density particle board or graded particle board (Grade I) IS:3088 marked, in ceiling with necessary nails etc. complete (frame work to be paid separately):		
12.25.1	12 mm thick	Sqm	1003.31
12.26	Providing and fixing plain multipurpose cement board (High pressure steam cured) with suitable screws for cement particle board in ceiling etc. complete (frame work to be paid separately).		
12.26.1	6 mm thick Cement fiber board as per IS: 14863	Sqm	1000.18
12.26.2	6 mm thick Cement bonded wood particle board as per IS:14277	Sqm	1126.94
12.27	Extra for Circular cutting including wastages in ceiling with:		
12.27.1	2nd class teak wood planks 20 mm thick	metre	880.02
12.27.2	Natural colour insulating board		
12.27.2.1	12 mm thick	metre	459.92
12.27.3	White face insulating board:		
12.27.3.1	12 mm thick	metre	480.75
12.27.4	Flame retardant face insulating board:		
12.27.4.1	12 mm thick	metre	490.10
12.27.5	Standard quality hard board sheet:		
12.27.5.1	3 mm thick	metre	435.42
12.27.5.2	4.5 mm thick	metre	458.62
12.28	Extra for providing and fixing ceiling to curved surfaces in narrow widths	Sqm	417.26

SI No.	Description of Item	Unit	Amount in Rs.
12.31	Providing 10 mm thick plaster of Paris (gypsum anhydrous) ceiling up to a height of 5 m above floor level, over first class kail wood strips 25x6 mm with 10 mm gap in between and reinforced with rabbit wire mesh fixed to wooden frame (frame work to be paid separately):		
12.31.1	Flat surfaces	Sqm	2113.18
12.31.2	Curved surfaces	Sqm	2430.72
12.32	Extra for sunk or raised mouldings in the plaster of Paris (Gypsum anhydrous) ceiling.	Sqm	718.59
12.33	Extra for providing plaster of Paris (Gypsum anhydrous) ceiling above 5 metres height from floor level.	Per metre height	241.16
12.34	Providing fixing thermal insulation of ceiling (under deck insulation) with Resin Bonded Fibre glass wool conforming to IS : 8183, density 24kg / m ³ , 50mm thick, wrapped in 200 G Virgin Polythene bags, fixed to ceiling with metallic cleats (50x50x3 mm) @ 60 cm and wire mesh of 12.5 mm x 24 gauge wire mesh, for top most ceiling of building.	Sqm	720.50
12.35	Providing and fixing thermal insulation with Resin Bonded Fibre glass wool conforming to IS: 8183. Density 17 kg/m ³ , 50 mm thick, wrapped in 200G Virgin Polythene bags placed over existing false ceiling and held in position by criss-crossing GI wire.	Sqm	298.33
12.36	Thermal Insulation of roofing with Expanded polystyrene fixed with suitable adhesive to the false ceiling as per the directions of the Engineer-in-charge:		
12.36.1	With Type N - Normal 50 mm thick	Sqm	353.99
12.36.2	With Type SE - Self Extinguishing type 50 mm thick	Sqm	405.63
12.37	Providing and fixing 100 mm diameter and 60 cm long rain water spout in cement mortar 1:4 (1 cement : 5 fine sand).		
12.37.1	Stone ware spout	each	169.32
12.38	Providing and fixing M.S. holder bat clamps of approved design to C.I. or S.C.I. rain water pipes embedded in and including cement concrete blocks 10x10x10 cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and cost of cutting holes and making good the walls etc. :		
12.38.1	100 mm diameter	each	360.95
12.38.2	150 mm diameter	each	390.82
12.39	Providing lead caulked joints to sand cast iron rain water pipes and fittings:		
12.39.1	100 mm dia Pipe	each	608.22
12.39.2	150 mm dia Pipe	each	841.37
12.40	Providing, fixing and embedding sand cast iron accessories for rain water pipes in the masonry surrounded with 12 mm thick cement mortar of the same mix, as that of masonry (lead caulking will be paid for separately):		

SI No.	Description of Item	Unit	Amount in Rs.
12.40.1	Sand cast iron plain shoes :		
12.40.1.1	150 mm diameter	each	458.46
12.41	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.		
12.41.1	75 mm diameter	metre	272.30
12.41.2	110 mm diameter	metre	438.60
12.42	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS :5382, leaving 10 mm gap for thermal expansion.		
12.42.1	Coupler		
12.42.1.1	75 mm	each	156.84
12.42.1.2	110 mm	each	209.38
12.42.2	Single pushfit Coupler		
12.42.2.1	75 mm	each	103.64
12.42.2.2	110 mm	each	138.96
12.42.3	Single tee with door		
12.42.3.1	75x75x75 mm	each	206.41
12.42.3.2	110x110x110 mm	each	339.07
12.42.4	Single tee without door		
12.42.4.1	75x75x75 mm	each	181.37
12.42.4.2	110x110x110 mm	each	298.39
12.42.5	Bend 87.5°		
12.42.5.1	75 mm bend	each	133.37
12.42.5.2	110 mm bend	each	214.08
12.42.6	Shoe (Plain)		
12.42.6.1	75 mm Shoe	each	139.63
12.42.6.2	110 mm Shoe	each	151.48
12.43	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.		
12.43.1	75 mm	each	382.63
12.43.2	110 mm	each	392.02
12.44	Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15 cm diameter and weighing not less than 440 grams.	each	80.44

SI No.	Description of Item	Unit	Amount in Rs.
12.45	<p>Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimetre channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimetre of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimetre channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound , jointing tapes , finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimetre channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with :</p>		
12.45.1	12.5 mm thick tapered edge gypsum plain board conforming to IS: 2095- (Part I) :2011 (Board with BIS certification marks).	Sqm	1512.31
12.45.2	12.5 mm thick tapered edge Glass Reinforced Gypsum (GRG) board conforming to IS:2095- (Part 3):1996 (Boards with BIS certification marks)	Sqm	1530.25
12.45.3	12.5 mm thick tapered edge gypsum moisture resistant board	Sqm	1561.47
12.45.4	Fully Perforated Gypsum Plaster Board of size 1200 x 2400x12.5 mm having approx. 15 % perforated areawith perforation size and pattern as approved by the Engineer-in-charge and as per manufacturer'sspecification, with all 4 side tapered and backed by acoustical tissue with NRC value not less than 0.61	Sqm	1674.40
12.46	Providing and fixing to the inlet mouth of rain water pipe PTMT (an Engineering Thermoplastic) grating square (Slit) 150 mm square with a height of 8 mm and weighing not less than 100 gms.	each	130.51

SI No.	Description of Item	Unit	Amount in Rs.
12.47	Providing & fixing UV stabilised fiberglass reinforced plastic sheet roofing up to any pitch, including fixing with polymer coated 'J' or 'L' hooks, bolts & nuts 8mm dia. G.I plain/bitumen washers complete but excluding the cost of purlins, rafters, trusses etc. The sheets shall be manufactured out of 2400 TEX panel rovigs incorporating minimum 0.3% ultra-violet stabiliser in resin system under approximately 2400 psi and hot cured. They shall be of uniform pigmentation and thickness without air pockets and shall conform to IS 10192 and IS 12866. The sheets shall be opaque or translucent, clear or pigmented, textured or smooth as specified.		
12.47.1	2 mm thick corrugated (2.5" or 4.2" or 6") or step-down (2" or 3" or 6") as specifi	Sqm	1448.70
12.47.2	2 mm thick flat	Sqm	1346.75
12.48	Providing & fixing on roof pressed clay tile (Mangalore tile) of 20 mm nominal thickness and of approved size and as per approved pattern on steel frame work complete (steel frame work to be paid separately).	Sqm	400.59
12.49	Providing & laying on roof pressed clay tile ridge (Mangalore tile) of 20mm thickness and of approved pattern on steel frame work complete (steel frame work to be paid separately).	metre	93.79
12.50	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	Sqm	830.56
12.51	Providing and fixing precoated galvanised steel sheet roofing accessories 0.50 mm (+0.05 %) total coated thickness, Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete :		
12.51.1	Ridges plain (500 - 600mm)	metre	597.77
12.51.2	Flashings/ Aprons.(Upto 600 mm)	metre	549.13
12.51.3	North light curves	metre	614.23
12.51.4	Barge board (Upto 300 mm)	metre	444.78
12.51.5	Crimp curve	Sqm	492.69
12.51.6	Gutter (600 mm over all girth)	metre	1383.13

SI No.	Description of Item	Unit	Amount in Rs.
12.52	Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge.		
12.52.1	GI Metal Ceiling Lay in plain Tegular edge Global white color tiles of size 595x595 mm, and 0.5 mm thick with 8 mm drop; made of G I sheet having galvanizing of 100 gms/sqm (both sides inclusive) and electro	Sqm	1956.74
12.52.2	GI Metal Ceiling Lay in perforated Tegular edge global white color tiles of size 595x595 mm and 0.5 mm thick with 8 mm drop; made of GI sheet having galvanizing of 100 gms/sqm (both sides inclusive) and 20% perforation area with 1.8 mm dia holes and having NRC (Noise Reduction Coefficient) of 0.5, electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending and perforation, and backed with a black Glass fiber acoustical fleece.	Sqm	2267.30
12.52.3	12.5 mm thick square edge PVC Laminated Gypsum Tile of size 595x595 mm, made of Gypsum plasterboard, manufactured from natural gypsum as per IS 2095 part I and laminated with white 0.16mm thick fire retardant PVC film on the face side and 12micron metalized polyester on the back side with all edges sealed with the face side PVC film which goes around and wraps the edges and is bonded to the edges and the back side metalized polyester film so as to make the tile a completely sealed unit.	Sqm	2139.73
12.52.4	12.5 mm thick fully Perforated Gypsum Board tile made from plasterboard having glass fibre conforming to IS: 2095 part I, of size 595x595 mm, having perforation of 9.7x9.7 mm at 19.4 mm c/c with center borders of 48 mm and the side borders of 30 mm, backed with non woven tissue on the back side, having an NRC (Noise Reduction Coefficient) of 0.79, with 50 mm resin bonded glass wool backing	Sqm	1377.91

SI No.	Description of Item	Unit	Amount in Rs.
12.53	<p>Providing and Fixing 15 mm thick densified tegular edged eco friendly light weight calcium silicate false ceiling tiles of approved texture of size 595 x 595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanised steel sections (galvanising @ 120 grams per sqm including both side) consisting of main 'T' runner suitably spaced at joints to get required length and of size 24x38 mm made from 0.33 mm thick (minimum) sheet, spaced 1200 mm centre to centre, and cross "T" of size 24x28 mm made out of 0.33 mm (Minimum) sheet, 1200 mm long spaced between main'T' at 600 mm centre to centre to form a grid of 1200x600 mm and secondary cross 'T' of length 600 mm and size 24 x28 mm made of 0.33 mm thick (Minimum) sheet to be inter locked at middle of the 1200x 600 mm panel to form grid of size 600x600 mm, resting on periphery walls /partitions on a Perimetre wall angle pre-coated steel of size(24x24X3000 mm made of 0.40 mm thick (minimum) sheet with the help of rawl plugs at 450 mm centre to centre with 25 mm long dry wall screws @ 230 mm interval and laying 15 mm thick densified edges calicum silicate ceiling tiles of approved texture in the grid, including, cutting/ making opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc., wherever required. Main 'T' runners to be suspended from ceiling using G.I. slotted cleats of size 25x35x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm G.I. adjustable rods with galvanised steel level clips of size 85 x 30 x 0.8 mm, spaced at 1200 mm centre to centre along main 'T', bottom exposed with 24 mm of all Tsections shall be pre-painted with polyster baked paint, for all heights, as per specifications, drawings and as directed by Engineer-in-Charge.</p>	Sqm	2070.65
12.54	<p>Providing and fixing GI Clip in Metal Ceiling System of 600x600 mm module which includes providing and fixing 'C' wall angle of size 20x30x20 mm made of 0.5 mm thick pre painted steel along the perimetre of the room with help of nylon sleeves and wooden screws at 300 mm center to centre, suspending the main C carrier of size 10x38x10 mm made of G.I steel 0.7 mm thick from the soffit with help of soffit cleat 37x27x25x1.6 mm, rawl plugs of size 38x12 mm and C carrier suspension clip and main carrier bracket at 1000 mm c/c. Inverted triangle shaped Spring Tee having height of 24 mm and width of 34 mm made of GI steel 0.45 mm thick is then fixed to the main C carrier and in direction perpendicular to it at 600 mm centers with help of suspension brackets. Wherever the main C carrier and spring T have to join, C carrier and spring T connectors have to be used. All sections to be galvanized @ 120 gms/sqm (both side inclusive), fixing with clip in tiles into spring T with</p>		
12.54.1	<p>GI Metal Ceiling Clip in plain Beveled edge global white color tiles of size 600x600 and 0.5 mm thick with 25 mm height, made of G I sheet having galvanizing of 100 gms/ sqm (both sides inclusive) and electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending.</p>	Sqm	2446.89

SI No.	Description of Item	Unit	Amount in Rs.
12.54.2	GI Metal Ceiling Clip in plain Beveled edge global white color tiles of size 600x600 and 0.5 mm thick with 25 mm height, made of G I sheet having galvanizing of 100 gms/ sqm (both sides inclusive) and 20% perforation area with 1.8 mm dia holes and having NRC of 0.5, electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending and perforation.	Sqm	2892.18
12.55	Providing and fixing Heat Resistant Terrace Tiles (300 mm x 300 mm x 20 mm) with SRI (solar refractive index) > 78, solar reflection > 0.70 and initial emittance > 0.75 on waterproof and sloped surface of terrace, laid on 20 mm thick cement sand mortar in the ratio of 1:4 (1 cement : 4 coarse sand) and grouting the joints with mix of white cement & marble powder in ratio of 1:1, including rubbing and polishing of the surface upto 3 cuts complete, including providing skirting upto 150 mm height along the parapet walls in the same manner	Sqm	2019.31
12.56	Providing and laying roof insulation with 40 mm thick impervious sprayed, closed cell free Rigid Polyurethane foam over deck insulation conforming to IS - 12432 Pt. III (density of foam being 40-45 kg/ cum), over a coat of polyurethane primer applied @ 6-8 sqm per litre, laying 400 G polythene sheet over PUF spray and providing a wearing course of 40 mm thick cement screed 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 20 mm nominal size) in chequered rough finish, in panels of 2.5 m x 2.5 m and embedding with 24 G wire netting and sealing the joints with polymerized mastic, all complete as per direction of Engineer-in-Charge	Sqm	1893.02
12.57	Providing and fixing thermal insulation with Resin Bonded Fibre glass wool conforming to IS: 8183 having density 24 kg/m ³ , 50 mm thick, wrapped in 200G Virgin Polythene Bags fixed to wall with screw, rawel plug & washers and held in position by criss crossing GI wire etc. complete as per directions of Engineer-in-Charge.	Sqm	380.17

SI No.	Description of Item	Unit	Amount in Rs.
12.58	<p>Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on interlocking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanized butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all Tsections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge.</p>		
12.58.1	<p>8 mm thick fully perforated calcium silicate board made with Calcareous & Siliceous materials reinforced with cellulose fiber manufactured through autoclaving process to give stable crystalline structure with minimum compressive strength 225 kg/ sq. cm, bending strength 100 kg/sq. cm , of size 595x595 mm, having perforation of dia. 10 mm with minimum perforated area 18 % with non woven tissue on the back side, having an NRC (Noise Reduction Coefficient) of 0.85, with 50 mm thick rockwool of 48 kg /cum backing.</p>	Sqm	2129.16

SI No.	Description of Item	Unit	Amount in Rs.
12.59	Providing & fixing false ceiling at all height including providing & fixing of framework made of special section, power pressed from M.S. sheets and galvanised with zinc coating of 120 gms/ sqm (both side inclusive) as per IS : 277 and consisting of angle cleat of size 25mm wide x 1.6mm thick with flanges of 27mm and 37mm, at 1200mm c/c, one flange fixed to the ceiling with dash fastener 12.5mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25 x10 x0.50mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I channels 45 x15 x 0.90mm running at the spacing of 1200 mm c/c, to which the ceiling section 0.5mm thick bottom wedge of 80mm with tapered flanges of 26 mm each having lips of 10.5mm, at 450mm c/c, shall be fixed in a direction perpendicular to G.I intermediate channel with connecting clip made out of 2.64mm dia x 230mm long G.I wire at every junction, including fixing perimetre channels 0.50mm thick 27mm high having flanges of 20mm and 30mm long, the perimetre of ceiling fixed to wall/ partitions with the help of Rawl plugs at 450mm centre, with 25mm long dry wall screws @ 230mm interval, including fixing of Calcium Silicate Board to ceiling section and perimetre channels with the help of dry wall screws of size 3.5 x25mm at 230mm c/c, including jointing & finishing to a flush finish of tapered and square edges of the board with recommended jointing compounds, jointing tapes,finishing with jointing compounds in three layers covering up to 150mm on both sides of joints and two coats of primer suitable for boards, all as per manufacture's specification and also including the cost of making opening for light fittings, grills, diffusers, cut outs made with frame of perimetre channels suitably fixed, all complete as per drawings, specificaton and direction of the Engineer in charge but excluding the cost of painting with:		
12.59.1	9 mm thick Calcium Silicate Board made with Calcareous & Siliceous materials reinforced with cellulosefiber manufactured through autoclaving process.	Sqm	1540.37
12.60	Providing and fixing thermal insulation of ceiling (under deck insulation) with Resin Bonded Rockwool conforming to IS: 8183,density 48 kg/ m3, 50 mm thick, wrapped in 200 G Virgin Polythene bags fixed to ceiling with metallic cleats (50x50x3 mm) @ 60 cm and wire mesh of 12.5mm x 24 gauge wire mesh, for top most ceiling of building.	Sqm	706.73
12.61	Providing and fixing thermal insulation with Resin bonded rock wool conforming to IS: 8183, density 48 kg/m3, 50 mm thick, wrapped in 200 G virgin Polythene bags placed over existing false ceiling and held in position by criss-crossing GI wire.	Sqm	358.58
12.62	Providing and fixing thermal insulation with Resin Bonded rock wool conforming to IS: 8183, having density 48 kg/m3,50 mm thick,wrapped in 200 G Virgin Polythene Bags fixed to wall with screw, rawel plug & washers and held and in position by criss crossing GI wire etc. complete as per directions of Engineer-in-Charge.	Sqm	366.40

SI No.	Description of Item	Unit	Amount in Rs.
12.63	Providing and applying two coats of High Albedo paint having minimum Solar Reflective Index (SRI) 108 (with solar reflectance & thermal emittance tested as per ASTM C 1549 and ASTM C 1371 respectively), VOC less than 10 cc/gm. The coating thickness and the methodology of application shall strictly as per manufacturer's specifications and as approved by Engineer-in-Charge. Surface preparation includes cleaning with metal wire brush to remove all dust, fungus etc., washing with water all complete. The contractor shall give guarantee for the performance of SRI and also the durability of coating, all complete as per direction of Engineer-in-Charge.	Sqm	329.15
12.64	Providing & fixing at all heights, levels and locations Mill finish Aluminium alloy roofing sheets of alloy IS designation 31500, temper Hx8 conforming to IS 737 and dimensions as per IS code 2676 with characteristics of good formability and corrosion resistance. The profile sheets shall be fixed to truss members in slope or required pitch or curvature with Hex cap headed self drilling/tapping Stainless steel screws M6, 50 mm long with 3 mm EPDM seal washer etc. all inclusive of labour, scaffolding, T&P and sundries etc. complete as per directions of the Engineer-In-Charge. (Cost of truss/frame work shall be paid separately).		
12.64.1	0.56 mm, Aluminium troughed profile with center to center pitch of 200 mm, depth of 32 mm, overall profile width 1092 mm, cover width 1000mm.	Sqm	1021.57
12.64.2	0.71 mm, troughed profile with center to center pitch of 200 mm, depth of 32 mm, overall profile width 1092 mm, cover width 1000mm.	Sqm	1262.24
12.64.3	0.91 mm, troughed profile with center to center pitch of 200 mm, depth of 32 mm, overall profile width 1092 mm, cover width 1000mm.	Sqm	1580.82
12.64.4	0.56mm Aluminium profile with center to center pitch of 175 mm, depth of 46mm, top crest width of 41mm, bottom valley width of 80mm, overall profile width of 1144mm, cover width 1050mm.	Sqm	1309.07
12.64.5	0.71mm Aluminium profile with center to center pitch of 175 mm, depth of 46mm, top crest width of 41mm, bottom valley width of 80mm, overall profile width of 1144mm, cover width 1050mm.	Sqm	1621.28
12.64.6	0.91mm Aluminium profile with center to center pitch of 175 mm, depth of 46mm, top crest width of 41mm, bottom valley width of 80mm, overall profile width of 1144mm, cover width 1050mm.	Sqm	2035.97
12.64.7	0.56mm Aluminium Circular (sinusoidal) profile with center to center pitch of 75 mm, depth of 19 mm, overall profile width 1250mm, cover width 1150mm.	Sqm	1001.03
12.64.8	0.71mm Aluminium Circular (sinusoidal) profile with center to center pitch of 75 mm, depth of 19 mm, overall profile width 1250mm, cover width 1150mm.	Sqm	1248.87
12.64.9	0.91mm Aluminium Circular (sinusoidal) profile with center to center pitch of 75 mm, depth of 19 mm, overall profile width 1250mm, cover width 1150mm.	Sqm	1583.71

SI No.	Description of Item	Unit	Amount in Rs.
12.65	Providing & fixing at all heights, levels and locations colour finish Aluminium alloy roofing sheets of alloy IS designation 31500, temper Hx8 conforming to IS 737 and dimensions as per IS code 2676 with characteristics of good formability and corrosion resistance. The profile sheets shall be fixed to truss members in slope or required pitch or curvature with Hex cap headed self drilling/tapping Stainless steel screws M6, 50 mm long with 3 mm EPDM seal washer etc. all inclusive of labour, scaffolding, T&P and sundries etc. complete as per directions of the Engineer-In-Charge. (Cost of truss/frame work shall be paid separately).		
12.65.1	0.56 mm, Aluminium Color coated troughed profile with center to center pitch of 200 mm, depth of 32 mm, overall profilewidth1092 mm, cover width 1000mm.	Sqm	1160.69
12.65.2	0.71 mm, Aluminium Color coated troughed profile with center to center pitch of 200 mm, depth of 32 mm, overall profile width1092 mm, cover width 1000mm.	Sqm	1442.99
12.65.3	0.91 mm, Aluminium Color coated troughed profile with center to center pitch of 200 mm, depth of 32 mm, overall profile width1092 mm, cover width 1000mm.	Sqm	1810.25
12.65.4	0.56mm Aluminium color profile with center to center pitch of 175 mm, depth of 46mm, top crest width of 41mm, bottom valley width of 80mm, overall profile width of 1144mm, cover width 1050mm.	Sqm	1493.25
12.65.5	0.71mm Aluminium color coated profile with center to center pitch of 175 mm, depth of 46mm, top crest width of 41mm, bottom valley width of 80mm, overall profile width of 1144mm, cover width 1050mm.	Sqm	1857.80
12.65.6	0.91mm Aluminium color coated profile with center to center pitch of 175 mm, depth of 46mm, top crest width of 41mm, bottom valley width of 80mm, overall profile width of 1144mm, cover width 1050mm.	Sqm	2338.72
12.65.7	0.56 mm Aluminium profile with center to center pitch of 177.5 mm, depth of 28.5 mm, 987mm overall profile width, cover width 900mm	Sqm	1227.52
12.65.8	0.71 mm Aluminium profile with center to center pitch of 177.5 mm, depth of 28.5 mm, 987mm overall profile width, cover width 900mm	Sqm	1534.21
12.66	Providing and fixing of Pre-coated colour or mill finish Aluminium Roofing Accessories in 0.71 mm thickness ,Alloy 31500 (IS designation) [Aluminium Alloy (AA) 3004 (ISO designation)] For color, coating shall be 5-7 microns epoxy primer on both sides of the sheet and polyester top coat 15-18 microns, using self drilling/ tapping SS screws of size 6 x 50mm with 3mm thick EPDM seal and SS plain washer complete :		
12.66.1	Precoated/mill finish aluminium Ridges plain (500- 600mm)	metre	1051.87
12.66.2	Precoated/mill finish aluminium Flashings/ Aprons (Upto 600 mm)	metre	960.09
12.66.3	Precoated/mill finish aluminium North light curves	metre	1053.68
12.66.4	Precoated/mill finish aluminium Barge board (Upto 200 mm)	metre	812.17
12.66.5	Precoated/mill finish aluminium Crimp curve	metre	898.89
12.66.6	Precoated/mill finish aluminium Gutter (600 mm over all girth)	metre	1803.96

SUB HEAD - 13.0
FINISHING WORK

SI No.	Description of Item	Unit	Amount in Rs.
13.1	12 mm cement plaster of mix :		
13.1.1	1:4 (1 cement: 4 fine sand)	Sqm	366.02
13.1.2	1:6 (1 cement: 6 fine sand)	Sqm	335.11
13.2	15 mm cement plaster on the rough side of single or half brick wall of mix :		
13.2.1	1:4 (1 cement: 4 fine sand)	Sqm	424.32
13.2.2	1:6 (1 cement: 6 fine sand)	Sqm	387.40
13.3	20 mm cement plaster of mix :		
13.3.1	1:4 (1 cement: 4 fine sand)	Sqm	467.46
13.3.2	1:6 (1 cement: 6 fine sand)	Sqm	460.50
13.4	12 mm cement plaster of mix :		
13.4.1	1:4 (1 cement: 4 coarse sand)	Sqm	366.02
13.4.2	1:6 (1 cement: 6 coarse sand)	Sqm	335.11
13.5	15 mm cement plaster on rough side of single or half brick wall of mix:		
13.5.1	1:4 (1 cement: 4 coarse sand)	Sqm	424.32
13.5.2	1:6 (1 cement: 6 coarse sand)	Sqm	387.40
13.6	20 mm cement plaster of mix : -		
13.6.1	1:4 (1 cement: 4 coarse sand)	Sqm	508.58
13.6.2	1:6 (1 cement: 6 coarse sand)	Sqm	460.50
13.7	12 mm cement plaster finished with a floating coat of neat cement of mix :		
13.7.1	13.7.1 1:3 (1 cement: 3 fine sand)	Sqm	491.84
13.7.2	1:4 (1 cement: 4 fine sand)	Sqm	436.05
13.8	15 mm cement plaster on rough side of single or half brick wall finished with a floating coat of neat cement of mix:		
13.8.1	1:3 (1 cement: 3 fine sand)	Sqm	556.14
13.8.2	1:4 (1 cement: 4 fine sand)	Sqm	519.25
13.9	Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement.		
13.9.1	12 mm cement plaster	Sqm	491.84
13.9.2	20 mm cement plaster	Sqm	651.56
13.10	15 mm cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement on the rough side of single or half brick wall.	Sqm	556.14
13.11	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement : 5 coarse sand) finished with a top layer 6 mm thick cement plaster 1:6 (1 cement : 6 fine sand).	Sqm	523.78

SI No.	Description of Item	Unit	Amount in Rs.
13.12	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement : 5 coarse sand) and a top layer 6 mm thick cement plaster 1:3 (1 cement : 3 coarse sand) finished rough with sponge.	Sqm	554.68
13.13	12 mm cement plaster 1:2 (1 cement : 2 stone dust).	Sqm	432.12
13.14	15 mm cement plaster 1:2 (1 cement : 2 stone dust) on the rough side of single or half brick wall.	Sqm	503.27
13.15	20 mm cement plaster 1:2 (1 cement : 2 stone dust).	Sqm	633.90
13.16	6 mm cement plaster of mix :		
13.16.1	1:3 (1 cement : 3 fine sand)	Sqm	304.29
13.17	6 mm cement plaster 1:3 (1 cement : 3 fine sand) finished with a floating coat of neat cement and thick coat of Lime wash on top of walls when dry for bearing of R.C.C. slabs and beams.	Sqm	414.00
13.18	Neat cement punning.	Sqm	98.23
13.19	Rough cast plaster upto 10 m height above ground level with a mixture of sand and gravel or crushed stone from 6 mm to 10 mm nominal size, dashed over and including the fresh plaster in two layers, under layer 12 mm cement plaster 1:4 (1 cement : 4 coarse sand) and top layer 10 mm cement plaster 1:3 (1 cement : 3 fine sand) mixed with 10% finely grounded hydrated lime by volume of cement.		
13.19.1	Ordinary cement finish using ordinary cement	Sqm	910.11
13.20	Pebble dash plaster upto 10 m height above ground level with a mixture of washed pebble or crushed stone 6 mm to 12.5 mm nominal size, dashed over and including fresh plaster in two layers under layer 12 mm cement plaster 1:4 (1 cement : 4 coarse sand) and top layer 10 mm cement plaster with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 10% finely grounded hydrated lime by volume of cement.	Sqm	858.91
13.21	Extra for providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturers	Per bag of 50 kg cement used in the mix.	84.34
13.22	Extra for plastering exterior walls of height more than 10 m from ground level for every additional height of 3 m or part thereof.	Sqm	85.52
13.23	Extra for plastering on circular work not exceeding 6 m in radius:		
13.23.1	In one coat	Sqm	46.33
13.23.2	In two coats	Sqm	70.54

SI No.	Description of Item	Unit	Amount in Rs.
13.24	Extra for plastering done on moulding, cornices or architraves including neat finish to line and level:		
13.24.1	In one coat	Sqm	682.41
13.24.2	In two coats	Sqm	1125.48
13.25	Extra for plastering:		
13.25.1	Spherical ceiling	Sqm	172.93
13.25.2	Groined ceiling	Sqm	187.46
13.25.3	Flewing soffits	Sqm	114.07
13.26	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	Sqm	282.64
13.27	Extra for lining out plaster to imitate stone or concrete blocks walling	Sqm	109.54
13.28	12 mm thick plain cement mortar bands in cement mortar 1:4 (1 cement : 4 fine sand):		
13.28.1	Flush Band	cm per metre	7.58
13.28.2	Sunk Band	cm per metre	8.26
13.28.3	Raised Band	cm per metre	9.37
13.28.4	Moulded Band	cm per metre	15.85
13.29	18 mm thick plain cement mortar band in cement mortar 1:4 (1 cement : 4 fine sand):		
13.29.1	Flush Band	cm per metre	9.29
13.29.2	Sunk Band	cm per metre	10.18
13.29.3	Raised Band	cm per metre	11.55
13.29.4	Moulded Band	cm per metre	21.02
13.30	18 mm thick moulded cement mortar band in two coats under layer 12 mm thick with cement mortar 1:5 (1 cement : 5 coarse sand) top layer 6 mm thick with cement mortar 1:4 (1 cement : 4 fine sand).	cm per metre	18.27
13.31	Pointing on brick work or brick flooring with cement mortar 1:3 (1 cement : 3 fine sand):		
13.31.1	Flush / Ruled/ Struck or weathered pointing	Sqm	246.98
13.31.2	Raised and cut pointing	Sqm	422.93
13.32	Pointing on tile brick work with cement mortar 1:3 (1 cement : 3 fine sand):		
13.32.1	Flush/ Ruled/ Struck or weathered pointing	Sqm	337.80

SI No.	Description of Item	Unit	Amount in Rs.
13.33	Pointing on stone work with cement mortar 1:3 (1 cement : 3 fine sand) :		
13.33.1	Flush/ Ruled pointing	Sqm	361.43
13.33.2	Raised and cut pointing	Sqm	662.11
13.34	Raised and cut pointing on stone work in white cement mortar 1:3 (1 white cement : 3 marble dust).	Sqm	724.88
13.35	Pointing on stone slab ceiling with cement mortar 1:2 (1 cement : 2 fine sand):		
13.35.1	Flush/ Ruled pointing	Sqm	203.98
13.36	Extra for pointing on walls on the outside at height more than 10 m from ground level for every additional height of 3 m or part there of.	Sqm	10.48
13.37	White washing with lime to give an even shade :		
13.37.1	New work (three or more coats)	Sqm	35.28
13.38	Satna lime wash on walls with one coat.	Sqm	13.21
13.39	Colour washing such as green, blue or buff to give an even shade		
13.39.1	New work (two or more coats) with a base coat of white washing with lime	Sqm	48.11
13.39.2	New work (two or more coats) with a base coat of whitening	Sqm	47.45
13.41	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade :		
13.41.1	New work (two or more coats) over and including water thinnable priming coat with cement primer	Sqm	185.69
13.42	Distempering with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gms/litre, of approved manufacturer, of required shade and colour complete, as per manufacturer's specification		
13.42.1	Two or more coats on new work	Sqm	107.13
13.43	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface		
13.43.1	Water thinnable cement primer	Sqm	78.62
13.44	Finishing walls with water proofing cement paint of required shade :		
13.44.1	New work (Two or more coats applied @ 3.84 kg/10 sqm)	Sqm	118.08
13.45	Finishing walls with textured exterior paint of required shade :		
13.45.1	New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of exterior primer applied @ 2.20kg/10 sqm	Sqm	312.18
13.46	Finishing walls with Acrylic Smooth exterior paint of required shade :		
13.46.1	New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	Sqm	214.80

SUB HEAD - 13.0 FINISHING WORK

SI No.	Description of Item	Unit	Amount in Rs.
13.48	Finishing walls with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :		
13.48.1	Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr /10 sqm	Sqm	190.45
13.48.2	Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @0.75 ltr/10 sqm of approved brand and manufacture	Sqm	171.44
13.48.3	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/10 sqm of approved brand and manufacture	Sqm	169.15
13.48A	Finishing walls with 100% Premium acrylic emulsion paint having VOC less than 50 gm/litre and UV resistance as per IS 15489:2004, Alkali & fungal resistance, dirt resistance exterior paint of required shade (Company Depot Tinted) with silicon additives.		
13.48A.1	New work (Two or more coats applied @ 1.43 litre/ 10 sqm. Over and including priming coat of exterior primer applied @ 0.90 litre/10 sqm.	Sqm	191.16
13.50	Applying priming coat:		
13.50.1	With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood)	Sqm	75.78
13.50.2	With ready mixed aluminium primer of approved brand and manufacture on resinous wood and plywood	Sqm	70.55
13.50.3	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/ steel works	Sqm	65.23
13.50.4	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel work (second coat)	Sqm	35.51
13.51	Painting with silicon & acrylic emulsion based water thinnable sealer of approved brand and manufacture on wet or patchy portion of plastered surfaces :		
13.51.1	One coat	Sqm	101.10
13.51.2	Two coats	Sqm	152.03
13.52	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete.		
13.52.1	On steel work	Sqm	234.84
13.52.2	On concrete work	Sqm	232.73
13.53	Painting on G.S. sheet with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :		
13.53.1	New work (two or more coats) including a coat of approved steel primer but excluding a coat of mordant solution	Sqm	172.18
13.54	Applying a coat of mordant solution on G.S. sheet:		
13.54.1	With a solution of 38 gms of copper acetate in a litre of soft water	Sqm	60.22

SUB HEAD - 13.0 FINISHING WORK

SI No.	Description of Item	Unit	Amount in Rs.
13.54.2	With a solution made of 13 gms of hydrochloric acid in a solution of 13 gms each of copper chloride, copper nitrate and ammonium chloride dissolved in a litre of soft water	Sqm	59.99
13.55	Painting (two or more coats) on rain water, soil waste and vent pipes and fittings with black anticorrosive bitumastic paint of approved brand and manufacture, over and including a priming of ready mixed zinc chromate yellow primer on new work:		
13.55.1	100 mm diametre pipes	Sqm	74.98
13.55.2	150 mm diametre pipes	Sqm	120.03
13.56	Painting (two or more coats) on rain water, soil waste and vent pipes and fittings with synthetic enamel paint of approved brand and manufacture and required colour over a priming coat of approved steel primer on new work.		
13.56.1	100 mm diametre pipes	Sqm	79.67
13.56.2	150 mm diametre pipes	Sqm	129.57
13.57	Painting with oil type wood preservative of approved brand and manufacture :		
13.57.1	New work (two or more coats)	Sqm	66.44
13.58	Providing and applying two coats of fire retardant paint on cleaned wood / ply surface @ 3.5 sqm per litre per coat including preparation of base surface as per recommendations of manufacturer to make the surface fire retardant.	Sqm	295.00
13.59	Coal tarring two coats on new work using 0.16 Litre and 0.12 litre coal tar per sqm in the first coat and second coat respectively.	Sqm	63.08
13.60	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade :		
13.60.1	Two or more coats on new work	Sqm	203.92
13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :		
13.61.1	Two or more coats on new work	Sqm	168.21
13.62	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :		
13.62.1	Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture	Sqm	242.97
13.63	Painting with aluminium paint of approved brand and manufacture to give an even shade .		
13.63.1	Two or more coats on new work	Sqm	148.71
13.64	Painting with acid proof paint of approved brand and manufacture of required colour to give an even shade :		
13.64.1	Two or more coats on new work	Sqm	160.45

SUB HEAD - 13.0 FINISHING WORK

SI No.	Description of Item	Unit	Amount in Rs.
13.65	Painting with black anti-corrosive bitumastic paint of approved brand and manufacture to give an even shade :		
13.65.1	Two or more coats on new work	Sqm	133.72
13.66	Floor painting with floor enamel paint of approved brand and manufacture of required colour to give an even shade :		
13.66.1	Two or more coats on new work	Sqm	178.97
13.67	Varnishing with varnish of approved brand and manufacture :		
13.67.1	Two or more coats of glue sizing with copal varnish over an under coat of flatting varnish	Sqm	251.92
13.67.2	Two or more coats glue sizing with spar varnish or an under coat of flatting varnish	Sqm	257.77
13.68	French spirit polishing :		
13.68.1	Two or more coats on new works including a coat of wood filler	Sqm	449.13
13.69	Polishing on wood work with ready mixed wax polish of approved brand and manufacture :		
13.69.1	New work	Sqm	184.17
13.70	Floor polishing on masonry or concrete floors with wax polish of approved brand and manufacture.	Sqm	89.06
13.71	Lettering with black Japan paint of approved brand and manufacture	per letter per cm height	5.85
13.72	Washed stone grit plaster on exterior walls height upto 10 metre above ground level, in two layers, under layer 12 mm cement plaster 1:4 (1 cement : 4 coarse sand), furrowing the under layer with scratching tool, applying cement slurry on the under layer @ 2 Kg of cement per square metre, top layer 15 mm cement plaster 1:1/ 2:2 (1 cement: 1/2 coarse sand : 2 stone chipping 10 mm nominal size), in panels with groove all around as per approved pattern, including scrubbing and washing the top layer with brushes and water to expose the stone chippings ,complete as per specification and direction of Engineer-incharge (payment for providing grooves shall be made separately).	Sqm	1213.53
13.73	Forming groove of uniform size in the top layer of washed stone grit plaster as per approved pattern using wooden battens, nailed to the under layer, including removal of wooden battens, repair to the edges of panels and finishing the groove complete as per specifications and direction of the Engineer-in-charge :		
13.73.1	15 mm wide and 15 mm deep groove	Sqm	73.81
13.73.2	20 mm wide and 15 mm deep groove	Sqm	75.30
13.74	Extra for washed grit plaster on exterior walls of height more than 10 m from ground level for every additional height of 3 m or part thereof.	Sqm	173.43

SI No.	Description of Item	Unit	Amount in Rs.
13.75	Extra for washed stone grit plaster on circular work not exceeding 6 m in radius (in two coats).	Sqm	126.90
13.76	Forming groove of uniform size from 12x12 mm and upto 25x15 mm in the top layer of washed stone grit plastered surface as per approved pattern, including providing and fixing aluminum channels of appropriate size and thickness (not less than 2 mm), nailed to the under layer with rust proof screws and nails and finishing the groove complete as per specifications and direction of the Engineer-in-Charge.	Sqm	120.73
13.77	Extra for using white cement in place of ordinary cement in the top layer of the item of washed stone grit plaster.	Sqm	306.58
13.78	Providing and applying 12 mm thick (average) premixed formulated one coat gypsum lightweight plaster having additives and light weight aggregates as vermiculite/ perlite on walls & ceiling at all floors and locations, finished in smooth line and level applied on hacked / uneven background such as bare brick/ block/ RCC work respectively conforming to IS: 2547 (Part - 1 & II) 1976, etc. complete.	Sqm	603.66
13.79	Extra for addition of synthetic Polyester triangular fibre of length 6 mm, effective diametre 10-40 microns and specific gravity of 1.34 to 1.40 in cement plaster/ mortar by using 125 gms. of synthetic Polyester triangular fibre for 50 Kgs.cement used in cement mortar as per directions of Engineer-in-Charge.	Per bag of 50 Kg of cement	80.20
13.80	Providing and applying white cement based putty of average thickness 1 mm of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	Sqm	168.44
13.81	Distempering with 1st quality acrylic distemper, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour.		
13.81.1	One coat	Sqm	63.78
13.81.2	Two coats	Sqm	101.09
13.82	Wall painting with acrylic emulsion paint, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour.		
13.82.1	One coat	Sqm	88.46
13.82.2	Two coats	Sqm	131.36
13.83	Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour.		
13.83.1	One coat	Sqm	91.08
13.83.2	Two coats	Sqm	138.17

SI No.	Description of Item	Unit	Amount in Rs.
13.85	Applying priming coats with primer of approved brand and manufacture having low VOC (Volatile Organic Compound) content.		
13.85.1	With ready mixed pink or grey primer on wood work (hard and soft wood) having VOC content less than 50 grams/ litre	Sqm	75.78
13.85.3	With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre	Sqm	78.62
13.86	6 mm plaster on cement concrete or reinforced cement concrete work with white cement based polymer modified self curing mortar of approved make as per the direction of Engineer-In-Charge.	Sqm	275.07
13.87	White washing with lime to give an even shade :		
13.87.1	Old work (two or more coats)	Sqm	20.94
13.87.2	Old work (one or more coats)	Sqm	12.84
13.88	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	Sqm	16.65
13.89	Distempering with dry distemper of approved brand and manufacture (one or more coats) and of required shade on old work to give an even shade.	Sqm	62.47
13.90	Distempering with 1st quality acrylic distemper (Ready mix) having VOC content less than 50 grams/ litre of approved brand and manufacture to give an even shade :		
13.90.1	Old work (one or more coats)	Sqm	62.15
13.91	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	Sqm	21.53
13.92	Painting on G.S. sheet with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :		
13.92.1	Old work (one or more coats)	Sqm	95.00
13.93	Painting (two or more coats) on rain water, soil, waste and vent pipes and fittings with black anticorrosive bitumastic paint of approved brand and manufacture over and including a priming coat of ready mixed zinc chromate yellow primer on new work :		
13.93.1	75 mm diametre pipes	metre	56.09
13.94	Painting (one or more coats) on rain water, soil waste and vent pipes and fittings with black anticorrosive bitumastic paint of approved brand and manufacture on old work :		
13.94.1	75 mm diametre pipes	metre	24.01
13.94.2	100 mm diametre pipes	metre	34.93
13.94.3	150 mm diametre pipes	metre	50.15

SUB HEAD - 13.0 FINISHING WORK

SI No.	Description of Item	Unit	Amount in Rs.
13.95	Painting (two or more coats) on rain water, soil waste and vent pipes and fittings with aluminium paint of approved brand and manufacture over a priming coat of ready mixed zinc chromate yellow primer on new work :		
13.95.1	75 mm diametre pipes	metre	59.90
13.95.2	100 mm diametre pipes	metre	387.66
13.95.3	150 mm diametre pipes	metre	126.06
13.96	Painting (one or more coats) on rain water, soil waste and vent pipes and fittings with synthetic enamel paint of approved brand and manufacture and required colour on old work :		
13.96.1	75 mm diametre pipes	metre	28.91
13.96.2	100 mm diametre pipes	metre	37.19
13.96.3	150 mm diametre pipes	metre	53.41
13.97	Painting with oil type wood preservative of approved brand and manufacture:		
13.97.1	Old work (one or more coats)		51.14
13.98	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade		
13.98.1	One or more coats on old work	Sqm	104.66
13.99	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :		
13.99.1	One or more coats on old work	Sqm	109.73
13.100	Painting with aluminium paint of approved brand and manufacture to give an even shade:		
13.100.1	One or more coats on old work	Sqm	89.61
13.101	Painting with acid proof paint of approved brand and manufacture of required colour to give an even shade		
13.101.1	One or more coats on old work	Sqm	105.05
13.102	Painting with black anti-corrosive bitumastic paint of approved brand and manufacture to give an even shade :		
13.102.1	One or more coats on old work	Sqm	89.38
13.103	French spirit polishing :		
13.103.1	One or more coats on old work	Sqm	226.04
13.104	Polishing on wood work with ready made wax polish of approved brand and manufacture :		
13.104.1	Old work	Sqm	93.31
13.105	Re-lettering with black Japan paint of approved brand and manufacture	per letter per cm height	3.72

SUB HEAD - 13.0 FINISHING WORK

SI No.	Description of Item	Unit	Amount in Rs.
13.106	Painting (one or more coats) with black Japan paint of approved brand and manufacture to give an even shade.	Sqm	91.41
13.107	Providing and fixing C.P. brass chain and rubber plug complete for sink or wash basin:		
13.107.1	32 mm dia	each	151.05
13.107.2	40 mm dia	each	151.05
13.108	Distemping with 1st quality acrylic distemper (ready made) having VOC content less than 50 gm per ltr. of approved manufacturer and of required shade and colour complete. as per manufacturer's specification.		
13.108.1	One or more coats on old work	Sqm	57.95
13.109	Finishing walls with water proofing cement paint of required shade :		
13.109.1	Old work (one or more coats applied @ 2.20 kg/10 sqm) over priming coat of primer applied @ 0.80 litres/10 sqm complete including cost of Priming coat.	Sqm	112.54
13.109.2	Old work (one or more coats @ 2.20 kg/10 sqm) complete.	Sqm	76.94
13.110	Finishing walls with textured exterior paint of required shade :		
13.110.1	Old work (Two or more coats on existing cement paint surface applied @ 3.28 ltr/10 sqm.	Sqm	239.05
13.110.2	Old work (One or more coats) applied @ 1.82 ltr/10 sqm.	Sqm	147.34
13.111	Finishing walls with Acrylic Smooth exterior paint of required shade :		
13.111.1	Old work (Two or more coat applied @ 1.67 ltr/ 10 sqm) on existing cement paint surface	Sqm	139.39
13.111.2	Old work (Two or more coat applied @ 0.90ltr/ 10 sqm)	Sqm	92.28
13.112	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade		
13.112.1	Old work (Two or more coats applied @ 1.43 ltr/ 10 sqm) over existing cement paint surface	Sqm	133.53
13.112.2	Old work (one or more coats applied @ 0.83 ltr/10 sqm).	Sqm	90.45
13.113	Varnishing with varnish of approved brand and manufacture:		
13.113.1	One or more coats with copal varnish	Sqm	100.48
13.113.2	One or more coats with spar varnish	Sqm	101.91
13.114	Melamine polishing on wood work (one or more coat).	Sqm	171.15
13.115	Varnishing with flatting varnish of approved brand and manufacture one or more coats on old work.	Sqm	106.30
13.116	Polishing in high gloss/matt finish melamine clear polish on wood work in required color/wooden shade texture with following process in the sequence as detailed below:	Sqm	1368.66

SI No.	Description of Item	Unit	Amount in Rs.
1.	The surface to be polished is rubbed with sand paper 80/120 no. and then with sand paper of 160/180 nos.		
2.	Applying two coats of sealer with spray gun and allowing sufficient drying time for 1st coat and 2nd coat is allowed to dry for 8 to 12 hrs.		
3.	On drying of sealer coat, wet rubbing with emery cloth of finer grading with ample water to remove excess sealer layer and make the surface further smooth after this wet rubbing, then surface is applied with special grade melamine fillers to fill all the small and big holes/grooves etc. Filler coat to be allowed to dry for 4 to 6 hrs on which again a light wet rubbing is done this surface is further allowed to dry for 12 hrs.		
4.	On this, 1st coat of melamine polish is applied with spray gun using melamine clear polish and melamine thinner in required proportion. This 1st coat is allowed to dry for 24 hrs then this dry surface is again fine wet rubbed smooth, which is further allowed to dry for 12 hrs. The final melamine polish is applied with compressor pressure spray gun using melamine clear polish and melamine thinner mixed in required proportion complete as per direction of Engineer-in-Charge. (Final coat to be done in 1 or 2 layers without gap of time.)		

SUB HEAD - 14.0
REPAIRS TO BUILDING

SI No.	Description of Item	Unit	Amount in Rs.
14.1	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq.metres and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineering Charge.		
14.1.1	With cement mortar 1:4 (1 cement : 4 fine sand)	Sqm	562.64
14.1.2	With cement mortar 1:4 (1cement: 4 coarse sand)	Sqm	626.81
14.2	Fixing chowkhats in existing opening including embedding chowkhats in floors or walls cutting masonry for holdfasts, embedding hold fasts in cement concrete blocks of size 15 x 10 x 10 cm with cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size), painting two coats of approved wood preservative to sides of chowkhats and making good the damages to walls and floors as required complete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.		
14.2.1	Door chowkhats	each	1769.87
14.2.2	Window chowkhats	each	1107.63
14.2.3	Clerestory window chowkhats	each	779.04
14.3	Fixing chowkhat in existing opening in brick/ RCC wall with dash fasteners/ Chemical fasteners of appropriate size (3 nos on each vertical member of door chowkhat and 2 nos on each vertical member of window chowkhats), including Cost of dash fasteners/ chemical fastener.	each	891.71
14.4	Making the opening in brick masonry including dismantling in floor or walls by cutting masonry and making good the damages to walls, flooring and jambs complete, to match existing surface i/c disposal of mulba/ rubbish to the nearest municipal dumping ground, all complete as per direction of Engineer-in-Charge.		
14.4.1	For door/ window/ clerestory window	Sqm	1111.33
14.5	Renewing glass panes, with putty and nails wherever necessary including racking out the old putty:		
14.5.1	Float glass panes of nominal thickness 4 mm (weight not less than 10kg/sqm)	Sqm	1560.51
14.5.2	Float glass panes of nominal thickness 5 mm (weight not less than 12.5kg/sqm)	Sqm	1835.23
14.6	Renewing glass panes, with wooden fillets wherever necessary:		
14.6.1	Float glass panes of nominal thickness 4 mm (weight not less than 10kg/sqm)	Sqm	2060.39
14.6.2	Float glass panes of nominal thickness 5 mm (weight not less than 12.5kg/sqm)	Sqm	2327.98
14.7	Renewing glass panes and refixing existing wooden fillets:		

SI No.	Description of Item	Unit	Amount in Rs.
14.7.1	Float glass panes of nominal thickness 4 mm (weight not less than 10kg/sqm)	Sqm	1713.31
14.7.2	Float glass panes of nominal thickness 5 mm (weight not less than 12.5kg/sqm)	Sqm	1980.91
14.8	Supplying and fixing new wooden fillets wherever necessary:		
14.8.1	2nd class teak wood fillets	Sqm	83.84
14.8.2	Hollock wood fillets	Sqm	69.94
14.9	Renewal of old putty of glass panes (length)	metre	53.52
14.10	Refixing old glass panes with putty and nails	Sqm	695.79
14.11	Fixing old glass panes with wooden fillets (excluding cost of fillets)	Sqm	637.57
14.12	Providing and fixing 16 mm M.S. Fan clamps of standard shape and size in existing R.C.C. slab, including cutting chase, anchoring clamp to reinforcement bar, including cleaning, refilling, making good the chase with matching concrete, plastering and painting the exposed portion of the clamps complete.	Sqm	530.46
14.13	Regrading terracing of mud phaska covered with tiles or brick, in cement mortar by dismantling tiles or bricks, removing mud plaster, preparing the surface of mud phaska to proper slope, relaying mud plaster gobri leaping and tiles or bricks, grouted in cement mortar 1:3 (1 cement : 3 fine sand), including replacing unserviceable tiles or bricks with new ones and disposal of unserviceable material to the dumping ground (the cost of the new tiles or brick excluded), all complete as per direction of Engineer-in-Charge.	Sqm	720.00
14.14	Replacing sand stone slabs in roofing, laid in cement mortar 1:4 (1 cement : 4 coarse sand), including necessary repairs and cement pointing with same mortar complete, including disposal of rubbish to dumping ground, all complete as per direction of Engineer-in-Charge.		
14.14.1	Red/ white sand stone slabs 30 to 50 mm thick	Sqm	1354.33
14.15	Renewing wooden battens in roofs, including making good the and painting with oil type wood preservative of approved brand and complete, including removal of rubbish to the dumping ground, all per direction of Engineer-in-Charge.		
14.15.1	Sal wood battens	Cum	146384.44
14.16	Renewing wooden beams in roofs including making good the holes in walls and painting with oil type wood preservative of approved brand and manufacture complete, including removal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.		
14.16.1	Not exceeding 4.00 metres in length.		
14.16.1.1	Sal wood beams	Cum	152100.13
14.16.1.2	Hollock wood beams	Cum	83288.67
14.16.2	Above 4.00 metres and upto 5.00 metres length.		

SI No.	Description of Item	Unit	Amount in Rs.
14.16.2.1	Sal wood beams	Cum	154331.76
14.16.2.2	Hollock wood beams	Cum	79239.00
14.17	Raking out joints in lime or cement mortar and preparing the surface for repointing or replastering, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.	Sqm	58.97
14.18	Flush pointing with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement for flat tile bricks on		
14.18.1	With F.P.S. brick tiles	Sqm	130.72
14.18.2	With modular brick tiles	Sqm	132.94
14.19	Taking out wind ties from roof including cutting out rusted bolts, nuts etc. and removing materials to any distance within compound and stacking.	Kg	4.80
14.20	Fixing of old wind tie with new fittings including painting two or more coats with anticorrosive bitumastic paint of approved brand & manufacturer over and including priming coat of ready mixed zinc chromate yellow primer of approved brand.	metre	7.93
14.21	Renewing bottom rail and/or top runner of collapsible gate including making good all damages and applying priming coat of zinc chromate yellow primer of approved brand and manufacturer.	Kg	276.92
14.22	Renewing Wrought iron or M.S. Wheel or roller of steel door or gate and fitting and fixing the same with necessary clamps, nuts and bolts/welding and erection etc. complete.		
14.22.1	Wheel 50 mm dia and below	per wheel	231.71
14.22.2	Wheel above 50 mm dia	per wheel	508.72
14.23	Pumping out water caused by springs, tidal or river seepage, broken water mains or drains and the like.	kilo litre	196.74
14.24	Mud mortar made with local clay good earth.	Cum	1042.66
14.25	Brick work with common burnt clay bricks of class designation 7.5 in mud mortar	Cum	8333.72
14.26	Providing and fixing 25 mm thick shutters for cup board etc. :		
14.26.1	Panelled or panelled & glazed shutters :		
14.26.1.1	Superior class teak wood including nickel plated bright finished M.S. piano piano hinges with necessary screws.	Sqm	5951.86
14.26.1.2	1st class teak wood including nickel plated bright finished M.S. piano hinges with necessary screws.	Sqm	5873.46
14.26.2	Glazed shutters :		
14.26.2.1	Superior class teak wood including nickel plated bright finished M.S. piano hinges with necessary screws.	Sqm	6090.71

SI No.	Description of Item	Unit	Amount in Rs.
14.26.2.2	1st class teak wood including nickel plated bright finished M.S. piano hinges with necessary screws	Sqm	6006.28
14.27	Providing and fixing plain jaffri door and window shutters including bright or/ and black enamelled M.S. butt hinges with necessary screws 35x10 mm laths placed 35 mm apart beading complete with :(frames to be paid separately), including fixing 50x12 mm		
14.27.1	Second class teak wood	Sqm	6452.73
14.28	Providing and fixing brass curtain rods of wall thickness 1.25 mm with two brass brackets fixed with brass screws and wooden plugs etc. wherever necessary complete.		
14.28.1	20 mm diametre	Sqm	405.53
14.28.2	25 mm diametre.	metre	506.54
14.29	Providing and fixing M.S. round or square bars with M.S. flats at required spacing in wooden frames of windows and clerestory windows.	Kg	130.09
14.30	Providing joists (karries) including hoisting, fixing in position and applying wood preservative on unexposed surface etc. complete with :		
14.30.1	Sal wood	Cum	194638.07
14.30.2	Hollock wood	Cum	71344.82
14.31	Providing and fixing bright finished brass single acting spring hinges with necessary brass screws etc. complete :		
14.31.1	150 mm	each	884.74
14.31.2	125 mm	each	647.16
14.31.3	100 mm	each	613.02
14.32	Providing and fixing bright finished brass double acting spring hinges with necessary brass screws etc. complete :		
14.32.1	150 mm	each	1002.82
14.32.2	125 mm	each	867.67
14.32.3	100 mm	each	803.59
14.33	Providing and fixing bright finished brass flush bolts with necessary brass		
14.33.1	250 mm	each	291.64
14.33.2	150 mm	each	253.69
14.33.3	100 mm	each	186.47
14.34	Providing and fixing 150 mm bright finished floor brass door stopper with rubber cushion, necessary brass screws etc. to suit shutter thickness complete	each	338.41
14.35	Providing and fixing bright finished brass hard drawn hooks and eyes :		
14.35.1	300 mm	each	127.19
14.35.2	250mm	each	123.21
14.35.3	200 mm	each	94.33
14.35.4	150 mm	each	75.70

SI No.	Description of Item	Unit	Amount in Rs.
14.35.5	100 mm	each	66.45
14.36	Providing and fixing bright finished brass fan light pivot with necessary brass screws etc. complete.	each	55.93
14.37	Providing and fixing 300 mm long bright finished brass chain with hook for fan light including necessary brass screws etc. complete.	each	88.12
14.38	Providing and fixing bright finished brass quadrant stay 300 mm long with necessary brass screws etc. complete.	each	206.20
14.39	Providing and fixing bright finished brass helical door spring (superior quality).	each	511.72
14.40	Providing and fixing chromium plated brass butt hinges with necessary chromium plated brass screws etc. complete.		
14.40.1	125x70x4 mm (ordinary type)	each	219.87
14.40.2	100x70x4 mm (ordinary type)	each	192.96
14.40.3	75x65x4 mm (heavy type)	each	222.52
14.40.4	75x40x2.5 mm (ordinary type)	each	131.90
14.40.5	50x40x2.5 mm (ordinary type)	each	56.27
14.41	Providing and fixing 85x42 mm chromium plated brass pull bolt lock with necessary chromium plated brass screws, nuts, bolts and washers etc. complete.	each	355.66
14.72	Providing and fixing double scaffolding system (cup lock type) on the exterior side, up to seven story height made with 40 mm dia M.S. tube 1.5 m centre to centre, horizontal & vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube challies, M.S. clamps and M.S. staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for the required duration as approved and removing it there after .The scaffolding system shall be stiffened with bracings, runners, connection with the building etc wherever required for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of Engineer-in-charge .The elevational area of the scaffolding shall be measured for payment purpose .The payment will be made once irrespective of duration of scaffolding Note: - This item to be used for maintenance work judiciously, necessary deduction for scaffolding in the existing item to be done.	Sqm	330.22
14.72X	Scaffolding	cost of using once	11871.34
14.73	Providing and fixing bright finished brass casement window stays to windows/ ventilators with necessary welding and machine screws etc.fasteners or peg complete	Kg	636.88

SI No.	Description of Item	Unit	Amount in Rs.
14.74	Providing and fixing 14 mm bright finished brass spring catch to steel centre hung ventilators with necessary welding and machine screws etc. complete.	each	84.41
14.75	Repair to plaster of thickness 12mm to 20 mm in patches of area 2.5 sqm and under, including cutting the patch in proper shape, raking out joints and preparing plastering the wall surface with white cement based polymer modified self curing mortar, including disposal of rubbish, all complete as per the direction of Engineer-In-Charge.	Sqm	685.72
14.75A	Cleaning of terrace/loft water storage tank (inside surface area) upto 2000 litre capacity at all heights with coconut brushes, duster etc., removal of silt, rubbish from the tank and cleaning the tank with fresh water disinfecting with bleaching powder @ 0.5gm per litre capacity of tank including marking the date of cleaning on the side of tank body with the help of stencil and paint and disposing of malba all complete as per direction of Engineer-in-Charge. (The old date already written on tank should be removed with paint remover or black paint and if date is not written with the stencil or old date is not removed deduction will be made @ Rs. 0.10 per litre) (if during cleaning any GI fittings or ball cock is damaged that is to be repaired by contractor at his own cost and nothing extra will be paid on this account)	Litres	0.45
14.76	Cleaning and desilting of gully trap chamber, including removal of rubbish mixed with earth etc. and disposal of same, all as per the direction of Engineer-incharge	each	246.23
14.77	Cleaning of chocked sewer line by diesel running vehicle mounting hydraulic operated high pressure suction cum jetting sewer cleaning machine fitted with pump having 4000 litres suction capacity and 6000 litres water jetting tank capacity including skilled operator, supervising engineer etc. for cleaning and partial desilting of manholes and dechocking of sewer lines. Dechocking and flushing of sewer line from one manhole to another by high pressure jetting system of 2200 PSI for sewer line from 150mm dia upto 300mm	metre	324.23
14.78	Cleaning of under ground sump, Over Head R.C.C. Tank (independent staging) including disposal of slit and rubbish, all as per direction of Engineer-in-Charge. The cleaning shall consist following operations:- (i) Tank shall be emptied of water by pumping & bottom shall be cleaned of silt and other deposits. (ii) Entire surface area of the sump shall then scrubbed thoroughly with wire brush etc. and pressure washed with water. (iii) Chlorination of RCC internal surface by liquid chlorine. (iv) The treated surface shall be dried using air jetting and all loose particles shall be removal from the surface. (v) Finally the surface shall be treated with ultraviolet radiation etc. as per direction of Engineer-in-Charge.	Sqm	89.54

SI No.	Description of Item	Unit	Amount in Rs.
14.79	Disconnecting damaged overhead/terrace PVC water storage tank of any size from water supply line and removing from the terrace including shifting at ground level as per direction of Engineer-in-charge.	each	379.17
14.80	Providing & fixing White vitreous china water closet squatting pan (Indian type) along with "S" or "P" trap including dismantling of old WC seat and "S" or "P" trap at site complete with all operations including all necessary materials, labour and disposal of dismantled material i/c malba, all complete as per the direction of Engineer-in charge.		
14.80.1	Long pattern W.C Pan of size 580x440 mm	each	4280.42
14.80.2	Orissa pattern W.C Pan of size 580x440 mm	each	5114.80
14.81	Cutting holes of required size in brick masonry wall for fixing of exhaust fan including providing and fixing 300 mm dia PVC pipe conforming BIS-12818 and making good the same etc. complete as per direction of Engineer-in-charge.	each	295.91
14.82	Dismantling W.C. Pan of all sizes including disposal of dismantled materials i/c malba all complete as per directions of Engineer-in-Charge.	each	109.73
14.83	Hacking of CC flooring including cleaning for surface etc. complete as per direction of the Engineer-in-Charge.	sqm	2.93
14.84	Dismantling 15 to 40 mm dia G.I. pipe including stacking of dismantled pipes (within 50 metres lead) as per direction of Engineer-in-Charge. (a) Internal Work-Exposed on wall	metre	3.91
14.85	Taking out existing wooden door shutter, repair by cutting, painting etc. and refixing of repaired door shutters to existing door frames, including replacement of hinges with screws, etc. as required, all complete as per the direction of the Engineer-in-charge.	each	420.47
14.86	Providing and laying in situ seven course water proofing treatment with APP (Atactic poly-propylene) modified Polymeric memberane over roof consisting of first coat of bitumen primer @ 0.40 litre per sqm, 2nd, 4th & 6th courses of bonding material @ 1.20 Kg/sqm, which shall consist of blown type bitumen of grade 85/ 25 conforming to IS : 702, 3rd and 5th layers of roofing membrane APP modified Polymeric membrane 1.5 mm thick of 2.25 Kg/sqm weight consisting of five layer prefabricated with centre core as 20 micron HMHDPE film sandwiched on both sides with polymeric mix and the polymeric mix is protected on both side with 20 micron HMHDPE film. 7th, the top most layer shall be finished with brick tiles of class designation 10 grouted with cement mortar 1:3 (1cement : 3 fine sand) mixed with 2% integral water proofing compound by weight of cement over a 12 mm layer of cement mortar 1:3 (1 cement : 3 fine sand) and finished neat (item of laying brick tiles shall be paid for separately).	Sqm	730.30

SI No.	Description of Item	Unit	Amount in Rs.
14.87	Providing and laying in situ five course water proofing treatment with APP (Atactic Polypropylene) modified Polymeric memberane over roof consisting of first coat of bitumen primer @ 0.40 litre per sqm, 2nd & 4th courses of bonding material @ 1.20 kg/sqm, which shall consist of blown type bitumen of grade 85/25 conforming to IS : 702, 3rd layer of roofing membrane APP modified Polymeric membrane 2.0 mm thick of 3.00 Kg/ sqm weight consisting of five layers prefabricated with centre core as 100 micron HMHDPE film sandwiched on both sides with polymeric mix and the polymeric mix is protected on both side with 20 micron HMHDPE film. 5th, the top most layer shall be finished with brick tiles of class designation 10 grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% integral water proofing compound by weight of cement over a 12 mm layer of cement mortar 1:3 (1 cement : 3 fine sand) and finished neat (item of laying brick tiles shall be paid for separately).	Sqm	472.39
14.88	Providing and laying in situ seven course water proofing treatment with APP (Atactic Polypropylene) modified Polymeric memberane over roof consisting of first coat of bitumen primer @ 0.40 litre per sqm, 2nd, 4th & 6th courses of bonding material @ 1.20 kg/sqm, which shall consist of blown type bitumen of grade 85/25 conforming to IS : 702, 3rd and 5th layers of roofing membrane APP modified Polymeric membrane 2.0 mm thick of 3.00 Kg/sqm weight consisting of five layers prefabricated with centre core as 100 micron HMHDPE film sandwiched on both sides with polymeric mix and the polymeric mix is protected on both side with 20 micron HMHDPE film. 7th, the top most layer shall be finished with brick tiles of class designation 10 grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% integral water proofing compound by weight of cement over a 12 mm layer of cement mortar 1:3 (1 cement : 3 fine sand) and finished neat (item of laying brick tiles shall be paid for separately).	Sqm	819.12
14.89	Providing and fixing APP (Atactic Polypropylene Polymer) modified prefabricated five layer 2 mm thick water proofing membrane, black finished reinforced with glass fibre matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrance manufacture of density at 25°C, 0.87 - 0.89 kg/ litre and viscosity 70 - 160 cps. Over the primer coat the layer of membrane shall be laid using Butane torch and sealing all joints etc., and preparing the surface complete. The vital physical and chemical parametres of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 350/300 N/ 5 cm. Tear strength in longitudinal and transverse direction as 60/80N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacture of membrane.		
14.89.1	2mm (for corrugated roof sheets)	Sqm	492.56

SI No.	Description of Item	Unit	Amount in Rs.
14.90	Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer, 3 mm thick water proofing membrane, black finished reinforced with glass fibre matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrane manufactured of density at 25°C, 0.87 - 0.89 kg/litre and viscosity 70 - 160 cps. Over the primer coat the layer of membrane shall be laid using butane torch and sealing all joints etc., and preparing the surface complete. The vital physical and chemical parametres of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 350/300 N/5 cm. Tear strength in longitudinal and transverse direction as 60/80N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane :		
14.90.1	3 mm thick	Sqm	595.84
14.91	Providing and laying APP (Atactic Polypropylene modified prefabricated five layer 3 mm thick water proofing membrane, black finished reinforced with nonwoven polyester matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrane manufacture of density at 25°C, 0.87-0.89 kg/ litre and viscosity 70-160 cps. Over the primer coat the layer of membrane shall be laid using Butane Torch and sealing all joints etc, and preparing the surface complete. The vital physical and chemical parametres of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 650/ 450N/ 5cm. Tear strength in longitudinal and transverse direction as 300/250N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane :		
14.91.1	3 mm thick	Sqm	630.27
14.92	Extra for covering top of membrane with Geotextile, 120 gsm non woven, 100% polyester of thickness 1 to 1.25 mm bonded to the membrane with intermittent touch by heating the membrane by Butane Torch as per manufactures recommendation.	Sqm	126.19
14.93	Providing round the clock security guard without gun for watch & ward of Government premises and its all belongings by deploying neatly dressed security guards in 8 hour's shift including necessary T&P like torch, lathi and uniform etc.complete,as per the direction of Engineer-in-charge. (One job means 8 hour's duty).	each job	1006.52
14.94	Providing round the clock security guard with gun for watch & ward of Government premises and its all belongings by deploying neatly dressed security guards in 8 hour's shift including necessary T&P like torch, lathi and uniform etc.complete, as per the direction of Engineer-in-charge.(One job means 8 hour's duty).	each job	1188.62

SUB HEAD - 15.0
DISMENTLING AND DEMOLISHING

SI No.	Description of Item	Unit	Amount in Rs.
15.1	Demolishing lime concrete manually/ by mechanical means and disposal of material within 50 metres lead as per direction of Engineer- in-charge.	Cum	689.71
15.2	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.		
15.2.1	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	Cum	1974.16
15.2.2	Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix)	Cum	1218.08
15.3	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.	Cum	2880.07
15.4	Demolishing R.B. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in- charge.	Cum	2574.65
15.5	Extra for cutting reinforcement bars manually/ by mechanical means in R.C.C. or R.B. work (Payment shall be made on the cross sectional area of R.C.C. or R.B. work) as per direction of Engineer-in-charge.	Cum	1080.25
15.6	Extra for scrapping, cleaning and straightening reinforcement from R.C.C. or R.B. work.	Kg	8.21
15.7	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.		
15.7.1	In mud mortar	Cum	571.22
15.7.2	In lime mortar with old mughal bricks	Cum	1443.06
15.7.3	In lime mortar	Cum	689.71
15.7.4	In cement mortar	Cum	1668.74
15.8	Removing mortar from bricks and cleaning bricks including stacking within a lead of 50 m (stacks of cleaned bricks shall be measured):		
15.8.1	From brick work in mud mortar	1000 Nos	3852.80
15.8.2	From brick work in lime mortar	1000 Nos	4509.86
15.8.3	From brick work in cement mortar	1000 Nos	5689.25
15.9	Demolishing stone rubble masonry manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge :	Cum	938.74
15.9.2	In cement mortar	Cum	1991.43

SI No.	Description of Item	Unit	Amount in Rs.
15.10	Dismantling dressed stone work ashlar face stone work, marble work or precast concrete work manually/ by mechanical means including stacking of serviceable and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge :		
15.10.1	In lime mortar	Cum	1187.28
15.10.2	In cement mort	Cum	2330.02
15.11	Removing mortar from and cleaning stones and concrete articles (net quantity concrete articles (net quantity of stacks of cleaned materials will be measured):		
15.11.1	In lime mortar	Cum	398.10
15.11.2	In cement mortar	Cum	568.91
15.12	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead :		
15.12.1	Of area 3 sq. metres and below	each	333.37
15.12.2	Of area beyond 3 sq. metres	each	432.19
15.13	Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead		
15.13.1	Of area 3 sq. metres and below	each	130.22
15.13.2	Of area beyond 3 sq. metres	each	172.85
15.14	Dismantling wood work in frames, trusses, purlins and rafters up to 10 metres span and 5 metres height including stacking the material within 50 metres lead		
15.14.1	Of sectional area 40 square centimetres and above	each	4163.81
15.14.2	Of sectional area below 40 square centimetres	metre	16.65
15.15	Extra for dismantling trusses, rafters, purlins etc. of wood work for every additional span of one metre or part thereof beyond 10 metres :		
15.15.1	Of sectional area 40 square centimetres and above	cum per metre span	548.18
15.15.2	Of sectional area below 40 square centimetres	cum per metre span	1.56
15.16	Extra for dismantling trusses, rafters, purlins etc. of wood work for every additional height of one metre or part thereof beyond 5 metres :		
15.16.1	Of sectional area 40 square centimetres and above	cum per metre span	777.92
15.16.2	Of sectional area below 40 square centimetres	cum per metre span	3.05
15.17	Dismantling steel work in single sections including dismembering and stacking within 50 metres lead in:		
15.17.1	R.S. Joists	Kg	2.95

SUB HEAD - 15.0 DISMENTLING AND DEMOLISHING

SI No.	Description of Item	Unit	Amount in Rs.
15.17.2	Channels, angles, tees and flats	Kg	2.04
15.18	Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking within 50 metres lead.	Kg	5.06
15.19	Dismantling steel work manually/ by mechanical means in built up sections without dismembering and stacking within 50 metres lead as per direction of Engineer-in-charge.	Kg	3.19
15.20	Extra for dismantling trusses, rafters, purlins etc. of steel work for every additional span of one metre or part thereof beyond 10 metres	Kg Per metre span	0.72
15.21	Extra for dismantling trusses, rafters, purlins etc. of steel work for every additional height of one metre or part thereof beyond 5 metres.	Kg Per metre height	0.72
15.22	Extra for marking of structural steel work required to be re-erected.	Kg	4.23
15.23	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.		
15.23.1	For thickness of tiles 10 mm to 25 mm	Sqm	66.03
15.23.2	For thickness of tiles above 25 mm and up to 40 mm	Sqm	104.44
15.24	Demolishing dry brick pitching in floors, drains etc. including stacking of serviceable material and disposal of unserviceable material within 50 metres lead :	Sqm	1068.76
15.25	Dismantling stone slab flooring laid in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	Sqm	216.46
15.26	Demolishing brick tile covering in terracing including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	Sqm	96.90
15.27	Demolishing mud phaska in terracing and disposal of material within 50 metres lead	Sqm	740.50
15.28	Dismantling roofing including ridges, hips, valleys and gutters etc., and stacking the material within 50 metres lead of:		
15.28.1	G.S. Sheet	Sqm	147.75
15.28.2	Asbestos cement sheet	Sqm	68.59
15.29	Dismantling stone slab roofing over wooden karries or R.C.C. battens (dismantling karries and battens to be paid for separately), including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	Sqm	2164.63

SI No.	Description of Item	Unit	Amount in Rs.
15.30	Dismantling jack arch roofing and floors including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	Sqm	206.31
15.31	Dismantling tiled roofing with battens, boarding etc. complete including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	Sqm	170.75
15.32	Demolishing thatch roofing including mats, bamboo, jaffari etc. complete including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	Sqm	47.13
15.33	Dismantling wooden ballies in posts and struts including stacking within 50metres lead.	metre	16.97
15.34	Dismantling and stacking within 50 metres lead, fencing posts or struts including all earth work and dismantling of concrete etc. in base of:		
15.34.1	T' or 'L' iron or pipe	each	206.28
15.34.2	R.C.C.	each	228.51
15.35	Cutting ballies or wooden posts of fencing at the point of projection above the concrete or ground and stacking the same within 50 metres lead.	each	16.27
15.36	Dismantling barbed wire or flexible wire rope in fencing including making rolls and stacking within 50 metres lead.	Kg	29.83
15.37	Dismantling wooden trellis work excluding frames but including stacking the serviceable material within 50 metres lead.	Sqm	54.89
15.38	Dismantling expanded metal or I.R.C. fabrics with necessary battens and beading including stacking the serviceable material within 50 metres lead.	Sqm	64.51
15.39	Dismantling wooden boardings in lining of walls and partitions, excluding supporting members but including stacking within 50 metres lead :		
15.39.1	Up to 10 mm thick	Sqm	54.08
15.39.2	Thickness above 10 mm up to 25 mm	Sqm	69.15
15.39.3	Thickness above 25 mm up to 40 mm	Sqm	80.21
15.40	Dismantling precast concrete or stone slabs in walls, partition walls etc. including stacking within 50 metres lead :		
15.40.1	Thickness up to 40 mm	Sqm	241.04
15.40.2	Thickness above 40 mm up to 75 mm	Sqm	359.28
15.41	Dismantling cement asbestos or other hard board ceiling or partition walls including stacking of serviceable materials and disposal of unserviceable materials within 50 metres lead.	Sqm	51.66

SI No.	Description of Item	Unit	Amount in Rs.
15.42	Dismantling C.I. or asbestos rain water pipe with fittings and clamps including stacking the material within 50 metres lead :		
15.42.1	75 to 80 mm dia pipe	metre	61.30
15.42.2	100 mm dia pipe	metre	63.25
15.42.3	150 mm dia pipe	metre	65.14
15.43	Dismantling manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge :		
15.43.1	Water bound macadam road	Sqm	179.04
15.43.2	bituminous road	Sqm	350.29
15.44	Dismantling G.I. pipes (external work) including excavation and refilling trenches after taking out the pipes, manually/ by mechanical means including stacking of pipes within 50 metres lead as per direction of Engineer-in-charge :		
15.44.1	15 mm to 40 mm nominal bore	metre	139.81
15.44.2	Above 40 mm nominal bore	metre	139.81
15.45	Dismantling C.I. pipes including excavation and refilling trenches after taking out the pipes, manually/ by mechanical means breaking lead caulked joints, melting of lead and making into blocks including stacking of pipes & lead at site within 50 metre lead as per direction of Engineer-in-charge:		
15.45.1	Up to 150 mm diametre	metre	367.25
15.45.2	Above 150 mm dia up to 300 mm dia	metre	481.01
15.45.3	Above 300 mm diametre	metre	630.58
15.46	Dismantling steel cylinder R.C. pipes excavation and refilling trenches after taking out the pipes, manually/ by mechanical means breaking lead caulked joints, melting of lead and making into blocks including stacking of pipes & lead at site within 50 metres lead as per direction of Engineer-in-charge :		
15.46.1	Up to 600 mm diametre	metre	596.13
15.46.2	Above 600 mm diametre	metre	1571.50
15.47	Dismantling asbestos cement pressure pipes including excavation and refilling trenches after taking out the pipes manually/ by mechanical means and stacking the pipes within 50 metres lead as per direction of Engineer-in-charge :		
15.47.1	Up to 150 mm diametre	metre	268.94
15.47.2	Above 150 mm diametre	metre	326.52
15.48	Taking out C.I. cover with frame from R.C.C. top slab of manholes of various sizes including demolishing of R.C.C. work manually/ by mechanical means and stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead as per direction of Engineer-in-charge.	each	574.80

SI No.	Description of Item	Unit	Amount in Rs.
15.49	Taking out C.I. cover with frame from R.C.C. top slab of inspection chambers of various sizes including demolishing of R.C.C. work manually/ by mechanical means and stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead as per direction of Engineer-incharge	each	336.59
15.50	Dismantling of R.C.C. spun vent shaft including excavating the cement concrete pit completely, taking out the shaft, refilling the excavated gap, stacking the useful materials near the site and disposal of unserviceable materials within 50 metres lead.	each	3953.59
15.51	Dismantling of road gully chamber of various sizes including C.I. grating with frame including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead including refilling the excavated gap.	each	785.91
15.52	Dismantling of flushing cistern of all types (C.I./PVC/Vitriuous China) including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead.	each	811.03
15.53	Dismantling of C.I. sluice valve including stacking of useful materials within a lead of 50 metres		
15.53.1	Up to 150 mm diametre	each	295.12
15.53.2	Above 150 mm diametre	each	1067.96
15.54	Dismantling of spindle fire hydrant including stacking of useful materials within 50 metres lead.	each	655.16
15.55	Dismantling of cement concrete platform along with curtain walls and base concrete etc. including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead :		
15.55.1	120 x 120 cm (outside to outside)	each	894.39
15.55.2	210 x 120 cm (outside to outside)	each	1592.05
15.55.3	320 x 120 cm (outside to outside)	each	1941.64
15.56	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	Sqm	44.58
15.57	Dismantling aluminium/ Gypsum partitions, doors, windows, fixed glazing and fal ceiling including disposal of unserviceable material and stacking of serviceable material with in 50 metres lead as directed by Engineer-in-charge.	Sqm	51.68
15.58	Demolishing R.C.C. work by mechanical means and stockpiling at designated locations and disposal of dismantled materials up to a lead of 1 kilometre, stacking serviceable and unserviceable material separately including cutting reinforcement bars.	Cum	2630.27

SI No.	Description of Item	Unit	Amount in Rs.
15.59	Dismantling of flexible pavement (bituminous courses) by mechanical means and disposal of dismantled material up to a lead of 1 kilometre, as per direction of Engineer-in-charge	Cum	379.28
15.60	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	Cum	226.40

SUB HEAD - 16.0
ROAD WORK

SI No.	Description of Item	Unit	Amount in Rs.
16.1	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earthwith lead upto 50 metres.	Sqm	183.34
16.2	Extra for compaction of earth work in embankment under optimum moisture conditions to give at least 95% of the maximum dry density (proctor density).	Cum	21.75
16.3	Supplying and stacking at site.		
16.3.1	90 mm to 45 mm size stone aggregate	Cum	1414.82
16.3.2	63 mm to 45 mm size stone aggregate	Cum	1131.86
16.3.3	53 mm to 22.4 mm size stone aggregate	Cum	1088.32
16.3.4	Over burnt (Jhama) brick aggregate 120 mm to 40 mm	Cum	1015.77
16.3.5	Over burnt (Jhama) brick aggregate 90 mm to 45 mm	Cum	1523.65
16.3.6	Stone screening 13.2 mm nominal size (Type A)	Cum	1523.65
16.3.7	Stone screening 11.2 mm nominal size (Type B)	Cum	1523.65
16.3.8	Red bajri	Cum	1523.65
16.3.9	Good earth	Cum	383.66
16.3.10	Moorum	Cum	846.47
16.4	Laying, spreading and compacting stone aggregate of specified sizes to WBM specifications in uniform thickness, hand picking, rolling with 3 wheeled road/vibratory roller 8-10 tonne capacity in stages to proper grade and camber, applying and brooming requisite type of screening / binding material to fill up interstices of coarse aggregate, watering and compacting to the required density .	Cum	897.90
16.5	Laying water bound macadam sub-base with brick aggregate and binding material, earth etc. including screening, sorting and spreading to templa and consolidation with light power road-roller etc. complete.(payment for bric aggregate and moorum etc. to be made separately)		
16.5.1	Over burnt (Jhama) brick aggregate 120 mm to 40 mm	Cum	755.34
16.5.2	Over burnt (Jhama) brick aggregate 90 mm to 45 mm	Cum	755.34
16.6	Supplying, stacking and Spreading 6 mm thick red bajri, watering and rolling complete including preparation of the surface and rolling.		
16.6.1	With road roller/ hand roller	Sqm	22.14
16.7	Brick edging in full brick width and half brick depth including excavation, refilling and disposal of surplus earth lead upto 50 metres.		
16.7.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	metre	269.38

SI No.	Description of Item	Unit	Amount in Rs.
16.8	Brick edging laid lengthwise with half brick depth including excavation, refilling and disposal of surplus earth lead upto 50 metres		
16.8.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	metre	76.53
16.9	Scarifying metalled (water-bound) road surface including disposal of rubbish, lead upto 50 m and consolidation of the aggregate received from scarifying with power road roller of 8 to 10 tonne capacity.	Sqm	28.60
16.10	Making bajri path including preparation of subgrade, supplying and laying brick aggregate of 50 mm nominal size 7.5 cm deep with blinding material consisting of 12 mm moorum and 12 mm red bajri consolidated with road roller.	Sqm	206.70
16.11	Dry stone pitching 22.5 cm thick including supply of stones and preparing surface complete	Sqm	854.35
16.12	Dry brick pitching half brick thick in drains including supply of bricks and preparing the surface complete :		
16.12.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Sqm	946.43
16.13	Cutting road and making good the same including supply of extra quantities of materials i.e. aggregate, moorum screening, red bajri and labour required.		
16.13.1	bituminous portion	Cum	4533.65
16.13.2	Water bound macadam	Cum	2541.43
16.14	Cutting bajri paths and making good the same including supply of extra quantities of brick aggregate, moorum and red bajri required.	sqm	236.67
16.15	Supplying at site :		
16.15.1	R.C.C. Standards post/ struts/rails/ pales of mix 1:1.5:3 (1 cement : 1.5 coarsesand : 3 graded stone aggregate 12.5 mm nominal size) with wooden plugs or 6mm bar nibs wherever required as per direction of Engineer-in charge (cost of earth works in excavation, concrete works in foundation to be paid separately).	Cum	36580.32
16.15.2	Welded steel wire fabric of required width having rectangular mesh painted with two or more coats of enamel paint of approved shade over a coat of primer (Priming & Painting to be paid for separately).	Kg	88.85
16.16	Supplying and fixing turn buckles and straining bolts for barbed wire fencing.	each set	327.93

SI No.	Description of Item	Unit	Amount in Rs.
16.17	Fencing with R.C.C. post placed at required distance, embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be strutted on both sides and end post one side only, provided with horizontal lines and two diagonals of barbed wire weighing 9.38 kg per 100 metres (minimum) between the two posts fitted and fixed with G.I. staples on wooden plugs or G.I. binding wire tied to 6 mm bar nibs fixed while casting the post (cost of R.C.C. posts, struts, earth work and concrete to be paid for separately) :- Payment to be made per metre cost of total length of barbed wire used.	metre	14.62
16.18	Fencing with angle iron post placed at required distance embedded in cementCstrutted on both sides and end post on one side only and provided with horizontal 9.38 kg per 100 m (minimum), between the two posts fitted and fixed with G.I. staples, turn buckles etc. complete. (Cost of posts, struts, earth work and concrete work to be paid for separately). Payment to be made per metre cost of total length of barbed wire used.		
16.18.1	With G.I. barbed wire	metre	28.17
16.19	Supplying at site Angle iron post & strut of required size including bottom to be split and bent at right angle in opposite direction for 10 cm length and drilling holes upto 10 mm dia. etc. complete	Kg	149.65
16.20	Welded steel wire fabric fencing with posts of specified material and of standard design placed and embedded in cement concrete blocks 45x45x 60 cm of mix 1:5:10 (1 cement:5 fine sand : 10 graded stone aggregate 40 mm nominal size), every 15th post, last but one end post and corner post shall be strutted on both sides and end post on one side only and struts embedded in cement concrete blocks 70x45x50 cm of the same mix, provided with welded steel wire fabric fixed blocks 70x45x50 cm of the same mix, provided with welded steel wire fabric fixed between the posts fitted and fixed with G.I. staples on wooden plugs or tied to 6 mm bar nibs with G.I. binding wire (cost of posts, welded steel wire fabric, painting, earth work in excavation and concrete to be paid for separately).	Sqm	65.96
16.21	Engraving letters in hard stone	per cm. height per letter	14.14
16.22	Providing and fixing 15x15x90 cm boundary stone of hard stone with top 30 cm chisel dressed on all four sides including top (cost of excavation, refilling and concrete etc. to be paid for separately).	each.	254.43
16.23	Providing and fixing 15 cm dia at top, 20 cm at bottom and 90 cm high precast reinforced cement concrete 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size) boundary stone as per standard design, including finishing smooth with cement mortar 1:3 (1 cement : 3 fine sand) (cost of excavation, refilling and concreting to be paid for separately).	each.	1108.65

SI No.	Description of Item	Unit	Amount in Rs.
16.24	Providing and fixing precast reinforced cement concrete 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size) kilometre stone as per standard design, including finishing smooth in 1:3 cement mortar (1 cement : 3 fine sand) but excluding the cost of earth work, concrete in foundation, painting and lettering etc. which shall be paid for separately.		
16.24.1	35x111x25 cm size	each.	3493.26
16.24.2	50x152.5x25 cm size	each.	7098.00
16.24.3	35x93.5x18 cm size	each.	2431.43
16.25	Surface dressing on new surface with paving bitumen of grade VG - 10 of approved quality using 2.25 kg of bitumen per sqm with 1.65 cum of stone chippings 13.2mm nominal size per 100 sqm of road surface, including consolidation with road roller of 6 to 8 tonne capacity etc. complete:	Sqm	308.03
16.26	Surface dressing on new surface in two coats with bitumen of grade VG -10 of approved quality using 1.8 kg of bitumen per sqm with 1.5 cum of stone chippings 13.2 mm nominal size per 100 sqm of road surface for first coat and 1.1 kg. of bitumen per sqm with 1.00 cu. metre of stone chippings 11.2 mm nominal size per 100 sqm of road surface for second coat, including consolidation of each coat separately with road roller of 6 to 8 tonne capacity etc. complete.	Sqm	383.77
16.27	Surface dressing on old surface with hot bitumen of grade VG - 10 of approved quality using 1.95 kg of bitumen per sqm with 1.50 cum of stone chippings 11.2 mm nominal size per 100 sqm of road surface, including consolidation with road roller of 6 to 8 tonne capacity, etc. complete.	Sqm	229.68
16.28	Surface dressing one coat on new surface with bitumen of specified grade at a rate of 1.95 kg/sqm of surface area with 1.5 cum of stone chippings 13.2 mm nominal size per 100 sqm of road surface, including consolidation with road roller of 6 to 8 tonne capacity , etc. complete :		
16.28.1	Using bitumen emulsion (minimum 50% bitumen content- RS grade conforming to IS : 8887)	Sqm	246.70
16.29	Surface dressing one coat on old surface with bitumen of specified grade at the rate of 1.22 kg/ sqm of surface area with 1.10 cum of stone chippings 11.2 mm nominal size per 100 sqm of road surface, including consolidation with road roller of 6 to 8 tonne capacity etc. complete :		
16.29.1	Using bitumen emulsion (minimum 50% bitumen content- RS grade conforming to IS : 8887)	Sqm	166.37
16.30	Providing and applying tack coat using hot straight run bitumen of grade VG - 10, including heating the bitumen, spraying the bitumen with mechanically operated spray unit fitted on bitumen boiler, cleaning and preparing the existing road surface as per specifications :		
16.30.1	On W.B.M. @ 0.75 Kg / sqm	Sqm	92.38

SUB HEAD - 16.0 ROAD WORK

SI No.	Description of Item	Unit	Amount in Rs.
16.30.2	On bituminous surface @ 0.50 Kg / sqm	Sqm	68.11
16.31	Providing and applying tack coat using bitumen emulsion conforming to IS:8887, using emulsion pressure distributor including preparing the surface & cleaning with mechanical broom.		
16.31.1	With rapid setting bitumen emulsion		
16.31.1.1	On W.B.M / W.M.M. @ 0.4kg/sqm	Sqm	61.71
16.31.1.2	On bituminous surface @ 0.25kg/sqm	Sqm	39.97
16.31.2	With medium setting bitumen emulsion		
16.31.2.1	On W.B.M / W.M.M. @ 0.4kg/sqm	Sqm	39.29
16.31.2.2	On bituminous surface @ 0.25kg/sqm	Sqm	26.18
16.32	2 cm premix carpet surfacing with 1.8 cum and 0.90 cum of stone chippings of 13.2 mm size and 11.2 mm size respectively per 100 sqm and 52 kg and 56 kg of hot bitumen per cum of stone chippings of 13.2 mm and 11.2 mm size respectively, including a tack coat with hot straight run bitumen, including consolidation with road roller of 6 to 9 tonne capacity etc. complete (tack coat to be paid for separately).		
16.32.1	With paving Asphalt grade VG - 10 heated and then mixed with solvent at the rate of 70 grams per kg of asphalt	Sqm	271.67
16.32.2	With paving Asphalt grade VG - 30 with no solvent	Sqm	261.48
16.32.3	With Refinery Modified Bitumen CRMB 55 conforming to IRC: SP: 53	Sqm	305.35
16.33	2.5 cm premix carpet surfacing with 2.25 cum and 1.12 cum of stone chippings of 13.2 mm and 11.2 mm size respectively per 100 sqm and 52 kg and 56 kg of hot bitumen per cum of stone chippings of 13.2 mm and 11.2 mm size respectively, including a tack coat with hot straight run bitumen, including consolidation with road roller of 6 to 9 tonne capacity etc. complete (tack coat to be paid for separately).		
16.33.1	With paving Asphalt grade VG - 10 heated and then mixed with solvent at the rate of 70 grams per kg of asphalt	Sqm	332.26
16.33.2	With paving Asphalt grade VG - 30 with no solvent	Sqm	261.48
16.33.3	With Refinery Modified Bitumen CRMB 55 conforming to IRC: SP: 53	Sqm	308.59
16.34	2 cm premix carpet surfacing with 2.4 cum of stone chippings 11.2 mm nominal size per 100 sqm and bitumen emulsion (medium setting min. 65% bitumen content) complying with IS : 8887, using 96 kg per cum of chippings, including content) complying with IS : 8887, using 96 kg per cum of chippings, including consolidation with road roller of 6 to 9 tonne capacity etc. complete.	Sqm	277.73
16.35	2.5 cm premix carpet surfacing with 3 cum of stone chippings 10 mm nominal size per 100 sqm and bitumen emulsion (medium setting min. 65% bitumen contents) complying with IS : 8887, using 96 kg per cum of chippings of road surface, including consolidation with road roller etc complete .	Sqm	343.99

SI No.	Description of Item	Unit	Amount in Rs.
16.36	Providing and laying Bitumen Penetration Macadam with hard stone aggregate of quality, size and grading as specified, with bitumen of suitable penetration grade, including required key aggregate as specified, spreading coarse aggregate with the help of self propelled/ tipper tail mounted aggregate spreader and applying bitumen by a pressure distributor and then spreading key aggregate with the help of aggregate spreader complete, including consolidation with road roller of minimum 8 to 10 tonne capacity to achieve specified values of compaction and surface accuracy :		
16.36.1	For 50mm compacted thickness using coarse aggregate of size 50-20 mm graded @ 0.60 cum per 10 sqm key aggregate of size 12.5 mm graded @ 0.15 cum per 10 sqm. With paving asphalt grade VG - 10 @ 50 kg/ 10 sqm.	Sqm	668.64
16.36.2	For 75 mm compacted thickness in two layers using stone aggregate of size 63-41 mm graded @ 0.90 cum per 10 sqm key aggregate of size 20.0 mm graded @ 0.18 cum per 10 sqm. With paving asphalt grade VG - 10 @ 68 kg/10 sqm.	Sqm	964.90
16.37	Providing and laying bitumen mastic wearing course (as per specifications) with industrial bitumen of grade 85/25 conforming to IS : 702, prepared by using mastic cooker and laid to required level and slope, including providing antiskid surface with bitumen precoated fine grained hard stone chipping of approved size at the rate of 0.005 cum per 10 sqm and at approximate spacing of 10 cm centre to centre in both directions, pressed into surface protruding 1 mm to 4 mm over mastic surface, including cleaning the surface, removal of debris etc. all complete. (Considering bitumen using 10.2% as per MORTH specification).		
16.37.1	25 mm thick	Sqm	832.77
16.37.2	40 mm thick	Sqm	1332.42
16.38	2.5 cm thick bitumastic sheet with hot bitumen of approved quality, using stone chippings (60% with 12.5 mm nominal size and 40% with 10 mm nominal size) @ 1.65 cum per 100 sqm and coarse sand @ 1.65 cum per 100 sqm of road surface and with bitumen @ 56 kg/cum of stone chippings and @ 128 kg/cum of sand over a tack coat with hot straight run bitumen, including consolidation with road roller of 8 to 10 tonne etc. complete. (tack coat to be paid separately) :		
16.38.1	With paving Asphalt grade VG - 10 heated and then mixed with solvent at the rate of 70 grams per kg of asphalt	Sqm	491.36
16.38.2	With paving Asphalt grade VG - 30	Sqm	465.28
16.38.3	With Refinery Modified Bitumen CRMB 55 conforming to IRC: SP : 53	Sqm	462.20
16.39	4 cm thick bitumastic sheet with hot bitumen of approved quality, using stone chippings (60% with 12.5 mm nominal size and 40% with 10 mm nominal size) @ 2.60 cum per 100 sqm and coarse sand @ 2.60 cum per 100 sqm of road surface and with bitumen @ 56 kg/cum of stone chippings and @ 128 kg/cum of sand over a tack coat with hot straight run bitumen, including consolidation with road roller of 8 to 10 tonne etc. complete. (tack coat to be paid separately) :		

SI No.	Description of Item	Unit	Amount in Rs.
16.39.1	With paving Asphalt grade VG - 10 heated and then mixed with solvent at the rate of 70 grams per kg of asphalt	Sqm	752.93
16.39.2	With paving asphalt grade VG - 30 with no solvent	Sqm	711.71
16.39.3	With Refinery Modified Bitumen CRMB 55 conforming to IRC: SP : 53	Sqm	706.87
16.40	Providing and laying seal coat of premixed fine aggregate (passing 2.36 mm and retained on 180 micron sieve) with bitumen using 128 kg of bitumen of grade VG - 10 bitumen per cum of fine aggregate and 0.60 cum of fine aggregate per 100 sqm of road surface, including rolling and finishing with road roller all complete.	Sqm	123.54
16.41	Providing and laying seal coat over prepared surface of road with bitumen heated in bitumen boiler fitted with the spray set spraying using 98 kg of bitumen of grade VG - 10 and blinding surface with 0.90 cum of stone aggregate of 6.7 mm size (Passing 11.2 mm sieve and retained on 2.36 mm sieve) per 100 sqm of road surface, including rolling and finishing with power road roller all complete	Sqm	170.40
16.42	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 40 mm nominal size) in pavements, laid to required slope and camber in panels as required including consolidation finishing and tamping complete.	Cum	9559.28
16.43	Providing and laying design mix cement concrete of M-30 grade, in roads/ taxi tracks/ runways, using cement content as per design mix, using coarse sand and graded stone aggregate of 40 mm nominal size in appropriate proportions as per approved & specified design criteria, providing dowel bars with sleeve/ tie bars wherever required, laying at site, spreading and compacting mechanically by using needle and surface vibrators, levelling to required slope/ camber, finishing with required texture, including steel form work with sturdy M.S. channel sections, curing, making provision for contraction/ expansion, construction & longitudinal joints (10 mm wide x 50 mm deep) by groove cutting machine, providing and filling joints with approved joint filler and sealants, complete all as per direction of Engineer-in-charge (Item of joint fillers, sealants, dowel bars with sleeve/ tie bars to be paid separately). Note:- Cement content considered in M-30 is @ 340 kg/cum. Excess/ less cement used as per design mix is payable/ recoverable separately.		
16.43.1	Cement concrete prepared with batch mixing machine	cum	11447.81
16.43.2	Cement concrete manufactured in automatic batching plant (RMC plant) i/c transportation to site in transit mixer	cum	11959.96
16.43A	Annexure 'A' to Item number 16.43	Sqm	469.62
16.43B	Annexure 'B' to Item number 16.43	Sqm	924.18
16.44	Extra for providing and mixing hardening compound of approved quality as per manufacturer's specification in cement concrete.	Litre	68.85

SI No.	Description of Item	Unit	Amount in Rs.
16.45	Providing and fixing in position pre-moulded joint filler in expansion joints.	per cm depth per cm width per metre length	5.74
16.46	Providing and filling in position rubberized bitumen hot sealing compound for sealing of expansion joints in roads / pavements all complete as per direction of the Engineer-in-Charge.		
16.46.1	Using grade 'A' sealing compound	per cm depth per cm width per metre length	4.90
16.47	Painting runway/taxi track/apron marking with adequate nos of coats to give uniform finish with road marking paint of superior make as approved by the Engineer-in-charge, i/c cleaning the surface of ail dirt, scales, oil, grease and other foreign material etc. and lining out complete.		
16.47.1	New work (Two or more coats)	Sqm	194.30
16.47.2	Old work (One or more coats)	Sqm	123.68
16.48	Painting road surface marking with adequate nos of coats to give uniform finish with ready mixed road marking paint conforming to IS : 164, on bituminous surface in white/yellow shade, including cleaning the surface of all dirt, scales, oil, grease and foreign material etc. complete.		
16.48.1	New work (Two or more coats)	Sqm	265.23
16.48.2	Old work (One or more coats)	Sqm	173.45
16.49	Making bell mouth opening/ entrance of size 100x50x50 cm for drainage pipe under footpath, including providing cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) for shape of bell mouth, including plastering providing and fixing precast R.C.C./ S.F.R.C. slab including plastering with cement mortar 1:3 (1 cement : 3 fine sand) of 6 mm thickness on exposed surface of the slab & bell mouth including centring, shuttering & neat cement punning inside the bell mouth etc. all complete.	each	3248.96

SI No.	Description of Item	Unit	Amount in Rs.
16.50	Providing and fixing Glow studs of size 100x20 mm made of heavy duty body shall be moulded ASA (Acrylic styrene Acryloretite) or HIP (High impact polystyrene) or ABS having electronically welded micro- prismatic lens with abrasion resistant coating as approved by Engineer in charge. The glow stud shall support a load of 13635 kg tested in accordance with ASTM D4280. The slope of retro- reflective surface shall be 35 (+/-5) degrees to base .The reflective panels on both sides with at least 12 cm of reflective area up each side. The luminance intensity should be as per the specification and shall be tested as described in ASTM I: 809 as recommended in BS: 873 part 4 : 1973. The studs shall be fixed to the Road surface using the adhesive conforming to IS, as per procedure recommended by the manufacturer complete and as per direction of Engineer-in-charge.	each	202.57
16.51	Preparation of sub-base road pavement with commercial dry lime (slaked), fly ash stabilised soil with a mix of 3% lime, 12% fly ash and 85% local suitable soil by weight, so as to achieve minimum field C.B.R. of 20, including mixing, rolling with road roller curing etc. all complete.		
16.51.1	Minimum thickness 15 cm	Cum	1193.73
16.52	Providing and fixing precast lime fly ash concrete blocks 1:2:3:6 (1 lime: 2 fly ash : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size), including finishing with 10mm thick cement mortar 1:3 (1 cement : 3 coarse sand) in foot paths, including preparation of sub grade with a hand rammer, laying 10 mm thick leveling course of fine sand (jamuna sand) and filling the joints with fine sand.	Cum	15458.27
16.52X	Sub Analysis X for sub analysis item Number 16.52Y	Cum	3551.87
16.52Y	Sub Analysis Y for Item Number 16.53	Cum	5009.23
16.53	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length (total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Y' shaped placed 2.4m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	metre	358.19
16.54	Providing and laying Dense Graded Bituminous Macadam using crushed stone aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site by tippers, laying with paver finisher equiped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers as per specifications to achieve the desired compaction and density, complete as per specifications and directions of Engineer-in-Charge.		

SI No.	Description of Item	Unit	Amount in Rs.
16.54.1	50 to 100 mm average compacted thickness with bitumen of grade VG-30 @ 5% (percentage by weight of total mix) and lime filler @ 2% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	Cum	14138.05
16.54.2	50 to 100 mm average compacted thickness with bitumen of grade VG-30 @ 5% (percentage by weight of total mix) and lime filler @ 2% (percentage by weight of Aggregate) prepared in Drum Type Hot Mix Plant of 60-90 TPH capacity.	Cum	13820.49
16.55	Providing and laying bituminous macadam using crushed stone aggregates of specified grading premixed with bituminous binder, transported to site by tippers, laid over a previously prepared surface with paver finisher equipped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers as per specifications to achieve the desired compaction and density, complete as per specifications and directions of Engineer-in-Charge.		
16.55.1	50 to 100 mm average compacted thickness with bitumen of grade VG-30 @ 3.50% (percentage by weight of total mix) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	Cum	10257.71
16.55.2	50 to 100 mm average compacted thickness with bitumen of grade VG-30 @ 3.50% (percentage by weight of total mix) prepared in Drum Type Hot Mix Plant of 60-90 TPH capacity.	Cum	9986.76
16.56	Providing and laying semi- dense Bituminous concrete using crushed stone aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site by tippers, laying with paver finisher equipped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction and density as per specification, complete and as per directions of Engineer-in-Charge.		
16.56.1	25 mm compacted thickness with bitumen of grade VG-30 @ 5% (percentage by weight of total mix) and lime filler @ 2% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	Sqm	354.23
16.56.2	25 mm compacted thickness with bitumen of grade VG-30 @ 5% (percentage by weight of total mix) and lime filler @ 2% (percentage by weight of Aggregate) prepared in Drum Type Hot Mix Plant of 60-90 TPH capacity.	Sqm	371.93
16.57	Providing and laying Bituminous concrete using crushed stone aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site by tippers, laying with paver finisher equipped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction and density as per specification, complete and as per directions of Engineer-in-Charge.		

SI No.	Description of Item	Unit	Amount in Rs.
16.57.1	40/50 mm compacted thickness with bitumen of grade VG-30 @ 5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100- 120 TPH capacity.	Cum	15635.67
16.57.2	40/50 mm compacted thickness with bitumen of grade VG-30 @ 5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) and waste plastic additive @ 8% (percentage by weight of bitumen) prepared in Batch Type Hot Mix Plant of 100- 120 TPH capacity.	Cum	16284.57
16.57.3	40/50 mm compacted thickness with bitumen of grade PMB-40 @ 5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	Cum	20353.00
16.57.4	40/50 mm compacted thickness with bitumen of grade CRMB-60 @ 5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	Cum	15000.97
16.57.5	40/50 mm compacted thickness with bitumen of grade VG-30 @ 5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in drum Type Hot Mix Plant of 60-90 TPH capacity.	Cum	15336.78
16.57.6	40/50 mm compacted thickness with bitumen of grade VG-30 @ 5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) and waste plastic additive @ 8% (percentage by weight of bitumen) prepared in drum Type Hot Mix Plant of 60-90 TPH capacity.	Cum	15985.68
16.57.7	40/50 mm compacted thickness with bitumen of grade PMB-40 @ 5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in drum Type Hot Mix Plant of 60- 90 TPH capacity.	Cum	20054.11
16.57.8	40/50 mm compacted thickness with bitumen of grade CRMB-60 @ 5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in Drum Type Hot Mix Plant of 60- 90 TPH capacity.	Cum	11066.20

SI No.	Description of Item	Unit	Amount in Rs.
16.59	Manufacturing, supplying and fixing retro reflective sign boards made up of 2 mm thick aluminium sheet, face to be fully covered with high intensity encapsulated type heat activated retro reflective sheeting conforming to type - IV of ASTM-D 4956-01 in blue and silver white or other colour combination including subject matter, message (bi-lingual), symbols and borders etc. as per IRC ; 67:2001, pasted on substrate by an adhesive backing which shall be activated by applying heat and pressure conforming to class -2 of ASTM-D-4956-01 and fixing the same with suitable sized aluminium alloy rivets @ 20 cm c/c to back support frame of M.S. angle iron of size 25x25x3 mm along with theft resistant measures, mounted and fixed with 2 Nos. M.S. angles of size 35x35x5 mm to a vertical post made up to M.S. Tee section ISMT 50x50x6 mm welded with base plate of size 100x100x5 mm at the bottom end and including making holes in pipes, angles flats, providing & fixing M.S. message plate of required size, steel work to be painted with two or more coats of synthetic enamel paint of required shade and of approved brand & manufacture over priming coat of zinc chromate yellow primer (vertical MS-Tee support to be painted in black and white colours).Backside of aluminium sheet to be painted with two or more coats of epoxy.		
16.59.1	Mandatory/ Regulatory sign boards of 900 mm diametre with support length of 3750 mm	each	11014.01
16.59.2	Cautionary /warning sign boards of equilateral triangular shape having each side of 900 mm withsupport length of 3650 mm	each	7154.47
16.60	Manufacturing, supplying and fixing retro reflective overhead signage boards made up of 2 mm thick aluminium sheet, face to be fully covered with high intensity and encapsulated lens type heat activated retro reflective sheeting conforming to type - III of ASTM-D-4956-01 as approved by Engineer-in-charge, letters, borders etc. as per IRC : 67-2001 in silver white with blue colour back ground and with high intensity grade, pasted on substrate by pressure sensitive adhesive backing which shall be activated by applying pressure conforming to class II of ASTM-D-4956-01 and fixing the same to the plate of		
16.60.1	Overhead informatory road signage	Sqm	7257.35
16.61	Providing Retro-reflective regulatory sign board of size 900 mm dia metre made out of 2 mm thick aluminium sheet, face to be fully covered with high intensity encapsulated lens type retro -reflective sheeting as approved by Engineer-in-charge . Letter, symbols, borders etc. will be as per IRC - 67 with required colour scheme on the boards and with the high intensity grade A. The aluminium sheet to be riveted to M.S. frame of angle iron of size 40x40x4 mm. The boards will be fixed to 1 No. 50x50 mm square post made of M.S. angle 50x50x4 mm, 4 m long welded to the frame with adequate anti-theftarrangement .Sheet work to be painted with two or more coats of synthetic enamel paint over an under coat (primer) and back side of aluminium sheet to be painted with two or more coats of epoxy paint including appropriate priming coat complete in all respects as per direction of Engineer-in-charge.	each	10544.77

SI No.	Description of Item	Unit	Amount in Rs.
16.62	Providing and applying 2.5 mm thick road marking strips (retro- reflective) of specified shade/ colour using hot thermoplastic material by fully/ semi automatic thermoplastic paint applicator machine fitted with profile shoe, glass beads dispenser, propane tank heater and profile shoe heater, driven by experienced operator on road surface including cost of material, labour, T&P, cleaning the road surface of all dirt, seals, oil, grease and foreign material etc. complete as per direction of Engineer-in-charge and accordance with applicable specifications.	Sqm	705.21
16.63	Providing, laying and making kerb channel 30 cm wide and 50 mm thick with cement concrete 1:3:6 (2 cement: 3 coarse sand:6 graded stone aggregate 20 mm nominal size) over 75mm bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including finishing the top smooth etc. complete and as per direction of Engineer-in-charge.	Sqm	565.55
16.64	Providing and laying 75 mm thick compacted bed of dry brick aggregate of 40 mm thick nominal size including spreading, well ramming, consolidating and grouting with jamuna sand, including finishing smooth etc. complete as per direction of Engineer-in-charge.	Sqm	186.90
16.65	Providing and fixing post delineators made of ABS round body fitted with 2 nos 100 mm dia high reflective reflectors and mounted on MS pipe of 65 mm dia duly powder coated anti-rust and anti theft steel to be installed as per direction of Engineer-in-charge.	each	1044.57
16.66	Excavating holes upto 0.10 cum, including getting out the excavated soil, then returning the soil as deported in layers not exceeding 20 cm in depth, including consolidating and deposited layer by ramming watering etc., disposing of surplus excavated soil as directed with in a lead of 50 mm and lift upto 1.5 m.		
16.66.1	All kind of soil	each	34.58
16.67	Providing and fixing at or near ground level factory made RCC pavement slab of M-30 grade of size 450x450x50 mm, including reinforcement with 6 mm dia M.S. bars 4 nos on each side, including setting in position in footpath to the required level and line over a bed of 20 mm average thick cement mortar 1:6 (1 cement : 5 coarse sand), having joint thickness not more than 5mm except on curve, including filling of joints with same cement mortar and making grooves etc. complete as per direction of Engineer-in- charge.	Sqm	1542.57
16.68	Providing and laying 60mm thick factory made cement in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid joints with line sand etc. all complete as per the direction of Engineer-in-charge.	Sqm	944.67

SI No.	Description of Item	Unit	Amount in Rs.
16.69	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	Cum	10034.93
16.70	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge.		
16.70.1	Made of G.I. wire of dia 4 mm	Sqm	1018.25
16.70.2	Made of G.I. wire of dia. 4 mm, PVC coated to achieve outer dia not less than 5 mm in required colour and shade	Sqm	1067.54
16.71	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 25x25 mm made of G.I.wire of dia 3 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge.	Sqm	1346.88
16.72	Supplying and stacking of hard stone (for stone pitching) 22.5 cm thick at site.	Cum	1209.24
16.73	Dry stone pitching 22.5 cm thick laid in courses and required profile with hammer dressed stones having no side less than 15 cm, with minimum depth of 20 cm including preparing the bedding surface etc. all complete. (Payment for Stone to be made separately).	Sqm	582.27
16.74	75 mm thick back filling for pitching including supplying of required materials and consolidation etc. complete with :		
16.74.1	Moorum	Sqm	78.62
16.74.2	Stone aggregate 20 mm nominal size	Sqm	118.37
16.74.3	Stone aggregate 40 mm nominal size	Sqm	100.23
16.75	Providing and laying C.C. pavement of mix M-25 with ready mixed concrete from batching plant. The ready mixed concrete shall be laid and finished with screed board vibrator , vacuum dewatering process and finally finished by floating, brooming with wire brush etc. complete as per specifications and directions of Engineer-in-charge. (The panel shuttering work shall be paid for separately). (Note:- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/ recoverable separately).	Cum	11521.78
16.76	Deduct for using of M-20 grade concrete instead of M-25 grade concrete in C.C. pavement.	Cum	460.36

SI No.	Description of Item	Unit	Amount in Rs.
16.77	Scarifying the existing bituminous road surface to a depth of 50 mm and disposal of scarified material within all lifts and lead upto 1km (by mechanical means).	Sqm	6.20
16.78	Construction of granular sub-base by providing close graded Material conforming to specifications, mixing in a mechanical mix plant at OMC, carriage of mixed material by tippers to work site, for all leads & lifts, spreading in uniform layers of specified thickness with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge.		
16.78.1	With material conforming to Grade-I (size range 75 mm to 0.075 mm) having CBR Value-30	Cum	2185.54
16.78.1A	With material conforming to Grade-I (size range 75 mm to 0.075 mm) having CBR Value-30	Cum	1928.33
16.78.2	With material conforming to Grade-II (size range 53 mm to 0.075 mm) having CBR Value-26	Cum	2229.01
16.78.2A	With material conforming to Grade-II (size range 53 mm to 0.075 mm) having CBR Value-26	Cum	1816.98
16.78.3	With material conforming to Grade-III (size range 26.5 mm to 0.075 mm) having CBR Value-20	Cum	2279.31
16.78.3A	With material conforming to Grade-III (size range 26.5 mm to 0.075 mm) having CBR Value-20	Cum	1816.98
16.79	Providing, laying, spreading and compacting graded stone aggregate (size range 53 mm to 0.075 mm) to wet mix macadam (WMM) specification including premixing the material with water at OMC in for all leads & lifts, laying in uniform layers with mechanical paverfinisher in sub- base / base course on well prepared surface and compacting with vibratory roller of 8 to 10 tonne capacity to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge.	Cum	2153.64
16.80	Construction of dry lean cement concrete sub base over a prepared sub-grade with coarse and fine aggregate conforming to IS:383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per specifications, cement content not to be less than 150 Kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, for all leads & lifts, laid with a mechanical paver, compacting with 8-10 tonne vibratory roller, finishing and curing etc. complete as per direction of Engineer-in- charge.	Cum	4479.68

SI No.	Description of Item	Unit	Amount in Rs.
16.81	<p>Providing and erecting 2.00 metre high temporary barricading at site; each panel of size 2.50mx2.00m made of 40x40x6mm angle iron or 50x50x3mm hollow MS tube posts/horizontal members/bracings covered with 1.63mm thick MS sheet. The sheet shall be fixed with 30x5mm MS flat by suitable welding/riveting. The panels shall be made so that gap of 50cm above the ground is available making overall height as 2.5m. MS channel ISLC 75 @ 5.70 kg/m, 50cm long shall be provided at the bottom having oval shaped holes of size 50x25mm at both ends with 50cm long MS angle 40x40x6mm bracing. Suitable arrangement shall be made to fix the barricading to avoid from overturning by providing 250mm long expansion fasteners at both ends. The work shall be executed as per drawing/direction of Engineer- in-Charge which includes writing and painting, arrangement for traffic diversion such as traffic signals during construction at site for day and night, glow lamps, reflective signs, marking, flags, caution tapes as directed by the Engineer-in-Charge. The barricading provided shall be retained in position at site continuously i/c shifting of barricading from one location to another location as many times as required during the execution of the entire work till its completion. Rate include its maintenance for damages, painting, all incidentals, labour materials, equipments and works required to execute the job. The barricading shall not be removed without prior approval of Engineer-in-Charge.</p> <p>(Note :- One time payment shall be made for providing barricading from start of work till completion of work i/c shifting. The barricading provided shall remain to be the property of the contractor on completion of the work).</p>	metre	4032.31
16.81X	Sub analysis item for material component of Item No. 16.81	metre	47.75
16.81Y	Sub analysis item for fabrication charges of Item No. 16.81	metre	1759.51
16.82	Taking out existing kerb stones of all types from footpath/ central verge, including removal of mortar etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in- Charge.	metre	31.82
16.83	Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in- Charge.	Sqm	106.86
16.84	Laying old cement concrete interlocking paver blocks of any design/ shape laid in required line, level, curvature, colour and pattern over and including 50 mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge. (Old CC paver blocks shall be supplied by the department free of cost).	Sqm	318.71

SI No.	Description of Item	Unit	Amount in Rs.
16.85	Laying at or near ground level old kerb stones of all types in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement : 3 coarse sand), including making joints with or without grooves (thickness of joints, except at sharp curve, shall not be more than 5 mm), including making drainage opening wherever required etc. complete as per direction of Engineer-in-charge. (Length of finished kerb edging shall be measured for payment). (Old kerb stones shall be supplied by the department free of cost)	metre	103.25
16.86	Providing and laying gang saw cut 18 mm thick, mirror polished pre moulded and pre polished machine cut granite stone of required size and shape of approved shade, colour and texture in footpath, flooring cut granite stone of required size and shape of approved shade, colour and texture in footpath, flooring in road side plazas and similar locations, laid over 20mm thick base of cement mortar 1:4 (1cement : 5 coarse sand) including grouting the joints with white cement mixed with matching pigment, epoxy touch ups etc. complete as per direction of Engineer-in-Charge.		
16.86.1	With granite stone of area less than 0.50 sqm.	Sqm	4970.82
16.87	Providing and laying gang saw cut 30 mm thick, mirror polished pre moulded and pre polished machine cut granite stone of required size and shape of approved shade, colour and texture in footpath, flooring in road side plazas and similar locations, laid over 20mm thick base of cement mortar 1:4 (1 cement : 5 coarse sand) including grouting the joints with white cement mixed with matching pigment, epoxy touch ups etc. complete as per direction of Engineer-in-Charge.		
16.87.1	With granite stone of colour black, cherry/ruby red of area less than 0.50 sqm.	Sqm	5164.87
16.87.2	With granite stone of all colour except black, cherry/ruby red of area less than 0.50 sqm.	Sqm	5159.13
16.88	Providing and laying matt finished vitrified tile of size 100x100x16mm having water absorption less than 0.5% and conforming to IS: 15622 of approved make in all colours and shades in out door floors such as footpath, court yard multi models etc., laid on 20mm thick base of cement mortar 1:4 (1cement : 4 coarse sand) in all shapes & patterns including grouting the joints with white cement mixed with matching pigments etc. complete as direction of Engineer-in-Charge.	Sqm	2385.80
16.89	Providing and laying matt finished vitrified tile of size 300x300x9.8mm having with water absorption less than 0.5% and conforming to IS: 15622 of approved make in all colours and shades in for outdoor floors such as footpath, court yard, multi modals location etc., laid on 20mm thick base of cement mortar 1:4 (2 cement : 4 coarse sand) in all shapes & patterns including grouting the joints with white cement mixed with matching pigments etc. complete as per direction of Engineer-in-Charge.	Sqm	2385.80

SI No.	Description of Item	Unit	Amount in Rs.
16.90	Providing and laying tactile tile (for vision impaired persons as per standards) of size 300x300x9.8mm having with water absorption less than 0.5% and conforming to IS:15622 of approved make in all colours and shades in for outdoor floors such as footpath, court yard, multi modals location etc., laid on 20mm thick base of cement mortar 1:4 (1 cement : 4 coarse sand) in all shapes & patterns including grouting the joints with white cement mixed with matching pigments etc. complete as per direction of Engineer-in-Charge.	Sqm	928.88
16.91	Providing and laying factory made chamfered edge Cement Concrete paver blocks in footpath, parks, lawns, drive ways or light traffic parking etc, of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand. complete all as per direction of Engineer-in-Charge.		
16.91.1	60mm thick cement concrete paver block of M-35 grade with approved colour, design & pattern.	Sqm	1028.34
16.91.2	80 mm thick C.C. paver block of M-30 grade with approved color design and pattern.	Sqm	1077.68
16.92	Providing and fixing 10x10x7.50 cm Granite stone block hand cut and chisel dressed on top, for paving in floors, drains etc. laid over 20mm thick base mortar 1:4 (1 cement : 4 coarse sand) with joints 10mm wide filled with same mortar including ruled pointing etc. complete as per direction of engineer-in-charge.	Sqm	2380.59
16.93	Providing and placing in position 100 mm thick factory made machine batched & machine mixed Precast RCC Rectangular Covers on drains of footpath of various sizes, of M-25 grade cement concrete for RCC work, including cost of centering, shuttering, reinforcement of 8 mm dia TMT bars of Fe 500 grade @ maximum 100mm c/c on both ways , neat cement punning on finished surface, properly encased on all edges with 1.6 mm thick , 100 mm wide MS sheet duly painted over priming coat , reinforcement to be welded at edges with MS sheet and providing 2 Nos. 12 mm dia bar for hooks etc i/c cost of cartage, all leads & lift, handling at site etc. all complete as per direction of Engineer-in-Charge leads & lift, handling at site etc. all complete as per direction of Engineer-in-Charge.	Sqm	5622.07

SI No.	Description of Item	Unit	Amount in Rs.
16.94	Providing & making Gabion structure with Mechanically Woven Double Twisted Hexagonal Shaped Wire mesh Gabion Boxes as per IS 16014:2012,MORTH Clause 2500, of required size, Mesh Type 10x13 (D=100 mm with tolerance of $\pm 2\%$) Zinc coated, Mesh wire diametre 3.0 mm, mechanically edged/selvedged with partitions at every 1m interval and shall have minimum 10 numbers of openings per metre of mesh perpendicular to twist, tying with lacing wire of diametre 2.2mm, supplied @ 3% by weight of Gabion boxes, filled with boulders with least dimension of 200 mm, as per drawing, all complete as per direction of Engineer-in-charge.	Cum	4353.27
16.95	Providing & making Gabion structure with Mechanically Woven Double Twisted Hexagonal Shaped Wire mesh Gabion Boxes as per IS 16014:2012,MORTH Clause 2500, of required size, Mesh Type 10x12(D=101 mm with tolerance of $\pm 2\%$) Zinc+PVC coated, Mesh wire diametre 2.7/3.7mm, mechanically edged/selvedged with partitions at every 1m interval and shall have minimum 10 numbers of openings per metre of mesh perpendicular to twist, tying with lacing wire of diametre 2.2/3.2mm(ID/OD), supplied,@3% by weight of Gabion boxes, filled with boulders with least dimension of 200 mm, as per drawing, all complete as per directions of Engineer-in-charge.	Cum	4353.27
16.96	Providing & making Gabion structure with Mechanically Woven Double Twisted Hexagonal Shaped Wire mesh Gabion Boxes as per IS 16014:2012,MORTH Clause 2500, of required size, Mesh Type 10x12(D=101 mm with tolerance of $\pm 2\%$), Zinc+10% Al alloy+PVC coated, Mesh wire diametre 2.7/3.7mm (ID/OD),mechanically edged/selvedged with partitions at every 1m interval and shall have minimum 10 numbers of openings per metre of mesh perpendicular to twist, tying with lacing wire of diametre 2.2/3.2mm(ID/OD), supplied @3% by weight of Gabion boxes, filled with boulders with least dimension of 201 mm, as per drawing, all complete as per directions of Engineer-in-charge.	Cum	4521.496
16.97	Metal Beam Crash Barrier		
16.97.1	Type - A, "W" : Metal Beam Crash Barrier, Providing and erecting a "W" metal beam crash barrier comprising of 3 mm thick corrugated sheet metal beam rail, 70 cm above road/ground level, fixed on ISMC series channel vertical post, 150 x 75 x 5 mm spaced 2 m centre to centre, 1.8 m high, 1.1 m below ground/road level, all steel parts and fitments to be galvanised by hot dip process, all fittings to conform to IS:1367 and IS:1364, metal beam rail to be fixed on the vertical post with a spacer of channel section 150 x 75 x 5 mm, 330 mm long complete as per clause 811	Meter	6761.50

SI No.	Description of Item	Unit	Amount in Rs.
16.97.2	<p>Type - B, "THRIE" : Metal Beam Crash Barrier</p> <p>Providing and erecting a "Thrie" metal beam crash barrier comprising of 3 mm thick corrugated sheet metal beam rail, 85 cm above road/ground level, fixed on ISMC series channel vertical post, 150 x 75 x 5 mm spaced 2 m centre to centre, 2 m high with 1.15 m below ground level, all steel parts and fitments to be galvanised by hot dip process, all fittings to conform to IS:1367 and IS:1364, metal beam rail to be fixed on the vertical post with a space of channel section 150 x 75 x 5 mm, 546 mm long complete as per clause 811)</p>	Meter	8992.41

Note - In the case of median crash barrier, 'W' metal beam or 'THRIE' beam section should be provided on both sides of the vertical posts fixed in the median. Extra provision for metal beam railing and spacer is required to be made when fixed in the median depending on approved design.

SUB HEAD - 17.0
SANITARY INSTALLATIONS

SI No.	Description of Item	Unit	Amount in Rs.
17.1	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required :		
17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440mm with integral type foot rests.	each	7512.60
17.1.2	Stainless Steel AISI-304(18/8) Orissa pattern W.C. pan of size 585x480 mm with flush pipe and integrated type foot rests.	each	11985.36
17.2.1	W.C. pan with ISI marked white solid plastic seat and lid	each	6882.37
17.2.2	W.C. pan with ISI marked black solid plastic seat and lid	each	6762.87
17.3.1	W.C. pan with ISI marked white solid plastic seat and lid.	each	9324.08
17.3.2	W.C. pan with ISI marked black solid plastic seat and lid.	each	9204.58
17.4.1	One urinal basin with 5 litre white P.V.C. automatic flushing cistern.	each	6409.79
17.4.2	Range of two urinal basins with 5 litre white P.V.C. automatic flushing cistern.	each	10313.35
17.4.3	Range of three urinal basins with 10 litre white P.V.C. automatic flushing cistern.	each	13870.78
17.4.4	Range of four urinal basins with 10 litre white P.V.C. automatic flushing cistern	each	19365.31
17.5.1	Single half stall urinal with 5 litre P.V.C. automatic flushing cistern	each	11972.91
17.5.2	Range of two half stall urinals with 5 litre P.V.C. automatic flushing cistern.	each	17906.55
17.5.3	Range of three half stall urinals with 10 litre P.V.C. automatic flushing cistern	each	22164.67
17.5.4	Range of four half stall urinals with 10 litre P.V.C. automatic flushing cistern	each	26282.12
17.6.1	Single squatting plate with 5 litre P.V.C. automatic flushing cistern.	each	9761.09
17.6.2	Range of two squatting plates with 5 litre P.V.C. automatic flushing cistern.	each	15259.10
17.6.3	Range of three squatting plates with 10 litre P.V.C. automatic flushing cistern	each	19362.23
17.6.4	Range of four squatting plates with 10 litre P.V.C. automatic flushing cistern.	each	23646.15
17.7	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps,32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require :		
17.7.1	White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps.	each	3999.52
17.7.2	White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap.	each	3305.27
17.7.3	White Vitreous China Wash basin size 550x400 mm with a pair of 15 mm C.P. brass pillar taps.	each	3070.53

SI No.	Description of Item	Unit	Amount in Rs.
17.7.4	White Vitreous China Flat back wash basin size 550x400 mm with single 15 mm C.P. brass pillar tap.	each	2376.29
17.7.5	White Vitreous China Angle back wash basin size 600x480 mm with single 15 mm C.P. brass pillar tap.	each	2925.42
17.7.6	White Vitreous China Angle back wash basin size 400x400 mm with single 15 mm C.P. brass pillar tap.	each	2653.70
17.7.7	White Vitreous China Flat back wash basin size 450x 300 mm with single 15mm C.P. brass pillar tap	each	2607.89
17.7.8	White Vitreous China Surgeon type wash basin of size 660x460 mm with a pair of 15 mm C.P. brass pillar taps with elbow including operated levers	each	5222.98
17.7.9	White Vitreous China Surgeon type wash basin of size 660x460 mm with single 15 mm C.P. brass pillar taps with elbow operated levers ISI Marked	each	4456.18
17.7.10	Stainless Steel AISI-304(18/8) Round basin 405x355 mm with single 15 mm C.P. brass pillar tap	each	3925.54
17.7.11	Stainless Steel AISI-304(18/8) Wash basin 530x345 mm with single 15 mm C.P. brass pillar tap.	each	4707.99
17.7A	Providing and fixing wash basin with C.I. brackets, 15 mm dia CP Brass single hole basin mixer of approved quality and make, including painting of fittings and brackets, cutting and making good the walls wherever required:- (a) White Vitreous China Wash basin size 550x400 mm with a 15 mm CP Brass single hole basin mixer	each	4134.24
17.7B	Providing and fixing wash basin with C.I. brackets, 15 mm PTMT pillar cock, 32 mm PTMT waste coupling of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required. White Vitreous China Flat back wash basin size 550x400 mm with single 15 mm PTMT pillar cock.	each	1777.78
17.8	Providing and fixing white vitreous china pedestal for wash basin completely recessed at the back for the reception of pipes and fittings.	each	1839.48
17.9	White glazed fire clay kitchen sink of size 600x450x250 mm.	each	5748.43
17.10	Providing and fixing Stainless Steel AISI 304 (18/8) kitchen sink as per IS 13983 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required:		
17.10.1	Kitchen sink with drain board 17.10.1.1 510x1040 mm bowl depth 250mm.		
17.10.1.1	510x1040 mm bowl depth 250mm.	each	7277.79
17.10.1.2	510x1040 mm bowl depth 225mm.	each	7011.75
17.10.1.3	510x1040 mm bowl depth 200mm.	each	6698.77
17.10.1.4	510x1040 mm bowl depth 178mm.	each	6526.63
17.10.2	Kitchen sink without drain board		
17.10.2.1	610x510 mm bowl depth 200 mm.	each	5180.83

SI No.	Description of Item	Unit	Amount in Rs.
17.10.2.2	610x460 mm bowl depth 200 mm.	each	4398.38
17.10.2.3	470x420 mm bowl depth 178 mm.	each	3927.35
17.11	Providing and fixing white vitreous china laboratory sink with C.I. brackets, C.P. brass chain with rubber plug 40mm C.P brass waste and 40mm C.P. brass trap with necessary C.P. brass unions complete including painting of fittings and brackets, cutting and making good the wall wherever required :		
17.11.1	Size 450x300x150mm	each	6133.96
17.11.2	Size 600x450x200mm	each	7758.61
17.12	Providing and fixing draining board with C.I. brackets including painting of brackets, cutting and making good the walls wherever required :		
17.12.1	White glazed fire clay draining board of size 600x450x 25 mm	each	1721.48
17.13	Providing and fixing white vitreous china water closet squatting pan (Indian type) :		
17.13.1	Long pattern W.C. pan of size 580 mm	each	2451.21
17.13.2	Orissa pattern W.C. pan of size 580x440 mm	each	3733.00
17.14	Extra for using coloured W.C. pan instead of white W.C. pan		
17.14.1	Orissa pattern W.C. pan 580x440 mm	each	617.42
17.15	Providing and fixing white vitreous china pedestal type (European type/ wash down type) water closet pan.	each	2873.73
17.16	Extra for using coloured pedestal type W.C pan (European type) with low level cistern of same colour instead of white vitreous china W.C pan and cistern.	each	172.57
17.16A	Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to European type W.C. of quality and make as approved by Engineer - in - charge.	each	518.98
17.17	Providing and fixing a pair of white vitreous china foot rests of standard pattern for squatting pan water closet:		
17.17.1	250x130x30 mm	each	311.19
17.17.2	250x125x25 mm	each	350.32
17.18	Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete.		
17.18.1	10 litre capacity-White	each	1380.38
17.18.2	10 litre capacity-coloured	each	1349.09
17.19	Providing and fixing controlled flush, low level cistern made of vitreous china with all fittings complete.		
17.19.1	10 litre (full flush) capacity-white	each	2727.88
17.19.2	10 litre (full flush) capacity-coloured	each	2910.97
17.20	Providing and fixing solid plastic seat with lid for pedestal type W.C. pan complete :		

SI No.	Description of Item	Unit	Amount in Rs.
17.20.1	White solid plastic seat with lid	each	849.06
17.20.2	Black solid plastic seat with lid	each	729.56
17.20.3	Coloured (other than black & white) solid plastic seat with lid	each	756.59
17.21	Extra for providing coloured other than black solid P.V.C. plastic seat and cover in European type W.C. pan, instead of white plastic seat and cover.	each	92.47
17.22	Providing and fixing G.I. inlet connection for flush pipe connecting with W.C. pan.	each	160.51
17.22A	Providing and fixing CP Brass 32mm size Bottle Trap of approved quality & make and as per the direction of Engineer-in-charge.	each	1017.19
17.22B	Providing and fixing CP Brass Single lever telephonic wall mixer of quality & make as approved by Engineer in charge. (a) 15 mm nominal dia	each	7960.30
17.23	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350mm and 340x410x265mm sizes respectively.	each	1739.23
17.24	Providing and fixing white vitreous china squatting plate urinal with integral rim longitudinal flush pipe.	each	4684.02
17.25	Providing and fixing white vitreous china wash basin including making all connections but excluding the cost of fittings:		
17.25.1	Flat back wash basin of size 630x450mm.	each	1974.77
17.25.2	Flat back wash basin of size 550x400mm.	each	1045.78
17.25.3	Angle back wash basin of size 600x480 mm	each	1594.92
17.25.4	Angle back wash basin of size 400x400mm.	each	1323.20
17.25.5	Flat back wash basin of size 450x300 mm	each	1277.39
17.25.6	Surgeon type wash basin of size 660x460mm.	each	3053.12
17.26	Providing and fixing kitchen sink including making all connections excluding cost of fittings.		
17.26.1	White glazed fire clay sink of size 600x450x250mm.	each	3914.89
17.27	Providing and fixing white vitreous china laboratory sink including making all connections excluding cost of fittings:		
17.27.1	Size 450x300x150 mm.	each	3214.95
17.27.2	Size 600x450x200 mm.	each	4839.60
17.28	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.		
17.28.1	Semi rigid pipe		
17.28.1.1	32 mm dia	each	160.72
17.28.1.2	40 mm dia	each	176.36
17.28.2	Flexible pipe		
17.28.2.1	32 mm dia	each	168.97

SI No.	Description of Item	Unit	Amount in Rs.
17.28.2.2	40 mm dia	each	194.00
17.29	Providing and fixing 100 mm sand cast Iron grating for gully trap.	each	76.03
17.30	Providing and fixing in position 25mm diameter mosquito proof coupling of approved municipal design.	each	65.45
17.31	Providing and fixing 600x450 mm bevelled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	each	1989.99
17.32	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing :		
17.32.1	Circular shape 450mm dia.	each	1646.12
17.32.2	Rectangular shape 453x357mm	each	1383.42
17.32.3	Oval shape 450x350mm (outer dimensions)	each	1460.18
17.32.4	Rectangular shape 1500x450 mm	each	2427.41
17.33	Providing and fixing 600x120x5mm glass shelf with edges round of supported on anodised aluminium angle frame with C.P. brass brackets and guard rail complete fixed with 40 mm long screws, rawl plugs etc., complete.	each	1049.18
17.34	Providing and fixing toilet paper holder :		
17.34.1	C.P. brass	each	1282.47
17.34.2	Vitreous china	each	867.11
17.35.1.1	Sand cast iron S&S pipe as per IS: 1729.	metre	1353.24
17.35.1.2	Centrifugally cast (spun) iron socket & spigot (S&S) pipe as per IS: 3989	metre	1463.30
17.35.2	75 mm diameter :		
17.35.2.1	Sand cast iron S&S pipe as per IS: 1729.	metre	1198.93
17.35.2.2	Centrifugally cast (spun) iron socketed pipe as per IS: 3989.	metre	1134.59
17.35.2.3	Hubless centrifugally cast (spun) iron pipes epoxy coated inside & outside IS:15905	Meter	1011.83
17.36	Providing and filling the joints with spun yarn, cement slurry and cement mortar 1:2 (1 cement : 2 fine sand) in S.C.I./ C.I. Pipes :		
17.36.1	75 mm dia pipe	each	181.38
17.36.2	100 mm dia pipe	each	182.53
17.37	Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10 cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including cost of cutting holes and making good the walls etc. :		
17.37.1	For 100 mm dia. Pipe	each	360.95
17.37.2	For 75 mm dia. Pipe	each	359.52
17.38	Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.		

SI No.	Description of Item	Unit	Amount in Rs.
17.38.1	100 mm dia		
17.38.1.1	Sand cast iron S&S as per IS - 1729	each	742.87
17.38.1.2	Sand cast iron S&S as per IS - 3989	each	676.01
17.38.1.3	Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905	each	666.76
17.38.2	75 mm dia		
17.38.2.1	Sand cast iron S&S as per IS - 1729	each	579.97
17.38.2.2	Sand cast iron S&S as per IS- 3989	each	511.68
17.38.2.3	Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905	each	530.18
17.39	Providing and fixing plain bend of required degree.		
17.39.1	100 mm dia		
17.39.1.1	Sand cast iron S&S as per IS - 1732	each	616.26
17.39.1.2	Sand cast iron S&S as per IS : 3989	each	488.22
17.39.1.3	Hubless centrifugally cast (spun) iron pipes epoxy coated inside & outside IS:15905	each	412.82
17.39.2	75 mm dia		
17.39.2.1	Sand cast iron S&S as per IS -1729	each	486.08
17.39.2.2	Sand cast iron S&S as per IS - 3989	each	332.43
17.39.2.3	Hubless centrifugally cast (spun) iron pipes epoxy coated inside & outside IS:15905	each	292.60
17.40	Providing and fixing heel rest sanitary bend		
17.40.1	100 mm dia		
17.40.1.1	Sand cast iron S&S as per IS - 1729	each	730.07
17.40.1.2	Sand cast iron S&S as per IS - 3989	each	662.35
17.40.2	75 mm dia		
17.40.2.1	Sand cast iron S&S as per IS - 1729	each	575.70
17.40.2.2	Sand cast iron S&S as per IS - 3989	each	449.09
17.41	Providing and fixing double equal junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete :		
17.41.1	100x100x100x100mm		
17.41.1.1	Sand cast iron S&S as per IS - 1729	each	1837.79
17.41.1.2	Sand cast iron S&S as per IS - 3989	each	1009.82
17.41.2	75x75x75x75 mm		
17.41.2.1	Sand cast iron S&S as per IS - 1729	each	1477.65
17.41.2.2	Sand cast iron S&S as per IS - 3989	each	801.90
17.42	Providing and fixing double equal plain junction of required degree.		
17.42.1	100x100x100x100 mm		
17.42.1.1	Sand cast iron S&S as per IS - 1729	each	1190.29
17.42.1.2	Sand cast iron S&S as per IS - 3989	each	967.65
17.42.1.3	Hubless centrifugally cast (spun) iron pipes epoxy coated inside & outside IS:15905	each	850.99
17.42.2	75x75x75x75 mm		
17.42.2.1	Sand cast iron S&S as per IS - 1729	each	858.81
17.42.2.2	Sand cast iron S&S as per IS - 3989	each	725.08
17.42.2.3	Hubless centrifugally cast (spun) iron pipes epoxy coated inside & outside IS:15905	each	472.56

SI No.	Description of Item	Unit	Amount in Rs.
17.43	Providing and fixing single equal plain junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.		
17.43.1	100x100x100 mm		
17.43.1.1	Sand cast iron S&S as per IS - 1729	each	1001.79
17.43.1.2	Sand cast iron S&S as per IS - 3989	each	821.12
17.43.2	75x75x75 mm		
17.43.2.1	Sand cast iron S&S as per IS - 1729	each	1186.01
17.43.2.2	Sand cast iron S&S as per IS - 3989		642.57
17.44	Providing and fixing single equal plain junction of required degree		
17.44.1	100x100x100 mm		
17.44.1.1	Sand cast iron S&S as per IS - 1729	each	1198.12
17.44.1.2	Sand cast iron S&S as per IS - 3989	each	778.44
17.44.1.3	Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:1590	each	678.85
17.44.2	75x75x75 mm		
17.44.2.1	Sand cast iron S&S as per IS - 1729	each	669.60
17.44.2.2	Sand cast iron S&S as per IS - 3989	each	550.09
17.44.2.3	Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:1590	each	378.67
17.45	Providing and fixing double unequal junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete :		
17.45.1	100x100x75x75 mm		
17.45.1.1	Sand cast iron S&S as per IS - 1729	each	1496.87
17.45.1.2	Sand cast iron S&S as per IS - 3989	each	1888.09
17.46	Providing and fixing double unequal plain junction of required degree:		
17.46.1	100x100x75x75 mm		
17.46.1.1	Sand cast iron S&S as per IS - 1729	each	1250.75
17.46.1.2	Sand cast iron S&S as per IS - 3989	each	1213.77
17.46.1.3	Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:1590	each	678.85
17.47	Providing and fixing single unequal junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete :		
17.47.1	100x100x75 mm		
17.47.1.1	Sand cast iron S&S as per IS - 1732	each	1208.07
17.47.1.2	Sand cast iron S&S as per IS - 3989	each	1038.78
17.48	Providing and fixing single unequal plain junction of required degree :		
17.48.1	100x100x75 mm		
17.48.1.1	Sand cast iron S&S as per IS - 1729	each	1016.02
17.48.1.2	Sand cast iron S&S as per IS - 3989	each	923.55
17.48.1.3	Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:1590	each	639.73
17.49	Providing and fixing double equal plain invert branch of required degree:		
17.49.1	100x100x100x100mm		

SI No.	Description of Item	Unit	Amount in Rs.
17.49.1.1	Sand cast iron S&S as per IS - 1729	each	984.72
17.49.1.2	Sand cast iron S&S as per IS 3989	each	836.77
17.49.1.3	Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:1590	each	1030.96
17.49.2	75x75x75x75 mm		
17.49.2.1	Sand cast iron S&S as per IS - 1729	each	762.07
17.49.2.2	Sand cast iron S&S as per IS - 3989	each	695.20
17.50	Providing and fixing single equal plain invert branch of required degree:		
17.50.1	100x100x100 mm		
17.50.1.1	Sand cast iron S&S as per iron 1729	each	789.82
17.50.1.2	Sand cast iron S&S as per IS - 3989	each	677.43
17.50.1.3	Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:1590	each	663.20
17.50.2	75x75x75 mm		
17.50.2.1	Sand cast iron S&S as per IS - 1729	each	666.75
17.50.2.2	Sand cast iron S&S as per IS - 3989	each	521.64
17.50.2.3	Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:1590	each	449.09
17.51	Providing and fixing double unequal invert branch of required degree		
17.51.1	100x100x75x75 mm		
17.51.1.1	Sand cast iron S&S as per IS - 1729	each	1068.66
17.51.1.2	Sand cast iron S&S as per IS - 3989	each	1112.76
17.52	Providing and fixing single unequal plain invert branch of required degree :		
17.52.1	100x100x75 mm		
17.52.1.1	Sand cast iron S&S as per IS - 1729	each	899.36
17.52.1.2	Sand cast iron S&S as per IS - 3989	each	850.99
17.52.1.3	Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:1590	each	725.80
17.53	Providing and fixing sand cast iron S&S off sets as per IS: 1729		
17.53.1	76 mm off sets		
17.53.1.1	With 75 mm dia. pipe	each	362.31
17.53.1.2	With 100 mm dia pipe	each	565.74
17.53.2	114 mm off sets		
17.53.2.1	With 75 mm dia pipe	each	670.32
17.53.2.2	With 100 mm dia. Pipe	each	619.10
17.53.3	152 mm off sets		
17.53.3.1	With 75 mm dia. Pipe	each	593.72
17.53.3.2	With 100 mm dia. pipe	each	738.82
17.53A	Providing and fixing Hubless centrifugally cast iron offsets epoxy coated inside & outside as per IS:15905		
17.53A.1	65 mm offsets		
17.53A.1.1	With 100 mm dia pipe	each	633.55
17.53A.1.2	With 75 mm dia pipe	each	503.86
17.54	Providing and fixing sand cast iron S&S off sets as per IS: 3989.		

SI No.	Description of Item	Unit	Amount in Rs.
17.54.1	75 mm off sets		
17.54.1.1	With 75 mm dia. pipe	each	500.30
17.54.2	150 mm off sets		
17.54.2.1	With 75 mm dia. pipe	each	660.57
17.54.2.2	With 100 mm dia pipe	each	859.74
17.54A	Providing and fixing Hubless centrifugally cast iron offsets epoxy coated inside & outside as per IS:15905		
17.54A.1	130 mm offsets		
17.54A.1.1	With 100 mm dia	each	929.24
17.54A.1.2	With 75 mm dia	each	527.33
17.55	Providing and fixing door piece, insertion rubber washer 3mm thick, bolts & nuts complete :		
17.55.1	100mm		
17.55.1.1	Sand cast iron S&S as per IS - 1729	each	917.86
17.55.1.2	Sand cast iron S&S as per IS - 3989	each	912.17
17.55.2	75 mm		
17.55.2.1	Sand cast iron S&S as per IS - 1729	each	560.05
17.55.2.2	Sand cast iron S&S as per IS - 3989	each	673.86
17.56	Providing and fixing terminal guard:		
17.56.1	100 mm		
17.56.1.1	Sand cast iron S&S as per IS - 1729	each	481.11
17.56.1.2	Sand cast iron S&S as per IS - 3989	each	650.40
17.56.1.3	Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905	each	590.65
17.56.2	75 mm		
17.56.2.1	Sand cast iron S&S as per IS - 1729	each	592.77
17.56.2.2	Sand cast iron S&S as per IS - 3989	each	460.47
17.57	Providing and fixing collar:		
17.57.1	100 mm		
17.57.1.1	Sand cast iron S&S as per IS - 1729	each	510.98
17.57.1.2	Sand cast iron S&S as per IS - 3989	each	650.40
17.57.2	75 mm		
17.57.2.1	Sand cast iron S&S as per IS - 1729	each	348.08
17.57.2.2	Sand cast iron S&S as per IS - 3989	each	400.72
17.57A	Providing and fixing shielded coupling for Hubless centrifugally cast iron pipe		
17.57A.1	100 mm dia		
17.57A.1.1	SS 304 grade coupling with EPDM rubber gasket	each	483.24
17.57A.2	75 mm dia		
17.57A.2.1	SS 304 grade coupling with EPDM rubber gasket	each	682.40

SI No.	Description of Item	Unit	Amount in Rs.
17.58	Providing lead caulked joints to sand cast iron/centrifugally cast (spun) iron pipes and fittings of diameter :		
17.58.1	100mm	each	654.74
17.58.2	75 mm	each	557.45
17.58.3	50 mm	each	454.04
17.59	Providing and fixing M.S. stays and clamps for sand cast iron/centrifugally cast (spun) iron pipes of diameter :		
17.59.1	100 mm	each	172.40
17.59.2	75 mm	each	127.57
17.59.3	50 mm	each	96.88
17.60	Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors:		
17.60.1	100 mm inlet and 100 mm outlet		
17.60.1.1	Sand cast iron S&S as per IS: 3989.	each	1826.22
17.60.1.2	Sand Cast Iron S&S as per IS: 1729	each	1638.43
17.60.1.3	Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:1590	each	897.94
17.60.2	100 mm inlet and 75 mm outlet		
17.60.2.1	Sand cast iron S&S as per IS - 3989	each	1904.47
17.60.2.2	Sand Cast Iron S&S as per IS- 1729	each	1503.28
17.60.2.3	Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:1590	each	655.38
17.61	Cutting chases in brick masonry walls for following diameter sand cast iron/centrifugally cast (spun) iron pipes and making good the same with cement concrete 1:3:6 (1 cement : 3 coarse sand :6 graded stone aggregate 12.5 mm nominal size) including necessary plaster and pointing in cement mortar 1:4(1 cement: 4 coarse sand):		
17.61.1	100 mm dia.	metre	680.46
17.61.2	75 mm dia.	metre	488.60
17.61.3	50 mm dia.	metre	317.40
17.62	Painting C.I. cistern with bitumastic or any other anti-corrosive paint inside and white paint over a coat of zinc chromate yellow primer (of approved quality) on the outside surface of the cistern, flush pipe, other fittings, etc. complete for new work.	each	980.90
17.63	Re-painting C.I. cistern with bitumastic or any other anti-corrosive paint inside and white paint on the outside surface of the cistern, flush pipe, other fittings, etc. complete including polishing of wooden seat and lid and cleaning of W.C. pan with acid wherever necessary.	each	669.96
17.64	Repainting C.I. cistern with synthetic enamel paint of approved colour brand and manufacture on the outside surface of cistern flush pipe, other fittings etc. complete.	each	290.12

SI No.	Description of Item	Unit	Amount in Rs.
17.65	Painting sand cast iron/ centrifugally cast (spun) iron soil, waste vent pipes and fittings with two coats of synthetic enamel paint of any colour such as chocolate grey, or buff etc. over a coat of primer (of approved quality) for new work :		
17.65.1	100 mm diameter pipe	metre	87.48
17.65.2	75 mm diameter pipe	metre	66.65
17.66	Repainting sand cast iron/ centrifugally cast iron (spun) iron, soil, waste, vent pipes and fittings with paint of any colour such as chocolate, grey or buff etc :		
17.66.1	100 mm diameter pipe	metre	42.75
17.66.2	75 mm diameter pipe	metre	31.99
17.67	Repainting bath tub of size 1700x730x430mm with enamel paint.	each	717.14
17.68	Providing and fixing vitreous china dual purpose closet suitable for use as squatting pan or European type water closet (Anglo Indian W.C pan) with seat & lid fixed with C.P. brass hinges and rubber buffers, 10 litre low level flushing cistern with fitting and brackets, 40 mm flush bend, 20 mm over flow pipe, with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required:		
17.68.1	White vitreous china dual purpose WC pan with white solid plastic seat and lid with white vitreous china flushing cistern and C.P. flush bend.	each	14301.70
17.69	Providing and fixing PTMT Waste Coupling for washbasin and sink, of approved quality and colour.		
17.69.1	Waste coupling 3.1 mm of 79mm length and 62mm breadth weighing not less than 45gms.	each	147.06
17.96.2	Waste coupling 38mm of 83mm length and 77mm breadth, weighing not less than 60gms.	each	220.18
17.70	Providing and fixing PTMT Bottle Trap for Wash basin and sink.		
17.70.1	Bottle trap 31mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the centre of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 260 gms	each	477.68
17.70.2	Bottle trap 38mm single piece moulded with height of 270mm, effective length of tail pipe 260mm from the centre of the waste coupling 77mm breadth with 25mm minimum water seal, weighing not less than 263gms.	each	591.49
17.71	Providing and fixing PTMT liquid soap container 109mm wide, 125mm high and 112mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colours weighing not less than 105 gms	each	336.30

SI No.	Description of Item	Unit	Amount in Rs.
17.72	Providing and fixing PTMT towel ring trapezoidal shape 215 mm long, 200 mm wide with minimum distances of 37 mm from wall face with concealed fittings arrangement of approved quality and colour, weighing not less than 88 gms.	each	290.60
17.73	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour.		
17.73.1	450 mm long towel rail with total length of 495 mm, 78 mm wide and effective height of 88 mm, weighing not less than 170 gms	each	887.28
17.73.2	600mm long towel rail with total length of 645mm, width 78mm and effective height of 88mm, weighing not less than 190gms.	each	951.67
17.74	Providing and fixing PTMT shelf 440 mm long, 124 mm width and 36 mm height of approved quality and colour, weighing not less than 300gms.	each	1009.34
17.75	Providing and fixing PTMT 15 mm Urinal spreader size 95x69x100 mm with 1/2" BSP thread and shapes, weighing not less than 60 gms.	each	139.12
17.76	Providing and fixing PTMT urinal cock of approved quality and colour.		
17.76.1	15 mm nominal bore, 80 mm long, 42 mm high and 30mm wide with BSP female threads weighing not less than 48 gms	each	211.50
17.77	Providing and fixing M.S. holder bat clamp of approved design to sand cast iron/cast iron (spun) pipes comprising of M.S. flat brackets made of 50x5 mm flat of specified shape, projecting 75 mm outside the wall surface and fixed on wall with 4nos, 6mm dia expansion hold fasteners, including drilling necessary holes in brick wall/ CC/ RCC surface and the cost of bolts etc. The pipes shall be fixed to the already fixed brackets with the help of 30 mm x1.6 mm galvanised M.S. flats of specified shape and of total length 420 mm and shall be fixed with M.S. nuts, bolts, & washers of size 25x6 mm, one bolts on each side of the pipe		
17.77.1	Total bracket length 580 mm of approved shape and design (for single 100 mmdia pipe)	each	206.72
17.77.2	Total bracket length 810mm of approved shape and design (for two 100 mm dia pipes).	each	431.15
17.77.3	Total bracket length 1040 mm of approved shape and design (for three 100mm dia pipes).	each	520.14
17.78	Providing and fixing white vitreous china extended wall mounting water closet of size 780x370x690 mm of approved shape including providing & fixing white vitreous china cistern with dual flush fitting, of flushing capacity 3 litre/ 6 litre (adjustable to 4 litre/ 8 litres), including seat cover, and cistern fittings,nuts, bolts and gasket etc complete.	each	17199.49
17.79	Providing & fixing white vitreous china water less urinal of size 600 x 330 x 315mm having antibacterial /germs free ceramic surface, fixed with cartridge having debris catcher and hygiene seal.	each	20110.28

SI No.	Description of Item	Unit	Amount in Rs.
17.80	Providing and fixing white vitreous china battery based infrared sensor operated urinal of approx. size 610 x 390 x 370 mm having pre & post flushing with water (250 ml & 500 ml consumption), having water inlet from back side, including fixing to wall with suitable brackets all as per manufacturers specification and direction of Engineer-in-charge.	each	1839.48
17.81	Providing and fixing floor mounted, white vitreous china single piece, double traps syphonic water closet of approved brand/make, shape, size and pattern including integrated white vitreous china cistern of capacity 10 litres with dual flushing system, including all fittings and fixtures with seat cover, cistern fittings, nuts, bolts and gasket etc including making connection with the existing P/S trap, complete in all respect as per directions of Engineer-in-Charge.	each	22944.17

SUB HEAD - 18.0
WATER SUPPLY

SI No.	Description of Item	Unit	Amount in Rs.
18.1	Providing and fixing Polyethelene-Aluminium-Polyethelene (PE-AL-PE) Composite Pressure Pipes conforming to IS - 15450 U.V. stabilised with carbon black having thermal stability for hot & cold water supply, capable to withstand temperature up to 80° C including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows ,tees ,reducers, couplers & connectors etc. with clamps at 1.00 metre spacing. This includes testing of joints complete as per direction of the Engineer in charge. Internal work - Exposed on wal		
18.1.1	1216 (16 mm OD) pipe	metre	338.00
18.1.2	1620 (20 mm OD) pipe	metre	431.04
18.1.3	2025 (25 mm OD) pipe	metre	579.85
18.1.4	2532 (32 mm OD) pipe	metre	711.07
18.1.5	3240 (40 mm OD) pipe	metre	1038.28
18.1.6	4050 (50 mm OD) pipe	metre	1245.42
18.2	Providing and fixing Polyethelene-Aluminium-Polyethelene (PE-AL-PE) Composite Pressure Pipes conforming to IS - 15450 U.V. stabilised with carbon black having thermal stability for hot & cold water supply, capable to withstand temperature up to 80°C including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows , tees, reducers, couplers & connectors etc. with clamps at 1.00 metre spacing. This includes the costs of cutting chases and including testing of joints complete as per direction of the engineer in charge. Concealed work including cutting chases and making good the wall etc.		
18.2.1	1216 (16 mm OD) pipe	metre	642.50
18.2.2	1620 (20 mm OD) pipe	metre	677.36
18.2.3	2025 (25 mm OD) pipe	metre	851.63
18.2.4	2532 (32 mm OD) pipe	metre	991.05
18.3	Providingandfixing Polyethelene-Aluminium-Polyethelene (PE-AL-PE) Composite Pressure Pipes conforming to IS - 15450 - 2004 U.V. stabilised with carbon black having thermal stability for hot & cold water supply, capable to withstand temperature up to 80°C including all specialfittings ofcomposite material(engineeringplastic blendandbrass inserts wherever required) e.g. elbows ,tees ,reducers, couplers & connectors etc. with trenching, refilling and testing of joints complete as per direction of the engineer in charge. External work		
18.3.1	1216 (16 mm OD) pipe	metre	342.58
18.3.2	1620 (20 mm OD) pipe.	metre	368.47
18.3.3	2025 (25 mm OD) pipe.	metre	497.93
18.3.4	2532 (32 mm OD) pipe.	metre	601.50
18.3.5	3240 (40 mm OD) pipe.	metre	884.97
18.3.6	4050 (50 mm OD) pipe.	metre	1092.11

SI No.	Description of Item	Unit	Amount in Rs.
18.4	Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes SDR 7.4 U V stabilized & anti -microbial fusion welded, having thermal stability for hot & cold water supply including all PP - R plain & brass threaded polypropylene random fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes testing of joints complete as per direction of Engineer in Charge. (Internal work-exposed on wall)		
18.4.1	PN-16 Pipe, 16 mm OD	metre	286.22
18.4.2	PN - 16 Pipe, 20mm OD (SDR-7.4)	metre	305.56
18.4.3	PN - 16 Pipe, 25mm OD (SDR-7.4)	metre	383.41
18.4.4	PN - 16 Pipe, 32mm OD (SDR-7.4)	metre	465.17
18.4.5	PN-16 Pipe, 40 mm OD	metre	631.35
18.4.6	PN - 10 Pipe, 50mm OD (SDR-11)	metre	813.93
18.5	Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes SDR 7.4 U V stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply including all PP-R plain & brass threaded polypropylene random fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. (Concealed work including cutting chases and making good the walls etc.,)		
18.5.1	PN-16 Pipe, 20 mm OD (SDR-7.4)	metre	479.49
18.5.2	PN-16 Pipe, 25 mm OD (SDR-7.4)	metre	587.19
18.5.3	PN-16 Pipe, 32 mm OD (SDR-7.4)	metre	638.87
18.5.4	PN-16 Pipe, 40 mm OD (SDR-7.4)	metre	778.51
18.6	Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes SDR 7.4 U V stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply including all PP-R plain & brass threaded polypropylene random fittings i/c trenching .refilling & testing of joints complete as per direction of Engineer in Charge. (External work)		
18.6.1	PN-16 Pipe, 20 mm OD (SDR-7.4)	metre	234.72
18.6.2	PN-16 Pipe, 25 mm OD (SDR-7.4)	metre	288.72
18.6.3	PN - 16 Pipe, 32 mm OD (SDR-7.4)	metre	368.30
18.6.4	PN-16 Pipe, 40 mm OD	metre	480.01
18.6.5	PN-10 Pipe, 50 mm OD	metre	682.39
18.6.6	PN - 10 Pipe, 63 mm OD (SDR-11)	metre	906.02
18.6.7	PN - 10 Pipe, 75mm OD (SDR-11)	metre	1215.12
18.6.8	PN - 10 Pipe, 90 mm OD	metre	1660.69
18.6.9	PN - 10 Pipe, 110 mm OD (SDR-11)	metre	2087.80
18.6.10	PN-10 Pipe, 160 mm OD (SDR- 11)	metre	5689.10
18.6A	Providing and fixing PPR Unions		
18.6A.1	PPR Union 20mm	each	326.75
18.6A.2	PPR Union 25mm	each	405.00
18.6A.3	PPR Union 32mm	each	467.59
18.6A.4	PPR Union 40mm	each	577.14
18.6A.5	PPR Union 50mm	each	874.47
18.6A.6	PPR Union 63mm	each	1171.80
18.6A.7	PPR Union 75mm	each	2110.74

SI No.	Description of Item	Unit	Amount in Rs.
18.7	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. (Internal work Exposed on wall)		
18.7.1	15 mm nominal outer dia .Pipes.	metre	306.76
18.7.2	20 mm nominal outer dia .Pipes.	metre	501.37
18.7.3	25 mm nominal outer dia .Pipes.	metre	507.72
18.7.4	32 mm nominal outer dia .Pipes.	metre	618.60
18.7.5	40 mm nominal outer dia .Pipes.	metre	834.85
18.7.6	50 mm nominal outer dia .Pipes.	metre	1164.04
18.8	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. (Concealed work including cutting chases and making good the walls etc.,)		
18.8.1	15 mm nominal outer dia .Pipes.	metre	510.06
18.8.2	20 mm nominal outer dia .Pipes.	metre	745.98
18.8.3	25 mm nominal outer dia .Pipes.	metre	745.98
18.8.4	32 mm nominal outer dia .Pipes.	metre	866.57
18.9	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings, this included jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. (External work).		
18.9.1	15 mm nominal outer dia .Pipes.	metre	244.19
18.9.2	20 mm nominal outer dia .Pipes.	metre	419.45
18.9.3	25 mm nominal outer dia .Pipes.	metre	438.50
18.9.4	32 mm nominal outer dia .Pipes.	metre	521.72
18.9.5	40 mm nominal outer dia .Pipes.	metre	681.53
18.9.6	50 mm nominal outer dia .Pipes.	metre	1010.73
18.9.7	65 mm nominal inner dia Pipes.	metre	1995.16
18.9.8	80 mm nominal inner dia Pipes.	metre	2535.19
18.9.9	100mm nominal inner dia .Pipes.	metre	3586.12
18.9.10	150 mm nominal inner dia .Pipes.	metre	7389.15
18.10	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, including cutting and making good the walls etc. Internal work - Exposed on wall :		
18.10.1	15 mm dia. nominal bore	metre	439.58
18.10.2	20 mm dia. nominal bore	metre	494.67
18.10.3	25 mm dia. nominal bore	metre	664.15
18.10.4	32 mm dia. nominal bore	metre	824.44
18.10.5	40 mm dia. nominal bore	metre	973.34
18.10.6	50 mm dia. nominal bore	metre	1334.68

SI No.	Description of Item	Unit	Amount in Rs.
18.11	Providing and fixing G.I. Pipes complete with G.I. fittings and clamps, i/c making good the walls etc. concealed pipe, including painting with anti corrosive bitumastic paint, cutting chases and making good the wall :		
18.11.1	15 mm dia nominal bore	metre	636.73
18.11.2	20 mm dia nominal bore	metre	672.48
18.12	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. (external work):		
18.12.1	15 mm dia. nominal bore	metre	336.33
18.12.2	20 mm dia. nominal bore	metre	291.09
18.12.3	25 mm dia. nominal bore	metre	492.08
18.12.4	32 mm dia. nominal bore	metre	594.82
18.12.5	40 mm dia. nominal bore	metre	668.69
18.12.6	50 mm dia. nominal bore	metre	895.06
18.12.7	65 mm dia. nominal bore	metre	927.29
18.12.8	80 mm dia. nominal bore	metre	1118.84
18.13	Taking connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete :		
18.13.1	25 to 40 mm nominal bore	each	860.26
18.13.2	50 to 80 mm nominal bore	each	1929.18
18.14	Fixing water meter and stop cock in G.I. pipe line including cutting and threading the pipe and making long screws etc. complete (cost of water meter and stop cock to be paid separately).	each	749.30
18.15	Providing and fixing brass bib cock of approved quality :		
18.15.1	15 mm nominal bore	each	421.34
18.15.2	20 mm nominal bore	each	469.61
18.16	Providing and fixing brass stop cock of approved quality :		
18.16.1	15 mm nominal bore	each	421.34
18.16.2	20 mm nominal bore	each	483.23
18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end):		
18.17.1	25 mm nominal bore	each	789.10
18.17.1A	20 mm nominal bore	each	652.52
18.17.2	32 mm nominal bore.	each	874.36
18.17.3	40 mm nominal bore	each	1048.74
18.17.4	50 mm nominal bore	each	1243.04
18.17.5	65 mm nominal bore	each	2060.45
18.17.6	80 mm nominal bore	each	3079.07
18.18	Providing and fixing ball valve (brass) of approved quality complete : High or low pressure with plastic floats:		
18.18.1	15 mm nominal bore	each	512.64
18.18.2	20 mm nominal bore	each	515.00
18.18.3	25 mm nominal bore	each	584.22

SI No.	Description of Item	Unit	Amount in Rs.
18.19	Providing and fixing gun metal non-return valve of approved quality (screwed end):		
18.19.1	25 mm nominal bore		
18.19.1.1	Horizontal	each	747.14
18.19.1.2	Vertical	each	849.57
18.19.2	32 mm nominal bore		
18.19.2.1	Horizontal	each	964.20
18.19.2.2	Vertical	each	1075.16
18.19.3	40 mm nominal bore		
18.19.3.1	Horizontal	each	1044.68
18.19.3.2	Vertical	each	1343.44
18.19.4	50 mm nominal bore		
18.19.4.1	Horizontal	each	1502.68
18.19.4.2	Vertical	each	1690.47
18.19.5	65 mm nominal bore		
18.19.5.1	Horizontal	each	2677.17
18.19.5.2	Vertical	each	2719.85
18.19.6	80 mm nominal bore		
18.19.6.1	Horizontal	each	3678.61
18.19.6.2	Vertical	each	4148.08
18.20	Providing and fixing brass ferrule with C.I. mouth cover including boring and tapping the main :		
18.20.1	15 mm nominal bore	each	429.39
18.20.2	20 mm nominal bore	each	507.56
18.20.3	25 mm nominal bore	each	651.57
18.21	Providing and fixing uplasticised PVC connection pipe with brass unions :		
18.21.1	Providing and fixing uplasticised PVC connection pipe with brass unions :		
18.21.1.1	15 mm nominal bore	each	133.17
18.21.1.2	20 mm nominal bore	each	150.24
18.21.2	45 cm length		
18.21.2.1	15 mm nominal bore	each	146.79
18.21.2.2	20 mm nominal bore	each	148.49
18.22	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet:		
18.22.1	100 mm diameter	each	245.53
18.22.2	150 mm diameter	each	280.49
18.23	Laying in position centrifugally cast (spun) iron S&S or flanged pipes (excluding cost of pipe)	quintal	313.31
18.24	Laying in position S&S or flanged C.I. special such tees, bends collars, tapers and caps etc. (excluding cost of specials).	quintal	598.23
18.25	Providing and laying S&S C.I. standard specials such as tees, bends, collars, tapers, caps etc. (Heavy class)		

SUB HEAD - 18.0 WATER SUPPLY

SI No.	Description of Item	Unit	Amount in Rs.
18.25.1	Upto 300 mm dia.	quintal	6544.85
18.25.2	Over 300 mm dia.	quintal	6544.85
18.26	Providing and laying flanged C.I. standard specials such as tees, bends, collars, tapers, caps etc., suitable for flanged jointing as per IS : 1538 :		
18.26.1	Upto 300 mm dia.	quintal	9518.16
18.26.2	Over 300 mm dia.	quintal	9560.84
18.27	Providing and laying S&S centrifugally cast (spun) iron pipes (Class LA) conforming to IS - 1536		
18.27.1	100 mm dia, pipe	metre	1403.15
18.27.2	125 mm dia. pipe	metre	1750.58
18.27.3	150 mm dia. pipe	metre	2113.35
18.27.4	200 mm dia pipe	metre	3574.70
18.27.5	250 mm dia. pipe	metre	4669.87
18.27.6	300 mm dia. pipe	metre	6292.11
18.27.7	350 mm dia. pipe	metre	7551.30
18.27.8	400 mm dia. Pipe	metre	9931.27
18.27.9	450 mm dia. pipe	metre	12024.57
18.27.10	500 mm dia. pipe	metre	13967.63
18.27.11	600 mm dia. pipe	metre	19510.39
18.28	Providing lead caulked joints to spun iron or C.I. pipes and specials including testing of joints but excluding the cost of pig lead :		
18.28.1	100 mm diameter pipe	each	475.00
18.28.2	125 mm diameter pipe	each	776.93
18.28.3	150 mm diameter pipe	each	712.27
18.28.4	200 mm diameter pipe	each	946.00
18.28.5	250 mm diameter pipe	each	1182.83
18.28.6	300 mm diameter pipe	each	1424.77
18.28.7	350 mm diameter pipe	each	1457.60
18.28.8	400 mm diameter pipe	each	1911.36
18.28.9	450 mm diameter pipe	each	2143.52
18.28.10	500 mm diameter pipe	each	2267.55
18.28.11	600 mm diameter pipe	each	3066.58
18.29	Supplying pig lead at site of work.	quintal	33858.75
18.30	Providing flanged joints to double flanged C.I./ D.I. pipes and specials including testing of joints :		
18.30.1	80 mm diameter pipe	each	219.79
18.30.2	100 mm diameter pipe	each	350.28
18.30.3	125 mm diameter pipe	each	374.46
18.30.4	150 mm diameter pipe	each	442.27
18.30.5	200 mm diameter pipe	each	523.28
18.30.6	250 mm diameter pipe	each	714.93
18.30.7	300 mm diameter pipe	each	740.53
18.30.8	350 mm diameter pipe	each	1382.67
18.30.9	400 mm diameter pipe	each	1147.58
18.30.10	450 mm diameter pipe	each	1394.30
18.30.11	500 mm diameter pipe	each	1785.12
18.30.12	600 mm diameter pipe	each	1844.62

SI No.	Description of Item	Unit	Amount in Rs.
18.31	Providing and fixing C.I. sluice valves (with cap) complete with bolts, nuts, rubber insertions etc. (the tail pieces if required will be paid separately):		
18.31.1	100 mm diameter		
18.31.1.1	Class I	each	5113.98
18.31.1.2	Class II	each	4995.52
18.31.2	125 mm diameter		
18.31.2.1	Class I	each	5504.44
18.32.2.2	Class II	each	5946.12
18.31.3	150 mm diameter		
18.31.3.1	Class I	each	7498.20
18.31.3.2	Class II	each	7351.49
18.31.4	200 mm diameter		
18.31.4.1	Class I	each	13666.65
18.31.4.2	Class II	each	14861.59
18.31.5	250 mm diameter		
18.31.	Class I	each	19688.67
18.31.5.2	Class II	each	24571.52
18.31.6	300 mm diameter		
18.31.6.1	Class 2	each	27187.13
18.31.6.2	Class II	each	32246.75
18.32	Surface box 100x100 x75 mm (inside) with hinged cover fixed in cement concrete slab 1:2:4 mix (1 cement :2 coarse sand : 4 graded stone aggregate 20 mm nominal size) necessary excavation foundation concrete 1:5:10 (1 cement :5 fine sand:10 graded stone aggregate 40mm nominal size) and inside plastering with cement mortar 1:3 (1 cement :3 coarse sand) 12mm thick finished with a floating coat of neat cement complete as per standard design : With F.P.S. bricks		
18.32.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	each	3723.98
18.33	Constructing masonry Chamber 60x60x75 cm, inside with 75 class designation brick work in cement mortar 1:4 (1 cement :4coarse sand) for sluice valve, with C.I. surface box 100mm. top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement :2 coarse sand : 4 graded stone aggregate 20mm nominal size) necessary excavation7foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design :		
18.33.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	each	13992.03

SI No.	Description of Item	Unit	Amount in Rs.
18.34	Constructing masonry Chamber 90x90x100 cm, inside with 75 class designation brick work in cement mortar 1:4(1 cement: 4 coarse sand) for sluice valve, with C.I. surface box 100 mm. top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement: 2 coarse sand : 4"graded stone aggregate 20 mm nominal size) necessary excavation foundation concrete 1:5:10 (1 cement: 5 fine sand:10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3(1 cement: 3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design		
18.34.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	each	23795.37
18.35	Constructing masonry Chamber 120x120x100 cm, inside with 75 class designation brick work in cement mortar 1:4(cement :4 coarse) for sluice valve, with C.I. surface box 100 mm. top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement :2 coarse sand : 4 graded stone aggregate 20 mm nominal size) necessary excavation foundation concrete 1:5:10(1 cement : 5 fine sand: 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design :		
18.35.1	With F.P.S. bricks	each	27746.67
18.36	Constructing masonry Chamber 60x60x75 cm, inside with 75 class designation brick work in cement mortar 1:4(1 cement : 4 coarse sand) for fire hydrants, with C.I. surface box 350x350 mm. top and 165 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) necessary excavation foundation concrete 1:5:10 (1 cement: 5 fine sand: 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement: 3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design :		
18.36.1	With F.P.S. bricks	each	12390.05
18.37	Constructing masonry Chamber 60x45x50 cm, inside with 75 class designation brick work in cement mortar 1:4(1 cement : 4 coarse sand) for water meter complete with C.I. double flap surface box 400x200x200 mm (inside) with locking arrangement and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) necessary excavation foundation concrete 1:5:10 (1 cement: 5 fine sand:10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement: 3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design :		
18.37.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	each	17956.56
18.38	Painting G.I. pipes and fittings with synthetic enamel white paint over a ready mixed priming coat, both of approved quality for new work :		
18.38.1	15 mm diameter pipe.	metre	21.00

SI No.	Description of Item	Unit	Amount in Rs.
18.38.2	20 mm diameter pipe.	metre	25.02
18.38.3	25 mm diameter pipe.	metre	32.70
18.38.4	32 mm diameter pipe.	metre	39.08
18.38.5	40 mm diameter pipe.	metre	46.01
18.38.6	50 mm diameter pipe.	metre	54.74
18.39	Repainting G.I. pipes and fittings with synthetic enamel white paint of approved quality :		
18.39.1	15 mm diameter pipe.	metre	10.54
18.39.2	20 mm diameter pipe.	metre	12.43
18.39.3	25 mm diameter pipe	metre	15.86
18.39.4	32 mm diameter pipe	metre	18.91
18.39.5	40 mm diameter pipe	metre	21.97
18.39.6	50 mm diameter pipe	metre	26.07
18.40	Painting G.I. pipes and fittings with two coats of anti-corrosive bitumastic paint of approved quality :		
18.40.1	15 mm diameter pipe	metre	12.15
18.40.2	20 mm diameter pipe	metre	14.45
18.40.3	25 mm diameter pipe	metre	18.41
18.40.4	32 mm diameter pipe	metre	22.06
18.40.5	40 mm diameter pipe	metre	25.11
18.40.6	50 mm diameter pipe	metre	30.11
18.40.7	65 mm diameter pipe	metre	37.21
18.40.8	80 mm diameter pipe	metre	43.19
18.41	Providing and filling sand grading zone V or coarser grade around the G.I. pipes in external work.		
18.41.1	15mm diameter pipe	metre	231.99
18.41.1A	Sub analysis item for sand filling component	metre	2203.66
18.41.2	20 mm diameter pipe	metre	235.13
18.41.3	25 mm diameter pipe	metre	241.40
18.41.4	32 mm diameter pipe	metre	247.67
18.41.5	40 mm diameter pipe	metre	250.80
18.41.6	50 mm diameter pipe	metre	688.36
18.41.7	65 mm diameter pipe	metre	410.69
18.41.8	80 mm diameter pipe	metre	423.23
18.41.9	100 mm diameter pipe	metre	448.31
18.41.10	150 mm diameter pipe	metre	667.76
18.42	Boring with 100 mm diameter casing pipe for hand pump/ tube well in all soils except ordinary hard rocks requiring blasting including removing the casing pipe after the hand pipe/tube well is lowered and tested :		
18.42.1	Upto 6 metres depth.	metre	656.16
18.42.2	Beyond 6m and upto 12 m depth.	metre	777.52
18.42.3	Beyond 12 m and upto 18 m depth.	metre	903.11
18.43	Providing and placing in position filters of 40 mm diameter G.I. pipe with brass strainer of approved quality.	metre	1005.14
18.44	Providing and fixing to filter and lowering to proper levels 40 mm G.I. pipe for tube well including cleaning and priming the tube well.	metre	615.87

SI No.	Description of Item	Unit	Amount in Rs.
18.45	Providing and placing in position hand pump of approved quality for 40 mm diameter G.I. pipe complete with all accessories.	each	1586.43
18.46	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work)		
18.46.1	15 mm nominal bore	each	299.73
18.46.2	20 mm nominal bore	each	353.79
18.46.3	25 mm nominal bore	each	436.30
18.46.4	32 mm nominal	each	632.63
18.46.5	40 mm nominal bore	each	632.63
18.46.6	50mm nominal bore	each	809.77
18.46.7	65mm nominal bore	each	1146.23
18.46.8	80 mm nominal bore	each	1224.47
18.47	Providing and fixing G.I. Union in existing G.I. pipe line, cutting and threading the pipe and making long screws including excavation, refilling the earth or cutting of wall and making good the same complete wherever required :		
18.47.1	15 mm nominal bore.	each	765.44
18.47.2	20 mm nominal bore.	each	819.50
18.47.3	25 mm nominal bore.	each	902.02
18.47.4	32 mm nominal bore.	each	1098.34
18.47.5	40 mm nominal bore.	each	1065.62
18.47.6	50 mm nominal bore.	each	1444.84
18.47.7	65 mm nominal bore.	each	1781.29
18.47.8	80 mm nominal bore.	each	1859.54
18.48	Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI : 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank	per litre	13.49
18.48A	Providing and fixing rectangular high density polyethylene water storage loft tank with cover, conforming to ISI : 12701, colour of opaque white or as approved by Engineer-in-charge. The rate includes making necessary holes for inlet, outlet & over flow pipes. The base support i/c fittings & fixtures for tank shall be paid separately.	per litre	13.49
18.49	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :		
18.49.1	15 mm nominal bore	each	682.18
18.50	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.		
18.50.1	15mm nominal bore.	each	833.50
18.51	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.		
18.51.1	15mm nominal bore.	each	824.35

SI No.	Description of Item	Unit	Amount in Rs.
18.52	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.		
18.52.1	15mm nominal bore.	each	807.37
18.53	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931		
18.53.1	15 mm nominal bore	each	681.16
18.53A	Providing and fixing C.P. Brass extension nipple (size 15mmx50mm) of approved make and quality as per direction of Engineer-in-charge.	each	88.13
18.54	Providing and fixing PTMT bib cock of approved quality and colour.		
18.54.1	15mm nominal bore, 86 mm long, weighing not less than 88 gms.	each	230.28
18.54.2	15 mm nominal bore, 122mm long, weighing not less than 99 gms.	each	306.96
18.54.3	15 mm nominal bore, 165 mm long, weighing not less than 110 grams.	each	363.29
18.54.4	15mm nominal bore, 90mm long, weighing not less than 93 grams.	each	247.49
18.55	Providing and fixing PTMT stop cock of approved quality and colour.		
18.55.1	15 mm nominal bore, 86mm long, weighing not less than 88 grams.	each	238.10
18.55.2	20mm nominal bore, 89mm long, weighing not less than 88 grams.	each	274.09
18.53.3	Concealed stop cock, 15mm nominal bore, 108mm long, weighing not less than 108 grams.	each	378.94
18.56	Providing and fixing PTMT pillar cock of approved quality and colour .		
18.56.1	15mm nominal bore, 107mm long, weighing not less than 110 grams.	each	345.41
18.56.2	15mm nominal bore, 125mm long foam flow, Weighing not less than 120 gms.	each	312.55
18.57	Providing and fixing PTMT, push cock of approved quality and colour.		
18.57.1	15 mm nominal bore, 98mm long, Weighing not less than 75 gms.	each	191.15
18.57.2	15 mm nominal bore, 80mm long, Weighing not less than 46 gms.	each	238.10
18.58	Providing and fixing PTMT grating of approved quality and colour.		
18.58.1	Circular type		
18.58.1.1	100 mm nominal dia.	each	60.09
18.58.1.2	125 mm nominal dia with 25 mm waste hole.	each	55.40
18.58.2	Rectangular type with openable circular lid.		
18.58.2.1	150 mm nominal size square 100 mm diameter of the inner hinged round grating.	each	219.71
18.59	Providing and fixing C.I. double acting air valve of approved quality with bolts, nuts, rubber insertions etc. complete (The tail pieces, tapers etc if required will be paid separately):		
18.59.1	50mm dia	each	6058.83
18.59.2	80 mm dia	each	7326.39
18.59.3	100mm dia	each	9498.87
18.60	Providing and fixing enclosed type water meter (bulk type) conforming to IS : 2373 and tested by Municipal Board complete with bolts, nuts, rubber insertions etc. (The tail pieces if required will be paid separately):		
18.60.1	80 mm dia nominal bore	each	6035.83
18.60.2	100 mm dia nominal bore	each	9133.31
18.60.3	150 mm dia nominal bore	each	9358.48

SUB HEAD - 18.0 WATER SUPPLY

SI No.	Description of Item	Unit	Amount in Rs.
18.60.4	200 mm dia nominal bore	each	10318.59
18.61	Providing and fixing C.I. dirt box strainer for bulk type water meter with nuts, bolts, rubber insertions etc. complete conforming to IS : 2373 :		
18.61.1	80 mm dia	each	4887.81
18.61.2	100mm dia.	each	7844.33
18.61.3	150 mm dia	each	9960.97
18.61.4	200mm dia	each	13956.98
18.62	Providing and fixing PTMT Ball cock of approved quality, colour and make complete with Epoxy coated rod with L.P./ H.P.H.D. plastic ball.		
18.62.1	15 mm nominal bore, 105mm long, weighing not less than 138gms.	each	401.67
18.62.2	20 mm nominal bore, 120mm long, weighing not less than 198gms.	each	581.01
18.62.3	25 mm nominal bore, 152mm long, weighing not less than 440gms.	each	1019.69
18.62.4	40mm nominal bore, 206mm long, weighing not less than 690gms.	each	783.39
18.62.5	50mm nominal bore, 242mm long, weighing not less than 1240gms.	each	1409.35
18.63	Providing and fixing PTMT angle stop cock 15 mm nominal bore, weighing not less than 85gms.	each	272.53
18.64	Providing and fixing PTMT swivelling shower, 15 mm nominal bore, weighing not less than 40gms.	each	137.41
18.65	Providing and fixing PTMT soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements weighing not less than 106 gms.	each	125.46
18.66	Providing and laying S&S C.I. Standard specials such as tees, bends, collars tapers and caps etc, suitable for flanged jointing as per IS : 1538 :		
18.66.1	Upto300mmdia	quintal	8720.06
18.66.2	Above 300 mm dia	quintal	10300.61
18.67	Providing and laying S&S C.I. Standard specials suitable for mechanical jointing as per IS : 13382		
18.67.1	Upto 300mmdia	quintal	14010.99
18.67.2	Above 300 mm dia	quintal	14757.45
18.68	Providing and laying D.I. specials of class K-12 suitable for push-on jointing as per IS : 9523 :		
18.68.1	Upto 600mmdia	quintal	20002.99
18.68.2	Above 600 mm dia	quintal	20002.99
18.69	Providing and laying D.I Specials of Class K-12suitable for mechanical jointing as per IS		
18.69.1	Upto 600 mm dia	quintal	21020.18
18.69.2	Above 600 mm dia	quintal	29940.11
18.70	Providing push-on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pipes including testing of joints and including the cost of rubber gasket:		
18.70.1	100 mm dia pipes	joint	111.90
18.70.2	150 mm dia pipes	joint	176.82

SI No.	Description of Item	Unit	Amount in Rs.
18.70.3	200 mm dia pipes	joint	260.80
18.70.4	250 mm dia pipes	joint	318.17
18.70.5	300 mm dia pipes	joint	406.85
18.70.6	350 mm dia pipes	joint	431.88
18.70.7	400 mm dia pipes	joint	662.44
18.70.8	450 mm dia pipes	joint	766.76
18.70.9	500 mm dia pipes	joint	818.92
18.70.10	600 mm dia pipes	joint	1099.54
18.70.11	650 mm dia pipes	joint	1440.68
18.70.12	700 mm dia pipes	joint	1440.68
18.70.13	750 mm dia pipes	joint	1581.52
18.70.14	800 mm dia pipes	joint	1812.60
18.70.15	900 mm dia pipes	joint	2258.58
18.70.16	1000 mm dia pipes	joint	2608.06
18.71	Providing and laying Double Flanged (screwed/ welded) Centrifugally (Spun) Cast Iron, Class B (IS : 1536):		
18.71.1	100 mm dia C.I. Double Flanged Pipe	metre	2134.61
18.71.2	150 mm dia C.I. Double Flanged Pipe	metre	3343.40
18.71.3	200 mm dia C.I. Double Flanged Pipe	metre	5266.41
18.71.4	250 mm dia C.I. Double Flanged Pipe	metre	6378.50
18.71.5	300 mm dia C.I. Double Flanged Pipe	metre	8153.49
18.71.6	350 mm dia C.I. Double Flanged Pipe	metre	10262.44
18.71.7	400 mm dia C.I. Double Flanged Pipe	metre	13265.58
18.71.8	450 mm dia C.I. Double Flanged Pipe	metre	16876.86
18.71.9	500 mm dia C.I. Double Flanged Pipe	metre	20944.77
18.71.10	600 mm dia C.I. Double Flanged Pipe	metre	29007.72
18.72	Providing and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS : 8329		
18.72.1	100 mm dia Ductile Iron Class K-7 pipes	metre	1613.15
18.72.2	150 mm dia Ductile Iron Class K-7 pipes	metre	2262.29
18.72.3	200 mm dia Ductile Iron Class K-7 pipes	metre	2285.17
18.72.4	250 mm dia Ductile Iron Class K-7 pipes	metre	2939.95
18.72.5	300 mm dia Ductile Iron Class K-7 pipes	metre	3672.67
18.72.6	350 mm dia Ductile Iron Class K-7 pipes	metre	4353.77
18.72.7	400 mm dia Ductile Iron Class K-7 pipes	metre	5213.88
18.72.8	450 mm dia Ductile Iron Class K-7 pipes	metre	6314.36
18.72.9	500 mm dia Ductile Iron Class K-7 pipes	metre	7141.30
18.72.10	600 mm dia Ductile Iron Class K-7 pipes	metre	9197.69
18.72.11	700 mm dia Ductile Iron Class K-7 pipes	metre	12015.61
18.72.12	800 mm dia Ductile Iron Class K-7 pipes	metre	15003.50
18.72.13	900 mm dia Ductile Iron Class K-7 pipes	metre	19351.55
18.72.14	1000 mm dia Ductile Iron Class K-7 pipes	metre	20339.22
18.72.15	100 mm dia Ductile Iron Class K-9 pipes	metre	1252.60
18.72.16	150 mm dia Ductile Iron Class K-9 pipes	metre	1881.94
18.72.17	200 mm dia Ductile Iron Class K-9 pipes	metre	3485.46
18.72.18	250 mm dia Ductile Iron Class K-9 pipes	metre	4769.97
18.72.19	300 mm dia Ductile Iron Class K-9 pipes	metre	5431.94
18.72.20	350 mm dia Ductile Iron Class K-9 pipes	metre	5492.22
18.72.21	400 mm dia Ductile Iron Class K-9 pipes	metre	7026.09
18.72.22	450 mm dia Ductile Iron Class K-9 pipes	metre	8171.96
18.72.23	500 mm dia Ductile Iron Class K-9 pipes	metre	10217.60

SI No.	Description of Item	Unit	Amount in Rs.
18.72.24	600 mm dia Ductile Iron Class K-9 pipes	metre	12359.14
18.72.25	700 mm dia Ductile Iron Class K-9 pipes	metre	17113.03
18.72.26	750 mm dia Ductile Iron Class K-9 pipes	metre	18521.71
18.72.27	800 mm dia Ductile Iron Class K-9 pipes	metre	18754.96
18.72.25	900 mm dia Ductile Iron Class K-9 pipes	metre	17113.03
18.72.29	1000 mm dia Ductile Iron Class K-9 pipes.	metre	25525.37
18.73	Providing and laying Double Flanged (Screwed/ Welded) Centrifugally (Spun) Ductile Iron Pipes of Class K 9 conforming to IS : 8329 :		
18.73.1	100 mm dia Ductile Iron Double Flanged	metre	1789.69
18.73.2	150 mm dia Ductile Iron Double Flanged	metre	2684.22
18.73.3	200 mm dia Ductile Iron Double Flanged	metre	3385.65
18.73.4	250 mm dia Ductile Iron Double Flanged	metre	4802.56
18.73.5	300 mm dia Ductile Iron Double Flanged	metre	7719.59
18.73.6	350 mm dia Ductile Iron Double Flanged	metre	7766.59
18.73.7	400 mm dia Ductile Iron Double Flanged	metre	9962.51
18.73.8	450 mm dia Ductile Iron Double Flanged	metre	10498.71
18.73.9	500 mm dia Ductile Iron Double Flanged	metre	14829.48
18.73.10	600 mm dia Ductile Iron Double Flanged	metre	19637.02
18.73.11	700 mm dia Ductile Iron Double Flanged	metre	23286.56
18.74	Providing and fixing unplastised P.V.C. connection pipe with PTMT Nuts of approved quality and colour.		
18.74.1	15 mm nominal bore with 30cm length.	each	136.58
18.74.2	15 mm nominal bore with 45 cm length.	each	95.57
18.75	Providing and fixing PTMT extension nipple for water tank pipe, fittings of approved quality and colour.		
18.75.1	15 mm nominal bore. Weighing not less than 32gms.	each	52.35
18.75.2	20mm nominal bore. Weighing not less than 40gms.	each	85.36
18.75.3	25mm nominal bore. Weighing not less than 62gms.	each	129.31
18.76	Cutting holes upto 30x30 cm in walls including making good the same :		
18.76.1	With F.P.S. bricks.	each	445.52
18.77	Cutting holes upto 15x15 cm in R.C.C. floors and roofs for passing drain pipe etc. and repairing the hole after insertion of drain pipe etc. with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including finishing complete so as to make it leak proof.	each	432.69
18.78	Making chases upto 7.5x7.5 cm in walls including making good and finishing with matching surface after housing G.I. pipe etc.	metre	186.07
18.79	Making hole upto 20x20 cm and embedding pipes upto 150 mm diameter in masonry and filling with cement concrete 1:3:6 (1 cement: 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) including disposal of malba.	metre	314.13

SI No.	Description of Item	Unit	Amount in Rs.
18.80	Disinfecting C.I. water mains by flushing with water containing bleaching powder at 0.5 gms per litre of water and cleaning the same with fresh water, operation to be repeated three times including getting the sample of water from the disinfected main tested in the municipal laboratory :		
18.80.1	80mm diameter C.I. pipe.	100 metre	1591.35
18.80.2	100 mm dia metre C.I.pipe.	100 metre	2100.48
18.80.3	125 mm diameter C.I. pipe.	100 metre	2631.51
18.80.4	150mm dia metre C.I,pipe.	100 metre	3161.10
18.80.5	200mm diameter C.I. pipe.	100 metre	4225.56
18.80.6	250 mm diameter C.I. pipe.	100 metre	5321.02
18.80.7	300 mm diameter C.I. pipe.	100 metre	5918.23
18.80.8	350 mm diameter C.I. pipe.	100 metre	6532.86
18.80.9	400 mm diameter C.I. pipe.	100 metre	7179.34
18.80.10	450 mm diameter C.I. pipe.	100 metre	7832.88
18.80.11	500 mm diameter C.I. pipe.	100 metre	8521.63
18.80.12	600 mm diameter C.I. pipe.	100 metre	9913.24
18.81	Extra for every operation of disinfecting the C.I. main by flushing with water containing bleaching powder at 0.5 gms per litre of water and cleaning the same with fresh water, including getting the samples of water tested in the municipal laboratory :		
18.81.1	80 mm diameter C.I. pipe.	100 metre	581.03
18.81.2	100mm diameterC.I. pipe.	100 metre	715.34
18.81.3	125mm dia metre C.I. pipe.	100 metre	877.96
18.81.4	150 mm dia metre C.I. pipe.	100 metre	1025.03
18.81.5	200 mm diameter C.I. pipe.	100 metre	1586.48
18.81.6	250 mm diameter C.I. pipe.	100 metre	1812.40
18.81.7	300 mm diameter C.I. pipe.	100 metre	2023.10
18.81.8	350 mm diameter C.I. pipe.	100 metre	2369.56
18.81.9	400 mm diameter C.I. pipe.	100 metre	2717.93
18.81.10	450 mm diameter C.I. pipe.	100 metre	3078.36
18.81.11	500 mm diameter C.I. pipe.	100 metre	3228.49
18.81.12	600 mm diameter C.I. pipe.	100 metre	4175.67
18.82	Dismantling old C.I. pipes including excavation and refilling trenches after taking out the pipes, breaking lead caulked joints, melting of lead and making into blocks including stacking of pipes at site lead upto 50 metre :		
18.82.1	80 mm diameter C.I. pipe.	metre	436.10
18.82.2	100mm diameter C.I. pipe.	metre	450.55
18.82.3	125 mm diameter C.I. pipe.	metre	459.63
18.82.4	150mm dia metre C.I. pipe.	metre	472.82
18.82.5	200 mm diameter C.I. pipe.	metre	567.30
18.82.6	250 mm diameter C.I. pipe.	metre	569.52
18.82.7	300 mm diameter C.I. pipe.	metre	594.01
18.82.8	350 mm diameter C.I. pipe.	metre	650.34
18.82.9	400mm dia metre C.I. pipe.	metre	685.04
18.82.10	450 mm diameter C.I. pipe.	metre	720.96
18.82.11	500 mm diameter C.I. pipe.	metre	751.15
18.82.12	600 mm diameter C.I. pipe.	metre	801.49
18.83	Labour for cutting C.I. pipe with steel saw.		

SI No.	Description of Item	Unit	Amount in Rs.
18.83.1	80 mm diametre C.I. pipe.	each cut	134.13
18.83.2	100 mm diametre C.I. pipe.	each cut	180.03
18.83.3	125 mm diametre C.I. pipe.	each cut	250.15
18.83.4	150 mm diametre C.I. pipe.	each cut	338.38
18.83.5	200 mm diametre C.I. pipe.	each cut	451.35
18.83.6	250 mm diametre C.I. pipe.	each cut	560.75
18.83.7	300 mm diametre C.I. pipe.	each cut	673.72
18.83.8	350 mm diametre C.I. pipe.	each cut	783.12
18.83.9	400 mm diametre C.I. pipe.	each cut	895.58
18.83.10	450 mm diametre C.I. pipe.	each cut	1005.49
18.83.11	500 mm diametre C.I. pipe	each cut	1121.51
18.83.12	6 mm diametre C.I. pipe.	each cut	1333.20
18.84	Providing/laying and fitting of HDPE/MDPE/PPR pipes complete including cost of pipes and fittings.		
18.84.1	HDPE pipe 20mm dia	metre	63.60
18.84.2	HDPE pipe 25mm dia	metre	73.68
18.84.3	HDPE pipe 32mm dia	metre	96.87
18.84.4	HDPE pipe 40mm dia	metre	134.17
18.84.5	HDPE pipe 50mm dia	metre	188.60
18.84.6	HDPE pipe 63mm dia	metre	270.25
18.84.7	HDPE pipe 75mm dia	metre	355.94
18.84.8	HDPE flanged pipe 90mm dia	metre	507.15
18.84.9	HDPE flanged pipe 110mm dia	metre	678.52
18.84.10	HDPE flanged pipe 125mm dia	metre	925.50
18.84.11	HDPE flanged pipe 140mm dia	metre	996.06
18.84.12	MDPE pipe with insulation 20mm dia	metre	774.29
18.84.13	PPR pipe 20mm dia	metre	119.05
18.84.14	PPR pipe 25mm dia	metre	137.19
18.84.15	PPR pipe 32mm dia	metre	154.33
18.84.16	PPR pipe 40mm dia	metre	159.37
18.84.17	PPR pipe 50mm dia	metre	199.69
18.85	Providing/laying and fixing G.I/M.S flanged pipes complete including cost of pipes and fittings.		
18.85.1	G.I Pipe 25mm dia	metre	462.86
18.85.2	G.I Pipe 32mm dia	metre	533.12
18.85.3	G.I Pipe 40mm dia	metre	563.23
18.85.4	G.I Pipe 50mm dia	metre	683.67
18.85.5	G.I Pipe 63mm dia	metre	884.41
18.85.6	G.I Pipe 75mm dia	metre	1034.97
18.85.7	G.I Pipe 80mm dia	metre	1386.26
18.85.8	G.I Pipe 100mm dia	metre	1988.48
18.85.9	G.I Pipe 125mm dia	metre	2148.33
18.85.10	G.I Pipe 150mm dia	metre	2554.07
18.85.11	M.S flanged Pipe 65mm dia	metre	1697.04
18.85.12	M.S flanged Pipe 80mm dia	metre	1996.85
18.85.13	M.S flanged Pipe 100mm dia	metre	2696.38
18.85.14	M.S flanged Pipe 110mm dia	metre	3196.05
18.85.15	M.S flanged Pipe 125mm dia	metre	3795.65
18.85.16	M.S flanged Pipe 150mm dia	metre	4195.39
18.86	Providing and fixing of G.I fitting accessories complete :		

SI No.	Description of Item	Unit	Amount in Rs.
18.86.1	Gate valve 15mm dia (brass)	each	875.09
18.86.2	Gate valve 20mm dia (brass)	each	1059.32
18.86.3	Gate valve 25mm dia (brass)	each	1359.47
18.86.4	Gate valve 32mm dia (brass)	each	1523.13
18.86.5	Gate valve 40mm dia (brass)	each	2371.26
18.86.6	Gate valve 50mm dia (brass)	each	3746.30
18.86.7	Gate valve 63mm dia (brass)	each	6385.89
18.86.8	Bal valve 15mm dia (brass)	each	938.01
18.86.9	Bal valve 20mm dia (brass)	each	1138.01
18.86.10	Bal valve 25mm dia (brass)	each	1475.00
18.86.11	Bal valve 32mm dia (brass)	each	1675.00
18.86.12	Bal valve 40mm dia (brass)	each	2591.59
18.86.13	Bal valve 50mm dia (brass)	each	4403.91
18.86.14	Bal valve 63mm dia (brass)	each	6532.37
18.86.15	Bal valve 75mm dia (brass)	each	9713.85
18.86.16	Bal valve 80mm dia (brass)	each	13949.93
18.86.17	Bal valve 90mm dia (brass)	each	16078.39
18.86.18	Bal valve 100mm dia (brass)	each	19260.65
18.86.19	Bal valve 110mm dia (brass)	each	21389.12
18.86.20	Bal valve 125mm dia (brass)	each	23517.58
18.86.21	Bal valve 150mm dia (brass)	each	25119.14
18.86.22	NRV 65mm dia (brass)	each	9557.99
18.86.23	NRV 75mm dia (brass)	each	12725.00
18.86.24	NRV 80mm dia (brass)	each	15892.01
18.86.25	NRV 90mm dia (brass)	each	19059.02
18.86.26	NRV 100mm dia (brass)	each	23279.83
18.86.27	NRV 110mm dia (brass)	each	26446.84
18.86.28	NRV 125mm dia (brass)	each	28560.04
18.86.29	NRV 150mm dia (brass)	each	31727.05
18.86.30	Bib cock 15 mm dia (brass)	each	993.69
18.86.31	Bib cock 20 mm dia (brass)	each	1309.83
18.86.32	G.I Elbow 15mm dia	each	68.04
18.86.33	G.I Elbow 20mm dia	each	98.97
18.86.34	G.I Elbow 25mm dia	each	123.71
18.86.35	G.I Elbow 32mm dia	each	197.93
18.86.36	G.I Elbow 40mm dia	each	247.42
18.86.37	G.I Elbow 50mm dia	each	272.16
18.86.38	G.I Elbow 63mm dia	each	309.27
18.86.39	G.I Elbow 75mm dia	each	432.98
18.86.40	G.I Elbow 90mm dia	each	556.68
18.86.41	G.I Elbow 100mm dia	each	680.39
18.86.42	G.I Elbow 110mm dia	each	742.25
18.86.43	G.I Elbow 125mm dia	each	989.66
18.86.44	G.I Elbow 150mm dia	each	1237.08
18.86.45	G.I union 15mm dia	each	148.45
18.86.46	G.I union 20mm dia	each	190.60
18.86.47	G.I union 25mm dia	each	264.37
18.86.48	G.I union 32mm dia	each	348.67
18.86.49	G.I union 40mm dia	each	454.05
18.86.50	G.I union 50mm dia	each	559.43
18.86.51	G.I union 63mm dia	each	664.81
18.86.52	G.I union 75mm dia	each	770.19
18.86.53	G.I union 90mm dia	each	875.57

SI No.	Description of Item	Unit	Amount in Rs.
18.86.54	G.I union 100mm dia	each	980.95
18.86.55	G.I union 110mm dia	each	1086.33
18.86.56	G.I union 125mm dia	each	1297.09
18.86.57	G.I union 150mm dia	each	1613.24
18.86.58	G.I socket 15mm dia	each	64.67
18.86.59	G.I socket 20mm dia	each	97.00
18.86.60	G.I socket 25mm dia	each	122.86
18.86.61	G.I socket 32mm dia	each	194.00
18.86.62	G.I socket 40mm dia	each	232.80
18.86.63	G.I socket 50mm dia	each	258.66
18.86.64	G.I socket 63mm dia	each	297.46
18.86.65	G.I socket 75mm dia	each	426.79
18.86.66	G.I socket 90mm dia	each	556.12
18.86.67	G.I socket 100mm dia	each	685.45
18.86.68	G.I socket 110mm dia	each	750.12
18.86.69	G.I socket 125mm dia	each	1034.64
18.86.70	G.I socket 150mm dia	each	1293.31
18.86.71	G.I Tee 15mm dia	each	90.53
18.86.72	G.I Tee 20mm dia	each	142.26
18.86.73	G.I Tee 25mm dia	each	168.13
18.86.74	G.I Tee 32mm dia	each	232.80
18.86.75	G.I Tee 40mm dia	each	297.46
18.86.76	G.I Tee 50mm dia	each	323.33
18.86.77	G.I Tee 63mm dia	each	349.19
18.86.78	G.I Tee 75mm dia	each	387.99
18.86.79	G.I Tee 90mm dia	each	400.92
18.86.80	G.I Tee 100mm dia	each	439.72
18.86.81	G.I Tee 110mm dia	each	478.52
18.86.82	G.I Tee 125mm dia	each	581.99
18.86.83	G.I Tee 150mm dia	each	775.98
18.86.84	G.I Reducer 15x20mm dia	each	68.04
18.86.85	G.I Reducer 20x25mm dia	each	98.97
18.86.86	G.I Reducer 25x32mm dia	each	123.71
18.86.87	G.I Reducer 32x40mm dia	each	197.93
18.86.88	G.I Reducer 40x50mm dia	each	247.42
18.86.89	G.I Reducer 63x50mm dia	each	420.61
18.86.90	G.I Reducer 63x75mm dia	each	531.94
18.86.91	G.I Reducer 75x90mm dia	each	841.21
18.86.92	G.I Reducer 90x100mm dia	each	1298.93
18.86.93	Compression Copler 63mm dia	each	379.37
18.86.94	Compression Copler 75mm dia	each	545.34
18.86.95	Compression Copler 90mm dia	each	770.59
18.86.96	Compression Copler 110mm dia	each	1161.82
18.86.97	U-Clamp	each	1185.53
18.86.98	Nuts and Bolts	each	177.83
18.86.99	Washer/Gasket	each	94.84

SI No.	Description of Item	Unit	Amount in Rs.
18.87	Drilling of 125mm dia Hand Pump Well in collapsible strata conglomerate, boulders, gravel, pebbles, silt, clay, rock etc formation whatsoever encountered at site. The job envisages construction of Hand Pump Wells of an avg. depth of 60 Mtrs. below ground Level, or till the sufficient discharge of water is available from the bore hole by way of Drilling of 125mm Bore Holes using 115mm ODX method and exploration of underground potable water by tapping sufficient aquifer zones with simultaneously lowering of 125mm M.S/G.I. plain ended pipe duly chamfered and welded. The job includes all charges on account of cost of drilling/ accessories/ tools/ attachments/ bits/ POL's/ consumable/ labour etc with carriage of all materials upto site of work, including cost of suitable casing pipe (ISI marked steel tubes for water wells of hot types finished seamless (HFC) electric automatic fusion welded (HFC) resistance welded in length of 3Mtr with tolerance of +_ 10cm beveled casing 125mm dia nominal bore with 4.5mm thickness/shoe of adequate hardness. The job also includes development of drilled bore holes with Air Compressor of suitable capacity to clear the tapped water from all suspended impurities.		
18.87.1	Rocky strata including Boulders		
18.87.1.1	125 mm dia ODX Depth (Drilling Upto 60M Depth)	metre	7977.01
18.87.1.2	125 mm dia DTH Depth (Drilling beyond 60M Depth)	metre	5117.08
18.88	Shifting of machinery from one site to another site including construction of approach road if necessary at site.	each	73307.23
18.89	Providing, installation and successful commissioning of suitable submersible Pump set make of Crompton Graves head capacity 90Mtr Q=1.21 Lps. 1.2HP with electrical panel 240V. 50 cycle for single phase and safety cable wire 100Mtr including all necessary fittings items as per the direction of site Engineer incharge, including carriage complete.	each	240924.21

SI No.	Description of Item	Unit	Amount in Rs.
18.90	Design, Supply and installation testing and commissioning of 3HP dual solar submersible pump, (Grundfos or equivalent parameter specification and Properties) discharge of 2-5LPS and hhead of 96Mtr .Nominal operating cell temperature (NOCT : 45+/- 20 C), Temperature Co-efficient at NOCT (-0.286 to 0-4), Maximum power at NOCT, Maximum power at STC, Performance Ration (79% to 82%),Module Efficiency (21 or more), Required system peak output power (with module orientation-south) 400Wp or above, Capacity per module, Type of Module (Nano perc) Nmber of cels in each module (as per provide)., Certification Standards (Compliance as per specifications), Number of modules (as per provider), IP rating for Module (IP 67), Weight (Kg) and size (LXHXWmm) of each module (as per provider), IP rating for VFD and DB (IP 54 with additional enclosure/ IP 65), Solar Cell Material (Mono perc), Percentage of depreciation in performance (as per provder) Minimum ower generation)(____)KWh/sq.M/Dy, Product Warranty (Vendor to declare), PV Module (Minimum 12 years), VFD (minimum 2 Years), Installation Warranty (minimum 2 years), System Performance guarantee (minimum till break even) RIO/ Beak even (Years),TCO in INR (20 Years) (Indicate "-ve" for benefits), DP (Years), Note: Vendor shall be responsible for solar power generation, Solar PV modules, Stainless steel solar submersible pump and motor, Motor controller, GI Mounting structure set, DC cable as persite requirement, Cable AC as per site requirement, Safety rope as per diameter of pump, Chain pulley of 1 ton capacity. The job also include any other Civil/ Mech. item required to make the system functional.	1 Job	581645.67
18.91	Providing/ Drilling of 200mm dia bit using ODX method as per site condition up to the required depth in well collapsible strata /conglomerate boulder/gravel/clay /pebbles/rock etc whatever encounter in strata .including cost of casing pipe consumable store, bits, pol.etc with the system of simultaneously lowering of 200 mm dia ID casing of 8-10mm thickness which shall be welded together.complete as per the direction of Engiuneer-in charge.		
18.91.1	Rocky strata including Boulders		
18.91.1.1	200 mm dia ODX Depth (Drilling Upto 30M Depth)	Meter	8085.69
18.91.1.2	200 mm dia DTH Depth (Drilling 30 M Depth)	Meter	9579.83
18.92	Transportation of boring equipment /machines/tools and plants to the new site of bore works. Fixing of complete camp by way of erecting of equipment, machine, tools accessories, attachment, fixing of tents for labours and stacking of required material at bore site. The job also includes leveling of the ground drilling machines and other transportation of POL etc.	One set	35353.43
18.93	Development of bore well with compressor till sand free water is available and suitable strata established (at least 3 hours or till sand free clear water is available) complete.	One set	473928.09
18.94	Providing & fixing of suitable shoe 200mm dia having adequate thickness and carriage complete.	One set	2620.14

SI No.	Description of Item	Unit	Amount in Rs.
18.95	Providing, installation and successful commissioning of suitable submersible pump of 10-35HP rating 1500 LPH at 500mtr head make of crompton and greaves or KSB company with panel box 3 core 16sq-mm including water proofing cable 100mtr/safety cable 6mm thick 150mtr as per the requirement with carriage upto site of work complete job. The actual design job of pump will be provided after completion of bore well subject to availability of sufficient discharge.	1 Job	569301.45
18.96	Design, Supply and installation testing and commissioning of 10-15HP dual solar submersible pump, (Grundfos or equivalent parameter specification and Properties) discharge of 2-5LPS and hgead of 96Mtr .Nominal operating cell temperature (NOCT : 45+/- 20 C), Temperature Co-efficient at NOCT (-0.286 to 0-4), Maximum power at NOCT, Maximum power at STC, Performance Ration (79% to 82%),Module Efficiency (21 or more), Required system peak output power (with module orientation-south) 400Wp or above, Capacity per module, Type of Module (Nano perc) Nmber of cels in each module (as per provide)., Certification Standards (Compliance as per specifications), Number of modules (as per provider), IP rating for Module (IP 67), Weight (Kg) and size (LXHXWmm) of each module (as per provider), IP rating for VFD and DB (IP 54 with additional encloseure/ IP 65), Solar Cell Material (Mono perc), Percentage of depreciaition in performance (as per provder), Minimum ower generation)(____)KWh/sq.M/Dy, Product Warranty (Vendor to declare), PV Module (Minimum 12 years), VFD (minimum 2 Years), Installation Warranty (minimum 2 years), System Performance guarantee (minimum till break even) RIO/ Beak even (Years),TCO in INR (20 Years) (Indicate "-ve" for benefits), DP (Years), Note: Vendor shall be responsible for solar power generation, Solar PV modules, Stainless steel solar submersible pump and motor, Motor controller, GI Mounting structure set, DC cable as persite requirement, Cable AC as per site requirement, Safety rope as per diameter of pump, Chain pulley of 1 ton capacity. The job also include any other Civil/ Mech. item required to make the system functional.	1 Job	1536305.93

**SUB HEAD - 19.0
DRAINAGE**

SI No.	Description of Item	Unit	Amount in Rs.
19.1	Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :		
19.1.1	100 mm diameter	metre	487.35
19.1.2	150 mm diameter	metre	847.68
19.1.3	200 mm diameter	metre	1075.25
19.1.4	230 mm diameter	metre	1349.18
19.1.5	250 mm diameter	metre	1552.64
19.1.6	300 mm diameter	metre	1692.27
19.2	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design :		
19.2.1	100 mm diameter S. W. pipe	metre	903.16
19.2.2	150 mm diameter S.W, pipe	metre	1104.54
19.2.3	200 mm diameter S.W. pipe	metre	1287.61
19.2.4	230 mm diameter S.W, pipe	metre	1287.61
19.2.5	250 mm diameter S.W. pipe	metre	1488.99
19.3	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) upto haunches of S.W. pipes including bed concrete as per standard design :		
19.3.1	100 mm diameter S.W. pipe	metre	429.24
19.3.2	150 mm diameter S.W. pipe	metre	695.68
19.3.3	200 mm diameter S.W. pipe	metre	817.72
19.3.4	230 mm diameter S.W. pipe	metre	951.98
19.3.5	250 mm diameter S.W. pipe	metre	1098.44
19.3.6	300 mm diameter S.W. pipe	metre	1208.28
19.4	Providing and fixing square-mouth S.W. gully trap grade 'A' complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design :		
19.4.1	100x100 mm size P type		
19.4.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	3233.98
19.4.1.2	with Sewer bricks conforming to IS : 4888	each	2889.38
19.4.2	150 x 100 mm size P type.		
19.4.2.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	3398.56
19.4.2.2	With sewer bricks conforming to IS : 4885	each	3053.96
19.4.3	180x150 mm size P type		
19.4.3.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	3363.84
19.4.3.2	With Sewer bricks conforming to IS : 4885	each	3019.24

SI No.	Description of Item	Unit	Amount in Rs.
19.5	Dismantling of old S.W. pipes including breaking of joints and bed concrete stacking of useful materials near the site within 50 m lead and disposal of unserviceable materials into municipal dumps:		
19.5.1	100 mm diameter	metre	71.95
19.5.2	150 mm diameter	metre	79.57
19.5.3	200 mm diameter	metre	84.65
19.5.4	250 mm diameter	metre	89.73
19.5.5	300 mm diameter	metre	94.80
19.5.6	350 mm diameter	metre	109.19
19.5.7	400 mm diameter	metre	119.35
19.5.8	450 mm diameter	metre	124.43
19.6	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :		
19.6.1	100 mm dia. R.C.C. pipe	metre	727.40
19.6.2	150mm dia. R.C.C. pipe	metre	678.88
19.6.3	250 mm dia. R.C.C. pipe	metre	923.44
19.6.4	300 mm dia. R.C.C. pipe	metre	1038.08
19.6.5	450 mm dia. R.C.C. pipe	metre	1690.28
19.6.6	500 mm dia. R.C.C. pipe	metre	2008.09
19.6.7	600 mm dia. R.C.C. pipe	metre	2335.60
19.6.8	700 mm dia. R.C.C. pipe	metre	3179.38
19.6.9	800 mm dia. R.C.C. pipe	metre	3660.04
19.6.10	900 mm dia. R.C.C. pipe	metre	5024.77
19.6.11	1000 mm dia. R.C.C. pipe	metre	5800.70
19.6.12	1100 mm dia. R.C.C. pipe	metre	6509.21
19.6.13	1200 mm dia. R.C.C. pipe	metre	7299.92
19.6A	Providing and laying non-pressure NP2 class R.C.C. pipes with NP-3 spigot jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement: 2 fine sand) including testing of joints etc. complete :		
19.6A.1	450 mm dia. R.C.C. pipe	metre	2548.75
19.6A.2	600 mm dia. R.C.C. pipe	metre	2631.67
19.6A.3	900 mm dia. R.C.C. pipe	metre	5991.68
19.6A.4	1000 mm dia. R.C.C. pipe	metre	6860.84
19.6A.5	1200 mm dia. R.C.C. pipe	metre	9918.79
19.6A.6	1800 mm dia. R.C.C. pipe	metre	17686.20
19.6B	Providing and laying non-pressure NP2 class R.C.C. pipes with NP-3 spigot jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement: 2 fine sand) including testing of joints etc. complete :		
19.6B.1	450 mm dia. R.C.C. pipe	metre	3068.81
19.6B.2	600 mm dia. R.C.C. pipe	metre	3500.53
19.6B.3	900 mm dia. R.C.C. pipe	metre	8192.42
19.6B.4	1000 mm dia. R.C.C. pipe	metre	9872.83
19.6B.5	1200 mm dia. R.C.C. pipe	metre	11825.64
19.6B.6	1800 mm dia. R.C.C. pipe	metre	22801.35

SI No.	Description of Item	Unit	Amount in Rs.
19.7	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 coarse sand (zone- III) : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design :		
19.7.1	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :		
19.7.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	14981.41
19.7.1.2	With Sewer bricks conforming to IS : 4885	each	14080.14
19.7.2	Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (medium duty) 500 mm internal diameter, total weight of cover and frame to be not less than 116 kg (weight of cover 58 kg and weight of frame 58 kg) :		
19.7.2.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	35340.48
19.7.2.2	With Sewer bricks conforming to IS : 4885	each	29483.38
19.7.3	Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (heavy duty) 560 mm internal diameter, total weight of cover and frame to be not less than 208 kg (weight of cover 108 kg and weight of frame 100 kg)		
19.7.3.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	37406.92
19.7.3.2	With Sewer bricks conforming to IS : 4885	each	34761.48
19.8	Extra for depth for manholes		
19.8.1	Size 90x80 cm		
19.8.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	metre	11687.71
19.8.1.2	With Sewer bricks conforming to IS : 4885	metre	9063.44
19.8.2	Size 120x90 cm		
19.8.2.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	metre	14003.34
19.8.2.2	With Sewer bricks conforming to IS : 4885	metre	10875.42

SI No.	Description of Item	Unit	Amount in Rs.
19.9	Constructing brick masonry circular type manhole 0.91 m internal dia at bottom and 0.56m dia at top in cement mortar 1:4 (1 cement : 4 coarse sand), inside cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size), and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement, all complete as per standard design :		
19.9.1	0.91 m deep with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560 mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182 kg., fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete. (Excavation, foot rests and 12mm thick cement plaster at the external surface shall be paid for separately) :		
19.9.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	15421.58
19.9.1.2	With Sewer bricks conforming to IS : 4885		13943.52
19.10	Extra depth for circular type manhole 0.91m internal dia (at bottom) beyond 0.91m to 1.67m		
19.10.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	metre	10018.14
19.10.2	With Sewer bricks conforming IS : 4885	metre	7820.78
19.11	Constructing brick masonry circular manhole 1.22 m internal dia at bottom and 0.56 m dia at top in cement mortar 1:4 (1 cement :4 coarse sand) inside cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement foundation concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement, all complete as per standard design :		
19.11.1	1.68 m deep with SFRC Cover and frame (heavy duty HD-20 grade designation) 560 mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182 kg. fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete. (Excavation, foot rests and 12 mm thick cement plaster at the external surface shall be paid for separately) :		
19.11.1.1	With F.P.S. bricks class designation 78	each	30035.41
19.11.1.2	With Sewer bricks conforming IS : 4885	each	26497.93
19.12	Extra depth for circular type manhole 1.22m internal dia (at bottom) beyond 1.68 m to 2.29 m :		
19.12.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	metre	13009.97
19.12.2	With Sewer bricks conforming IS : 4885	metre	10141.91

SI No.	Description of Item	Unit	Amount in Rs.
19.13	Constructing brick masonry circular manhole 1.52 m internal dia at bottom and 0.56 m dia at top in cement mortar 1:4 (1 cement : 4 coarse sand) inside cement plaster 12mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm = nominal size) and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement all complete as per standard design :		
19.13.1	2.30m deep with SFRC Cover and frame (heavy duty HD-20 grade designation) 560mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182 kg. fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) including centering shuttering all complete. (Excavation, foot rests and 12 mm thick cement plaster at the external surface shall be paid for separately):		
19.131.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	65784.91
19.13.1.2	With Sewer bricks conforming IS : 4885	each	55883.75
19.14	Extra depth for circular type manhole 1.52 m internal dia (at bottom) beyond 2.30 m:		
19.14.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	metre	30656.97
19.14.2	With Sewer bricks conforming IS : 4885	metre	23240.42
19.15	Providing M.S. foot rests including fixing in manholes with 20x20x10 cm cement concrete blocks 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) as per standard design :		
19.15.1	With 20x20 mm square bar	each	577.62
19.15.2	With 20 mm diameter round bar	each	488.85
19.16	Providing orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS : 10910 on 12mm dia steel bar conforming to IS : 1786 having minimum cross section as 23 mmx25mm and over all minimum length 263 mm and width as 165mm with minimum 112 mm space between protruded legs having 2 mm tread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail length on 138 mm as per standard drawing and suitable to with stand the bend test and chemical resistance test as per specifications and having manufacture's permanent identification mark to be visible even after fixing, including fixing in manholes with 30x20x15 cm cement concrete block 1:3:6 (1 cement: 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) complete as per design.	each	581.35
19.17	Replacement of M.S. foot rests in manholes including dismantling concrete blocks and fixing with 20x20x10 cm cement concrete blocks 1:3:6 (1 cement: 3 coarse sand : 6 graded stone aggregate 20 mm nominal size):		
19.17.1	With 20x20 mm square bar	each	650.22

SI No.	Description of Item	Unit	Amount in Rs.
19.17.2	With 20 mm diameter round bar	each	561.44
19.18	Supplying and fixing C.I. cover without frame for manholes :		
19.18.1	455x610 mm rectangular C.I. cover (light duty)the weight of the cover to be not less than 23 kg.	each	2094.21
19.18.2	500 mm diameter C.I. cover (medium duty) the weight of the cover to be not less than 58 kg.	each	6624.43
19.18.3	560 mm diameter C.I. cover (heavy duty) the weight of the cover to be not less than 108 kg.	each	8305.25
19.19	Providing and fixing in position precast R.C.C. manhole cover and frame of required shape and approved quality		
19.19.1	L D-2.5		
19.19.1.1	Rectangular shape 600x450mm internal dimensions	each	1630.31
19.19.1.2	Square shape 450mm internal dimensions	each	1442.09
19.19.1.3	Circular shape 450mm internal diameter	each	1442.09
19.19.2	MD- 10		
19.19.2.1	Square shape 450 mm internal dimension	each	1720.76
19.19.2.2	Circular shape 500mm internal diameter	each	1454.30
19.19.3	HD-20		
19.19.3.1	Circular shape 560 mm internal diameter	each	2066.18
19.19.4	EHD - 35		
19.19.4.1	Circular shape 560 mm internal dia.	each	2606.07
19.20	Supplying and fixing C.I. cover 300x300 mm without frame for gully trap (standard pattern) the weight of cover to be not less than 4.5 kg	each	875.31
19.21	Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement: 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement and making necessary channels for the drain etc. complete :		
19.21.1	For pipes 100 to 250 mm diameter	each	798.12
19.21.2	For pipes 250 to 300 mm diameter	each	928.91
19.21.3	For pipes 350 to 450 mm diameter	each	1349.87

SI No.	Description of Item	Unit	Amount in Rs.
19.22	Providing sand cast iron drop connection externally for 60 cm drop from branch sewer line to main sewer manhole including inspection and cleaning eye with chain and lid, sand cast iron drop pipe and bend encased all-round with cement concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) with all centering and shuttering required, cutting holes in walls and making good with brick work in cement mortar 1:4 (1 cement : 4 coarse sand) plastered with cement mortar 1:3 (1 cement : 3 coarse sand) on inside of the manhole wall, lead caulked joints between sand cast iron pipes and fittings, stiff cement mortar 1:1 (1 cement : 1 fine sand) joints between sand cast iron tee and S.W. pipe, making required channels complete as per standard design and specifications :		
19.22.1	100 mm dia sand cast iron drop connection	each	12489.07
19.22.2	150 mm dia. sand cast iron drop connection	each	17384.27
19.23	Extra for depths beyond 60 cm of sand cast iron drop connection complete :		
19.23.1	For 100 mm dia. sand cast iron drop connection	each	3297.98
19.23.2	For 150 mm dia. sand cast iron drop connection	each	4946.74
19.24	Dismantling of manhole including R.C.C. top slab, C.I. cover with frame, including stacking of useful materials near the site and disposal of unserviceable materials within 50 m lead as per direction of Engineer-in-charge:		
19.24.1	Rectangular manhole 90x80 cm and 45 cm deep	each	2068.60
19.24.2	Rectangular manhole 120x90 cm and 90 cm deep	each	3636.21
19.24.3	Rectangular arch type manhole 140x90cm and 2.45m deep.	each	6878.91
19.24.4	Circular manhole 122 cm diameter and 1.68 m deep.	each	5266.03
19.25	Extra for depth of manholes dismantled:		
19.25.1	Rectangular manhole 90x80 cm and 45 cm deep	metre	1659.18
19.25.2	Rectangular manhole 120x90 cm and 90 cm deep	metre	1976.24
19.25.3	Rectangular arch type manhole 140x90 cm and beyond 2.45 m depth (up to 4.25 m depth)	metre	1526.07
19.25.4	Circular manhole 122 cm diameter and beyond 1.68 m depth (up to 2.29 m depth)	metre	1805.72
19.26	Raising manhole cover and frame slab to required level including dismantling existing slab and making good the damage as required (Raising depth of manhole to be paid separately):		
19.26.1	Rectangular manhole 90x80 cm with rectangular cover 600 x 450 mm of grade LD -	each	3279.96
19.26.2	Rectangular manhole 120x90 cm with circular cover 500 mm dia of grade MD - 10	each	5152.95
19.26.3	Rectangular manhole 120x90 cm with circular cover 560 mm dia of grade HD - 20	each	4793.39
19.26.4	Circular manhole 140 cm dia with circular cover 600 mm dia of grade EHD - 35	each	396.71
19.27	Constructing brick masonry road gully chamber 50x45x60 cm with bricks of class designation 75 in cement mortar 1:4 (1 cement : 4 coarse sand) including 500x450 mm precast R.C.C. horizontal grating with frame complete as per standard design :		
19.27.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	7238.52

SI No.	Description of Item	Unit	Amount in Rs.
19.28	Constructing brick masonry road gully chamber 45x45x77.5 cm with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) with precast R.C.C. vertical grating complete as per standard design :		
19.28.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	8444.53
19.29	Constructing brick masonry road gully chamber 110x50x77.5 cm with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) including 500x450 mm precast R.C.C. horizontal grating with frame and vertical grating complete as per standard design :		
19.29.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Cost of one chamber	13698.57
19.30	Constructing brick masonry chamber for underground C.I. inspection chamber and bends with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg), R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 fine sand : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand), finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design:		
19.30.1	Inside dimensions 455x610 mm and 45 cm deep for single pipe line :		
19.30.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5		8199.53
19.30.2	Inside dimensions 500x700 mm and 45 cm deep for pipe line with one or two inlets :		
19.30.2.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	9435.23
19.30.3	Inside dimensions 600x 850 mm and 45 cm deep for pipe line with three or more inlets :		
19.30.3.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	11125.22
19.31	Extra for depth beyond 45 cm of brick masonry chamber :		
19.31.1	For 455x610 mm size		
19.31.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	metre	8129.26
19.31.2	For 500x700 mm size		
19.31.2.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	metre	8869.05
19.31.3	For 600x850 mm size		
19.31.3.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	metre	10328.96

SI No.	Description of Item	Unit	Amount in Rs.
19.32	Making soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry brick honey comb shaft with bricks and S.W. drain pipe 100 mm diameter, 1.8 m long complete as per standard design.		
19.32.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	31998.03
19.33	Constructing soak pit 1.20x1.20x1.20 m filled with brickbats including S.W. drain pipe 100 mm diameter and 1.20 m long complete as per standard design.	each	3633.03
19.34	Providing and fixing S.W. intercepting trap in manholes with stiff mixture of cement mortar 1:1 (1cement : 1 fine sand) including testing of joints etc. complete :		
19.34.1	100 mm dia	each	508.77
19.34.2	150 mm dia	each	671.57
19.35	Providing and laying Non Pressure NP-3 class (Medium duty) R.C.C. pipes including collars/spigot jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete		
19.35.1	450 mm dia. R.C.C. pipe	metre	2695.67
19.35.2	600 mm dia. R.C.C. pipes	metre	3198.41
19.35.3	900 mm dia RCC pipes.	metre	5005.31
19.35.4	1000 mm dia RCC pipes. (Laying by manual/ machanical means)	metre	5887.74
19.35.5	1200 mm dia RCC pipes. (Laying by manual/ machanical means)	metre	9243.17
19.35.6	1800 mm dia RCC pipes. (Laying by manual/ machanical means)	metre	16738.97
19.36	Providing and laying Non Pressure NP-4 class (Heavy duty) R.C.C. pipes including collars/spigot jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete		
19.36.1	450 mm dia RCC pipes.	metre	3129.29
19.36.2	600 mm dia RCC pipes.	metre	4225.69
19.36.3	900 mm dia RCC pipes.	metre	7723.12
19.36.4	1000 mm dia RCC pipes. (Laying by manual/ machanical means)	metre	9592.29
19.36.5	1200 mm dia RCC pipes. (Laying by manual/ machanical means)	metre	11465.90
19.36.6	1800 mm dia RCC pipes. (Laying by manual/ machanical means)	metre	23499.34

**SUB HEAD - 20.0
PILE WORK**

SI No.	Description of Item	Unit	Amount in Rs.
20.1	Providing, driving and installing driven cast-in-situ reinforced cement concrete piles of specified diameter and length below the pile cap M 25 in cement concrete, to carry safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of shoe and the length of pile to be embedded in the pile cap etc. all complete. (Length of pile for payment shall be measured from top of shoe to the bottom of pile cap):		
20.1.1	400 mm dia piles	metre	2933.24
20.1.2	450 mm dia piles	metre	3620.78
20.1.3	500 mm dia piles	metre	4399.96
20.1.4	550 mm dia piles	metre	4828.36
20.1.5	750 mm dia piles.	metre	8306.92
20.1.6	1000 mm dia piles.	metre	13908.65
20.1.7	1200 mm dia piles.	metre	18236.98
20.1.8	1500 mm dia piles.	metre	26128.38
20.2	Boring, providing and installing bored cast-in-situ reinforced cement concrete pile of specified diameter and length below the pile cap M 25 in cement concrete, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with, bentonite solution and temporary casing of appropriate length for setting out and removal of same and the length of the pile to be embedded in the pile cap etc. all complete, including removal of excavated earth with all lifts and leads (Length of pile for payment shall be measured upto bottom of pile cap).		
20.2.1	300 mm dia piles	metre	1421.54
20.2.2	450 mm dia piles	metre	2452.48
20.2.3	500 mm dia piles	metre	3084.12
20.2.4	550 mm dia. piles	metre	3299.53
20.2.5	600 mm dia piles	metre	4007.23
20.2.6	750 mm dia piles	metre	6167.66
20.2.7	1000 mm dia piles	metre	10908.28
20.2.8	1200 mm dia piles	metre	15332.00
20.2.9	1500 mm dia piles	metre	22967.53
20.3	Boring, Providing and installing cast in situ single under reamed piles of specified diameter and length below pile cap in M 25 cement concrete, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and the length of the pile to be embedded in pile cap etc. all complete. (Length of pile for payment shall be measured upto the bottom of pile cap):		
20.3.1	300 mm dia piles.	metre	3103.41
20.3.2	400 mm dia piles	metre	3881.26
20.3.3	450 mm dia piles	metre	4346.10
20.3.4	550 mm dia piles	metre	4906.49

SI No.	Description of Item	Unit	Amount in Rs.
20.4	Extra over item No. 20.3 for providing additional bulb in under reamed piles, under specified diametre (Only the quantity of extra bulbs are to be paid).		
20.4.1	300mm dia piles.	each	2384.03
20.4.2	400mm dia piles.	each	2733.34
20.4.3	450 mm dia piles.	each	2943.95
20.4.4	550 mm dia piles.	each	3250.84
20.5	Providing, driving and installing driven Pre-cast reinforced cement concrete piles of specified diametre and length below the pile cap in M 25 cement concrete to carry safe working load not less than specified. With a central through preformed hole with M.S. black pipe of dia 40mm for grouting with cement sand grouting of mix 1:2(1 cement: 2 coarse sand) under sufficient positive pressure to ensure complete filling including centring, shuttering, driving and removing the steel casing pipe and lifting casing etc. complete but excluding the cost of steel reinforcement. (Length of pile for payment shall be measured from top of the shoe to the bottom of pile cap).		
20.5.1	400 mm dia piles.	metre	4142.82
20.5.2	450 mm dia piles.	metre	5178.21
20.5.3	500 mm dia piles.	metre	5505.31
20.5.4	550 mm dia piles.	metre	6299.69
20.5.5	750 mm dia piles.	metre	12202.17
20.5.6	1000 mm dia piles.	metre	16843.28
20.6	Vertical load testing of piles in accordance with IS 2911 (Part IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & the direction of Engineer in-charge.		
20.6.1	Single pile upto 50 tonne capacity		
20.6.1.1	Initial test (Test Load 2.5 times the Safe capacity)	per test	186595.57
20.6.1.2	Routine test (Test Load 1.5 times the Safe capacity)	per test	205255.44
20.6.2	Single pile above 50 tonne and upto 100 tonne Safe capacity		
20.6.2.1	Initial test (Test Load 2.5 times the Safe capacity)	per test	282276.70
20.6.2.2	Routine test (Test Load 1.5 times the Safe capacity)	per test	310504.37
20.6.3	Group of two or more piles upto 50 tonne Safe capacity		
20.6.3.1	Initial test (Test Load 2.5 times the Safe capacity)	per test	312929.97
20.6.3.2	Routine test (Test Load 1.5 times the Safe capacity)	per test	344223.28
20.7	Cyclic vertical load testing of pile in accordance with IS Code of practice IS : 2911 (part IV) including preparation of pile head etc for.		
20.7.1	Single pile.		
20.7.1.1	Upto 50 tonne capacity pile.	per test	205255.44
20.7.1.2	Above 50 tonne and upto 100 tonne Safe capacity pile	per test	310504.37
20.7.2	Group of two or more piles		
20.7.2.1	Upto 400 tonne Safe capacity of group	per test	344223.28

SI No.	Description of Item	Unit	Amount in Rs.
20.8	Lateral load testing of single pile in accordance with IS Code of practice IS : 2911 (Part IV) for determining safe allowable lateral load on pile :		
20.8.1	Upto 50 tonne capacity pile.	per test	86390.32
20.8.2	Above 50 tonne and upto 100 tonne capacity pile	per test	97527.71

**SUB HEAD - 21.0
ALUMINIUM WORK**

SI No.	Description of Item	Unit	Amount in Rs.
21.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS : 1285, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and panelling to be paid for separately):		
21.1.1	For fixed portion.		
21.1.1.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	Kg	677.74
21.1.1.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	Kg	601.92
21.1.1.3	Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)	Kg	611.77
21.1.2	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)		
21.1.2.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	Kg	676.09
21.1.2.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	Kg	714.64
21.1.2.3	Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)	Kg	724.70
21.2	Providing and fixing 12mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade 1 Type II in panelling fixed in aluminium doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge.		
21.2.1	Pre-laminated particle board with decorative lamination on one side and balancing lamination on other side.	Sqm	1120.86
21.2.2	Prelaminated particle board with decorative lamination on both sides.	Sqm	1232.89
21.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):		
21.3.1	With float glass panes of 4.0 mm thickness (weight not less than 10kg/sqm)	Sqm	1650.05

SI No.	Description of Item	Unit	Amount in Rs.
21.3.2	With float glass panes of 5.50 mm thickness	Sqm	1921.21
21.3.3	With float glass panes of 8 mm thickness	Sqm	1653.61
21.4	Providing and fixing double action hydraulic floor spring of approved brand and manufacture IS : 6315 marked, for doors including cost of cutting floors as required, embedding in floors and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charges.		
21.4.1	With stainless steel cover plate	each	2849.92
21.4.2	With brass cover plate minimum 1.25 mm thickness	each	3037.71
21.5	Providing and fixing powder coated aluminium work (minimum thickness of powder coating 50 micron) consisting of tee/ angle sections, of approved make conforming to IS : 733 in frames of false ceiling including aluminium angle cleats with necessary C.P. brass/ stainless steel sunk screws, aluminium perimeter angles fixed to wall with rawl plugs @ 450 mm centre to centre and fixing the frame work to G.I. level adjusting hangers 6«mm dia. with necessary cadmium plated machine screws all complete as per approved architectural drawings and direction of the Engineer-in-charge (level adjusting hangers, ceiling cleats and expansion hold fasteners to be paid for separately).	Kg	822.55
21.6	Providing and fixing 6 mm dia. G.I. level adjusting hangers (upto 1200mm length) fixed to roof slabs by means of ceiling cleats made out of G.I. flat 40x3mm size 60mm long and expansion hold fasteners 12.5 mm dia. 40mm long complete as per direction of Engineer -in-charge.	each	82.77
21.7	Providing and fixing machine moulded aluminium covering of approved pattern & design, made out of machine cut aluminium sheet and machine holed for receiving screws, over expansion joints on vertical surfaces/ceilings with full threaded, cadmium plated steel screws 4mm dia. stem, 30mm long and aluminium washers 2mm thick, 15mm dia. at a staggered pitch of 200mm centre to centre including drilling holes in the receiving surface and providing expandable plastic sleeves in holes etc. complete.		
21.7.1	Anodised aluminium sheet 2.5mm thick (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	Kg	792.57
21.7.2	Powder coated aluminium sheet 2.5mm thick (minimum thickness of powder coating 50 micron)	Kg	830.36
21.8	Filling the gap in between aluminium frame & adjacent RCC/ Brick/ Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete.		
21.8.1	Upto 5mm depth and 5 mm width	metre	128.92
21.9	Extra for applying additional anodic coating AC 25 instead of AC 15 to aluminium extruded sections.		
21.9.1	For fixed portion	Kg	15.65

SI No.	Description of Item	Unit	Amount in Rs.
21.9.2	For shutters of doors, windows & ventilators.	Kg	15.65
21.10	Providing and fixing double glazed hermetically sealed glazing in aluminium windows, ventilators and partition etc. with 6 mm thick clear float glass both side having 12 mm air gap including providing EPDM gasket, perforated aluminium spacers, desiccants, silicon sealant (Both primary and secondary sealant) etc. as per specifications, drawings and direction of Engineer-in-charge complete.	Sqm	6926.91
21.11	Providing and fixing stainless steel (SS-304 grade) adjustable friction windows stays of approved quality with necessary stainless steel screws etc. to the side hung windows as per direction of Engineer-in-charge complete.		
21.11.1	205X19mm	each	456.47
21.11.2	255X19mm	each	408.10
21.11.3	355X19 mm	each	499.15
21.11.4	510X19mm	each	814.36
21.11.5	710X19mm	each	1375.49
21.12	Providing and fixing aluminium tubular handle bar 32 mm outer dia, 3.0 mm thick & 2100 mm long with SS screws etc .complete as per direction of Engineer-in-Charge.		
21.12.1	Anodized (AC 15) aluminium tubular handle bar	each	700.88
21.12.2	Powder coated minimum thickness 50 micron aluminium tubular handle bar.	each	759.69
21.12.3	Polyester powder coated minimum thickness 50 micron aluminium tubular handle bar	each	775.03
21.13	Providing and fixing 100mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	each	535.37
21.14	Providing and fixing anodised aluminium (anodised transparent or dyed to required shade according to IS : 1868. Minimum anodic coating of grade AC 15) sub frame work for windows and ventilators with extruded built up standard tubular sections of approved make conforming to IS: 733 and IS : 1285 fixed with rawl plugs and stainless steel screws etc.	Kg	482.95
21.15	Providing and fixing aluminium casement windows fastener of required length for aluminium windows with necessary screws etc. complete.		
21.15.1	Anodized(AC 15) aluminium	each	89.75
21.15.2	Powder coated minimum thickness 50 micron aluminium.	each	89.75
21.15.3	Polyester powder coated minimum thickness 50 micron aluminium .	each	97.58
21.16	Providing and fixing aluminium round shape handle of outer dia 100mm with SS screws etc. Complete as per direction of Engineer-in-charge		
21.16.1	Anodized (AC 15) aluminium	each	105.40
21.16.2	Powder coated minimum thickness 50 micron aluminium.	each	113.23

SUB HEAD - 21.0 ALUMINIUM WORK

SI No.	Description of Item	Unit	Amount in Rs.
21.16.3	Polyester powder coated minimum thickness 50 micron aluminium .	each	113.23
21.17	Providing and fixing anodised aluminium grill (anodised transparent or dyed to required shade according to IS: 1868 with minimum anodic coating of grade AC 15) of approved design/pattern, with approved standard section and fixed to the existing window frame with C.P. brass/ stainless steel screws @ 200 mm centre to centre, including cutting the grill to proper opening size for fixing and operation of handles and fixing approved anodised aluminium standard section around the opening, all complete as per requirement and direction of Engineerin- charge. (Only weight of grill to be measured for payment).	kg	561.16
21.18	Providing and fixing 12 mm thick frameless toughened glass door shutter of approved brand and manufacture, including providing and fixing top & bottom pivot & double acting hydraulic floor spring type fixing arrangement and making necessary holes etc. for fixing required door fittings, all complete as per direction of Engineer-in-charge (Door handle, lock and stopper etc.to be paid separately).	sqm	5277.85
21.19	Filling the gap in between aluminium/ stone/ wood frame and adjacent RCC/ Brick/ Stone/ wood/ Ceramic/ Gypsum work by providing weather/structural non sag elastomeric PU sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete, complying to ASTM C920, DIN 18540-F & ISO 11600		
21.19.1	Upto 5 mm depth and 5 mm width	metre	168.61
21.19.2	Upto 10 mm depth and 10 mm width	metre	226.50
21.19.3	Upto 20 mm depth and 20 mm width	metre	406.35

**SUB HEAD - 22.0
WATER PROOFING**

SI No.	Description of Item	Unit	Amount in Rs.
22.1	Providing and laying integral cement based treatment for water proofing on horizontal surface at all depth below ground level for under ground structures as directed by Engineer-in-Charge and consisting of : (i) 1st layer of 22mm to 25mm thick approved and specified rough stone slab over a 25mm thick base of cement mortar 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound conforming to IS:2645 in the recommended proportion over the levelling course (levelling course to be paid separately). Joints sealed and grouted with cement slurry mixed with water proofing compound . ii) 2nd layer of 25mm thick cement mortar 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound in recommended proportions. iii) Finishing top with stone aggregate of 10mm to 12mm nominal size spreading @ 8 cudm/sqm thoroughly embedded in the 2nd layer.		
22.1.1	Using rough kota stone.	sqm	2621.77
22.2	Providing and laying integral cement based treatment for water proofing on the vertical surface by fixing specified stone slab 22 mm to 25mm thick with cement slurry mixed with water proofing compound conforming to IS:2645 in recommended proportions with a gap of 20mm (minimum) between stone slabs and the receiving surfaces and filling the gaps with neat cement slurry mixed with water proofing compound and finishing the exterior of stone slab with cement mortar 1:3 (1 cement : 3 coarse sand) 20mm thick with neat cement punning mixed with water proofing compound in recommended proportion complete at all levels and as directed by Engineer-in-charge :		
22.2.1	Using rough Kota stone	sqm	3139.81
22.3	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of : (i) Ist course of applying cement slurry @ 4.4 Kg/sqm mixed with water proofing compound conforming to IS 2645 in recommended proportions including rounding off junction of vertical and horizontal surface. (ii) IInd course of 20mm cement plaster 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface. (iii) III rd course of applying blown or residual bitumen applied hot at 1.7 Kg. per sqm of area. (iv) IVth course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 Kg/sqm.)	sqm	904.95

SI No.	Description of Item	Unit	Amount in Rs.
22.4	Providing and Placing in position suitable PVC water stops conforming to IS: 12200 for construction/expansion joints between two RCC members and fixed to the reinforcement with binding wire before pouring concrete etc. complete :		
22.4.1	Serrated with central bulb (225mm wide, 8-11mm thick).	metre	330.93
22.4.2	Dumb bell with central bulb (180 mm wide, 8 mm thick)	metre	268.33
22.4.3	Kickers (320mm wide, 5mm thick).	metre	268.33
22.5	<p>Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying :</p> <p>(a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. This layer will be allowed to air cure for 4 hours</p> <p>(b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours.</p> <p>The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.</p>	sqm	594.96
22.6	<p>Providing and laying water proofing treatment on roofs of slabs by applying cement slurry mixed with water proofing cement compound consisting of applying :</p> <p>(a) after surface preparation, first layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm.</p> <p>(b) laying second layer of Fibre glass cloth when the first layer is still green. Overlaps of joints of fibre cloth should not be less than 10 cm.</p> <p>(c) third layer of 1.5 mm thickness consisting of slurry of cement @ 1.289 kg/sqm mixed with water proofing cement compound @ 0.670 kg/sqm and coarse sand @ 1.289 kg/sqm. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be taken upto 30cm on parapet wall and tucked into groove in parapet all around.</p> <p>(d) fourth and final layer of brick tiling with cement mortar (which will be paid for separately For the purpose of measurement the entire treated surface will be measured.</p>	sqm	684.40

SI No.	Description of Item	Unit	Amount in Rs.
22.7	<p>Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations:</p> <p>(a) Applying a slurry coat of neat cement using 2.75 kg/sqm. of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300mm height including cleaning the surface before treatment.</p> <p>(b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand)</p> <p>admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs</p> <p>(c) After two days of proper curing applying a second coat of cement slurry using 2.75kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge.</p> <p>(d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3mm deep.</p> <p>(e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. All above operations to be done in order and as directed and specified by the Engineer-in-Charge :</p>		
22.7.1	With average thickness of 120mm and minimum thickness at khurra as 65 mm.	sqm	1843.44
22.8	Providing and laying four courses water proofing treatment with bitumen felt over roofs consisting of first and third courses of blown bitumen 85/25 or 90/15 conforming to IS : 702 applied hot @ 1.45 Kg per square metre of area for each course, second course of roofing felt type 3 grade-I (Hessian based self finished bitumen" felt) and fourth and final course of stone grit 6mm and down size or pea-sized gravel spread at 6 cubic diameter per square metre including preparation of surface but excluding grading complete with :		
22.8.1	Bitumen felt (Hessian base) type 3 grade I conforming to IS : 1322.	sqm	498.61
22.9	Providing and laying six courses water proofing treatment with bitumen felt over roofs consisting of first, third and fifth course of blown bitumen 85/25 or 90/15 conforming to IS : 702 applied hot @ 1.45, 1.20 and 1.45 Kg per square metre of area respectively, second and fourth courses of roofing felt type 3 grade I conforming to IS : 1322 (Hessian based self finished bitumen felt) conforming to IS : 1322 and sixth and final course of stone grit 6 mm and down size or pea sized gravel spread at 6 cubic dm per sqm including preparation of surface but excluding grading, complete.	sqm	772.36

SI No.	Description of Item	Unit	Amount in Rs.
22.10	Providing and laying six courses water proofing treatment with bitumen felt over roofs consisting of first, third and fifth courses of blown or / and residual bitumen applied hot at 1.45, 1.20 and 1.70 kg per square metre of area respectively, second and fourth courses of roofing felt type 2 grade I (fibre base self finished bitumen felt) six and final courses of stone grit 6mm and down size or pea sized gravel spread at 6cu.dm per sqm including preparation of surface, excluding grading complete.	sqm	881.47
22.11	Providing and laying six courses water proofing treatment with bitumen felt over roofs consisting of first, third and fifth courses of blown or / and residual bitumen applied hot at 1.45, 1.20 and 1.70 kg per square metre of area respectively, second and fourth courses of roofing felt type 2 grade II (glass fibre base self finished bitumen felt) and sixth and final course of stone grit 6mm and down size or pea sized gravel spread at 6 cubic dm per sqm including preparation of surface but excluding grading, complete.	sqm	881.47
22.12	Supplying and applying bituminous solution primer on roof and or wall surface at 0.24 litre per sqm.	sqm	60.95
22.13	Deduct for omitting in water proofing treatment final course of spreading stone grit 6mm or down size or pea sized gravel:		
22.13.1	At 6 cudm per sqm.	sqm	20.05
22.13.2	At 8 cudm per sqm.	sqm	25.12
22.14	Grading roof for water proofing treatment with		
22.14.1	Cement concrete 1:2:4 (1 cement: 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	cum	9610.36
22.14.2	Cement mortar 1:3(1 cement: 3 coarse sand)	cum	18227.31
22.14.3	Cement mortar 1:4 (1cement: 4 coarse sand)	cum	16078.51
22.15	Providing and laying in situ seven course water proofing treatment with APP (Atactic poly-propylene) modified Polymeric membrane over roof consisting of first coat of bitumen primer @ 0.40Kg per sqm, 2nd, 4th & 6th courses of bonding material @1.20 Kg/sqm, which shall consist of blown type bitumen of grade 85/25 conforming to IS : 702, 3rd and 5th layers of roofing membrane APP modified Polymeric membrane 1.5mm thick of 2.25 Kg/sqm weight consisting of five layers prefabricated with centre core as 20micron HMHDPE film sandwiched on both sides with polymeric mix and the polymeric mix is protected on both side with 20micron HMHDPE film. 7th, the top most layer shall be finished with brick tiles of class designation 100 grouted with cement mortar 1:3 (1cement:3 fine sand) mixed with 2% integral water proofing compound by weight of cement over a 12mm layer of cement mortar 1:3 (1 cement: 3 fine sand) and finished neat which shall be paid for separately as per DSR Item No. 12.19.	sqm	730.30

SI No.	Description of Item	Unit	Amount in Rs.
22.16	<p>Providing and laying in situ five course water proofing treatment with APP (Atactic Polypropylene) modified Polymeric membrane over roof consisting of first coat of bitumen primer @ 0.40Kg per sqm, 2nd & 4th courses of bonding material @ 1.20 Kg/sqm, which shall consist of blown type bitumen of grade 85/25 conforming to IS: 702, 3rd layer of roofing membrane APP modified Polymeric membrane 2.0mm thick of 3.00 Kg/sqm weight consisting of five layers prefabricated with centre core as 100micron HMHDPE film sandwiched on both sides with polymeric mix and the polymeric mix is protected on both side with 20micron HMHDPE film. 5th, the top most layer shall be finished with brick tiles of class designation 100 grouted with cement mortar 1:3 (1 cement: 3 fine sand) mixed with 2% integral water proofing compound by weight of cement over a 12mm layer of cement mortar 1:3 (1 cement : 3 fine sand) and finished neat which shall be paid for separately as per DSR Item No. 12.19.</p>	sqm	541.25
22.17	<p>Providing and laying in situ seven course water proofing treatment with APP (Atactic Polypropylene) modified Polymeric membrane over roof consisting of first coat of bitumen primer @ 0.40Kg per sqm, 2nd, 4th & 6th courses of bonding material @ 1.20 Kg/sqm, which shall consist of blown type bitumen of grade 85/25 conforming to IS : 702, 3rd and 5th layers of roofing membrane APP modified Polymeric membrane 2.0mm thick of 3.00 Kg/sqm weight consisting of five layers prefabricated with centre core as 1 00micron HMHDPE film sandwiched on both sides with polymeric mix and the polymeric mix is protected on both side with 20micron HMHDPE film. 7th, the top most layer shall be finished with brick tiles of class designation 100 grouted with cement mortar 1:3 (1 cement: 3 fine sand) mixed with 2% integral water proofing compound by weight of cement over a 12 mm layer of cement mortar 1:3 (1 cement: 3 fine sand) and finished neat which shall be paid for separately as per DSR Item No. 12.19.</p>	sqm	868.01
22.18	<p>Providing and fixing APP (Atactic Polypropylene Polymer) modified prefabricated five layer 2mm thick water proofing membrane, black finished reinforced with glass fibre matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 ltr/ sq. mt. by the same membrane manufacturer of density at 25°C, 0.87 - 0.89 kg/ ltr and viscosity 70 - 160 cps. Over the primer coat the layer of membrane shall be laid using Butane torch and sealing all joints etc., and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 350/300 N/ 5cm. Tear strength in longitudinal and transverse direction as 60/80N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane.</p>		
22.18.1	2mm (for corrugated roof sheets)	sqm	489.63

SI No.	Description of Item	Unit	Amount in Rs.
22.19	Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer, 3mm thick water proofing membrane, black finished reinforced with glass fibre matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 ltr/ sqm. by the same membrane manufacturer of density at 25°C, 0.87 - 0.89 kg/ltr and viscosity 70 - 160 cps. Over the primer coat the layer of membrane shall be laid using butane torch and sealing all joints etc., and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 350/300 N/5cm. Tear strength in longitudinal and transverse direction as 60/80N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto - 2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane:		
22.19.1	3 mm thick	sqm	541.67
22.20	Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer 3mm thick water proofing membrane, black finished reinforced with non- woven polyester matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 ltr/sqm. by the same membrane manufacturer of density at 25°C, 0.87-0.89 kg/ltr and viscosity 70-160 cps. Over the primer coat the layer of membrane shall be laid using Butane Torch and sealing all joints etc., and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 650/450N/5cm. Tear strength in longitudinal and transverse direction as 300/250N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane.		
22.20.1	3 mm thick	sqm	572.97
22.21	Extra for covering top of membrane with Geotextile, 120gsm non woven, 100% polyester of thickness 1 to 1.25mm bonded to the membrane with intermittent touch by heating the membrane by Butane Torch as per manufactures recommendation [for Item No. 25.18 to 25.20]	sqm	111.97

SUB HEAD - 23.0
RIVER AND CANAL PROTECTION WORK

SI No.	Description of Item	Unit	Amount in Rs.
23.0	Dry stone pitching, 225mm thick, including cost of stones and preparation of surface.		
23.1	Quarry stone	sqm	497.09
23.2	Nallah stone	sqm	331.64
23.3	Constructing vertical bunds with sloping faces, by boulder filling (dry, hand packed tightly); including cost of stones but excluding cost of wirecrates	cum	1763.49
23.4	Constructing muthu bunds, comprising boulders and wood bushes in alternate layers; including working in water situations.	cum	1847.65
23.5	Dry stone pitching (any thickness) excluding cost of stones.		
23.5.1	On Horizontal	cum	634.50
23.5.2	On Top copings of banks	cum	846.19
23.5.3	On Slopes	cum	973.20
23.6	Hand-packing stones in wire-crates/ gabions; excluding cost of crates and stones	cum	528.66
23.6 A	Extra for every additional lift of 1.5 Mtr or part there of beyond 1.5 mtr height for Hand-packing stones in wire-crates	cum	104.36
23.7	Dumping stone excluding cost of stones.		
23.7.1	in Horizontal on level	cum	274.57
23.7.2	on Slopes (Behind pitching)	cum	359.22
23.8	Grouting of stone pitching using M-10 nominal mix concrete (max. size of aggregates; 20mm nominal) @ 3.65 cum per 100 sq m on horizontal/side slopes; complete including curing.		
23.8.1	Crushed	sqm	337.10
23.8.2	Nallah	sqm	285.67
23.9	Grouting of stone pitching using M-10 nominal mix concrete (max. size of aggregates; 20mm nominal) @ 6.00 cum per 100 sq m on horizontal/side slopes; complete including curing.		
23.9.1	Crushed	sqm	480.30
23.9.2	Nallah	sqm	440.27
23.10	Silt clearance from canals. Inclusive of initial lead and lift (50m & 1.5m respectively)		
23.10.1	Dry	sqm	108.63
23.10.2	Wet	sqm	181.36
23.10.3	Shingle clearance from canals.	sqm	141.98
23.11	Weed clearance		
23.11.1	Lakes(using boats)	sqm	27.03
23.11.2	From canals(including extraction of roots)	sqm	21.11
23.12	Grouting of riprap with dry aggregates, excluding cost of aggregates.	sqm	110.41

SI No.	Description of Item	Unit	Amount in Rs.
23.13	Making knitted wire crates of approved mesh-size; including weaving, binding sides and partitions, and binding top after filling; excluding cost of filling, stones and weaving materials	sqm	118.80
23.14	Opening out old wire crates those and re-binding after filling.	sqm	45.45
23.15	Tipping stone-filled wire crates in position; including equipment charges	cum	315.12
23.16	Filling empty cement bags with sand/ earth; including cost of sewing and strings; excluding cost of bags and earth / sand	Per bag	17.98
23.17	Loading/Unloading sand/ earth filled bags in lorries; lead upto 50m	Per bag	13.74
23.18	Loading sand / earth filled bags in boats; lead upto 50m	per bag	10.50
23.19	Unloading sand/earth filled bags from boats		
23.19.1	Placing in dry	per bag	11.82
23.19.2	Placing in Water	per bag	23.13

**SUB HEAD - 24.0
CANAL LINING**

SI No.	Description of Item	Unit	Amount in Rs.
24.1	Lip-Cutting to desired profile for canal bed and sides, canal Including dressing, all allowances and leads		
24.1.1	Depth upto 3.0 m.	cum	467.13
24.1.2	Depth over 3.0 m. but upto 4.5 m	cum	498.64
24.1.3	Depth over 4.5 m. but upto 6.0 m	cum	483.99
24.1.4	Depth over 6.0 m. but upto 7.5 m	cum	505.40
24.2	Preparing and dressing beds of canals for lining.		
24.2.1	In ordinary soil	sqm	25.86
24.2.2	In soils admixed with up to 40% shingle / kankar / boulder	sqm	34.34
24.2.3	Admixed with more than 40% shingle / kankar / boulder	sqm	42.72
24.2.4	In mixed gravels/ conglomerate reaches	sqm	51.21
24.3	Preparing and dressing side slopes of canals for lining.		
24.3.1	In ordinary soils	sqm	26.46
24.3.2	In soils admixed with up to 40% shingle / kankar / boulder	sqm	30.69
24.3.3	In soils admixed with more than 40% shingle / kankar / boulder	sqm	43.39
24.3.4	In mixed gravels/ conglomerate reaches	sqm	55.24
24.4	Excavating conglomerate (for drains and bed-sleepers under the lining)	cum	1534.32
24.5	Making dry brick drains (behind lining), 75mm thick brick all around: only labour	metre	80.14
24.6	Providing and laying 10mm thick, 1 cement: 3 fine sand mortar slurry' on beds and side slopes (prior to laying In-situ concrete lining)	sqm	132.36
24.7	Providing and laying in-situ concrete lining using M-10 nominal mix concrete (max. size of aggregates: 20mm nominal).		
24.7.1	In beds		
24.7.1.1	Crushed stone	cum	7838.61
24.7.1.2	Nallah Stone	cum	8025.46
24.7.2	In side slopes, - upto a height of 3.5 m above bed		
24.7.2.1	Crushed stone	cum	8355.73
24.7.2.2	Nallah Stone	cum	8009.30
24.7.3	In side slopes, - at a height over 3.5 m but upto 5.5m above bed		
24.7.3.1	Crushed stone	cum	8016.37
24.7.3.2	Nallah Stone	cum	7705.29
24.7.4	In side slopes, at heights over 5.5 m but upto 7.5 m above bed		
24.7.4.1	Crushed stone	cum	8140.60
24.7.4.2	Nallah Stone	cum	7838.61
24.8	Curing canal lining for 28 days.		
24.8.1	In beds	sqm	25.81
24.8.2	In side slopes	sqm	76.19

SI No.	Description of Item	Unit	Amount in Rs.
24.9	Flush pointing in 1 cement : 3 fine sand mortar		
24.9.1	In beds of canal linings.	sqm	236.35
24.9.2	In side slopes of canal linings.	sqm	244.81
24.10	Filling expansion joints (12mm wide) with special Impervious hot-pour	cum	111031.17
24.11	Extra over Item nallah lining towards allowance for form-work	sqm	340.77
24.12	Extra over item no.3.5 m above height owards allowance for form-work	sqm	448.54
24.13	Extra over item towards allowance for providing templates In curved portion; area of curved portion to be measured	sqm	60.35

**SUB HEAD - 25.0
SNOW CLEARANCE**

Typical densities of snow and ice (kg/m ³)	
New snow (immediately after falling in calm)	50-70
Damp new snow	100-200
Settled snow	200-300
Depth hoar	100-300
Wind packed snow	350-400
Firn	400-830
Very wet snow and firn	700-800
Glacier ice	830-917

SI No.	Description of Item	Unit	Amount in Rs.
25.1	Clearing snow (with frost) from Roads, manually using picks and shovels; Snow depth upto 150 mm	sqm	20.60
25.2	Clearing Snow (without frost) from Roads, manually;		
25.2.1	Snow depth upto 150 mm	sqm	10.30
25.2.2	Snow depth over 150 mm but upto 250mm	sqm	16.46
25.2.3	Snow depth over 250 mm but upto 350mm	sqm	18.58
25.2.4	Snow depth over 350 mm but upto 450mm	sqm	22.62
25.2.5	Snow depth over 450 mm but upto 550mm	sqm	26.77
25.2.6	Snow depth over 550 mm but upto 650mm	sqm	30.91
25.2.7	Snow depth over 650 mm but upto 750mm	sqm	37.07
25.2.8	Snow depth over 750 mm but upto 850mm	sqm	45.25
25.2.9	Snow depth over 850 mm but upto 950mm	sqm	51.41
25.2.10	Snow depth over 950 mm but upto 1050mm	sqm	57.57
25.2.11	Snow depth over 1050 mm but upto 1150mm	sqm	63.73
25.2.12	Snow depth over 1150 mm but upto 1250mm	sqm	72.01
25.3	Galla cutting in compressed snow		
25.3.1	150 mm deep and 4 m wide.	cum	22.62
25.3.2	1200 mm deep and 4 m wide.	cum	30.91
25.4	Disposal of accumulated snow from roads by mechanical means using loader and tipper/tractor	cum	328.15

SUB HEAD - 26.0
SLIP CLEARANCE

Sl No.	Description of Item	Unit	Amount in Rs.
26.1	In ordinary soils disposal lead upto 50 m and lift upto 1.5 m	cum	161.20
26.2	In soils; mixed with moorum/Kankar/shingle/boulders; disposal lead upto 50 m and lift upto 1.5 m.	cum	329.46
26.3	In soils; mixed with Decomposed Rocks; by blasting or any other means	cum	464.30
26.4	In medium hard rocks ; by blasting	cum	520.45
26.5	In hard rocks; by blasting	cum	734.98

SUB HEAD - 27.0
RAIN WATER HARVESTING AND TUBE WELLS

SI No.	Description of Item	Unit	Amount in Rs.
27.1	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer-in-charge, upto 90 metre depth below ground level.		
27.1.1	All types of soil		
27.1.1.1	300 mm dia	metre	2620.38
27.1.1.2	350 mm dia	metre	2667.71
27.1.1.3	400 mm dia	metre	3999.86
27.1.2	Rocky strata including Boulders		
27.1.2.1	300 mm dia	metre	5487.32
27.1.2.2	350 mm dia	metre	5654.64
27.1.2.3	400 mm dia	metre	5888.95
27.2	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer -in-charge, beyond 90 metre & upto 150 metre depth below ground level.		
27.2.1	All types of soil		
27.2.1.1	300 mm dia	metre	3057.11
27.2.1.2	350 mm dia	metre	3396.79
27.2.1.3	400 mm dia	metre	4585.66
27.2.2	Rocky strata including Boulders		
27.2.2.1	300 mm dia	metre	5605.71
27.2.2.2	350 mm dia	metre	5795.37
27.2.2.3	400 mm dia	metre	6902.95
27.3	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) pipe of required dia, conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer -in-charge.		
27.3.1	100 mm nominal size dia	metre	642.64
27.3.2	150 mm nominal size dia	metre	833.56
27.4	Supplying, assembling, lowering and fixing in vertical position in bore well unplasticized PVC medium well screen (RMS) pipes with ribs, conforming to IS: 12818, including hire & labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer-in-charge.		
27.4.1	100 mm nominal size dia	metre	673.94
27.4.2	150 mm nominal size dia	metre	869.55

SI No.	Description of Item	Unit	Amount in Rs.
27.4.3	200 mm nominal size dia	metre	1323.51
27.5	Supplying, filling, spreading & leveling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge.	cum	997.98
27.6	Supplying, filling, spreading & leveling gravels of size range 5 mm to 10 mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge.	cum	1201.42
27.7	Supplying, filling, spreading & leveling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of Engineer -in-charge.	cum	1201.42
27.8	Gravel packing in tubewell construction in accordance with IS: 4097, including providing gravelfine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of Engineer-in-charge.	cum	1250.59
27.9	Providing and fixing factory made precast RCC perforated drain covers, having concrete of strength not less than M-25, of size 1000 x 450x50 mm, reinforced with 8 mm dia four nos longitudinal & 9 nos cross sectional T.M.T. hoop bars, including providing 50 mm dia perforations @ 100 to 125 mm c/c, including providing edge binding with M.S. flats of size 50 mm x 1.6 mm complete, all as per direction of Engineer-in-charge.	each	1428.01
27.10	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 mild steel screwed and socketed/plain ended casing pipes of required dia, conforming to IS: 4270, of reputed & approved make, including painted with outside surface with two coats of anticorrosive paint of approved brand and manufacture, including required hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of Engineer-in-charge.		
27.10.1	100 mm nominal size dia having minimum wall thickness 5.00 mm	metre	1358.67
27.10.2	150 mm nominal size dia having minimum wall thickness 5.00 mm	metre	203.22
27.10.3	200 mm nominal size dia having minimum wall thickness 5.40 mm	metre	2412.32
27.11	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 plain slotted (having slot of size 1.6/3.2 mm) mild steel threaded and socketed/ plain bevel ended pipe (type A) of required dia, conforming to IS: 8110, of reputed and approved make, having wall thickness not less than 5.40 mm, including painted with outside surface with two coats of anticorrosive bitumestic paint of approved brand and manufacture, including hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of Engineer -in-charge.		
27.11.1	100 mm nominal size dia	metre	1476.82
27.11.2	150 mm nominal size dia	metre	2100.93

SI No.	Description of Item	Unit	Amount in Rs.
27.11.3	200 mm nominal size dia	metre	2568.45
27.12	Development of tube well in accordance with IS : 2800 (part I) and IS: 11189, to establish maximum rate of usable water yield without sand content (beyond permissible limit), with required capacity air compressor, running the compressor for required time till well is fully developed, measuring yield of well by "V" notch method or any other approved method, measuring static level & draw down etc. by step draw down method, collecting water samples & getting tested in approved laboratory, i/c disinfection of tubewell, all complete, including hire & labour charges of air compressor, tools & accessories etc., all as per requirement and direction of Engineer-in-charge.	hour	988.91
27.13	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of:		
27.13.1	100 mm dia	each	221.82
27.13.2	150 mm dia	each	246.47
27.14	Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tubewell as per IS: 2800 (part I), including necessary bolts & nuts of required size complete.		
27.14.1	100 mm clamp	each	2307.93
27.14.2	150 mm clamp	each	2307.93
27.14.3	200 mm clamp	each	2307.93
27.15	Providing and fixing Bail plug/ Bottom plug of required dia to the bottom of pipe assembly of tubewell as per IS:2800 (part I).		
27.15.1	100 mm dia	each	269.95
27.15.2	150 mm dia	each	332.58
27.15.3	200 mm dia	each	363.88

SUB HEAD - 28.0
CONSERVATION OF HERITAGE BUILDINGS

Sl No.	Description of Item	Unit	Amount in Rs.
28.1	Raking out joints of stone masonry surface to the required width and depth, with due care and precaution, by mechanical / manual means, including preparing and cleaning the surface for re-pointing/ refilling of joints, including disposal of rubbish to the dumping ground within 50 metre lead.	sqm	58.97
28.2	Providing and fixing double scaffolding system (cup lock type) on the exterior side of building/structure, upto 25 metre height, above ground level, including additional rows of scaffolding in stepped manner as per requirement of site, made with 40mm dia M.S. tube, placed 1.5 metre centre to centre, horizontal & vertical tubes joint with cup & lock system with M.S. Tubes, M.S. tube challis, M.S. clamps and staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for execution of work of cleaning and/ or pointing and/ or applying chemical and removing it thereafter. The scaffolding system shall be stiffened with bracings, runners, connecting with the building etc, wherever required, if feasible, for inspection of work at required locations with essential safety features for the workmen etc., complete as per directions and approval of Engineer-in-charge. Note:- (1) The elevational area of the scaffolding shall be measured for payment purpose. (2) The payment will be made once only for execution of all items for such works.	sqm	330.21
28.3	leaning the sand stone surface and removing dirt, dust, bird dropping, grease, oil, algae, fungus, monkey beats, vegetable growth etc., including providing, applying and washing the surface with liquid Ammonia Chemical of 5% solution and other chemical cleaning agent as approved by Archaeological Survey of India/ Engineer-in-charge, of approved brand and manufacturer, with the help of required scrubbers and also cleaning with machine operated water jet mixed with desired quantity of fine silica where ever required, without causing any scratching/ damage to the stone surface and finally washing the surface with clean water with the help of pressure jet machine, complete in all respect, including taking all precautions to safeguard ventilators, windows, doors etc. by suitable covering so as to avoid any damage to the building/structure, all as per direction of Engineer-in-charge (The rate is inclusive of all materials & labours involved except scaffolding).	sqm	194.84
28.4	Providing and applying antifungal wash treatment using 3% solution of sodium pentachlorophenate, of reputed brand and manufacturer, on cleaned sand stone surface at desired locations as per direction of Engineer-in-charge (The rate is inclusive of all materials & labours involved except scaffolding).	sqm	74.33
28.5	Ruled / Flush pointing on Red sand stone masonry surface with lime, surkhi and marble dust mortar in the ratio of 1:1.5:1/2 {One lime: 1.5 surkhi (50% red and 50% light yellow surkhi) : 1/2 marble dust}. (The rate is inclusive of all materials & labours involved except scaffolding).	sqm	341.64

SI No.	Description of Item	Unit	Amount in Rs.
28.6	Ruled/ Flush pointing on White sand stone masonry surface with lime, surkhi and marble dust mortar in the ratio of 1:1.5:1/2 {One lime : 1.5 surkhi (15% dark red and 85% light yellow surkhi) : 1/2 marble dust}. (The rate is inclusive of all materials & labours involved except scaffolding).	sqm	341.64
28.7	Applying two or more coat of Ethyl Silicate chemical as approved by Archaeological Survey of India/ Engineer-in-charge, of approved brand and manufacturer, with brush or spray on the existing stone masonry surface till there is no further absorption of chemical by stone surface, including protecting the applied surface from direct sunlight by suitable means during application, all complete as per direction of the Engineer-in-Charge (The rate is inclusive of all materials & labours involved except scaffolding).	sqm	325.91
28.8	Applying breathable, non-reactive, antifungal, and water repellent Silane/ Siloxane chemical as approved by Archaeological Survey of India/ Engineer-in-charge, of approved brand and manufacture, diluted with solvent mineral Turpentine oil in the ratio of 1:12 (One part of approved chemical :12 Part of Turpentine oil), on the existing sand stone masonry surface with two or more coats to give uniform application of chemical on the surface, all complete as per direction of Engineer-In-charge (The rate is inclusive of all materials & labours involved except scaffolding).	sqm	118.60

SUB HEAD - 29.0
HORTICULTURE AND LAND SCAPING

Sl No.	Description of Item	Unit	Amount in Rs.
29.1	Trenching in ordinary soil upto a depth of 60cm including removal and stacking of serviceable materials and then disposing of by spreading and neatly levelling with in a lead of 50m and making up the trenched area to proper levels by filling with earth or earth mixed with sludge or/and manure before and after flooding trench with water (excluding cost of imported earth, sludge or manure).	cum	90.79
29.2	Supplying and stacking of good earth at site including royalty and carriage upto 1 km (earth measured in stacks will be reduced by 20% for payment).	cum	332.87
29.3	Supplying and stacking sludge at site including royalty and carriage upto 1 km (sludge measured in stacks will be reduced by 8% for payment),	cum	99.58
29.4	Supplying and stacking at site dump manure from Badli or other approved source, including carriage upto 1 km manure measured in stacks will be reduced by 8% for payment):		
29.4.1	Screened through sieve of I.S. designation 20mm	cum	78.40
29.4.2	Screened through sieve of I.S. designation 16 mm	cum	120.72
29.4.3	Screened through sieve of I.S. designation 4.75mm	cum	154.58
29.5	Rough dressing the trenched ground including breaking clods.	cum	174.89
29.6	Uprooting weeds from the trenched area after 10 to 15 days of its flooding with water including disposal of uprooted vegetation.	sqm	5.69
29.7	Fine dressing the ground.	sqm	4.29
29.8	Spreading of sludge, dump manure or/and good earth in required thickness (Cost of sludge, dump manure or/ and good earth to be paid separately).	sqm	0.61
29.9	Mixing earth and sludge or manure in proportion specified or directed.	sqm	4.23
29.10	Grassing with 'Doob' grass including watering and maintenance of the lawn for 30 days or more till the grass forms a thick lawn free from weeds and fit for mowing including supplying good earth if needed (the good earth shall be paid for separately).		
29.10.1	In rows 15 cm apart in either direction.	sqm	6.46
29.10.2	In rows 7.5 cm apart in either direction.	sqm	11.30
29.10.3	In rows 5 cm apart in either direction.	sqm	15.50

SI No.	Description of Item	Unit	Amount in Rs.
29.11	Renovating lawns including weeding, cheeling the grass, forking the ground, top dressing with sludge or manure, mixing the same with forked soil, watering and maintaining the lawn for 30 days or more till the grass forms a thick lawn free from weeds and fit for mowing and disposal of rubbish as directed, including supplying good earth if needed but excluding the cost of sludge or manure (the good earth shall be paid for separately).	sqm	65.28
29.12	Uprooting rank vegetation and weeds by digging the area to a depth of 60cm removing all weeds and other growth with roots by forking repeatedly, breaking clods, rough dressing, flooding with water, uprooting fresh growths after 10 to 15 days and then fine dressing for planting new grass, including disposal of all rubbish with all leads and lifts.	sqm	70.74
29.13	Preparation of beds for hedging and shrubbery by excavating 60cm deep and trenching the excavated base to a further depth of 30cm, refilling the excavated earth after breaking clods and mixing with sludge or manure in the ratio of 8:1 (8 parts of stacked volume of earth after reduction by 20% : one part of stacked volume of sludge or manure after reduction by 8%), flooding with water, filling with earth if necessary, watering and finally fine dressing, levelling etc. including stacking and disposal of materials declared unserviceable and surplus earth by spreading and levelling as directed, within a lead of 50m lift upto 1.5 m complete (cost of sludge, manure or extra earth to be paid for separately).	sqm	25.82
29.14	Digging holes in ordinary soil and refilling the same with the excavated earth mixed with manure or sludge in the ratio of 2:1 by volume (2 parts of stacked volume of earth after reduction by 20% : 1 part of stacked volume of manure after reduction by 8%) flooding with water, dressing including removal of rubbish and surplus earth, if any with all leads and lifts (cost of manure, sludge or extra good earth if needed to be paid for separately)		
29.14.1	Holes 1.2 m dia and 1.2 m deep.	each	1017.91
29.14.2	Holes 60 cm dia and 60 cm deep.	each	875.70
29.15	Half brick circular tree guard in 50 class designation bricks, internal diameter 1.25 metre and height 1.2 metre above ground and 0.20 m below ground bottom two courses laid dry and top three courses in lime mortar 1:2 (1 lime putty : 2 surkhi) or cement mortar 1:6 (1 cement : 6 fine sand) and the intermediate courses being in dry honey comb masonry as per design complete:		
29.15.1	With F.P.S. Bricks	each	577.31
29.16	Providing and fixing M.S. flat iron tree guard 60cm dia. and 2m height above ground level formed of 4 nos. 25x6mm and 8 nos. 25x3mm vertical M.S. flats rivetted to 3 nos. 25x6mm M.S. flat iron rings in two halves, bolted together with 8mm dia. and 30mm long bolts including painting two coats with paint of approved brand and manufacture over a coat of priming, complete in all respects.	each	7218.38

SI No.	Description of Item	Unit	Amount in Rs.
29.17	Making tree guard 53 cm dia. and 1.3 m high as per design from empty coal tar drums supplied free by the department including providing and fixing 2 nos. M.S. sheet rings 50 x 0.5 mm with rivets complete in all respects including painting inside and outside of tree guard with :		
29.17.1	A coat of coal tar.	each	526.66
29.17.2	Two or more coats of synthetic enamel paint of approved quality shade over a priming coat	each	443.75
29.18	Making tree guard 53 cm dia. and 2 m high as per design from empty coal tar drums supplied free by the department including providing and fixing four legs 40 cm long of 30 x 3 mm M.S. flat riveted to tree guard and providing and fixing 2 nos. M.S. sheet rings 50 x 0.5 mm with rivets complete in all respects including painting inside and outside of tree guard with :		
29.18.1	A coat of coal tar.	each	1009.16
29.18.2	Two or more coats of synthetic enamel paint of approved quality and shade over a priming coat.	each	757.74
29.19	Edging with bricks laid dry length wise including excavation, refilling, consolidating with hand packing and spreading neatly surplus earth within a lead of 50 m :		
29.19.1	75 class designation.		
29.19.1.1	F.P.S. Bricks	metre	58791.50
29.19.2	50 designation.		
29.19.2.1	F.P.S. bricks.	metre	15.27
29.20	Filling mixture of earth and sludge or manure in the desired proportion in trenches, flooding with water and levelling (cost of supplying earth and sludge or manure and mixing excluded).	cum	21.16
29.21	Excavation in dumped stones or malba including stacking of serviceable and unserviceable material separately and disposal of unserviceable material lead upto 50 m and lift upto 1.5 m disposed material to be neatly dressed.	cum	592.53
29.22	Excavation in bajri path including stacking of serviceable and unserviceable material lead upto 50m and lift upto 1.5m disposed material to be neatly dressed.	cum	660.25
29.23	Excavation in water bound macadam road including stacking the serviceable and unserviceable material separately and disposal of unserviceable material lead upto 50 m and lift upto 1.5 m disposed material to be neatly dressed.	cum	812.61
29.24	Flooding the ground with water including making kiaries and dismantling the same.	cum	2.84

SUB HEAD - 30.0
STRUCTURAL GLAZING AND ALUMINIUM COMPOSIT PANEL

Sl No.	Description of Item	Unit	Amount in Rs.
30.1	<p>Providing and supplying aluminium extruded tubular and other aluminium sections as per the architectural drawings and approved shop drawings, the aluminium quality as per grade 6063 T5 or T7 as per BS 1474, including super durable powder coating of 60-80 microns conforming to AAMA 2604 of required colour and shade as approved by the Engineer-in-Charge. (The item includes cost of materials such as cleats, sleeves, screws etc. necessary for fabrication of extruded aluminium frame work. Nothing extra shall be paid on this account). The weight of aluminium extruded section shall be taken for purpose of payment.</p>	Kg	500.60
30.2	<p>Designing, fabricating, testing, protection, installing and fixing in position semi (grid) unitized system of structural glazing (with open joints) for linear as well as curvilinear portions of the building for all heights and all levels, including:</p> <p>(a) Structural analysis & design and preparation of shop drawings for the specified design loads conforming to IS 875 part III (the system must pass the proof test at 1.5 times design wind pressure without any failure), including functional design of the aluminium sections for fixing glazing panels of various thicknesses, aluminium cleats, sleeves and splice plates etc. gaskets, screws, toggles, nuts, bolts, clamps etc., structural and weather silicone sealants, flashings, fire stop (barrier)-cum-smoke seals, microwave cured EPDM gaskets for water tightness, pressure equalisation & drainage and protection against fire hazard including:</p> <p>(b) Fabricating and supplying serrated M.S. hot dip galvanised / Aluminium alloy of 6005 T5 brackets of required sizes, sections and profiles etc. to accommodate 3 Dimensional movement for achieving perfect verticality and fixing structural glazing system rigidly to the RCC/ masonry/ structural steel framework of building structure using stainless steel anchor fasteners/ bolts, nylon separator to prevent bimetallic contacts with nuts and washers etc. of stainless steel grade 316, of the required capacity and in required numbers.</p> <p>(c) Providing and filling, two part pump filled, structural silicone sealant and one part weather silicone sealant compatible with the structural silicone sealant of required bite size in a clean and controlled factory / work shop environment, including double sided spacer tape, setting blocks and backer rod, all of approved grade, brand and manufacture, as per the approved sealant design, within and all around the perimeter for holding glass.</p> <p>(d) Providing and fixing in position flashings of solid aluminium sheet 1 mm thick and of sizes, shapes and profiles, as required as per the site conditions, to seal the gap between the building structure and all its interfaces with curtain glazing to make it watertight.</p>	Sqm	4305.85

SI No.	Description of Item	Unit	Amount in Rs.
--------	---------------------	------	---------------

(e) Making provision for drainage of moisture/ water that enters the curtain glazing system to make it watertight, by incorporating principles of pressure equalization, providing suitable gutter profiles at bottom (if required), making necessary holes of required sizes and of required numbers etc. complete. This item includes cost of all inputs of designing, labour for fabricating and installation of aluminium grid, installation of glazed units, T&P, scaffolding and other incidental charges including wastages etc., enabling temporary structures and services, cranes or cradles etc. as described above and as specified. The item includes the cost of getting all the structural and functional design including shop drawings checked by a structural designer, duly approved by Engineer-in-charge. The item also includes the cost of all mock ups at site, cost of all samples of the individual components for testing in an approved laboratory, field tests on the assembled working structural glazing as specified, cleaning and protection till the handing over of the building for occupation. In the end, the Contractor shall provide a water tight structural glazing having all the performance characteristics etc. all complete as required, as per the Architectural drawings, as per item description, as specified, as per the approved shop drawings and as directed by the Engineer-in-Charge.

Note:- 1. The cost of providing extruded aluminium frames, shadow boxes, extruded aluminium section capping for fixing in the grooves of the curtain glazing and vermin proof stainless steel wire mesh shall be paid for separately under relevant items under this sub-head. However, for the purpose of payment, only the actual area of structural glazing (including width of grooves) on the external face shall be measured in sqm. up to two decimal places.

Note:-2. The following performance tests are to be conducted on structural glazing system if area of structural glazing exceeds 2500 Sqm from the certified laboratories accredited by NABL (National Accreditation Board for Testing and Calibration Laboratories), Department of Science & Technologies, India. Cost of testing is payable separately.

The NIT approving authority will decide the necessity of testing on the basis of cost of the work, cost of the test and importance of the work. Performance Testing of Structural glazing system Tests to be conducted in the NABL accredited lab or any other accreditation body which operates in accordance with ISO/IEC 17011 and accredits labs as per ISO/IEC 17026

- | | |
|---|---|
| 1 | Performance Laboratory Test for Air Leakage Test (-50pa to - 300pa) & (+50pa to +300pa) as per ASTM E-283-04 testing method for a range of testing limit 1 to 200 mVhr |
| 2 | Static Water Penetration Test. (50pa to 1500pa) as per ASTM E- 331-09 testing method for a range upto 2000 ml. |
| 3 | Dynamic Water Penetration (50pa to 1500pa) as per AAMA 501.01- 05 testing method for a range upto 2001 ml |
| 4 | Structural Performance Deflection and deformation by static air pressure test (1.5 times design wind pressure without any failure) as per ASTM E-330-10 testing method for a range upto 50 mm |
| 5 | Seismic Movement Test (upto 30 mm) as per AAMA 501.4-09 testing method for Qualitative test, Tests to be conducted on site. |

SI No.	Description of Item	Unit	Amount in Rs.
6	Onsite Test for Water Leakage for a pressure range 50 kpa to 240 kpa (35psi) upto 2000 ml		
30.3	<p>Providing, assembling and supplying vision glass panels (IGUs) comprising of hermetically-sealed 6-12-7 mm insulated glass (double glazed) vision panel units of size and shape as required and specified, comprising of an outer heat strengthened float glass 6mm thick, of approved colour and shade with reflective soft coating on surface # 2 of approved colour and shade, an inner Heat strengthened clear float glass 6mm thick, spacer tube 12mm wide, dessicants, including primary seal and secondary seal (structural silicone sealant) etc. all complete for the required performances, as per the Architectural drawings, as per the approved shop drawings, as specified and as directed by the Engineer-in-Charge. The IGUs shall be assembled in the factory/ workshop of the glass processor.</p> <p>(Payment for fixing of IGU Panels in the curtain glazing is included in cost of item No.25.2) For payment, only the actual area of glass on face # 1 of the glass panels (excluding the areas of the grooves and weather silicone sealant) provided and fixed in position, shall be measured in sqm.</p> <p>(i) Coloured tinted float glass 6mm thick substrate with reflective soft coating on face # 2, + 12mm Airgap + 6mm Heat Strengthened clear Glass of approved make having properties as visible Light transmittance (VLT) of 25 to 35 %, Light reflection internal 10 to 15%, light reflection external 10 to 20 %, shading coefficient (0.25-0.28) and U value of 3.0 to 3.3 W/m² degree K etc. The properties of performance glass shall be decided by technical sanctioning authority as per the site requirement.</p>	Sqm	4389.28
30.4	<p>Extra for openable side / top hung vision glass panels (IGUs) including providing and supplying at site all accessories and hardwares for the openable panels as specified and of the approved make such as heavy duty stainless steel friction hinges, min 4 -point cremone locking sets with stainless steel plates, handles, buffers etc. including necessary stainless steel screws/ fasteners, nuts, bolts, washers etc. all complete as per the Architectural drawings, as per the approved shop drawings, as specified and as directed by the Engineer- in-Charge.</p>	Sqm	4362.86
30.5	<p>Providing, fabricating and supplying shadow box of required size and shape, for fixing in the spandrel portion of the structural glazing, in linear as well as curvilinear portions of the building by providing semi -rigid, inorganic, non-combustible fibre glass wool insulation 50 mm thick, conforming to IS: 8184 and BS: 3958 Part 5. The insulation layer shall have facing (factory bonded on surface # 1 of the fibreglass insulation layer), of black non-woven fibre glass tissue of nominal thickness 0.5 mm and nominal mass not less than 60 gm /sqm, made of randomly oriented glass fibres distributed in a binder by a wet-lay process including fixing 1.5 mm thick solid aluminum sheet backing using, 6 mm thick cement board including SS rivets, nuts, bolts, washers etc complete.</p>	Sqm	2959.72

SI No.	Description of Item	Unit	Amount in Rs.
30.6	<p>Providing and supplying Spandrel Glass Panels comprising of 6 mm thick heat strengthened monolithic float glass of approved colour and shade with reflective soft coating on surface # 2 of approved colour and shade so as to match the colour and shade of the IGUs in the vision panels etc. ,all complete for therequired performances as specified, as per the Architectural drawings, as per the approved shopdrawings, as specified, and as directed by the Engineer- in- Charge.For payment, only the actual area of glass on face # 1 of the glass panels (but excluding the area ofgrooves and weather silicone sealant) provided and fixed in position, shall be measured in sqm.(Payment for fixing of Spandrel Glass Panels in the curtain glazing is included in cost of releventItem*).“(i) Coloured tinted float glass 6mm thick substrate with reflective soft coating on face # 2, havingproperties as visible Light transmittance (VLT) of 25 to 35 %, Light reflection internal 10 to 15%, lightreflection external 10 to 20 %, shading coefficient (0.25-0.28) and U value of 3.0 to 3.3 W/m² K etc. . Theproperties of performance glass shall be decided by technical sanctioning authority as per the siterequirement.</p>	Sqm	2888.67
30.8	<p>Design supply & installation of suspended Spider Glazing system designed to withstand the windpressure as per IS 875 (Part-III). The Suspended System held with Spider Fittings of SS-316 Grade Steelof approved manufacturer with glass panel having 12 mm thick clear toughened glass held together withSS- 316 Grade Stainless steel Spider & bolt assembly with laminated glass fins 21 mm thick. The Glassfins and glass panel assembly shall be connected to Slab/beams by means of SS- 316 Grade stainlesssteel brackets & Anchor bolts and at the bottom using SS channel of 50x25x2mm using fastener &anchor bolts, non staining weather sealants of approved make, Teflon/ nylon bushes and separators toprevent bi-metallic contacts, all complete to perform as per specification and approved drawings. Thecomplete system to be designed to accommodate thermal expansion & seismic movements etc. Thejoints between glass panels (6 to 8 mm) and gaps at the perimeter & in U channel of the assembly to befilled with non staining weather sealant, so as to make the entire system fully water proof & dust proof.The rate shall include all design, Engineering and shop drawing including approval from structuraldesigner, labour, T&P, scaffolding, other incidental charges including wastage, enabling temporaryservices all fitting fixers nut bolts, washer, Buffer plates, fastener, anchors, SS channel laminated glassetc. all complete. For the purpose of payment, actual elevation area of Glazing including thickness ofjoints and the portion of Glass panel inside the SS channel shall be measured.</p>	Sqm	9624.44

**SUB HEAD - 31.0
NEW TECHNOLOGIES & MATERIALS**

SI No.	Description of Item	Unit	Amount in Rs.
31.1	Providing & fixing in position Phenol bonded Bamboowood flooring with planks of sizes 14mm thick, minimum 1800mm length and minimum 100 mm wide, in approved colour, texture and finish, having Performance Appraisal Certificate (PAC) issued by Building Materials & Technology Promotion Council (BMTPC). The flooring shall be fixed with tongue and groove interlocking system, with underlayment of 4mm thick expanded polyethylene foam sheets having density 40kg/cum, over prepared surface with necessary quarter round planks of size 1900mm x 18mm and door reducer of size 1900mm x 44mm, wherever required. The Hardness 1000 Kgf. with Eco friendly UV coating, all complete as per direction of the Engineer in-bamboowood planks shall have minimum density of 1000 Kg/cum & minimum charge.	Sqm	6189.21
31.2	Providing & fixing in position Phenol bonded Bamboo wood in wall skirting with planks of sizes 14mm thick, 1900mm length (minimum) and 85mm wide (minimum), in approved colour, texture and finish, having Performance Appraisal Certificate (PAC) issued by Building Materials & Technology Promotion Council (BMTPC). The skirting shall be fixed with SS screws & rawl plugs, over underlayment of 4mm thick, expanded polyethylene foam sheets having 40kg/cum density over prepared surface. The bamboowood planks shall have minimum density of 1000Kg/cum & minimum Hardness 1000 Kgf. with Eco friendly UV coating, all complete as per direction of the Engineer in-charge.	Sqm	6072.88
31.3	Providing & fixing in position Phenol bonded Bamboowood wall cladding at all height with planks of sizes 10mm thick, minimum 1800mm length and minimum 100 mm wide, in approved colour, texture and finish, having Performance Appraisal Certificate (PAC) issued by Building Materials & Technology Promotion Council (BMTPC), with necessary profiled edges fixed with 40mm SS screws 5 nos in each tile to frame work made of second class teak wood of size 20x15 mm in centre of each tile and bottom and top of work height, 40x15mm placed at ends of each tile. The cladding shall be laid over backlayment of 1.00 mm thick expanded polyethylene foam of density 40kg/cum in two layers, first layer on wall surface before fixing wooden frame and second layer on frame under cladding. The bamboowood planks shall have minimum density of 1000 Kg/cum & minimum Hardness 1000 Kgf. with Eco friendly UV coating, all complete as per direction of the Engineer in-charge.	Sqm	6591.92

SI No.	Description of Item	Unit	Amount in Rs.
31.4	Providing & fixing in position Phenol bonded Bamboowood panelled or panelled and glazed shutters for doors windows, clerestorey windows with pre-molded minimum 30mm thick planks, in approved colours, texture & finish. It shall have 10mm wide, 25mm deep groove to fit in panels.The bamboo wood shall have minimum density of 1000 Kg/cum, minimum Hardness 1000 Kgf. All styles and rails shall have profiled interlocking system locked in place by bamboo pins, all complete as per direction of Engineer in charge. (The panelling will be paid for separately).	Sqm	6439.31
31.5	Providing & fixing in position Phenol bonded Bamboo wood panelling of 10mm thick, in 25 to 40 mm thick panelled or panelled & glazed shutters for doors, windows, clerestorey windows, in approved colour, texture & finish. The bamboowood planks shall have minimum density of 1000 Kg/cum & minimum Hardness 1000 Kgf. The panels shall have profiled interlocking system locked in place with bamboo pins all complete as per direction of the Engineer in-charge. (area of opening for panel inserts excluding portion inside grooves or rebates to be measured)	Sqm	4361.69
31.6	Providing & fixing in position 65 mm thick factory made door frame of Phenol bonded Bamboo wood(superior class, interior use), in approved colour, texture and finish.The bamboo wood shall haveminimum density of 1000 Kg/cum, minimum hardness 1000 Kgf. The door frame shall have tenon &mortise interlocking system, to be fixed to the wall with 100 mm size G.I screws all a complete as perdirection of Engineer-in charge.	Cudm	299.58
31.6A	Providing, erecting, laying and fixing in position in 3.5 to 4 mm thick bamboo mat corrugated sheet (BMCS) as per IS: 15476-2004 in roofing with self drilling screws along with EPDM washers complete or with galvanized iron J or L hooks 8mm dia G.I. plain and bitumen washers etc, all complete as per direction of Engineer-in-Charge.	Sqm	5897.58
31.6B	Providing and fixing in position ridges of 3.5 to 4 mm thick bamboo mat ridge cap (BMRC) as per IS: 15476-2004 in roofing with self drilling screws along with EPDM washers complete or with galvanized iron J or L hooks 8mm dia G.I. plain and bitumen washers etc, all complete as per direction of Engineer-in-Charge.	Meter	4826.51
31.6C	Providing and fixing at all height false ceiling of 4mm thick phenol bonded Bamboo Mat board (595x595mm)conforming to IS:13958-1994 including providing and fixing of frame work made of GI angle 25x25x0.4 mm thick allaround suitably fixed to wall with the help of dash fastener and hanger frame (600x600 c/c) made GI slotted Teeconnected to ceiling with 2.64mm GI wire and anchor fastener at every junction and also including cost of makingconnected to ceiling with 2.64mm GI wire and anchor fastener at every junction and also including cost of makingopenings for light fittings, grills, diffusers, cut outs made with frame of perimeter channels suitably fixed allcomplete as per direction of Engineer-in-charge.	Sqm	4119.53

Sl No.	Description of Item	Unit	Amount in Rs.
31.6D	Providing and fixing at Bamboo Mat board conforming to IS:13958-1994 for partition to frame by bucking or studding with screws etc. complete (Frames, backing or studding to be paid separately)		
31.6D.1	3mm thickness	Sqm	2769.30
31.6D.2	4mm thickness	Sqm	3147.22
31.6D.3	6mm thickness	Sqm	3738.76
31.6D.4	9mm thickness	Sqm	4708.21
31.6D.5	12mm thickness	Sqm	5409.84
31.6E	Providing and fixing at all height wall panelling with phenol bonded Bamboo Mat board conforming to IS:13958-1995 including providing and fixing to frame work made of 50mm x 50mm hardwood plugs including cutting brick work and fixing in cement mortar and making good the wall etc. and also providing and fixing wooden moulded corner beading of triangular shape to the junction of panelling etc. with iron screws all complete as per direction of Engineer-in-Charge.		
31.6E.1	9mm thickness	Sqm	5144.43
31.6E.2	12mm thickness	Sqm	5846.06
31.7	Providing and fixing 50 mm thick extruded polystyrene rigid insulation board of required size between cavity wall, complying with ISO 4898:2008 & ASTM C 578-08b - type VI, having thermal conductivity of 0.0289 W/m K as per ASTM C 578 (measured as per IS 3346), compressive strength of > 350 kPa listed as per ASTM D 1621, density of 34-36 kg/m ³ as per ASTM D 1622, water absorptions < 1% by volume as per ASTM D 2842, oxygen index of 24.1 to 28.1 listed as per ASTM D 2863, cell size 0.4 mm of dia (max) as per ASTM D 3576. Fire retardent property as per DIN 4102, Part 1 of class B2 and as per ASTM E84 class A, fixed with suitable water based adhesive and fastener, complete in all respect as per the direction of Engineer-in-Charge.	Sqm	1048.07
31.8	Providing and fixing 50 mm thick extruded polystyrene rigid insulation board of required size under deck on ceiling surface, complying with ISO 4898:2008 & ASTM C 578-08b - type VI, having thermal conductivity of 0.0289 W/m K as per ASTM C 578 (measured as per IS 3346), compressive strength of > 351 kPa listed as per ASTM D 1621, density of 34-36 kg/cum as per ASTM D 1622, water absorptions < 1% by volume as per ASTM D 2842, oxygen index of 24.1 to 28.1 listed as per ASTM D 2863, cell size 0.4 mm of dia (max) as per ASTM D 3576. Fire retardent property as per DIN 4102, Part 1 of class B2 and as per ASTM E84 class A, fixed with suitable water based adhesive and fastener, complete in all respect as per the direction of Engineer-in-Charge.	Sqm	1131.22

SI No.	Description of Item	Unit	Amount in Rs.
31.9	Providing and fixing factory made solid Foam uPVC profile for kitchen cabinet frame (45 x 20 mm) of approved shade, quality and make. The profile shall be laminated on both sides, made from rigid foam sheets (Single extruded) having density 600 Kg/cum and the exposed edges sealed with PVC edgebeading of same shade and colour. The frame shall be fire retardent with necessary screw holding capacity. Frame shall be fixed to wall using Expendable Fastner with necessary stainless steel screws, all complete as per direction of Engineer-in-charge.	Meter	565.21
31.10	Providing and fixing factory made Kitchen Cabinet Shutter/Partition 20 mm nominal thickness of approved shade, quality and make, made from rigid foam sheets (Single extruded) having density 601Kg/cum and laminated on both side by laminate Sheet/PVC foil lamination. The exposed edges shall be sealed with PVC edge beading of same shade and colour. The shutter shall be fire retardent having necessary screw holding capacity. Shutter shall be fixed to frame using approved hinges with necessary stainless steel screws, all complete as per direction of Engineer-in-charge.	Sqm	6189.21
31.11	Providing and fixing concealed hinge of approved quality for 19-20mm thick door with stainless steel screws complete :	each	135.16
31.12	Supplying & laying of bi-axial extruded high modulus polypropylene geogrid conforming to MORTH SPECIFICATION for base/sub-base reinforcement having minimum tensile strength 15kN/m in the longitudinal and transverse direction, with 5kN/m and 7kN/m tensile strength at 2% and 5% strain respectively in the longitudinal and transverse direction, junction efficiency not less than 95% and with 38mm X 38mm mesh opening.	Sqm	527.26
31.13	Supplying & laying of bi-axial extruded high modulus polypropylene geogrid conforming to MORTH SPECIFICATION for base/sub-base reinforcement having minimum tensile strength 20kN/m in the longitudinal and transverse direction, with 7kN/m and 14kN/m tensile strength at 2% and 5% strain respectively in the longitudinal and transverse direction, junction efficiency not less than 95% and with 38mm X 38mm mesh opening.	Sqm	260.44
31.14	Supplying & laying of bi-axial extruded high modulus polypropylene geogrid conforming to MORTH SPECIFICATION for base/sub-base reinforcement having minimum tensile strength 30kN/m in the longitudinal and transverse direction, with 10.5kN/m and 21kN/m tensile strength at 2% and 5% strain respectively in the longitudinal and transverse direction, junction efficiency not less than 95% and with 38mm X 38mm mesh opening.	Sqm	380.94

SI No.	Description of Item	Unit	Amount in Rs.
31.15	Supplying & laying of bi-axial extruded high modulus polypropylene geogrid conforming to MORTH SPECIFICATION for base/sub-base reinforcement having minimum tensile strength 40kN/m in the longitudinal and transverse direction, with 14kN/m and 28kN/m tensile strength at 2% and 5% strain respectively in the longitudinal and transverse direction, junction efficiency not less than 95% and with 38mm X 38mm mesh opening.	Sqm	517.58
31.16	Supplying & laying of drainage composite for use behind walls, between two different fills, along side drains of road, below concrete lining of canals etc. Geocomposite for planar drainage, realized by thermobonding a draining core in extruded monofilaments with two filtering nonwoven geotextiles that may also be working as separation or protecting layers. The draining three dimensional core will have a "W" configuration as longitudinal parallel channels. Minimum thickness to be 7.2mm, with two filtering UV stabilized polypropylene nonwoven geotextile of minimum thickness of 0.75mm characteristic opening size (O90) of 110 micron and tensile strength of 8.0 kN/m that will be working as separation or protecting layer, geocomposite having in plane flow capacity of 2.1 L / (m.s) at hydraulic gradient of 1.0 & 21 kPa pressure and tensile strength of 18 kN/m, with mass per unit area of 740 gsm, supplied in the form of roll for easy transportation to site of work as per detailed specification all complete as per directions of Engineer in charge.	Sqm	940.39
31.17	Supplying & laying of drainage composite for use behind walls, between two different fills, along side drains of road, below concrete lining of canals etc. having thermobonding a draining core - HDPE geonet comprises of two sets of parallel overlaid ribs integrally connected to have a rhomboidal shape with a polyethylene film and a nonwoven geotextile having mass per unit area 130 gsm and tensile strength of 8.0 kN/m that will be working as separation or protecting layer, geocomposite having in plane flow capacity of 0.7 L / (m.s) at hydraulic gradient of 1.0 & 20 kPa pressure and tensile strength of 13.5 kN/m, with mass per unit area of 830 gsm, at easily accessible location including top and bottom, with all leads and lifts, manpower and machinery, materials, labour etc. complete and as directed by Engineer in charge.	Sqm	1112.53
31.18	Supplying and laying high strength flexible geogrids (HSFG) as soil reinforcement / basal reinforcement as per MORTH 3100 and IRC 113, made of high tenacity polyester core with polyethylene coating with Minimum Long Term Design Strength (LTDS) of more than 50% of ultimate tensile strength at 30 degree Celsius corresponding to 12 % strain .		
31.18.1	Ultimate tensile strength- 100 kN/m	Sqm	362.66
31.18.2	Ultimate tensile strength- 150 kN/m	Sqm	379.87
31.18.3	Ultimate tensile strength- 200 kN/m	Sqm	603.65
31.18.4	Ultimate tensile strength- 250 kN/m	Sqm	620.87
31.18.5	Ultimate tensile strength- 300 kN/m	Sqm	638.08
31.18.6	Ultimate tensile strength- 350 kN/m	Sqm	655.29

SI No.	Description of Item	Unit	Amount in Rs.
31.18.7	Ultimate tensile strength- 400 kN/m	Sqm	295.37
31.18.8	Ultimate tensile strength- 500 kN/m	Sqm	879.08
31.18.9	Ultimate tensile strength- 600 kN/m	Sqm	965.15
31.18.10	Ultimate tensile strength- 700 kN/m	Sqm	1118.90
31.18.11	Ultimate tensile strength- 800 kN/m	Sqm	1266.39
31.18.12	Ultimate tensile strength- 900 kN/m	Sqm	1481.56
31.18.13	Ultimate tensile strength- 1000 kN/m	Sqm	1653.70
31.18.14	Ultimate tensile strength- 1100 kN/m	Sqm	1749.44
31.18.15	Ultimate tensile strength- 1200 kN/m	Sqm	1835.51
31.19	Providing at all heights, levels and locations Aluminium profile industrial troughed sheet of Alloy31500/31000/40800, conforming to IS 1254, IS 737, IS 2676. The sheet shall be fixed using self drilling/selftapping SS screws of size 5.5x65 mm with EPDM seal complete upto required pitch in horizontal, vertical or curved surfaces i/c cutting to size and shape where required as per specifications, detail drawings and direction of Engineer-in-Charge. The rate shall be inclusive of all screws, seal, ridge, labour, scaffolding, machinery for fixing and approved sealant where required etc. but excluding the cost of purlins, rafters and trusses.		
31.19.1	0.71 mm thick, the profile detail width 1044/920 mm, cover width 1000/875 mm.	Sqm	1153.56
31.19.2	0.91 mm thick, the profile detail width 1044/920 mm, cover width 1000/875 mm.	Sqm	1461.80
31.22	Providing and fixing false ceiling at all heights with integral densified calcium silicate reinforced with fibre and natural filler false ceiling tiles of Size 595x595mm of approved texture, design and patterns as per CPWD Specification 2019, to be laid in true horizontal level suspended on inter-locking metal T-Grid of hot dipped galvanised iron section of 0.33mm thick (galvanized @ 120 grams per sqm including both sides) comprising of main-T runners of size 24x38 mm of length 3001 mm, cross - T of size 24x32 mm of length 1200 mm and secondary intermediate cross-T of size 24x32 mm of length 600mm to form grid module of size 600 x 600 mm, suspended from ceiling using galvanised mild steel items (galvanizing @ 80 grams per sqm) i.e. 12x50 mm long dash fasteners, 6 mm dia fully threaded hanger rod upto 1001mm length and L-shape level adjuster of size 76x25x25x1.6 mm fixed with grid and Z cleat of size 25x37x25x1.6mm thick with pre-cut hole on both 25mm flange to pierce into 12x50mm or even bigger size dash fastener if required, fixed with Galvanised iron perimeter wall angle or size 24x24x0.40 mm of length 3000 mm to be fixed on periphery wall /partition with the help of plastic rawl plugs at 450mm center to center and 40 mm long dry wall S.S screws. The work shall be carried out as per specifications, drawing and as per directions of the Engineer-in-Charge		
31.22.1	With 15 mm thick Tegular edged light weight calcium silicate false ceiling tiles	Sqm	2159.28
31.22.2	With 15 mm thick tegular/butt edged without perforation plain/designer light weight calcium silicate Anti-Microbial Bio-Safe coated false ceiling tiles Confirming to JIS-Z2801 and ASTM G-21	Sqm	2298.95

SI No.	Description of Item	Unit	Amount in Rs.
31.23	<p>Providing and fixing false ceiling at all heights with integral densified calcium silicate reinforced with fibre and natural filler false ceiling tiles of Size 595x595 mm of approved texture, design and pattern having NRC (Noise Reduction coefficient) of 0.50 (minimum) as per IS 8225:1987, Light reflectance of 85% (minimum). Non combustible as per BS:476 (part-4), fire performance as per BS:476 (part 6 &7), humidity resistance of 100%, thermal conductivity < 0.043 W/m K as per ASTM 518:1991, in true horizontal level suspended on inter-locking metal powder coated T-Grid of hot dipped galvanised iron section of 0.40 mm thick on Silhouette profile, rotary stitched double webbed white with 6mm reveal profile (white/black), comprising of main-T runners of size 15x42mm of length 3000 mm, cross - T of size 15x42 mm of length 1200 mm and secondary intermediate cross-T of size 15x42 mm of length 600mm to form grid module of size 600 x 600 mm, suspended from ceiling using galvanised mild steel items (galvanizing @ 80 grams per sqm) i.e. 50 mm long, 8 mm outer diameter M-6 dash fasteners, 6 mm dia fully threaded hanger rod upto 1000 mm length and L-shape level adjuster of size 85x25x2 mm. Galvanised iron perimeter wall angle of size 22x19x0.40 mm of length 3000 mm to be fixed on periphery wall / partition with the help of plastic rawl plugs at 450 mm center to center and 40mm long dry wall S.Screws. The work shall be carried out as per specifications, drawing and as per directions of the Engineer-in-Charge.</p>		
31.23.1	<p>With 15 mm thick integral densified micro edge light weight calcium silicate false ceiling tiles</p>	Sqm	2646.95
31.24	<p>Providing and fixing in position wall panelling at all heights with integral densified calcium silicate panels/tiles of size 595 x 595mm, having NRC (Noise Reduction coefficient) of 0.50 (minimum) as per IS 8225:1987, Light reflectance of 85% (minimum). Non combustible as per BS:476 (part-4), fire performance as per BS:476 (part 6 &7), humidity resistance of 100%, thermal conductivity < 0.043 W/m K as per ASTM 518:1991, comprising of a frame made from especially fabricated galvanised mild steel sheet 0.50 mm thick pressed section (galvanizing @ 120 grams per sqm including both sides) i.e. vertical studs of size 48 x 34 x 36 mm are placed at 600mm center to center in a floor and ceiling channel section of size 50 x 32mm fixed to the floor and soffit at 600mm centers using 12mm dia, 50mm long wedge type expanded zinc alloy dash fastener with 10mm bolt. This same channel is then to be fixed in horizontal direction at 600mm center to center so as to form a grid of 600mm x 600mm. Glasswool of 50mm thickness is then to be inserted in the slots and finally calcium silicate non combustible panels/tiles are to be screw fixed with self tapping pan head nickel coated mild steel screws of size 13 x 3.2mm on to this grid leaving an even groove of 1 mm between the panels. The joints between the panels are to be duly jointed and finished using recommended jointing calcium silicate based compound and fiber joint tape roll 50mm wide (90 metre) roll and two coats of primer suitable for panelling as per manufacturer's specification as per direction of Engineer-in-Charge all complete.</p>		
31.24.1	<p>With 15 mm thick fully perforated square/butt edge light weight calcium silicate panels/ tiles</p>	Sqm	3685.40

SI No.	Description of Item	Unit	Amount in Rs.
31.25	Providing and fixing 15 mm thick false ceiling tiles at all heights with integral densified calcium silicate reinforced with fibre and natural filler false ceiling tiles of Size 595x595 mm of approved texture, design and patterns having NRC (Noise Reduction coefficient) of 0.50 (minimum) as per IS 8225:1987, Light reflectance of 85% (minimum). Non combustible as per BS:476 (part-4), fire performance as per BS:477(part 6 & 7), humidity resistance of 100%, thermal conductivity < 0.043 W/m K as per ASTM 518:1991, in true horizontal level on the existing frame work consisting of T-sections and L-sections suitably fixed according to tile size as per direction of Engineer-in-charge.	Sqm	1642.61
31.26	Providing & fixing false ceiling at all heights with GRG (Glass Fibre Reinforced Gypsum) false ceiling tiles of Size 595x595 mm of approved texture, design and patterns having moisture content less than 2%, humidity resistance of 99%, NRC 0.50 to 0.75 as per IS 8225:1987, Non combustible as per BS 476 (part 4)-1971 and light reflectance of 85% (minimum) to be laid in true horizontal level suspended on inter-locking metal T-Grid of hot dipped galvanised iron section of 0.33mm thick (galvanized @ 120 grams per sqm including both sides) comprising of main-T runners of size 15x32 mm of length 3000 mm, cross - T of size 15x32 mm of length 1200 mm and secondary intermediate cross-T of size 15x32 mm of length 600mm to form grid module of size 600 x 600 mm, suspended from ceiling using galvanised mild steel items (galvanizing @ 80 grams per sqm) i.e. 50 mm long, 8 mm outer diameter M-6 dash fasteners, 6 mm dia fully threaded hanger rod upto 1000 mm length and L-shape level adjuster of size 85x25x2 mm Galvanised iron perimeter wall angle of size 24x24x0.40 mm of length 3000 mm to be fixed on periphery wall / partition with the help of plastic rawl plugs at 450 mm center to center and 40 mm long dry wall wood screws. The work shall be carried out as per specifications, drawing and as per directions of the Engineer-in-Charge.		
31.26.1	With semi perforated 12 mm thick micro tegular edged GRG false ceiling tiles.	Sqm	2286.29
31.26.2	With fully perforated 12 mm thick micro tegular edged or 10 mm thick square edged GRG false ceiling tiles.	Sqm	2331.79

SI No.	Description of Item	Unit	Amount in Rs.
31.27	Providing and fixing mineral fibre false ceiling tiles at all heights of size 595X595mm of approved texture,design and pattern. The tiles should have Humidity Resistance (RH) of 99%, Light Reflectance > 85%,Thermal Conductivity k = 0.052 - 0.057 w/m K, Fire Performance as per (BS 476 pt - 6 &7)in true horizontallevel suspended on interlocking T-Grid of hot dipped all round galvanized iron section of 0.33 mm thicklevel suspended on interlocking T-Grid of hot dipped all round galvanized iron section of 0.33 mm thick(galvanized @120 gsm) comprising of main T runners of 15x32 mm of length 3000 mm, cross T of size15x32mm of length 1200 mm and secondary intermediate cross T of size 15x32 mm of length 600 mm toform grid module of size 600x600 mm suspended from ceiling using galvanized mild steel item(galvanised@80gsm) 50 mm long 8mm outer diameter M-6 dash fasteners, 6 mm diameter fully threadedhanger rod up to 1000 mm length and L-shape level adjuster of size 85x25x2 mm, spaced at 1200 mmcentre to centre along main 'T'. The system should rest on periphery walls /partitions with the help of Glperimeter wall angle of size24x24X3000 mm made of 0.40 mm thick sheet, to be fixed to the wall withhelp of plastic rawl plug at 450 mm centre to centre & 40 mm long dry wall S.S. screws. The exposedbottom portion of all T-sections used in false ceiling support system shall be pre-painted with polyesterbaked paint, for all heights. The work shall be carried out as per specifications, drawings and as perdirections of the engineer-in-charge.		
31.27.1	With 16 mm thick beveled tegular mineral fibre false ceiling tile (NRC 0.55 to 0.6	Sqm	2544.54
31.27.3	With 16 mm thick beveled tegular mineral fibre Anti-microbial false ceiling tile confirming to ISO 5 (class100) specifications	Sqm	2684.54
31.28	Chipping of unsound/weak concrete material from slabs, beams, columns etc. with manual Chisel and/or by standard power driven percussion type or of approved make including tapering of all edges,making square shoulders of cavities including cleaning the exposed concrete surface and reinforcementwith wire brushes etc. and disposal of debris for all lead and lifts all complete as per direction ofEngineer-In-Charge		
31.28.1	75mm average thickness	Sqm	3.61
31.28.2	50mm average thickness	Sqm	2.44
31.28.3	25 mm average thickness	Sqm	1.22
31.29	Cleaning of reinforcement from rust from the reinforcing bars to give it a total rust free steel surface byusing alkaline chemical rust remover of approved make with paint brush and removing loose particlesafter 24 hours of its application with wire brush and thoroughly washing with water and allowing it todry, all complete as per direction of Engineer-In-Charge.		
31.29.1	Bars upto 12 mm diameter	Meter	224.03
31.29.2	Bars above 12 mm diameter	Meter	224.03

SI No.	Description of Item	Unit	Amount in Rs.
31.30	Drilling suitable holes in reinforced or plain cement concrete with power driven drill machine to a minimum depth of 100mm upto 200mm in RCC beams, lintels, columns and slabs to introduce steel bars for sunshades/balconies including fixing the steel bars in position using epoxy resin anchor grout of approved make but excluding the cost of reinforcement, all complete as per direction of Engineer-In-Charge.		
31.30.1	Upto and including 12mm dia.	Each	141.20
31.31	Providing, mixing and applying bonding coat of approved adhesive on chipped portion of RCC as perspecifications and direction of Engineer-In-charge complete in all respect.		
31.31.1	SBR Polymer (@10% of cement weight) modified cementitious bond coat @ 2.2 kg cement per sqm of surface area mixed with specified proportion of approved polymer	Sqm	162.06
31.31.2	Epoxy bonding adhesive having coverage 2.20 sqm/kg of approved make	Sqm	439.06
31.32	Providing, mixing and applying SBR polymer (of approved make) modified Cement mortar in proportion of 1:4 (1 cement: 4 graded coarse sand with polymer minimum 2% by wt. of cement used) as perspecifications and directions of Engineer-in-charge.		
31.32.2	12 mm average thickness.	Sqm	399.92
31.32.2	25 mm average thickness in 2 layers.	Sqm	399.92
31.32.3	50 mm average thickness in 3 layers.	Sqm	1261.44
31.33	Providing, mixing and applying SBR polymer (of approved make @ minimum 2% by wt. of cement used) modified plain/reinforced cement concrete for structural members having minimum characteristic compressive strength [with ordinary portland cement, coarse sand and graded stone aggregate of 10mm maximum size in proportion as per design criteria] with specified average thickness.		
31.33.1	50mm thick in Grade M 25 with cement content not less than 330 kg per cum	Sqm	752.61
31.33.2	75mm thick in Grade M 25 with cement content not less than 330 kg per cum	Sqm	1769.33
31.34	Providing and laying SBR Polymer modified (of approved make @ minimum 2% by wt. of cement used) plain/reinforced concrete jacket for the structural members e.g. columns, pillars, piers, beams etc with concrete having the specified minimum characteristic compressive strength [with ordinary portland cement, coarse sand and graded stone aggregate of 10mm maximum size in proportion as per design criteria] with specified average thickness all-round existing core of RCC member.		
31.34.1	50mm thick in Grade M 25 with cement content not less than 330 kg per cum	Sqm	1073.17
31.34.2	75mm thick in Grade M 25 with cement content not less than 330 kg per cum	Sqm	2858.00
31.34.3	100mm thick in Grade M 25 with cement content not less than 330 kg per cum	Sqm	868.38

SI No.	Description of Item	Unit	Amount in Rs.
31.35	Providing and injecting approved grout in proportion recommended by the manufacturer into cracks/honey-comb area of concrete/masonry by suitable gun/pump at required pressure including cutting of nipples after curing etc. complete as per directions of Engineer-in-Charge. (The payment shall be made on the basis of actual weight of approved grout injected.)		
31.35.1	Stirrer mixed Acrylic Polymer of approved make @ 2% of weight of cement used) modified Cement slurry made with non shrink compound in concrete/RCC work	Kg	143.65
31.35.2	Stirrer mixed SBR Polymer (of approved make) modified Cement slurry made with Shrinkage Compensating Cement in concrete/RCC work.	Kg	872.63
31.35.3	Epoxy injection grout in concrete/RCC work of approved make	Kg	872.63
31.36	Providing, erecting, maintaining and removing temporary protective screens made out of specified fabric with all necessary fixing arrangement to ensure that it remains in position for the work duration as required by the Engineer-in-charge.		
31.36.1	Wooven PVC cloth	Kg	97.72
31.37	Cleaning of exposed concrete surface of sticking material including loose and foreign material by sandblasting with coarse sand followed by and including cleaning with oil free air blast as per direction of Engineer in charge.	Sqm	280.74
31.38	Shotcreting R.C.C. columns, beams and slabs etc. in layers with approved design mix concrete having the specified minimum characteristic compressive strength [with ordinary portland cement, coarse sand and graded stone aggregate of 10 mm maximum size in proportion as per design criteria] including the cost of centering and shuttering at edges and corners etc. as directed by Engineer-in-Charge		
31.38.1	25mm thick in Grade M 25 with cement content not less than 330 kg per cum	Sqm	808.92
31.38.2	50mm thick in Grade M 25 with cement content not less than 330 kg per cum	Sqm	1314.98
31.38.3	75mm thick in Grade M 25 with cement content not less than 330 kg per cum	Sqm	1885.38
31.39	Providing and inserting 12mm dia galvanised steel injection nipple in honey comb area and along crackline including drilling of holes of required diameter (20mm to 30mm) up to depth from 30mm to 80mm at required spacing and making the hole & crack dust free by blowing compressed air, sealing the distance between injection nipple with adhesive chemical of approved make and allow it to cure complete as per direction of Engineer-In-Charge.	Each	244.95
31.40	Providing and fixing hard drawn steel wire fabric of size 75 x 25 mm mesh or other suitable size wire mesh to be fixed & firmly anchored to the concrete surface by means of "L" shaped mild steel shear key welded with existing reinforcement including the cost of materials, labour, tool & plants as approved by Engineer-in-charge.	Sqm	6439.31

SI No.	Description of Item	Unit	Amount in Rs.
31.41	<p>Designing, providing, installing and fixing factory finished custom designed cold form Light Gauge Steel Framed super structure comprising of steel wall panel, trusses, purlins etc manufactured out of minimum 0.75 mm thick steel sheet as per design requirements. The steel sheet shall be galvanized (AZ-150gms Aluminium Zinc Alloy coated steel having minimum yield strength 300-550 Mpa) conforming to AISI specifications and IBC 2009 for cold formed steel framing and construction and also as per IS: 875-1987, ISO 800-1984 and IS:801 - 1975. The wind load shall be as per provisions of IS 875 (part -III). LGSFS frame shall be designed as per IS: 801 using commercially available software such as Frame CAD Pro-11.7/ STAAD PRO-V8i/ArchitekV2.5.16/ Revit architecture-2011 or equivalent. Proper usage of Connection Accessories like Heavy Duty Tension Ties, Light Duty Hold-ons, Twist Straps (to connect truss with wall frames), Strong Tie, Tie Rod, H-Brackets, Boxing Sections, L-Shaped Angles for better structural stability.</p> <p>The framing section shall be cold form C-type having minimum web depth 89 mm x 39mm flange x 11mm lip in required length as per structural design requirement duly punched with dimple/slot at required locations as per approved drawings. The slots will be along centre line of webs and shall be spaced minimum 250mm away from both ends of the member. The frame can be supplied in panelized or knock down condition in specific dimensions and fastened with screws extending through the steel beyond by minimum of three exposed threads.</p> <p>All self drilling tapping screws for joining the members shall have a Type II coating in accordance with ASTM B633(13) or equivalent corrosion protection of gauge 10 & 12, TPI 16 & 8 of length 20mm. The frames shall be fixed to RCC slab over Neoprene rubber using self expanding carbon steel anchor bolt of dia as per approved drawings. design subject to minimum 12mm diameter and 121mm length conforming to AISI 304 and 317 at 500mm c/c with minimum embedment of 100mm in RCC (RCC to be paid separately) and located not more than 300mm from corners or termination of bottom tracks complete in all respects. The item also includes the submission of stability reports duly examined and issued by any NIT/IIT. The rate includes the concept design, detailed design, fabrication of sections, transportation, installation and all required fixing arrangement at site as described above.</p>	Kg	313.71

SI No.	Description of Item	Unit	Amount in Rs.
31.42	2Providing and fixing of external wall system on Light gauge steel frame work with outer face cement boards asper standard sizes fixed with self- drilling / taping screws / fasteners @ 60cm c/c of approved make. A groove of3 mm to 3mm shall be maintained and grooves shall be sealed with silicon based sealant. The board shall befixed in a staggered pattern. Screws shall be of counter sunk rib head of 1.60mm to 4 mm thick or 8 to 10 gaugeof length varying from 25 to 45 mm and. Internal face 12.5 mm thick gypsum plaster board fixed on cementboard as per standard sizes fixed with self- drilling / taping screws / fasteners @ 60cm c/c of approved make,proper taping and jointing to be done using fiber mesh tape and epoxy and acrylic based jointing compound forseamless finish.(cost of frame work to be paid for separately)		
31.42.1	Outer face: Outer face having 6mm thick fiber cement board fixed on 9mm thick fiber cement board, Type A, asper IS:14862:2000 (high pressure steam cured) Inner Face :-12.5 mm thick gypsum plaster board conforming toIS 2095:2011 fixed on 8 mm thick fibre cement board confirming to IS:14862:2000 of type B (High pressuresteam cured)	Sqm	4950.19
31.42.2	Outer face: Outer face having 8 mm thick cement bonded particle Board fixed on 10 mm thick cement bondedparticle board. (Termite, Fire and Moisture Resistance) as per IS 14276:1995. Inner face:-12.5 mm thick gypsumplaster board conforming to IS 2095:2011 fixed on 8 mm thick cement bonded particle board (Termite, fire andmoisture resistance) confirming to IS:14276:1995)	Sqm	4086.36
Sub AR-1	Sub AR-1 Filling the groove (i.e. 2-3mm gap between boards),taping and jointing of the first layer 6mm and 9mmthick fiber cement boards with epoxy based sealing compound or with silicon sealant. Second layer isfixed over it in a staggered pattern.	Sqm	169.34
Sub AR-2	Sub AIR-2 Fill the groove (i.e. 2-3mm gap between boards),taping and jointing 8mm thick fiber cement board and12.5mm thick gypsum plaster boards with epoxy based sealing compound, Acrylic based sealingcompound, Non woven reinforcement Tape as per direction of Engineer in charge.(Use a flexible knife sothat no air bubble is entrapped. Allow 1-2 hours gap. Once hard tacky or set, apply a coat of Acrylicbased sealing compound paste to flash fill the beveled area. After 2-4 hours go on to repeat a skin coatwith Acrylic based sealing compound to securely embed the 40mm width (non woven reinforcementTape. Use only flexible steel knife, such as provided with packs, to avoid air entrapment withincompound. After overnight drying shrinkage apply a coat of acrylic based sealing compound tocompound. After overnight drying shrinkage apply a coat of acrylic based sealing compound tocompensate shrinkage. Finally cover the bevel portion with any suitable overall skin coat with a desiredfull surface-leveler material).	Sqm	473.50

SI No.	Description of Item	Unit	Amount in Rs.
31.43	Providing and fixing internal wall panels on Light gauge steel frame work with 12.5mm thick gypsum plasterboard conforming IS 2095:2011 fixed on cement board as per standard sizes fixed with self-drilling / tapingscrews / fasteners @ 60cm c/c of approved make, Screws shall be of counter sunk rib head of 1.60mm to 4 mmthick or 8 to 10 gauge of length varying from 25 to 45 mm. Proper taping and jointing to be done using fibermesh tape and epoxy and acrylic based jointing compound for seamless finish.(cost of frame work to be paid forseparately		
31.43.1	Cement Fiber Board 8 mm thick as per IS 14862:2000 of type B (High pressure Steam Cured)	Sqm	3683.18
31.43.2	Cement Bonded particle board 8 mm (Termite, Fire & Moisture Resistance), as per IS:14276 : 1996	Sqm	3645.62
31.44	Providing and fixing in all exterior face panels breathable vapour barrier underneath the cement fiberboard as per National Building Code 2009 complete as per direction of Engineer-in-charge.	Sqm	372.29
31.45	Supplying and installation of moisture resistant/fire resistant cement board as per standard sizes fixed with self-drilling / taping screws. Screws shall be of counter sunk rib head of 1.60mm to 4 mm thick or 8 to 10 gauge oflength varying from 25 to 45 mm.		
31.45.1	Cement Fiber Board 6 mm thick as per IS 14862:2000 of type B (High pressure Steam Cured)	Sqm	1442.31
31.45.2	Cement Bonded particle board 8 mm thick (Termite, Fire & Moisture Resistance), as per IS:14276 : 1996	Sqm	1235.74
31.46	Providing and fixing in position, 200 mm thick factory made Expanded Polystyrene Core (EPS Core) wallpanels consisting of EPS core sandwiched between two Engineered sheets of welded wire fabric meshduly finished with shortcrete materials on outer faces. The fabric mesh shall be made of 3 mm dia G.I.wire mesh with 50 mm pitch in both the directions and on both faces of the wall, kept at 120-135 mm gapand connected by the zig zag G.I. wire of 3 mm dia at alternate row by welding (at an angle ranging from50-70 degree) . The EPS core shall consist of 100 mm thick EPS of density not less than 20 kg/ per cum.Both the outer faces of the panel shall be finished by applying the layer of 50 mm thick cement mortar1:3 {1 cement: 3 coarse sand (not having more than 40% stone chips of size upto 6 mm)} A with the helpof shotcreting/guniting equipment etc at a pressure not less than 1 bar (100Kn/m2) and both surfacesfinished with trowel. Fixing operations of wall panels shall be completed in all respect as per drawingsfinished with trowel. Fixing operations of wall panels shall be completed in all respect as per drawingsand specifications and under the overall direction of the Engineer-in-charge.	Sqm	4824.24

SI No.	Description of Item	Unit	Amount in Rs.
31.47	<p>Providing and fixing in position, 230mm thick factory made Expanded Polystyrene Core (EPS Core) roof/floor panels made of 3 mm dia G.I. wire mesh with 50 mm pitch in both the directions and on both faces of panel, kept at 120-135 mm gap and connected by the zig zag G.I. wire of 3 mm dia at alternate row by welding (at an angle ranging from 50-70 degree). The EPS core shall consist of 100 mm thick EPS of density not less than 20kg/ per cum. The bottom side of the panel shall be finished by applying a layer of 60-65 mm thick cement mortar 1: 3 {1 cement: 3 coarse sand (not having more than 40% stone chips of size upto 6 mm)} with the help of shotcreting equipment etc at a pressure of not less than 1 bar (100Knm²) and surface finished with trowel. The top face of the panel shall be provided and finished by applying 70-75 mm thick layer of cement concrete 1:1.5: 3 (1 cement :1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size). Fixing operations of roof/floor panels shall be completed in all respects as per drawings and specifications and under the overall direction of the Engineer-in-charge.</p>	Sqm	5983.90
31.48	<p>Providing and fixing of customized Aluminium form work for monolithic construction on RCC members with repetitive usage made up of aluminium sheets/plates of minimum 4mm thickness and grade 6062 (Type-6). The formwork shaped brackets braced diagonally at 0.90 to 1.00 mtr. centre to centre on external wall face just the level or comprises of (a) wall panel, rocker, kicker and internal soffit corner, external soffit corner, external corner, internal corner etc., (b) beam components i.e, beam side panel prop head for soffit beam, beam soffit panel, beam soffit bulk head and (c) deck components i.e. deck panel, deck prop, prop length, deck mid, soffit length, deck beam bar. The panels are held in position by a simple pin and wedge system that passes through holes in the outside rib of each panel. The tolerance of finished panel shall not be less than (-1 mm) and shall conform to IS 14987-1999. Pins and wedges to be made of high grade hot dipped galvanized mild steel.</p>	Sqm	546.01

Sl No.	Description of Item	Unit	Amount in Rs.
	<p>This form work also comprises of M.S. angle iron, "Z"below on which to lay M.S. square tube panels (Challis) and guard railing supports to form workingbelow on which to lay M.S. square tube panels (Challis) and guard railing supports to form workingplatform and 40 mm dia G.I. telescopic adjustable props to support deck formwork and beam soffitpanels including de-shuttering the formwork from odd/even level to be shifted/lifted to next alteranteodd/even level before which the points and shuttering surface to be thoroughly cleaned, pins greasingand shuttering surface oiling propoerly before fixing all complete including sealing of gap betweenkicker plates of wall panel and floors (if any) as per design of formwork as provided by shutteringkicker plates of wall panel and floors (if any) as per design of formwork as provided by shutteringsupplier and as per direction of the Engineer-in-charge including filling and finishing the holes of varied sizes and shapes (left by keys/pins of aluminium form work shuttering while de-shuttering) with GP-3cementeous polymer compound mixed with water in ratio prescribed by manufacturer to form consistentworkable dough for pushing it in the holes upto full depth of wall using appropriate tools and finishingsmooth all complete as per directions of the Engineer-in-charge.</p>		
Sub A/R - 1	complete as per directions of the Engineer-in-charge.	Kg	930039.06
Sub A/R - 2	complete as per directions of the Engineer-in-charge.	Each	24.90
31.49	<p>Providing and fixing in position factory made EPS cement sandwich wall/roof/floor light weight solid core panelsmade of core material of EPS granule balls/beads (conforming to IS 4671:1984 and shall have density not less than15kg per cum) adhesive, cement, sand, flyash and other bonding material in mortar state processed to form in apreset mould. The outer face on both sides of the panels will be non asbestos fiber cement board confirming to IS14862:2000 or Calcium silicate board confirming to EN 14306:2009 of 5mm thick each. Panel shall be laid on 6mmthick cement mortar (1 cement: 2 fine sand) mixed with chemical adhesive of 0.5kg per 50kg of cement or shall bethick cement mortar (1 cement: 2 fine sand) mixed with chemical adhesive of 0.5kg per 50kg of cement or shall bepreferably fixed into 'C' channel made of 1.2mm thick MS plate screwed/fastened to the slab/column/beam etc.The panel shall fixed vertically with tongue and groove joint and horizontally locked with steel bar between eachother and floors and filled with cement mortar and adhesive. Panels should be used as floor & roofing withadditional structural support, steel or RCC depending upon the design. All the operation shall be completed in allrespect as per drawings, Manufacturers specifications and under the overall direction of Engineer-in-Charge (Costof all the material is included except "C channel" which will be paid seperately).</p>		
31.49.1	Non load bearing panels 50mm thick of required size	Sqm	1395.00
31.49.2	Non load bearing panels 60mm thick of required size	Sqm	1583.96
31.49.3	Non load bearing panels 75mm thick of required size	Sqm	1920.81
31.49.4	Non load bearing panels 90mm thick of required size	Sqm	2298.73
31.49.5	Non load bearing panels 100mm thick of required size	Sqm	2701.30

SI No.	Description of Item	Unit	Amount in Rs.
31.50	<p>Providing and fixing in position factory made non asbestos fibre reinforced aerated cement sandwich wall/roof/floorlight weight solid core panels made of light weight cement concrete core composed of OPC cement, pulverizedflyash, quick lime, cotton pulp & Gypsum in mortar state mixed with aeration agent in a preset mould. The outerface on both sides of the panels will be non asbestos fibre cement board confirming to IS 14862:2000. These solidwall panels are installed using Galvanized iron steel tracks/C channel of 1mm thick of required sizes asrecommended by manufacturer's and fixed to floor and RCC soffit in plumb to each other with steel screw/fasteners.The panel shall be fixed vertically with tongue & groove joint with cement based polymer modified jointingcompound. The exposed surface finished with fibre mesh/glass fibre tape with polymer based jointing compoundhaving superior flexibility. Panels should be used as floor & roofing with additional structural support, steel or RCCdepending upon the design. All the operation shall be completed in all respect as per drawings, Manufacturer'sspecifications and under the overall direction of Engineer-in-Charge (Cost of all the material is included except"tracks/C channel" which will be paid separately).</p>		
31.50.1	Non load bearing panels 50mm thick of required size (minimum 4mm thick fibre cement board)	Sqm	1677.22
31.50.2	Non load bearing panels 75mm thick of required size (minimum 5mm thick fibre cement board)	Sqm	1952.07
31.51	<p>Supplying of standard quality GFRG panel of 124 mm thickness with modular cavities purchased from GFRGpanel manufacturing plant in the country, cut to required wall sizes and floor/ roof slab sizes in correct lengthand height, including cutting of door, window and ventilator opening as per the cutting drawing prepared byarchitects /design engineers for the construction of GFRG building and loaded in stillages for transportation tothe construction site. Cost of panel includes security deposits, hire charges of stillages & jaws, cost oftransportation in trucks/ lorries without any damages upto 300kms including all leads and lifts from be made on the basis of area of one side of panel without reduction of opening of door/ window / ventilator).GFRGmanufacturing plant to construction site and unloading at site using suitable fork lift/ crane. (Payment shallFor transportation above 300kms, additional charges to be paid.</p>	Sqm	166.35

SI No.	Description of Item	Unit	Amount in Rs.
31.52	<p>Erection of GFRG Panels in walls in all floors using suitable crane as per instructions of Engineer-in-Charge, as per cutting drawings and structural drawings, in perfect line and plumb, above RCC plinth beam/GFRG panel below and provide necessary lateral/ slanting support to keep the wall panel in safe position, providing & tying of Reinforcement as per structural drawings and applying a coat of water repellent coating Zycosil/equivalent or equivalent product (1 Zycosil/equivalent compound :10 water) to saturation level over RCC plinth beam to provide water proofing treatment to joint between wall panel & plinth beam as per the guide lines / instruction by the engineer in charge. (Cost of reinforcement, water proofing of walls and plinth beam/GFRG panel below joints and installation of door/ window frames before filling of concrete shall be paid separately). The rate quoted shall include making provision for laying of lintels, beams, sunshades, staircase beams, lofts, plumbing work, electrical conduits and any structural insertion etc., as per the drawing and direction of the engineer in charge. The payment shall be made based on the actual exposed area (one side only) of the panel. The work shall be carried out as per the Special Conditions For Glass Fibre Reinforced Gypsum (GFRG) Structures mentioned in NIT.</p> <p>Note: i) When cutting panel, "A" side is to be for outside or external surface of respective external wall and B side is to be for internal surface of wall ii) Erection of panel is to be with reference to both building plan & cutting drawing by following notational mark indicated in the cutting drawing as well as notional mark written on each panel cut as per cutting drawing</p>	Sqm	342.65
31.53	<p>Filling of empty cavities (as shown in the structural design drawing) with quarry dust mixed with 5% cement (by volume). After initial infill of 50 mm thick with M25 concrete at base/bottom of cavities to seal off, infill wall panel cavities in 3 stages as detailed below, (i) 1st pour / infill to be limited to 0.3 to 0.50 m height from bottom of the panel. (ii) 2nd Pour/ infill: infilling shall be done only after 90 minutes interval between successive pours. The maximum height of infill shall be restricted to 1.5m height or up to the top level of door / window. (iii) 3rd pour/infill: After an interval of 90 minutes of second pour, infill or pour the balance height up to the bottom of embedded RCC tie beam. Pour enough water just required to dampen the dry mix enough to form cake form after each stage. (cost of laying M25 concrete shall be paid separately) (If any rain falls in between any stages of concrete pour, make sure to cover the panel top to prevent ingress of water or water falling into the cavities. In case of water collection over the concrete inside the panel, drill 10mm hole in GFRG panel immediately above concrete filled level to drain out water before pour/in-fill or balance concreting)</p>	Cum	2571.51

SI No.	Description of Item	Unit	Amount in Rs.
31.54	<p>Laying of GFRG panel as roof / floor slab panel and staircase panel using suitable crane as per instructions of Engineer-in-Charge, including providing support system with 25mm x 300mm-400 mm wide plywood, as runner with proper prop below proposed micro beams including</p> <p>(a) Cutting of top flange of panel to 180 mm wide (leaving 25mm projection on either side) to provide RCC embedded micro beam as per cutting drawings and structural drawings.</p> <p>(b) Reinforcement for micro beams and tie beams to be provided in position with proper anchorage as per structural drawings.</p> <p>(d) Concreting of Tie beam, micro beam and top of GFRG panels (50 mm thick) with M-25 cement concrete mix using coarse aggregate of size less than 20 mm including laying of 10 gauge 100x100 size weld mesh with 26 mm effective cover from the panel top.</p>	Sqm	365.40
31.55	<p>Supplying and fixing 10 Gauge weld mesh of size 100mm x 100 mm for floor/roof slab concrete screed over the micro beams as reinforcement. The weld mesh shall be fixed as per drawing.</p>	Sqm	322.82
31.56	<p>Application of ZMB 60/ equivalent solution (100 Kg ZMB 60/ equivalent, 1 litre ZMB Nano Thinner, 20 litre water & 1 Litre Zycoprime/ equivalent = 122 litre/kg) over already applied coat of Zycosil/ equivalent & Zycoprime/ equivalent solution on the top of all the RCC plinth beams by brush/spray coat before erection of GFRG over RCC plinth beams in GF. In the case of upper floors 150 mm wide on floor slab for all the external walls, bath/toilet/wet areas (3 hrs drying time) before erection of wall panel on upper floors including erection of parapet wall.</p>	Sqm	375.11
31.57	<p>After erection of GFRG wall panels, seal all GFRG wall joints with paper tape temporarily. Water proofing treatment of vertical joints with Zycosil/ equivalent water proofing Solution (1 litre of Zycosil/ equivalent & 21 litres of water stirred first & 2 litres of Zycoprime/ equivalent added and stirred (total 23 litres)) with 50 mls syringe till the gap and in filled concrete is completely saturated. After removing the paper seal, seal off the vertical joints with water proofing material "Grout RW/ equivalent " (Sealing cost excluded.)</p>	Meter	105.92
31.58	<p>Filling of joints between RCC plinth beam / floor slab and wall panel of external walls, toilet / bath room / wet areas walls on all floor and parapet wall over roof slab, stair case head room at the time of erection of GFRG panels with Grout RW/ equivalent sealant compound after the erection of panel before the infill of concrete in panel cavities and fine finish. This applies for all horizontal and vertical joints between GFRG wall and slab panels.</p>	Meter	50.24
31.59	<p>Water proofing treatment of Vertical joints (of external side and internal side) between door frame, window & ventilator frames (on all four sides) of outer wall over the Zycosil/ equivalent & Zycoprime/ equivalent solution already applied (before the installation of door / window / ventilator frames in position) and fine finish with Grout RW/ equivalent.</p>	Meter	135.23

SI No.	Description of Item	Unit	Amount in Rs.
31.60	Water proofing treatment of RCC sunshade with Zycosil/equivalent water proofing Solution (1 litre of Zycosil/equivalent & 20 litres of water stirred first & 2 litres of Zycoprime/equivalent added and stirred (total 24 litres)) till it meets the saturation level and testing as per RILEM or by water drops test in which waterdrops do not absorb but drops remain or rolls.	Meter	164.86
31.61	In-filling / sealing of joint between RCC lintel cum sunshade and wall (on external side) in all floors by pushing in Grout RW/equivalent in paste form and coving 20 mm x 20 mm after applying a coat of Zycosil/equivalent & zycoprime/equivalent solution before cement plastering of top, bottom and sides of RCC sunshade.	Meter	135.23
31.62	Designing, Providing, installing and fixing factory finished customised design pregalvanized high tensile steel joists manufactured from G350 Z275 conforming to IS:277-1992, minimum coating of galvanizing 275 gm/sqm, minimum yield stress 35 MPa & minimum tensile strength of 380 MPa placed 1.23 metre apart to support the load of slab etc as per the design & directions of Engineer-in-Charge.	Kg	194.62
31.63	Providing and fixing special adjustable lockbars of mild steel E-250 to support the temporary plywood forwork between joists during construction as per design & directions of the Engineer-in-charge.	Kg	25.60
31.64	Centering and shuttering with 12mm thick shuttering plywood conforming to IS 4990:2011 and removal of form at all heights. Plywood will be supported on lock bars.		
31.64.1	Suspended floors, roofs, landings, balconies and access platform.	Sqm	32.18
31.65	Providing and fixing roofing consist of 0.8 mm thick galvanized steel deck sheet conforming to IS 277:1993 used as permanent shuttering over which MS wire mesh 3mm laid at 100x100 mm grid including edge trim covered with concrete. This metal deck will be supported on structural steel beam with shear studs. (Structural steel like Beam, column, joists etc. & concrete of different grade as per design will be paid separately).	Sqm	2166.06

SI No.	Description of Item	Unit	Amount in Rs.
31.66	<p>Providing and fixing in position, 130 mm thick factory made Expanded Polystyrene Core (EPS Core) wall panels consisting of EPS core sandwiched between two Engineered sheets of welded wire fabric mesh duly finished with short concrete materials on outer faces. The fabric mesh shall be made of 3 mm dia zinc coated G.I. wire mesh with 50 mm pitch in both the directions and on both faces of the wall and connected by GI wire of 3mm dia at alternate row by welding. The EPS core shall consist of 60 mm thick EPS of density not less than 16 kg/per cum. Both the outer faces of the panel shall be finished by applying the layer of 35 mm thick cement mortar 1:3 {1 cement: 3 coarse sand (not having more than 40% stone chips of size upto 6 mm)} with the help of shotcreting/guniting equipment etc at a pressure not less than 1 bar (100KN/m²) and both surfaces finished with trowel. Fixing operations of wall panels shall be completed in all respect as per drawings and specifications and under the overall direction of the Engineer-in-charge.</p>	Sqm	3241.82
31.67	<p>Providing and fixing of external thermal insulation and composite system with First layer of self-extinguishing type Expanded Polystyrene (EPS) insulation boards of 120 mm thick (max 1mX0.5m section), confirming to IS4671:1984, having thermal conductivity of 0.034 W/mK, (measured as per IS 3346-1980), density of 20-25kg/m³ measured as per IS 5688-1982, Fire retardant property self-extinguishing type as per EN 13501-1, bonded with special polymer modified cementitious adhesive confirming to EOTA ETAG 004 (European Technical Approval) formulated to bond polystyrene insulation boards to typical mineral substrate (according to ETAG 004) and Polypropylene mechanical fasteners with plastic pin confirming to EOTA ETAG 015 (European Technical Approval) having dia 10mm & L=200mm on finished level wall and the junction between two adjacent EPS boards to be sealed with low expansion moisture cure Polyurethane Foam. Second layer consists of Fiberglass mesh covered with alkali-resistant coating, mass per unit area >145 gm/m², mesh size: consists of Fiberglass mesh covered with alkali-resistant coating, mass per unit area >145 gm/m², mesh size: 3.9x4.0 mm ±10% embedded in special polymer modified cementitious Base Coat with hydrophobes and the corners will be protected with Corner-beads with alkali-resistant mesh wings at least 10 cm wide, mesh mass per unit area min 145 gm/m². The surface will be levelled, finished, made smooth complete in all respect as per manufactures specification and as per directions of Engineer-in-Charge.</p>	Sqm	4471.13
31.68	<p>Providing and laying factory made Precast concrete solid blocks of 200 mm thickness of grade M10 made of C&D waste from approved manufacturer in foundation and plinth in:</p>		
31.68.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	6715.49
31.69	<p>Providing and laying factory made Precast concrete solid blocks of 200 mm thickness of grade M10 made of C&D waste from approved manufacturer in superstructure above plinth level up to floor V level</p>		
31.69.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	8968.92

SI No.	Description of Item	Unit	Amount in Rs.
31.70	Providing and laying half block masonry with factory made Precast concrete solid blocks of 100 mm thickness of grade M10 made of C&D waste from approved manufacturer in foundation and plinth in:		
31.70.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	Sqm	828.79
31.71	Providing and laying half block masonry with factory made Precast concrete solid blocks of 100 mm thickness of grade M10 made of C&D waste from approved manufacturer in superstructure above plinth level up to floor V level:		
31.71.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	Sqm	1012.37
31.72	Providing and laying 60mm thick factory made cement concrete paver block of approved shape and colour of M -30 grade made of C&D waste by block making machine with vibratory compaction laid in required pattern and including over 50mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge.	Sqm	780.35
31.73	Fabrication & Manufacturing of Prestressed Hollow Core slab (Hollow area 25 to 30%) of different thickness & modular width 1200 mm in Controlled Factory Environment with approved methodology confirming to IS 10297:1982 by using long line casting method having arrangement of proper steel bed. Concreting should be done by batch mixing plant capable of producing zero slump concrete, transported through automatic shuttles of standard make & laid on bed with the help of extruder/Slipformer, finishing, curing and also provision of steam curing. Cutting, making necessary cutout/holes of required sizes for services in slab element after achieving required strength, yard handling & stacking all complete as per approved shop drawings & design mix as per the direction of the Engineer-in-charge. (Cost of strands should be paid separately).		
31.73.1	Concrete Grade-M-40 (cement content 400 kg)		
31.73.1.1	100 mm thick hollow core slab	Meter	1658.20
31.73.1.2	120 mm thick hollow core slab	Meter	1944.66
31.73.1.3	150 mm thick hollow core slab	Meter	2374.32
31.73.1.4	200 mm thick hollow core slab	Meter	2901.27
31.73.1.5	250 mm thick hollow core slab	Meter	3570.08
31.73.1.6	300 mm thick hollow core slab	Meter	4238.89
31.73.1.7	350 mm thick hollow core slab	Meter	4907.70
31.73.1.8	400 mm thick hollow core slab	Meter	5576.51
31.73.2	Extra for using M-50 (Cement content 425 kg) instead of M-40		
31.73.2.1	100mm thick hollow core slab	Meter	42.06
31.73.2.2	120mm thick hollow core slab	Meter	50.47
31.73.2.3	150mm thick hollow core slab	Meter	63.09
31.73.2.4	200mm thick hollow core slab	Meter	78.51
31.73.2.5	250mm thick hollow core slab	Meter	98.14
31.73.2.6	300mm thick hollow core slab	Meter	117.77
31.73.2.7	350mm thick hollow core slab	Meter	148.68
31.73.2.8	400mm thick hollow core slab	Meter	157.02

SI No.	Description of Item	Unit	Amount in Rs.
31.73.3	Extra for using M-60 (Cement content 440 kg) instead of M-40 , 100mm thick hollow core slab	Meter	67.30
31.73.3.2	120mm thick hollow core slab	Meter	80.69
31.73.3.3	150mm thick hollow core slab	Meter	100.94
31.73.3.4	200mm thick hollow core slab	Meter	125.56
31.73.3.5	250mm thick hollow core slab	Meter	157.02
31.73.3.6	300mm thick hollow core slab	Meter	188.49
31.73.3.7	350mm thick hollow core slab	Meter	218.89
31.73.3.8	400mm thick hollow core slab	Meter	251.27
31.74	Fabrication and manufacturing of solid precast concrete element with provisions of shearkeys, connecting loops, dowel tubes and proper lifting accessories for walls, beams, slabs,stairs, column etc, of various thickness, shape and size of different concrete gradesmanufactured in controlled factory environment with approved methodology includingmoulds (Pallet system, Tilts form, table moulds, battery moulds, vertical moulds, beammoulds, column moulds, staircase moulds, Facade mould, etc.), mixing, transporting andplacing of concrete, vibrating, curing, finishing, making necessary cutout/holes of requiredsizes for services, yard handling & stacking all complete as per IS 11447:1985 and as perapproved shop drawings and design mix as per the direction of Engineer-in-Charge (Cost ofreinforcement, Mechanical, Electrical and Plumbing inserts will be paid separately).		
31.74.1	Concrete grade M-35 (Cement content 370 kgs)	Cum	24589.02
31.74.2	Extra for using M-40 (Cement content 400 kg) instead of M-36	Cum	501.65
31.74.3	Extra for using M-50 (Cement content 425 kg) instead of M-36	Cum	1028.14
31.74.4	Extra for using M-60 (Cement content 440 kg) instead of M-36	Cum	1308.54
31.75	Providing & laying in position Prestressing steel strands (low relaxation) on hollow corebed by using mechanical pulling arrangement like Rabbit/ Bed master including allaccessories for Stressing & destressing operations as per approved make conforming toIS1343 & grade FY-1860 etc, complete as per drawings and direction of Engineer -in-charge.	Kg	185.00
31.76	Transportation of Precast Elements by flat bed Trailor (Double / Triple axle 40ft Lengthwith proper accessories like A frame etc) from factory, including the cost of loading ,unloading & stacking at site with the help of required capacity cranes.		
31.76.1	Lead within 15km	Meter	644.25
31.76.2	Add/Deduct over item 26.76.1 for every additional lead of 5 km	Meter	142.09
31.77	Erection & Installation of Precast/Prestressed Concrete elements in correct & final positionwith proper line level and plumb at site making all arrangements (i.e cranes, push-pulljacks & all another T & P for lifting Placing & Alignment of elements, within erectiontolerance as per IS 15916 as per approved shop drawings and all complete as per thedirection of Engineer-in-Charge but excluding the cost of sim pads, non shrink grout andsteel works i.e hangers. All work up to fifth floor		
31.77.1	Prestressed hollow core Slab up to 200 mm thickness	Sqm	203.75
31.77.2	Prestressed hollow core slab above 200 mm up to 400 mm. thickness	Sqm	350.61

SI No.	Description of Item	Unit	Amount in Rs.
31.77.3	Solid concrete wall elements	Cum	2758.37
31.78	Providing & Applying weather proof sealant on outer joints of approved make confirming to IS & directed by Engineer-in-charge.		
31.78.1	Sealant 25mmx10mm at joints	Meter	268.13
31.79	Providing & Laying of levelling sim pads required sizes (5x5cm to 10x10cm) of PVC /Rubber to adjust level of bearing surface of supporting members as per the direction of Engineer in charge.		
31.79.1	2mm thick	each	30.36
31.79.2	5 mm thick	each	38.90
31.79.3	10 mm thick	each	55.97
31.80	Providing & Grouting of dowel tubes / Shear keys / Joints of precast members with M-61 grade cementitious grout (Non Shrink) of approved make by suitable means (Free flowing/pump), curing etc. Complete as per directions of Engineer-in-charge. (The payment shall be made on the basis of actual weight of approved grout injected.)		
31.80.1	Stirrer mixed cementitious grout (non shrink) of approved make in dowel tubes / Shearkeys / Joints of precast members.	kg	111.74
31.81	Providing and fixing Scaffolding net of required width made of high density Polyethylene UV stabilized knitted on warp knitting machines having density construction site/ for vertical extension as per requirement including fastening/tying with building/scaffolding 100grams/sqm and shading coefficient minimum 75% around the pipes or with any other fixtures etc. complete as per direction of Engineer-in-Charge. (One time payment shall be made for providing Scaffolding net from start of work till completion of work including shifting if any. The Scaffolding net shall be the property of the contractor on completion of the work)	Sqm	46.99
31.82	Providing and laying rigid EPS (cellular plastic material) blocks conforming to ASTM standards/specifications of minimum density 21.60 Kg/cum on floors, steps, stage etc. of required size and shape as per direction of the- The EPS blocks shall be cut to required shape and sizes including cuttings for passing of services, joined together with synthetic resin adhesives as per relevant specifications and packed/placed in position for stepped floor or platform formation. The top and sides surfaces to be provided with GI woven wire mesh of aperture 5.46mm (with wire dia 0.90 mm) secured to EPS blocks with wire pins/clips. Horizontal top surface to be provided with 20 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate upto 6mm chippings) and vertical surface to be provided with 12mm cement plaster 1:4 (1 cement : 4 coarse sand). The concrete/plastered surfaces so prepared shall be scratched with wire brushes to form burrs, so as to act as base for flooring or veneering/panelling to be done later as per approved design (which shall be paid for separately complete as per direction of the Engineer-in-Charge.	Sqm	2250.64

SI No.	Description of Item	Unit	Amount in Rs.
31.83	<p>Applying stamping finish to the top surface of freshly laid plain/reinforced cement concrete of specified grade in porticos, sidewalks, driveways, pool decks and open yards as per direction of the Engineer-in-Charge. The process shall include the following:-</p> <p>The concrete shall be placed and screeded to the finished grade, and floated to a uniform surface by using standard finishing techniques. The approved color hardener @ 2.7 kg/sqm shall be applied evenly to the surface of the fresh concrete by the dry shake method by sprinkling in two or more shakes, floated after each shake and trowelled only after the final floating. The approved release agent @ 0.113 kg/sqm shall be applied evenly to the trowelled surface before stamping or the said release agent can be applied to the flexible polyurethane stamp moulds of approved design and in required sizes to achieve final stamped pattern. These stampings shall be placed on the surface of concrete in three to four pieces at a time and tapped gently with rammers of sufficient size & weight to leave proper stamp marks and the process repeated for the remaining concrete surface till the whole surface to be stamped is completed within the time while concrete is in plastic stage of setting.</p> <p>After stamping, the curing shall be done as per manufacturer's specifications. After initial curing the imprinted joints shall be grouted using cement slurry mixed with color hardener as per the requirement. The surface shall be sealed by applying acrylic based sealer not less than 0.167 litre/sqm on finished surface.</p> <p>The construction joints shall be provided by groove cutting of size 4mm x 20mm in panel size 3m x 3m or lesser as per site conditions and filling the same with 10 mm baker rod and providing and laying (PU) Polyurethane based joint sealer of approved make as per manufacturer's specifications and finished by applying Polyurethane resin based top protective clearcoat of minimum 80 micron applied with rollers on properly cured and dry clean surface. (Cost of concrete for flooring is not included in this item which shall be paid separately.)</p>	Sqm	913.89
31.84	<p>Supplying and laying of Uni-Axial Woven Polyester Geogrid conforming to MORTH 3100 and IRC113, as soil reinforcement/basal reinforcement including accessories like tie-strips, nuts & bolts and loops/lugs for joining reinforcing elements with the fascia panels, overlaps and other protective elements for synthetic geo-grids and all other activities required for reinforced soil walls, slopes etc complete as per design requirements, manufacturer specifications and as per direction of engineer-in-charge.</p>		
31.84.1	Uni Axial Woven polyester geogrid of minimum tensile strength 40KN/m in the Longitudinal direction and 21KN/m in the Transverse direction.	Sqm	297.98
31.84.2	Uni Axial Woven polyester geogrid of minimum tensile strength 60KN/m in the Longitudinal direction and 21KN/m in the Transverse direction.	Sqm	274.53
31.84.3	KN/m in the Transverse direction. Uni Axial Woven polyester geogrid of minimum tensile strength 80 KN/m in the Longitudinal direction and 31	Sqm	135.72
31.84.4	Uni Axial Woven polyester geogrid of minimum tensile strength 100KN/m in the Longitudinal direction and 31KN/m in the Transverse direction.	Sqm	389.55

SI No.	Description of Item	Unit	Amount in Rs.
31.84.5	Uni Axial Woven polyster geogrid of minimum tensile strength 120KN/m in the Longitudinal direction and 31KN/m in the Transverse direction.	Sqm	416.43
31.84.6	Uni Axial Woven polyster geogrid of minimum tensile strength 150KN/m in the Longitudinal direction and 31KN/m in the Transverse direction.	Sqm	515.02
31.84.7	Uni Axial Woven polyster geogrid of minimum tensile strength 200KN/m in the Longitudinal direction and 31KN/m in the Transverse direction.	Sqm	572.92
31.84.8	Uni Axial Woven polyster geogrid of minimum tensile strength 250KN/m in the Longitudinal direction and 31KN/m in the Transverse direction.	Sqm	727.14
31.84.9	Uni Axial Woven polyster geogrid of minimum tensile strength 300KN/m in the Longitudinal direction and 30 KN/m in the Transverse direction.	Sqm	834.69
31.85	Supplying and laying of Bi-Axial Woven Polyester Geogrid conforming to MORTH 3100 and IRC113, as soilreinforcement/basal reinforcement of granular road base and sub base, area stalilization, track bed stabilization,load transfer platforms Including accessories like tie-strips, nuts & bolts and loops/lugs for joining reinforcingelements with the facia pannels, overlaps and other protective elements for synthetic geo-grids and all other activities required etc. complete as per design requirements, manufacturer specifications and as per direction ofengineer-in- charge.		
31.85.1	Bi Axial Woven polyster geogrid of minimum tensile strength 20KN/m in both Longitudinal and Transversedirection.	Sqm	204.28
31.85.2	Bi Axial Woven polyster geogrid of minimum tensile strength 40KN/m in both Longitudinal and Transversedirection.	Sqm	405.76
31.85.3	Bi Axial Woven polyster geogrid of minimum tensile strength 60KN/m in both Longitudinal and Transversedirection.	Sqm	352.42

SI No.	Description of Item	Unit	Amount in Rs.
31.86	<p>Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid door/window/Accessory windows & other Frames/Chowkhat comprising of virgin PVC polymer of K value 58-61(Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) fabricated with miter joints after applying PVC solvent cement and screwed with full body threaded star headed SS screws having minimum frame density of 751kg/cum, screw withdrawal strength of 2200 N (Face) & 1100 N (Edge), minimum compressive strength of 59N/mm², modulus of elasticity 900 N/mm² and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixed in position with M.S holdfast/lugs/SS dash fasteners of required dia and length complete as per direction of Engineer-In- Charge. (M.Should fast/lugs or SS dash fasteners shall be paid for separately).</p> <p>Note: For WPC solid door/window frames, minus 5mm tolerance in dimensions i.e depth and width of profile shall be acceptable. Variation in profile dimensions on plus side shall be acceptable but no extra payment on this account shall be made.</p>		
31.86.1	Frame size 45 x 70 mm	Meter	693.08
31.86.2	Frame size 45 x 85 mm	Meter	910.75
31.86.3	Frame size 50 x 100 mm	Meter	932.09
31.86.4	Frame size 50 x 125 mm	Meter	1062.97
31.86.5	Frame size 65 x 100 mm	Meter	1089.70
31.86.6	Frame size 65 x 125 mm	Meter	1360.30
31.86.7	26.86.7 Frame size 65 x 150 mm	Meter	1614.95
31.87	<p>Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid plain flush door shutter of required size comprising of virgin polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 101 gms) having minimum density of 650 kg/cum and screw withdrawal strength of 1800 N (Face) & 900 N (Edge), minimum compressive strength 50 N/mm², modulus of elasticity 850 N/mm² and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixing with stainless steel butt hinges of required size with necessary full body threaded star headed counter sunk S.S screws, all as per direction of Engineer-In- Charge. (Note: stainless steel butt hinges and necessary S.S screws shall be paid separately)</p>		
31.87.1	30 mm thick	Sqm	4313.63
31.87.2	35 mm thick	Sqm	4966.62

SI No.	Description of Item	Unit	Amount in Rs.
31.88	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid decorative type flushdoor shutter of required size comprising of virgin polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) having minimum density of 650 kg/cum and screw withdrawal strength of 1800 N(Face) & 900 N (Edge), minimum compressive strength 50 N/mm ² , modulus of elasticity 850 N/mm ² and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant. WPC to be laminated with PVC foil of minimum 14 microns thick of approved design pasted with hot melt adhesive on both faces of shutter and fixing with stainless steel butt hinges of required size with necessary full body threaded star headed counter sunk S.S screws, all as per direction of Engineer-In-Charge. (Note: stainless steel butt hinges and necessary S.S screws shall be paid separately)		
31.88.1	30 mm thick	Sqm	4716.31
31.88.2	35 mm thick	Sqm	5369.30
31.89	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid board one side white color and other side of board laminated with PVC foil of minimum 14 micron thickness of approved design pasted with hot melt adhesive for cup boards, work stations and bathroom/kitchen cabinet etc. of required size comprising of virgin polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) having minimum density of 650 kg/cum and screw withdrawal strength of 1800 N (Face) & 900 N (Edge), minimum compressive strength 50 N/mm ² , modulus of elasticity 850 N/mm ² and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixing with stainless steel piano hinges/soft close clip on concealed hinges of required size with necessary full body threaded star headed counter sunk S.S screws, all as per direction of Engineer-In-Charge. (Note: stainless steel piano hinges/soft close clip on concealed hinges and necessary S.S screws shall be paid separately)		
31.89.1	18 mm thick	Sqm	2968.32
31.89.2	25 mm thick	Sqm	3854.63

SI No.	Description of Item	Unit	Amount in Rs.
31.90	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid plain white color board for backing of cup boards and bathroom/kitchen cabinets etc. of required size comprising of virgin polymer of Kvalue 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) having minimum density of 650 kg/cum and screw withdrawal strength of 1800 N (Face) & 900 N (Edge), minimum compressive strength 50 N/mm ² , modulus of elasticity 850 N/mm ² and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixing with stainless steel screws etc. all as per direction of Engineer-In- Charge. (Note: stainless steel screws shall be paid separately)		
31.90.1	6 mm thick	Sqm	1081.25
31.90.2	12 mm thick	Sqm	1691.56
31.91	Providing and fixing factory made 18 mm thick single extruded WPC (Wood Polymer Composite) solid plain white colour board Jali, CNC (Computer numeric control) routed of approved design by Engineer-in -charge which are machine cut for duct/shaft covering, partitions and facades comprising of virgin polymer of K value 58-61 additives (maximum toxicity index of 12 for 100 gms) having minimum density of 650 kg/cum and screw withdrawal strength of 1800 N (Face) minimum compressive strength 50 N/mm ² , modulus of elasticity 851 N/mm ² and resistance to spread of flame of Class A category with properties of being termite/borer proof, water/moisture proof and fire retardant and fixing on M.S (mild steel) frame made of 25 x 25 x 1.5 mm square hollow box section including applying a priming coat of approved steel primer, placed at grid made at 1.0 x 1.0 m or as per requirement at site with necessary stainless steel fasteners and SS screws etc., all complete as per direction of Engineer-In- Charge. (Note: M.S (mild steel) framework with priming coat and necessary SS fasteners and SS screws shall be paid separately.)	Sqm	3359.01
31.92	Providing and fixing of facade at all heights with extruded hollow Clay / Terracotta ventilated rainscreen tiles of height 250/ 300/ 400 mm and length of 595 mm of approved texture, design and pattern having Flexural Strength/ Modulus of Rupture of > 14 N/m ² and maximum water absorption of 10% tested as per ISO 10545-4:2004(E) and ISO 10545-3:1995 respectively in true level fixed to a supporting aluminium framework (Alloy 6063 T5/T6) consisting of vertical 'T' (for intermediates)/ 'L' (for ends/ termination)/ Tubular sections (at corners) of size 80x60x2mm/ 40x60x2mm/ 40x40x2mm respectively, spaced at maximum spacing of 600mm c/c matching to the tile vertical grid, and horizontal aluminium 'C'-clamps of size 56x25x2mm thickness of length 150mm at junction of tiles and of length 75mm at wall ends/ corners fixed on top of the vertical sections at spacing of 250/ 300/ 400mm c/c matching to the tile horizontal grid with two numbers of self-drilling / self-tapping SS screws of size 5.5x25 mm with EPDM washers.		

SI No.	Description of Item	Unit	Amount in Rs.
	<p>The vertical 'T'/L/ Tubular' sections shall be fixed to the wall using HDG (hot-dip-galvanized) steel L-brackets (galvanizing thickness of minimum 80 microns) of size 110x80x6 mm at intermediate vertical aluminium profiles and of size 220x110x12 mm at outer corners and stainless steel grade 304, M10 full threaded anchor fasteners with nylon sleeve 100mm long (for brick work) and M8 expansion anchor fasteners 75mm long for concrete surface, spacing of brackets to be based on a structural/ static calculation. The brackets shall be of length 175mm at junction of two vertical aluminium profiles and of length 100mm at intermediate points of vertical profiles and shall be fixed to the vertical aluminium T / L / Tubular profiles using two numbers self-drilling/ self-tapping SS screws of size 5.5x25mm with EPDM washers.</p> <p>EPDM gaskets to be fixed in between brackets and vertical profiles. The tiles shall be mounted on the 'C' clamps such that the tiles are supported at top and bottom at both ends. The tiles shall be additionally secured to the horizontal 'C' clamps using special SS clips of required size which shall be inserted and pressed into position on the 'C' clamps holding the tiles and the cut-tiles shall be glued at points to the horizontal 'C' clamps by using MS Polymer sealant adhesive. The vertical joint open groove between two adjacent tiles shall be 5mm. The tiles and system shall be designed to resist wind load as per IS 875 (Part 3) according to different zones. The tiles shall be installed using the ventilated rain screen principle with provision for natural ventilation of the space between the facade tiles and the structural wall. The work shall be carried out as per specification, drawing and as per direction of the Engineer-in-Charge.</p> <p>Note : Scaffolding wherever required to be paid separately.</p>		
31.92.1	With 16mm thickness (+/- 10%) terracotta tiles of grey colour	Sqm	7835.48
31.92.2	With 16mm thickness (+/- 10%) terracotta tiles of other than grey colors	Sqm	7590.50
31.93	<p>Providing and fixing of facade at all heights with extruded hollow Clay / Terracotta ventilated rainscreen tiles of height 259/ 309/409mm and length of 1190 mm of approved texture, design and pattern having Flexural Strength/ Modulus of Rupture of > 14 N/m² and maximum water absorption of 10% tested as per ISO 10545-4:2004(E) and ISO 10545-3:1995 respectively in true level fixed to sections (at corners) of size 80x60x2mm/ 40x60x2mm/ 40x40x2mm respectively, spaced at maximum spacing of 1200mm c/c matching to the tile vertical grid, and horizontal aluminium 'C'-clamps of size 56x34x2 mm thickness of length 150mm at junction of tiles and of length 75mm at wall ends/ corners fixed on top of the vertical sections at spacing of 250/ 300/ 400mm c/c matching to the tile horizontal grid with two numbers of self-drilling / self-tapping SS screws of size 5.5x25 mm with EPDM washers.</p>		

SI No.	Description of Item	Unit	Amount in Rs.
--------	---------------------	------	---------------

The vertical 'T'/L/ Tubular' sections shall be fixed to the wall using HDG (hot-dip-galvanized) steel L-brackets (galvanizing thickness of minimum 80 microns) of size 110x80x6 mm at intermediate vertical aluminium profiles and of size 220x110x12 mm at outer corners and stainless steel grade 304, M10 full threaded anchor fasteners with nylon sleeve 100mm long (for brick work) and M8 expansion anchor fasteners 75mm long for concrete surface, spacing of brackets to be based on a structural/ static calculation. The brackets shall be of length 175mm at junction of two vertical aluminium profiles and of length 100mm at intermediate points of vertical profiles and shall be fixed to the vertical aluminium T / L / Tubular profiles using two numbers self-drilling/ self-tapping SS screws of size 5.5x25 mm with EPDM washers. EPDM gaskets to be fixed in between brackets and vertical profiles. The tiles shall be mounted on the 'C' clamps such that the tiles are supported at top and bottom at both ends. The tiles shall be mounted on the C-clamps with EPDM profiles in between such that the tiles are supported at top and bottom at both ends. The vertical joint open groove between two adjacent tiles shall be 10mm. The tiles and system shall be designed to resist wind load as per IS 875 (Part 3) according to different zones. The tiles shall be installed using the ventilated rain screen principle with provision for natural ventilation of the space between the facade tiles and the structural wall. The work shall be carried out as per specification, drawing and as per direction of the Engineer-in-Charge.

Note : Scaffolding wherever required to be paid separately.

31.93.1	With 24mm thickness (+/- 10%) terracotta tiles of grey colour	Sqm	8152.31
31.93.2	With 24mm thickness (+/- 10%) terracotta tiles of other than grey colors	Sqm	6660.56

SUB HEAD - 32.0
SPECIAL ITEMS FOR LADAKH

SI No.	Description of Item	Unit	Amount in Rs.
32.1	Providing & fixing stabilized mud concrete solid blocks (adobe) with 3% cement, masonry up to floor five level including hoisting and setting in position in mud mortar using approved quality mud with carriage of material complete.	Cum	7225.54
32.2	Providing & fixing upto floor five level precast sun dried mud bricks in mud mortar using approved quality mud with carriage of material complete.	cum	6512.48
32.3	Providing and laying in position rammed earth in walls (Upto floor One level)		
32.3.1	Providing and laying in position stabilized rammed earth with 8% cement in walls using mixture of selected earth and clay of gradation as directed by engineer in charge mechanically mixed, placed in position compacted by vibration including form work up to floor one level.	Cum	7483.09
32.3.2	Providing and laying in position stabilized rammed earth with 5% cement in walls using mixture of selected earth and clay of gradation as directed by engineer in charge mechanically mixed, placed in position compacted by vibration including form work up to floor one level.	cum	6773.06
32.3.3	Providing and laying in position rammed earth in walls using mixture of selected earth and clay of gradation as directed by engineer in charge mechanically mixed, placed in position compacted by vibration including form work up to floor one level.	Cum	5585.30
32.4	Providing and laying in position rammed earth in walls (above floor two level upto floor five level)		
32.4.1	Providing and laying in position stabilized rammed earth with 8% cement in walls using mixture of selected earth and clay of gradation as directed by engineer in charge mechanically mixed, placed in position compacted by vibration including form work above floor two level upto floor five level.	Cum	8439.56
32.4.2	Providing and laying in position stabilized rammed earth with 5% cement in walls using mixture of selected earth and clay of gradation as directed by engineer in charge mechanically mixed, placed in position compacted by vibration including form work above floor two level upto floor five level.	cum	7729.53
32.4.3	Providing and laying in position rammed earth in walls using mixture of selected earth and clay of gradation as directed by engineer in charge mechanically mixed, placed in position compacted by vibration including form work above floor two level upto floor five level.	Cum	6541.77
32.5	Providing and fixing round beams (local Ballies), including hoisting, fixing in position and applying wood preservative for the unexposed surfaces, etc. complete job;		
32.5.1	Average diameter 350 mm	Rm	1119.42
32.5.2	Average diameter 225 mm	Rm	999.92

SI No.	Description of Item	Unit	Amount in Rs.
32.6	Providing and fixing traditionally carved wood work (Shingstak) over doors and windows including all accessories as per the direction of the Engineer in-charge, complete with;		
32.6.1	2nd class kail wood	Sqm	17780.88
32.6.2	Local willow wood	Sqm	15878.55
32.6.3	Budloo wood	Sqm	16712.26
32.7	Providing and fixing local talboos (Second order branch willow tree) including providing an ornamental look and fixing with nails complete job	Sqm	1451.55
32.8	20mm thick mud plaster using approved quality of earth.	Sqm	324.01
32.9	Providing and laying 200mm thick mud pushka over talboos with 5mm thick dry grass (Yakzes/spoto/dry paddy straw etc), including ramming at OMC	sqm	665.79
32.10	Providing & fixing brick masonry with cement mortar 1:6 up to floor five level with cured Cellular light weight bricks made of cement, sand and foaming agent with cement content @ 200 kg per Cubic Meter, including carriages complete.	Cum	17466.94
32.11	Providing & fixing upto floor five level compressed earth blocks (CEB) made an appropriate mix of dry inorganic subsoil, non-expansive clay, sand, and aggregate, in mud mortar, including cost of materials complete.	Cum	9238.98
32.12	Providing & fixing upto floor five level compressed stabilized earth blocks (CEB) made an appropriate mix of dry inorganic subsoil, non-expansive clay, sand, and aggregate with 5% cement as stabilizer, in mud mortar, including cost of materials complete.	cum	10427.24
32.13	Disposal of accumulated snow from roads by mechanical means using loader and tipper/tractor	Cum	328.15
32.14	Providing & fixing stabilized mud concrete solid blocks (adobe) with 3% cement, masonry up to floor five level including hoisting and setting in position in cement mortar 1:6 using approved quality mud with carriage of material complete.	Cum	8285.03
32.15	Providing & fixing mud concrete solid blocks (adobe), masonry up to floor five level including hoisting and setting in position in mud mortar using approved quality mud with carriage of material complete.	Cum	6512.48

**SUB HEAD - 33.0
CEMENT CONSUMPTION STATEMENT**

3.0 MORTAR

SI No.	Description of Item	Unit	Quantity of cement per unit quantity of work (Quintals)
3.1	Cement Mortar 1:1 (1 cement : 1 fine sand).	cum	10.2
3.2	Cement mortar 1:2 (1 cement : 2 fine sand).	cum	6.8
3.3	Cement mortar 1:3 (1 cement : 3 fine sand)	cum	5.1
3.4	Cement mortar 1:4 (1 cement : 4 fine sand)	cum	3.8
3.5	Cement mortar 1:5 (1 cement : 5 fine sand)	cum	3.1
3.6	Cement mortar 1:6 (1 cement : 6 fine sand).	cum	2.5
3.7	Cement mortar 1:2 (1 cement : 2 coarse sand).	cum	6.8
3.8	Cement mortar 1:3 (1 cement : 3 coarse sand).	cum	5.1
3.9	Cement mortar 1:4 (1 cement : 4 coarse sand).	cum	3.8
3.10	Cement mortar 1:5 (1 cement : 5 coarse sand).	cum	3.1
3.11	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	2.5
3.12	Cement mortar 1:2 (1 cement : 2 stone dust).	cum	6.8
3.13	Cement mortar 1:2 (1 cement : 2 marble dust).	cum	6.8
3.14	Cement mortar 1:5 (1 cement : 5 marble dust).	cum	3.1
3.15	White cement mortar 1:2 (1 white cement : 2 marble dust).	cum	6.80*
3.16	White cement mortar 1:3 (1 white cement : 3 marble dust).	cum	5.10*
3.17	White cement mortar 1:5 (1 white cement : 5 marble dust)	cum	3.10*

4.0 CONCRETE WORK

SI No.	Description of Item	Unit	Quantity of cement per unit quantity of work (Quintals)
4.1.8	1:4:8 (1 Cement : 4 coarse sand derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	cum	1.7
4.1.8A	1:4:8 (1 Cement : 4 manufactured sand derived from Recycled Concrete Aggregate (RCA)) : 8 graded stone aggregate 40 mm nominal size derived from Recycled Aggregate (RA))	cum	1.7
40269	1:5:10 (1 cement : 5 coarse sand derived from natural sources : 10 graded stone aggregate 40 mm nominal size derived from natural sources)	cum	1.3
4.1.10A	1:5:10 (1 Cement : 5 manufactured sand derived from Recycled Concrete Aggregate (RCA)) : 10 graded stone aggregate 40 mm nominal size derived from Recycled Aggregate (RA))	cum	1.3
40634	1:5:10 (1 cement : 5 fine sand derived from natural sources: 10 graded stone aggregate 40 mm nominal size derived from natural sources)	cum	1.3
41000	1:2:3½:9 (1 ordinary portland cement : 2 Fly ash : 3½ coarse sand derived from natural sources : 9 graded stone aggregate 40 mm nominal size derived from natural sources)	cum	1.7

SI No.	Description of Item	Unit	Quantity of cement per unit quantity of work (Quintals)
4.1.12A	1:2:3½:9 (1 ordinary portland cement : 2 Fly ash : 3½ manufactured sand Recycled Concrete Aggregate (RCA) : 9 graded stone aggregate 40 mm nominal size derived from Recycled Aggregate (RA))	cum	1.7
41365	1:2½:4:11 (1 ordinary portland cement : 2½ fly ash : 4 coarse sand derived from natural sources: 11 graded stone aggregate 40 mm nominal size derived from derived from natural sources	cum	1.3
4.1.13A	1:2½:4:11 (1 ordinary portland cement : 2½ fly ash : 4 manufactured sand Recycled Concrete Aggregate (RCA): 11 graded stone aggregate 40 mm nominal size derived from Recycled Aggregate (RA))	cum	1.3
4.2	P/L cement concrete - all works upto plinth level :		
4.2.2	1:1½:3 (1 cement:1½ coarse sand derived from natural sources :3 graded stone aggregate 20 mm nominal size derived from natural sources) cum 4.00		
4.2.2A	1:1½:3 (1 cement:1½ coarse sand including manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 25%: 3 graded stone aggregate 20 mm nominal size Recycled Concrete Aggregate (RCA) upto 25%)	cum	4
4.2.3	1:2:4 (1 Cement : 2 coarse sand derived from natural sources: 4 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	3.2
4.2.3A	1:2:4 (1 Cement : 2 including manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 25%: 4 graded stone aggregate 20 mm nominal size Recycled Concrete Aggregate (RCA) upto 25%)	cum	3.2
4.2.5	1:3:6 (1 cement : 3 coarse sand derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	2.2
4.2.5A	1:3:6 (1 cement : 3 manufactured sand derived from Recycled Concrete Aggregate (RCA) : 6 graded stone aggregate 20 mm nominal size derived from Recycled Concrete Aggregate (RCA))	cum	2.2
4.2.5B	1:3:6 (1 cement : 3 manufactured sand derived from Recycled Concrete Aggregate (RCA) : 6 graded stone aggregate 20 mm nominal size derived from Recycled Aggregate (RA))	cum	2.2
4.2.8	1:5:10 (1 cement : 5 coarse sand derived from natural sources: 10 graded stone aggregate 40 mm nominal size derived from natural sources)	cum	1.3
4.2.8A	1:5:10 (1 cement : 5 manufactured sand derived from Recycled Concrete Aggregate (RCA) : 10 graded stone aggregate 40 mm nominal size derived from Recycled Aggregate (RA))	cum	1.3
4.4	Nominal size derived from natural sources) cum 1:1.5:3 (1 cement : 1.5 including manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 25% : 3 graded stone aggregate 20 mm nominal size derived from Recycled ConcreteAggregate (RCA) upto 25%	cum	
4.4.1	1:1.5:3 (1 cement : 1.5 coarse sand derived from natural sources : 3 graded stone aggregate 20 mm		

CEMENT CONCRETE (PRE-CAST)

SI No.	Description of Item	Unit	Quantity of cement per unit quantity of work (Quintals)
4.5	P/L precast cement concrete string or lacing courses, copings etc.:		
4.5.1	1:1½:3 (1 cement:1½ coarse sand derived from natural sources:3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	4.05
4.5.1A	1:1½:3 (1 cement:1½ including manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 25% : 3 graded stone aggregate 20 mm nominal size derived from Recycled Concrete Aggregate (RCA) upto 25%)	cum	4.05
4.6	P/L precast cement concrete in kerbs, edgings etc.:		
4.6.1	1:1.5:3 (1 cement : 1.5 coarse sand derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	4.05
4.6.1A	1:1.5:3 (1 cement : 1.5 including manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 25% : 3 graded stone aggregate 20 mm nominal size derived from Recycled Concrete Aggregate (RCA) upto 25%)	cum	4.05
4.7	P/L precast cement concrete solid blocks:		
4.7.1	1:1.5:3 (1 cement : 1.5 coarse sand derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	4.56
4.7.1A	1:1.5:3 (1 cement : 1.5 including manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 25% : 3 graded stone aggregate 20 mm nominal size derived from Recycled Concrete Aggregate (RCA) upto 25%)	cum	4.56
4.8	P/L precast cement concrete hollow blocks:		
4.8.1	1:1.5:3 (1 cement : 1.5 coarse sand derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	2.899
4.8.1A	1:1.5:3 (1 cement : 1.5 including manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 25% : 3 graded stone aggregate 20 mm nominal size derived from Recycled Concrete Aggregate (RCA) upto 25%)	cum	2.899
4.9	Precasting and placing in position 125 mm dia Bollards 600mm high.... . cement concrete 1:3:6 (1 Cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources)	each	0.097
4.9A	Precasting and placing in position 125 mm dia Bollards 600 mm high.... . cement concrete 1:3:6 (1 Cement : 3 manufactured sand derived from Recycled Concrete Aggregate (RCA) : 6 graded stone aggregate 20 mm nominal size derived from Recycled Concrete Aggregate (RCA)).....	each	0.097

SI No.	Description of Item	Unit	Quantity of cement per unit quantity of work (Quintals)
4.9B	Precasting and placing in position 125 mm dia Bollards 600 mm high.... . cement concrete 1:3:6 (1 Cement : 3 manufactured sand derived from Recycled Concrete Aggregate (RCA) : 6 graded stone aggregate 20 mm nominal size derived from Recycled Aggregate (RA)).....	each	0.097

DAMP- PROOF COURSE

SI No.	Description of Item	Unit	Quantity of cement per unit quantity of work (Quintals)
4.10	P/L D.P.C. 40 mm thick with C.C. (1 cement :2 coarse sand derived from natural sources :4 graded stone aggregate 12.5mm nominal size derived from natural sources).	sqm	0.13
4.10A	P/L D.P.C. 40 mm thick with C.C. (1 cement :2 including manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 25% :4 graded stone aggregate 12.5mm nominal size derived from Recycled Concrete Aggregate (RCA) upto 25%).	sqm	0.13
4.11	P/L D.P.C. 50 mm thick with C.C. (1 cement :2 coarse sand derived from natural sources :4 graded stone aggregate 12.5mm nominal size derived from natural sources).	sqm	0.16
4.11A	P/L D.P.C. 50 mm thick with C.C. (1 cement :2 including manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 25% :4 graded stone aggregate 12.5mm nominal size derived from Recycled Concrete Aggregate (RCA) upto 25%).	sqm	0.16

MISCELLANEOUS

SI No.	Description of Item	Unit	Quantity of cement per unit quantity of work (Quintals)
4.17	Making plinth protection 50 mm thick of cement concrete 1:3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources)		
4.17A	Making plinth protection 50 mm thick of cement concrete 1:3 manufactured sand derived from Recycled Concrete Aggregate (RCA) : 6 graded stone aggregate 20 mm nominal size derived from Recycled Concrete Aggregate (RCA))	sqm	0.11
4.17B	Making plinth protection 50 mm thick of cement concrete 1:3 manufactured sand derived from Recycled Concrete Aggregate (RCA) : 6 graded stone aggregate 20 mm nominal	sqm	0.11
4.19	size derived from Recycled Aggregate (RA)) - DELETED	sqm	
4.19.1	DELETED		

SI No.	Description of Item	Unit	Quantity of cement per unit quantity of work (Quintals)
4.19.1.1	DELETED		
4.19.1.2	DELETED		
4.19.2	DELETED		
4.19.2.1	DELETED		
4.19.2.2	DELETED		
4.20	P/L ready mix plain cement concrete derived from natural sources		
4.20.1	All works upto plinth level		
4.20.1.1	Concrete of M10 grade with minimum cement content of 220 kg /cum	cum	2.2
4.20.1.2	Concrete of M15 grade with minimum cement content of 240 kg /cum	cum	2.4
4.20.1.3	Concrete of M20 grade with minimum cement content of 270 kg /cum	cum	2.7
4.20.1.4	Concrete of M25 grade with minimum cement content of 300 kg /cum	cum	3
4.20.2	All works above plinth and upto floor V level		
4.20.2.1	Concrete of M10 grade with minimum cement content of 220 kg /cum	cum	2.2
4.20.2.2	Concrete of M15 grade with minimum cement content of 240 kg /cum	cum	2.4
4.20.2.3	Concrete of M20 grade with minimum cement content of 270 kg /cum	cum	2.7
4.20.2.4	Concrete of M25 grade with minimum cement content of 300 kg /cum	cum	3
4.20A	P/L ready mix plain cement concrete derived from natural sources & Recycled Concrete Aggregate (RCA) 4.20A.1 All works upto plinth level		
4.20A.1.1	Concrete of M10 grade with minimum cement content of 220 kg /cum	cum	2.2
4.20A.1.2	Concrete of M15 grade with minimum cement content of 240 kg /cum	cum	2.4
4.20A.1.3	Concrete of M20 grade with minimum cement content of 270 kg /cum	cum	2.7
4.20A.1.4	Concrete of M25 grade with minimum cement content of 300 kg /cum	cum	3
4.20A.2	All works above plinth and upto floor V level		
4.20A.2.1	Concrete of M10 grade with minimum cement content of 220 kg /cum	cum	2.2
4.20A.2.2	Concrete of M15 grade with minimum cement content of 240 kg /cum	cum	2.4
4.20A.2.3	Concrete of M20 grade with minimum cement content of 270 kg /cum	cum	2.7
4.20A.2.4	Concrete of M25 grade with minimum cement content of 300 kg /cum	cum	3

5.0 REINFORCED CEMENT CONCRETE

SI No.	Description of Item	Unit	Quantity of cement per unit quantity of work (Quintals)
5.1	P/L R.C.C. upto plinth level :		
5.1.2	1:1.5:3 (1 cement : 1.5 coarse sand derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	4
5.1.2A	1:1.5:3 (1 cement : 1.5 coarse sand including manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 20%: 3 graded stone aggregate 20 mm nominal size derived from Recycled Concrete Aggregate (RCA) upto 20%)	cum	4
5.1.3	1:2:4 (1 cement : 2 coarse sand derived from natural sources: 4 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	3.2

SI No.	Description of Item	Unit	Quantity of cement per unit quantity of work (Quintals)
5.1.3A	1:2:4 (1 cement : 2 coarse sand including manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 20%: 4 graded stone aggregate 20 mm nominal size derived from Recycled Concrete Aggregate (RCA) upto 20%)	cum	3.2
5.2	R.C.C work in walls etc.:		
5.2.2	1:1.5:3 (1 cement : 1.5 coarse sand derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	4
5.2.2A	1:1.5:3 (1 cement : 1.5 coarse sand including manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 20%: 3 graded stone aggregate 20 mm nominal size derived from Recycled Concrete Aggregate (RCA) upto 20%)	cum	4
5.3	R.C.C. (1:1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources) work in beams etc.	cum	4
5.3A	R.C.C. (1:1.5 including manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 20%: 3 graded stone aggregate 20 mm nominal size derived from Recycled Concrete Aggregate (RCA) upto 20%) work in beams etc.	cum	4
5.4	R.C.C. (1:1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources) work in kerbs, steps etc.	cum	4
5.4A	R.C.C. (1:1.5 including manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 20% : 3 graded stone aggregate 20 mm nominal size derived from Recycled Concrete Aggregate (RCA) upto 20%) work in kerbs, steps etc.	cum	4
5.5	R.C.C. (1:1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources) work in arches,domes etc.	cum	4
5.A	R.C.C. (1:1.5 including manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 20%: 3 graded stone aggregate 20 mm nominal size derived from Recycled Concrete Aggregate (RCA) upto 20%) work in arches,domes etc.	cum	4
5.6	R.C.C. (1:1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources) work in chimneys & shafts.	cum	4
5.6A	R.C.C. (1:1.5 including manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 20%: 3 graded stone aggregate 20 mm nominal size derived from Recycled Concrete Aggregate (RCA) upto 20%) work in chimneys & shafts.	cum	4
5.7	R.C.C. (1:1.5coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources) work in well-steining.	cum	4

SI No.	Description of Item	Unit	Quantity of cement per unit quantity of work (Quintals)
5.7A	R.C.C. (1:1.5 including manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 20%: 3 graded stone aggregate 20 mm nominal size derived from Recycled Concrete Aggregate (RCA) upto 20%) work in well-steining.	cum	4
5.8	R.C.C. (1:1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources) work in vertical and horizontal fins individually or forming box louvers, facias and eaves boards.	cum	4
5.8A	R.C.C. (1:1.5 including manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 20%: 3 graded stone aggregate 20 mm nominal size derived from Recycled Concrete Aggregate (RCA) upto 20%) work in vertical and horizontal fins individually or forming box louvers, facias and eaves boards.	cum	4
5.12	P/F precast R.C.C. (1:1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources) work in string courses, bands, copings, bed plates, anchor blocks, plain window sills etc.	cum	4
5.12A	P/F precast R.C.C. (1:1.5 including manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 20% : 3 graded stone aggregate 20 mm nominal size derived from Recycled Concrete Aggregate (RCA) upto 20%) work in string courses, bands, copings, bed plates, anchor blocks, plain window sills etc.	cum	4
5.13	P/F precast R.C.C. (1:1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources) in small lintels not exceeding 1.5m clear span.	cum	4
5.13A	P/F precast R.C.C. (1:1.5 including manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 20% : 3 graded stone aggregate 20 mm nominal size derived from Recycled Concrete Aggregate (RCA) upto 20%) in small lintels not exceeding 1.5m clear span.	cum	4
5.14	P/F precast R.C.C. (1:1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources) in mouldings as in cornices, windows sills etc.	cum	4
5.14A	P/F precast R.C.C. (1:1.5 including manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 20% : 3 graded stone aggregate 20 mm nominal size derived from Recycled Concrete Aggregate (RCA) upto 20%) in mouldings as in cornices, windows sills etc.	cum	4
5.15	P/F precast R.C.C. (1:1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources) in lintels, beams and bressumers etc.	cum	4
5.15A	P/F precast R.C.C. (1:1.5 including manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 20% : 3 graded stone aggregate 20 mm nominal size derived from Recycled Concrete Aggregate (RCA) upto 20%) in lintels, beams and bressumers etc.	cum	4

SI No.	Description of Item	Unit	Quantity of cement per unit quantity of work (Quintals)
5.16	P/F precast R.C.C. (1:1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources) in shelves.	cum	4.05
5.16A	P/F precast R.C.C. (1:1.5 including manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 20% : 3 graded stone aggregate 20 mm nominal size derived from Recycled Concrete Aggregate (RCA) upto 20%) in shelves.	cum	4.05
5.17	P/F precast R.C.C. (1:1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources) in vertical & horizontal fins individually or forming box louvers.	cum	4
5.17A	P/F precast R.C.C. (1:1.5 including manufactured sand derived from Recycled Concrete Aggregate (RCA) upto 20% : 3 graded stone aggregate 20 mm nominal size derived from Recycled Concrete Aggregate (RCA) upto 20%) in vertical & horizontal fins individually or forming box louvers.	cum	4
5.18	Fixing precast cement concrete Jali (1:2:4).		
5.18.1	50 mm thick	100 sqm	1.64*
5.18.2	40 mm thick	100 sqm	1.64*
5.18.3	25 mm thick	100 sqm	1.64*

6.0 MASONRY WORK

SI No.	Description of Item	Unit	Quantity of cement per unit quantity of work (Quintals)
6.1	Brick work in foundation & plinth with non modular bricks.		
6.1.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	0.95
6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	0.625
6.2	Brick work in foundation & plinth with modular bricks.		
6.2.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	0.836
6.2.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	0.55
6.3	Brick work with machine moulded perforated bricks.		
6.3.1	With non modular bricks.	cum	0.625
6.3.2	With modular bricks.	cum	0.55
6.4	Brick work in superstructure		
6.4.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	0.95
6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	0.625
6.7	Half brick masonry in cement mortar (1:3) for closing cavity 5 to 7.5 cm wide in cavity wall.	100 metre	3.86
6.8	Brick work 7 cm in cement mortar (1:3).	100 sqm	9.23
6.9 & 6.10	Brick work in plain & gauged arches in cement mortar (1:3).	cum	1.28

SI No.	Description of Item	Unit	Quantity of cement per unit quantity of work (Quintals)
HALF BRICK MASONRY			
6.12 & 6.13	Half brick masonry in foundations & plinth and superstructure.		
6.12.1 & 6.13.1	Cement mortar 1:3 (1 cement : 3 coarse sand)	100 sqm	14.28
6.12.2 & 6.13.2	Cement mortar 1:4 (1 cement : 4 coarse sand)	100 sqm	10.64
BRICK TILE WORK			
6.16	Tile brick masonry in foundation and plinth. :		
6.16.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	1.52
6.16.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	1
6.17 & 6.18	Tile brick masonry with m/c moulded tiles in cement mortar 1:6 (1 cement : 6 coarse sand).	cum	1
6.20 & 6.21	Tile brick masonry with tile bricks in plain/gauged arches work in in cement mortar (1:4).	cum	1.33
6.22	Tile brick masonry work 5 cm thick in cement mortar (1:3).	100 sqm	7.65
HONEY COMB WORK			
6.23	Honey-comb brick work 10/11.4 cm thick in cement mortar 1:4.	100 sqm	6.56
EXPOSED BRICK WORK			
6.26	Brick work with selected bricks in cement mortar (1:6). cum 0.625	cum	0.625
6.27	Brick work with modular bricks in cement mortar (1:6).	cum	0.55
6.28	Brick work with machine moulded modular bricks in cement mortar (1:6).	cum	0.55
6.29	Brick work with m/c moulded F.P.S. bricks in cement mortar (1:6).	cum	0.625
6.3	Brick work with machine moulded perforated F.P.S. bricks in cement mortar (1:6).	cum	0.625
6.31	Brick work with machine moulded perforated modular bricks in cement mortar (1:6).	cum	0.55
6.32	Brick work with clay flyash F.P.S. brick		
6.32.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	0.95
6.32.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	0.625
6.34	Brick work with non modular fly ash bricks in		
6.34.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	0.95
6.34.2	Cement mortar 1:6 (1 cement : 6 Coarse sand)	cum	0.625
6.35	Brick work with modular calcium silicate bricks machine moulded in		
6.35.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	0.836
6.35.3	Cement mortar 1:6 (1 cement : 6 Coarse sand)	cum	0.55
6.36	Brick work with modular extruded burnt fly ash clay sewer bricks in :		
6.36.1	Cement Mortar 1:4 (1 cement : 4 coarse sand)	cum	0.836
6.37	Brick work with modular extruded burnt fly ash clay sewer bricks in cement mortar (1:3).	cum	1.275
6.38	Autoclaved aerated cement blocks masonry with 100mm thick AAC blocks in cement mortar (1:4).	cum	0.57
6.44	Brick edging 7 cm wide in cement mortar (1:4).	100 metre	0.137

SI No.	Description of Item	Unit	Quantity of cement per unit quantity of work (Quintals)
6.45	Half brick masonry with non modular fly ash bricks.		
6.45.1	Cement mortar 1:3 (1 cement :3 coarse sand).	100 sqm	14.28
6.45.2	Cement mortar 1:4 (1 cement :4 coarse sand).	100 sqm	10.64
RANDOM RUBBLE MASONRY			
7.1 & 7.2	Random rubble masonry with cement mortar (1:6).	cum	0.825
COURSED RUBBLE MASONRY			
7.6	Coursed rubble masonry (first sort) with :		
7.6.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	0.75
7.7	Coursed rubble masonry (second sort) with :		
7.7.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	0.75
ASHLAR MASONRY			
7.12	Stone work in plain ashlar in cement mortar (1:6) including pointing with white cement mortar (1:2).	cum	0.54
7.13 & 7.14	Stone work plain ashlar in arches/domes in cement mortar (1:3) including pointing with white cement mortar (1:2).	cum	1.07
7.15	Stone work ashlar punched in cement mortar 1:6) including pointing with white cement mortar (1:2).	cum	0.54
SUNK, MOULDED, CARVED ASHLAR MASONRY			
7.2	Stone work sunk and / or moulded including pointing with white cement mortar (1:2).	cum	0.54
MISCELLANEOUS STONE WORK			
7.26	P/F stone dowels 10x5x2.50 cm in cement mortar (1:2) .	each	0.007
7.28	P/F sloping chajja of stone 40 mm thick and upto 80 cm wide in cement mortar (1:4) i/c pointing in white cement mortar (1:2).	100 sqm	5.59
7.29	P/F horizontal chajja of stone 40 mm thick and upto 80 cm projection in cement mortar (1:4) i/c pointing in white cement mortar (1:2).	100 sqm	4.94 + 0.03*
7.3	P/F 30 mm red sand stone sun-shade with cement mortar 1:4 including finishing complete.	100 sqm	2.19
7.31	Providing and fixing red sand stone brackets 55x22.5x45cm.	100nos	3.02
7.32	Stone work, plain in copings, cornices, string courses etc. in Cement mortar 1:6 including pointing with white cement mortar (1:2).	cum	0.54
7.38	Stone tile work for wall lining with 12 mm thick bed in cement mortar (1:3).	sqm	10.44 + 1.70*
	* White cement		
8.1	Marble work 18 mm thick for wall lining in cement mortar 1:3 including pointing with white cement mortar 1:2.	100 sqm	8.67 + 1.70*
8.2	P/F 18mm thick gang saw cut mirror polished premoulded and prepolished) machine cut for kitchen platforms, vanity counters etc. laid over 20mm thick base cement mortar 1:4.	100 sqm	9.12

SI No.	Description of Item	Unit	Quantity of cement per unit quantity of work (Quintals)
8.4	Extra for fixing marble /granite stone over and above corresponding basic item, in fascia and drops of width upto 150 mm with epoxy resin based adhesive including cleaning etc. complete.	100 metre	1.27
8.7	P/F cramps in RCC/ CC backing with cement mortar 1:2 .		
8.7.1	Gunmetal cramps	kg	0.0635
8.7.2	Stainless steel cramps	kg	0.0701
8.9	Stone tile work for wall lining over 12mm thick bed of cement mortar (1:3) and cement slurry @ 3.3 kg/sqm including pointing in white cement complete.	100 sqm	10.44 + 1.90*
8.11	P/F machine cut mirror/edge polished	100 sqm.	8.16 + 3.30*
8.14	Stone work (machine cut edges) for wall lining etc. (vener work) in cement mortar (1:3) including pointing in white cement mortar (1:2).	100 sqm	9.18 + 1.56*
8.15	P/F stainless steel cramps in stone wall lining in cement mortar (1:2).	kg	0.07
8.16	P/F copper pins 7.5 cm long 6 mm diameter in stone wall lining in cement mortar (1:2).	each	0.007
8.17	Wall lining butch work with Dholpur stone 40 mm thick, in cement mortar (1:3) including ruled pointing in cement mortar (1:2).	100 sqm	15.50 +1.70*
8.18	Stone work (machine cut edges) for wall lining with grout of 12 mm thick in cement mortar (1:3) and jointed with Cement mortar (1:2).	100 sqm	13.744
8.21	P/F structural steel frame (for dry stone cladding) embedded in brick wall with cement concrete block (1:2:4)	100kg	1.05
8.23	P/F 50x50x50 mm 2nd class teak wood plugs in cement mortar 1:3.	100 nos.	0.01
8.25	P/F 2nd class teak wood plain lining with wooden plugs.	100 sqm	0.055
8.31	P/F 1st quality ceramic glazed wall tiles over 12 mm thick bed of cement Mortar (1:3) with grey cement slurry @ 3.3kg/ sqm * White cement	sqm	0.1044
MISCELLANEOUS - WOOD WORK			
9.46	P/F curtain rods of 1.25 mm thick chromium plated brass brackets with wooden plugs, etc.	100 metre	0.01
9.47	Providing and fixing nickel plated M.S. pipe curtain rods with nickel plated brackets.	100 metre	0.01
9.53	Providing 40x5 mm flat iron hold fast 40 cm long with cement concrete block 30x10x15cm 1:3:6 mix. 100 nos	100 nos	1.1
10.4	P/F 1 mm thick M.S. sheet sliding-shutters with frame.	100 sqm	0.35
10.5	P/F 1 mm thick M.S. sheet door with frame.	100 sqm	0.35
10.6	Supplying and fixing rolling shutters.	100 sqm	0.35
10.10.1 & 10.11.1	Fixing standard steel glaze door windows etc.	100 kg	0.13
10.13.1	P/F 'T' iron froms for doors windows & ventilators	100 kg	0.11
10.15	Providing and fixing M.S. Tubular frames for doors, windows, ventilators and cupboard with 15x3 mm lugs 10 cm long embedded in cement concrete blocks 15x10x10 cm of 1:3:6 mix.	100 kg	0.28
11.1	Brick on edge flooring.		
40544	1:4 (1 cement : 4 coarse sand)	sqm	0.185

SI No.	Description of Item	Unit	Quantity of cement per unit quantity of work (Quintals)
40545	1:6 (1cement : 6 coarse sand)	sqm	0.1285
11.3	Cement concrete flooring 1:2:4.		
11.3.1	40mm thick with 20mm nominal size stone aggregate	sqm	0.17
11.4	52 mm thick cement concrete flooring.	sqm	0.231
11.5	62 mm thick cement concrete flooring.	sqm	0.263
11.6	Cement plaster skirting with cement mortar (1:3).	sqm	0.14
11.7	Cement concrete pavement with C.C. (1:2:4).	cum	3.2
TERRAZO FLOORING			
11.9	40 mm thick marble chips flooring with under layer 34 mm thick cement concrete (1:2:4).		
11.9.1	Dark shade pigment with ordinary cement	sqm	0.1695
11.9.2	Light shade pigment with white cement	sqm	0.129+0.0405 *
11.9.3	Medium shade pigment with 50% white cement and 50% ordinary cement	sqm	0.1492+0.020 2*
11.9.4	White cement without any pigment	sqm	0.129+0.0202 *
11.9.5	Light shade pigment with ordinary cement	sqm	0.1695
11.9.6	Ordinary cement without any pigment	sqm	0.1695
11.1	40 mm thick marble chips flooring with under layer 31mm thick cement concrete 1:2:4.		
11.10.1	Dark shade pigment with Ordinary cement	sqm	0.1783
11.10.2	Light shade pigment with white cement	sqm	0.1205+0.057 8*
11.10.3	Medium shade pigment with 50% white cement and 50% ordinary cement	sqm	0.1494+0.028 9*
11.10.4	White cement without any pigment	sqm	0.1205+0.057 8*
11.10.5	Light shade pigment with ordinary cement	sqm	0.1783
11.10.6	Ordinary cement without any pigment	sqm	0.1783
11.11	40 mm thick marble chips flooring with under layer 28 mm thick cement concrete 1:2:4.		
11.11.1	Dark shade pigment with ordinary cement	sqm	0.1907
11.11.2	Light shade pigment with white cement	sqm	0.1097+0.081 *
11.11.3	Medium shade pigment with 50% white cement and 50% ordinary cement	sqm	0.1502+0.040 5*
11.11.4	White cement without any pigment	sqm	0.1097+0.081 *
11.11.5	Light shade pigment with ordinary cement	Sqm	0.1097
11.11.6	Ordinary cement without any pigment	Sqm	0.1097
11.12	Marble chips skirting :		
11.12.1	18 mm thick with under layer 12 mm thick in cement plaster 1:3 (1 cement : 3 coarse sand)		
11.12.1.1	Dark shade pigment with ordinary cement	sqm	0.1292

SI No.	Description of Item	Unit	Quantity of cement per unit quantity of work (Quintals)
11.12.1.2	Light shade pigment with white cement	sqm	0.0887+0.0405*
11.12.1.3	Medium shade pigment with 50% white cement and 50% ordinary cement	sqm	0.109+0.0203*
11.12.1.4	White cement without any pigment	sqm	0.109+0.0405*
11.12.1.5	Light shade pigment with ordinary cement	sqm	0.1292
11.12.1.6	Ordinary cement without any pigment	sqm	0.1292
11.15	Crazy marble stone flooring		
11.15.1	18 mm thick crazy marble stone white, black or as specified * White Cement	sqm	0.1200+0.0405*
TILE FLOORING			
11.16	Precast terrazo tiles 22mm thick in floors, and landings on 20mm thick bed of cement mortar (1:4).		
11.16.1	Light shade using white cement	sqm	0.0895+0.044*
11.16.2	Medium shade using 50% white cement and 50% ordinary cement	sqm	0.0917+0.0220*
11.16.3	Dark shade using ordinary cement	sqm	0.0939
11.16.4	Ordinary cement without any pigment	sqm	0.0939
11.18	Precast terrazo tiles 22 mm thick in skirting and risers of steps.		
11.18.1	Light shade using white cement.	sqm	0.0734+0.066*
11.18.2	Medium shades using 50% white cement and 50% ordinary cement.	sqm	0.1064+0.033*
11.18.3	Dark shade using ordinary cement	sqm	0.1394
11.18.4	Ordinary cement without any pigment	sqm	0.1394
11.19	Chequered terrazo tiles 22 mm thick in floors on 20 mm thick bed of cement mortar (1:4).		
11.19.1	Light shade using white cement	sqm	0.0895+0.044*
11.19.2	Medium shade using 50% white cement, 50% ordinary cement	sqm	0.0917+0.024*
11.19.3	Dark shade using ordinary cement	sqm	0.0939
11.19.4	Ordinary cement without any pigment	sqm	0.0939
11.2	Chequered precast cement concrete tiles 22 mm thick in foot path on 20 mm thick bed of cement mortar (1:4).		
11.20.1	Light shade using white cement	sqm	0.1291+0.066*
11.20.2	Medium shade using 50% white cement 50% Grey cement	sqm	0.1621+0.033*
11.20.3	Dark shade using ordinary cement	sqm	0.1951
11.20.4	Ordinary cement without any pigment	sqm	0.1951
11.21	Providing and fixing 10mm thick acid and or alkali resistant tiles.		
11.21.1	In flooring on a bed of 10 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand)		
11.21.1.1	Acid and alkali resistant tile	Sqm	0.0786**

SI No.	Description of Item	Unit	Quantity of cement per unit quantity of work (Quintals)
11.21.2	In dado/skirting on 12 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand)		
11.21.2.1	Acid and alkali resistant tile	Sqm	0.0862**
11.22	Tile work in skirting, risers of steps etc. with 8 mm thick marble tile.	sqm	0.1044
STONE FLOORING			
11.23	Marble stone flooring with 18 mm thick marble stone over 20 mm thick cement mortar (1:4).	sqm	0.13512
KOTA STONE FLOORING			
11.26	Kota stone slab flooring over 20 mm thick bed of cement mortar (1:4).	sqm	0.1491
11.27	Kota stone slabs 20 mm thick in risers of steps, skirting etc. laid on 12 mm (average) thick cement mortar 1:3.	sqm	0.1374
SAND STONE FLOORING			
11.28	40 mm thick fine dressed stone flooring over 20 mm (average) thick base of cement mortar 1:5 with joints finished flush.	sqm	0.0775
11.29	40 mm thick fine dressed stone flooring over 20 mm (average) thick base of cement mortar 1:5 including pointing with cement mortar 1:2.	sqm	0.0931
11.3	40 mm thick rubbed stone flooring over 20 mm (average) thick base of cement mortar 1:5 with joints 3mm thick, side buttered with cement mortar 1:2.	sqm	0.0931
CERAMIC GLAZED TILES			
11.37	P/L ceramic glazed floor tiles laid on 20 mm thick Cement Mortar (1:4) with grey cement @ 3.3kg/sqm	sqm	0.1242
11.38	P/L ceramic glazed floor tiles laid on 20mm thick bed of Cement Mortar (1:4) with grey cement @ 3.3kg/sqm	sqm	0.1242
11.39 & 11.40	P/L rectified Glazed Ceramic floor tiles laid on 20mm thick cement mortar (1:4).	sqm	0.1242
VITRIFIED FLOOR TILES			
11.41 & 11.41A	P/L vitrified floor tile laid on 20mm thick cement mortar (1:4).	sqm	0.1242
11.44	Crazy ceramic tile flooring.	sqm	0.0646
11.46	P/L vitrified tile in skirting in cement mortar (1:3).	sqm	0.088
11.51	P/L Machine cut, Mirror polished, Italian Marble stone flooring	Sqm.	0.085 + 0.05*
11.52	P/L Machine cut Mirror polished Marble stone flooring	Sqm.	0.085 + 0.05*
11.55	P/L flamed finish granite stone flooring	100 sqm.	13.5
11.56	P/L polished granite stone	100 sqm.	13.5
	* White cement		
	** Acid alkali resistant cement.		
12.16	10 cm thick mud phaska with flat tile bricks grouted with cement mortar (1:3).	100 sqm	3.11

SI No.	Description of Item	Unit	Quantity of cement per unit quantity of work (Quintals)
12.17	10cm thick mud phaska with machine moulded tile bricks grouted with cement mortar (1:3).	100 sqm	3.11
12.19	Providing and laying brick tiles over mummy roofs grouted with cement mortar (1:3).	100 sqm	9.13
12.2	Providing and laying pressed clay tiles on roofs jointed with cement mortar (1:4).	100 sqm	9.92
12.21	Providing gola 75x75 mm in cement concrete (1:2:4).	metre	0.031
12.22	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete (1:2:4).	each	0.06
12.23	Providing sand stone slab for roofing and laying cement mortar (1 : 4).	100 sqm	0.74
12.38	Providing and fixing M.S. holder bat clamps in cement concrete blocks 10x10x10cm of 1:2:4 mix.	each	0.005
12.55	P/F heat resistant tile on roof with cement mortar (1:4) and filling joints with white cement marble mix.	sqm	0.1367
CEMENT PLASTER (IN FINE SAND)			
13.1	12 mm cement plaster:		
13.1.1	1:4 (1 cement : 4 fine sand)	100 sqm	5.47
13.1.2	1:6 (1 cement : 6 fine sand)	100 sqm	3.6
13.2	15 mm cement plaster:		
13.2.1	1:4 (1 cement : 4 fine sand)	100 sqm	6.54
13.2.2	1:6 (1 cement : 6 fine sand)	100 sqm	4.3
13.3	20 mm cement plaster :		
13.3.1	1:4 (1 cement : 4 fine sand)	100 sqm	8.51
13.3.2	1:6 (1 cement : 6 fine sand)	100 sqm	5.6
CEMENT PLASTER (IN COARSE SAND)			
13.4	12 mm cement plaster :		
13.4.1	1:4 (1 cement : 4 coarse sand)	100 sqm	5.47
13.4.2	1:6 (1 cement : 6 coarse sand)	100 sqm	3.6
13.5	15 mm cement plaster :		
13.5.1	1:4 (1 cement : 4 coarse sand)	100 sqm	6.54
13.5.2	1:6 (1 cement : 6 coarse sand)	100 sqm	4.3
13.6	20 mm cement plaster :		
13.6.1	1:4 (1 cement : 4 coarse sand)	100 sqm	8.51
13.6.2	1:6 (1 cement : 6 coarse sand)	100 sqm	5.6
CEMENT PLASTER WITH A FLOATING COAT OF NEAT CEMENT			
13.7	12 mm cement plaster finished with a floating coat of neat cement :		
13.7.1	1:3 (1 cement : 3 fine sand)	100 sqm	9.54
13.7.2	1:4 (1 cement : 4 fine sand)	100 sqm	7.67
13.8	15 mm cement plaster finished with a floating coat of neat cement :		
13.8.1	1:3 (1 cement : 3 fine sand)	100 sqm	10.97
13.8.2	1:4 (1 cement : 4 fine sand)	100 sqm	8.74
13.9	Cement plaster (1:3) finished with a floating coat of neat cement.		
13.9.1	12 mm Cement Plaster	100 sqm	9.54

SI No.	Description of Item	Unit	Quantity of cement per unit quantity of work (Quintals)
13.9.2	20 mm Cement Plaster	100 sqm	13.62
13.1	15 mm cement plaster (1:3) finished with a floating coat of neat cement.	100 sqm	10.97
13.11	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 finished with a top layer 6mm thick cement plaster 1:6.	100 sqm	6.26
13.12	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 and a top layer 6mm thick cement plaster (1:3).	100 sqm	8.13
13.13	12 mm cement plaster 1:2 (1 cement : 2 stone dust).	100 sqm	9.79
13.14	15 mm cement plaster 1:2 (1 cement : 2 stone dust).	100 sqm	11.7
13.15	20 mm cement plaster 1:2 (1 cement : 2 stone dust).	100 sqm	15.23
6 MM CEMENT PLASTER			
13.16	6 mm cement plaster of mix :		
13.16.1	1:3 (1 cement : 3 fine sand)	100 sqm	3.67
13.17	6 mm cement plaster (1:3) finished with a floating coat of neat cement.	100 sqm	5.87
13.18	Neat cement punning	100 sqm	2.2
ROUGH CAST PLASTER			
13.19	Rough cast plaster in two layers, under layer 12 mm cement plaster (1:4) and top layer 10mm cement plaster (1:3).	100 sqm	11.59
PEBBLE DASH PLASTER			
13.2	Pebble dash plaster in two layers, under layer 12mm cement plaster 1:4 and top layer 10mm cement plaster with cement mortar (1:3).	100 sqm	11.59
PLAIN CEMENT MORTAR BANDS			
13.28	12 mm thick plain cement mortar bands in cement mortar (1:4) : (Flush /Sunk / Raised / Moulded Band).	100 metre 1cm wide	0.053
13.29	18 mm thick plain cement mortar band in cement mortar (1:4)	100 metre 1cm wide	0.076
13.30	18 mm thick moulded cement mortar band in two coats under layer 12mm thick with cement mortar 1:5, top layer 6mm thick with cement mortar (1:4).	100 metre 1cm wide	0.07
POINTING OF BRICK WORK			
13.31	Pointing on brick work with cement mortar (1:3) :		
13.31.1	Flush / Ruled/ Struck or weathered pointing	100 sqm	1.53
13.31.2	Raised and cut pointing	100 sqm	2.04
POINTING ON TILE BRICK WORK			
13.32	Pointing on tile brick work with cement mortar (1:3).		
13.32.1	Flush/ Ruled/ Struck or weathered pointing	100 sqm	2.35
POINTING ON STONE WORK			
13.33	Pointing on stone work with cement mortar (1:3).		
13.33.1	Flush/ Ruled pointing	100 sqm	1.17

SI No.	Description of Item	Unit	Quantity of cement per unit quantity of work (Quintals)
13.33.2	Raised and cut pointing	100 sqm	2.35
13.34	Raised and cut pointing on stone work in white cement mortar (1:3).	100 sqm	2.35*
13.35	Pointing on stone slab ceiling with cement mortar (1:2).	100 sqm	1.02
13.72	Washed stone grit plaster on exterior walls in two layers under layer 12mm cement plaster (1:4), top layer 15mm cement plaster 1:1/2:2.	100 sqm	17.472

Note: - Cement consumption for pointing is same for modular & non modular bricks.

* White cement

14.0 REPAIRS TO BUILDING

SI No.	Description of Item	Unit	Quantity of cement per unit quantity of work (Quintals)
14.1	Repairs to plaster of thickness 12 mm to 20 mm in patches with cement mortar 1:4.	100 sqm	6.95
14.2	Fixing chowkhats in existing opening with hold fasts in cement concrete blocks with cement concrete 1:3:6.		
14.2.1	Door chowkhats	each	0.12
14.2.2	Window chowkhats	each	0.06
14.2.3	Clerestory window chowkhats	each	0.03
14.12	Providing and fixing 16 mm M.S. Fan clamps in existing R.C.C. slab.	each	0.016
14.13	Regrading terracing of mud phaska to proper slope.	100 sqm	3.11
14.14	Replacing sand stone slabs in roofing in cement mortar 1:4.	100 sqm	0.78
14.15	Renewing wooden battens in roofs & making good the holes in walls.	cum	0.36
14.16	Renewing wooden beams in roofs & making good the holes in walls.	cum	0.13
14.18	Flush pointing with cement mortar 1:3 for flat tile bricks on top of mud phaska.	100 sqm	0.76

16.0 ROAD WORK

SI No.	Description of Item	Unit	Quantity of cement per unit quantity of work (Quintals)
16.23	P/F boundary stone including finishing smooth with cement mortar (1:3).	each	0.082
16.24	P/F precast R.C.C. kilometre stone including finishing smooth in cement mortar (1:3).		
16.24.1	35x111x25 cm size	each	0.37
16.24.2	50x152.5x25 cm size	each	0.698
16.24.3	35x93.5x18 cm size	each	0.23

SI No.	Description of Item	Unit	Quantity of cement per unit quantity of work (Quintals)
CONCRETE PAVEMENT			
16.42	Cement concrete (1:2:4) in pavements.	cum	3.2
16.43	Providing and laying design mix cement concrete of M-30 grade, in roads/ taxi tracks/ runways, using cement content as per design mix.	cum	3.4
MISCELLANEOUS			
16.49	Making bell mouth opening including providing cement concrete (1:3:6) & plastering with cement mortar (1:3).	10 Nos.	6.6
16.52	Providing and fixing precast lime fly ash concrete blocks including finishing with 10mm thick cement mortar (1:3), in foot paths.	sqm	0.05
16.63	16.63 P/L kerb channel 30cm wide and 50mm thick of cement concrete (1:3:6).	metre	0.11
16.67	Providing and fixing factory made RCC pavement slab of M-30 grade in footpath over a bed of 20mm average thick cement mortar (1:5).	100 sqm	7.75
16.69	Providing and laying factory made kerb stone of M-25 grade jointed with cement mortar (1:3).	cum	0.05
16.75	Providing and laying C.C. pavement of mix M-25 with ready mixed concrete.	cum	3.3
16.8	Dry lean cement concrete sub base.	cum	1.5
16.85	Laying old kerb stones, jointed with cement mortar (1:3).	100 metre	0.3723
16.86	P/L gang saw cut 18 mm thick, mirror polished	sqm	0.09
16.87	P/L gang saw cut 30 mm thick mirror polished	sqm	0.09
16.88	P/L Matt finished vitrified tile of size	sqm	0.12
16.89	P/L Matt finished vitrified tile of size	sqm	0.12
16.9	P/L tactile tile	sqm	0.12
16.92	P/F 10x10x7.5 cm. granite stone block	sqm	1.85
16.93	Providing and Placing in position 100mm thick precast RCC covers on drain of footpath	sqm	0.352

17.0 SANITARY INSTALLATIONS

SI No.	Description of Item	Unit	Quantity of cement per unit quantity of work (Quintals)
17.1/17.4	Fixing		
7.2/17.3	Indian European type W.C. pan. white vitreous china urinal basin :	each	0.05
17.4	Fixing		
42826	One urinal basin with 5 litre white P.V.C. automatic flushing cistern	each	0.025
42827	Range of two urinal basins with 5 litre white P.V.C. automatic flushing cistern	each	0.04
42828	Range of three urinal basins with 10litre white P.V.C. automatic flushing cistern	each	0.067
42829	Range of four urinal basins with 10 litre white P.V.C. automatic flushing cistern	each	0.095

SI No.	Description of Item	Unit	Quantity of cement per unit quantity of work (Quintals)
17.5 42856	Fixing white vitreous china flat back half stall urinal : Single half stall urinal with 5 litre P.V.C. automatic flushing cistern	each	0.051
42857	Range of two half stall urinals with 5 litre P.V.C. automatic flushing cistern	each	0.102
42858	Range of three half stall urinals with 10 litre P.V.C. automatic flushing cistern	each	0.153
42859	Range of four half stall urinals with 10 litre P.V.C. automatic flushing cistern	each	0.203
17.6 42887	Fixing plate one piece construction white vitreous china squatting Single squatting plate with 5 litre P.V.C. automatic flushing cistern	each	0.051
42888	Range of two squatting plates with 5 litre P.V.C. automatic flushing cistern	each	0.102
42889	Range of three squatting plates with 10 litre P.V.C. automatic flushing cistern	each	0.153
42890	Range of four squatting plates with 10 litre P.V.C. automatic flushing cistern	each	0.203
17.7	Fixing wash basin with C.I. brackets.	each	0.025
17.8	Fixing white vitreous china pedestal for wash basin.	each	0.016*
17.9	Fixing kitchen sink with C.I. brackets.	each	0.025
17.1	Fixing kitchen sink with C.I. brackets.	each	0.025
17.11	Fixing kitchen sink with C.I. brackets.	each	0.025
17.12	Fixing draining board with C.I. brackets.	each	0.014
17.13	Fixing White vitreous china water closet squatting pan.	each	0.025
17.17	Fixing a pair of white vitreous china foot rests.	each	0.025
17.23	Fixing white vitreous china flat urinal basin.	each	0.01
17.24	Fixing white vitreous china squatting plate urinal.	each	0.02
17.25	Fixing white vitreous china wash basin.	each	0.015
17.26	Fixing kitchen sink.	each	0.015
17.27	Fixing kitchen sink.	each	0.015
17.37	Providing and fixing M.S. holder-bat clamps.	each	0.005
17.59	Providing and fixing M.S. stays and clamps.	each	0.005
17.6	Providing and fixing trap of self-cleansing design.	each	0.025
17.61	Cutting chases in brick masonry walls for sand cast iron/ centrifugally cast (spun) iron pipes and making good the same with C.C.(1:3:6).		
17.61.1	100 mm dia	100 metre	5.4
17.61.2	75 mm dia	100 metre	3.7
17.61.3	50 mm dia	100 metre	1.87

* White Cement.

18.0 WATER SUPPLY

SI No.	Description of Item	Unit	Quantity of cement per unit quantity of work (Quintals)
--------	---------------------	------	---

SI No.	Description of Item	Unit	Quantity of cement per unit quantity of work (Quintals)
18.1/18.4/ 18.7/18.10	Providing and fixing G.I./ PE-AL-PE/ PP-R pipes.		
Internal work - Exposed on wall			
18.10.1	15 mm dia nominal bore	100 metre	0.05
18.10.2	20 mm dia nominal bore	100 metre	0.06
18.10.3	25 mm dia nominal bore	100 metre	0.07
18.10.4	32 mm dia nominal bore	100 metre	0.075
18.10.5	40 mm dia nominal bore	100 metre	0.08
18.10.6	50 mm dia nominal bore	100 metre	0.08
18.2/18.5/18.8/18.11	P/F concealed pipes.	100 metre	0.88
18.32	Constructing masonry Chamber 0x30x50 cm, for stop cock.	each	0.26
18.33	Constructing masonry Chamber 60x60x75 cm, for sluice valve.	each	1.44
18.34	Constructing masonry Chamber 90x90x100 cm, for sluice valve.	each	2.48
18.35	Constructing masonry Chamber 120x120x100 cm, for sluice valve.	each	3.5
18.36	Constructing masonry Chamber 60x60x75 cm, for fire hydrants.	each	1.3
18.37	Constructing masonry Chamber 60x45x50 cm, for water meter.	each	1.34
18.76	Cutting holes up to 30x30 cm in walls including making good the same.	100 Nos.	2.92
18.77	Cutting holes up to 15x15 cm in R.C.C. floors and roofs and repairing the hole after insertion of drain pipes etc. with cement concrete (1:2:4).	100 Nos.	0.7
18.78	Making chases up to 7.5x7.5 cm in walls i/c finishing.	100 metre	0.88
18.79	Making hole up to 20x20 cm and embedding pipes up to 150 mm diameter in masonry and filling with cement concrete (1:3:6).	100 metre	4.9

19.0 DRAINAGE

SI No.	Description of Item	Unit	Quantity of cement per unit quantity of work (Quintals)
19.1	Jointing glazed stoneware pipes with stiff mixture of cement mortar in the proportion of (1:1).		
43466	100 mm diameter	100 metre	2.17
43467	150 mm diameter	100 metre	3.23
43468	200 mm diameter	100 metre	4.33
43470	250 mm diameter	100 metre	5.4
43471	300 mm diameter	100 metre	6.47
Laying cement concrete (1:5:10) around S.W. pipes:			
19.2.1	100 mm diameter S.W. pipe	100 metre	19.24
19.2.2	150 mm diameter S.W. pipe	100 metre	23.53
19.2.3	200 mm diameter S.W. pipe	100 metre	27.43
19.2.5	250 mm diameter S.W. pipe	100 metre	31.72
19.3	Laying cement concrete (1:5:10) upto haunches of S.W. pipes:		
19.3.1	100 mm diameter S.W. pipe	100 metre	9.14

SI No.	Description of Item	Unit	Quantity of cement per unit quantity of work (Quintals)
19.3.2	150 mm diameter S.W. pipe	100 metre	14.82
19.3.3	200 mm diameter S.W. pipe	100 metre	17.42
19.3.4	250 mm diameter S.W. pipe	100 metre	20.28
19.3.5	300 mm diameter S.W. pipe	100 metre	23.4
19.4	P/L NP2 class R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of (1:2):		
19.4.1	100x100 mm size P type	each	0.27
19.4.2	150 x 100 mm size P type.	each	0.26
19.4.3	180x150 mm size P type	each	0.25
19.6.1	100 mm dia. R.C.C. pipe	100 metre	0.5
19.6	P/L NP2 class R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of (1:2):		
19.6.2	150 mm dia. R.C.C. pipe	100 metre	0.6
19.6.3	250 mm dia. R.C.C. pipe	100 metre	0.9
19.6.4	300 mm dia. R.C.C. pipe	100 metre	1.1
19.6.5	450 mm dia. R.C.C. pipe	100 metre	2.4
19.6.6	500 mm dia. R.C.C. pipe	100 metre	2.6
19.6.7	600 mm dia. R.C.C. pipe	100 metre	3.2
19.6.8	700 mm dia. R.C.C. pipe	100 metre	3.7
19.6.9	800 mm dia. R.C.C. pipe	100 metre	4.2
19.6.10	900 mm dia. R.C.C. pipe	100 metre	4.9
19.6.11	1000 mm dia. R.C.C. pipe	100 metre	5.5
19.6.12	1100 mm dia. R.C.C. pipe	100 metre	6.1
19.6.13	1200 mm dia. R.C.C. pipe	100 metre	6.8
19.7	Constructing brick masonry manhole in cement mortar (1:4).		
19.7.1	Inside size 90x80 cm and 45 cm deep	each	2.92
19.7.2 & 19.7.3	Inside size 120x90 cm and 90 cm deep	each	4.73
19.8	Extra for depth for manholes		
19.8.1	Size 90x80 cm	metre	1.26
19.8.2	Size 120x90 cm	metre	1.52
19.9	Constructing brick masonry circular type manhole 0.91 m internal dia at bottom and 0.56m dia at top in cement mortar (1:4).		
19.9.1	0.91 m deep	each	2.75
19.1	Extra depth for circular type manhole 0.91m internal dia (at bottom) with beyond 0.91m to 1.67m	metre	1.4
19.11	Constructing brick masonry circular manhole 1.22 m internal dia at bottom and 0.56m dia at top in cement mortar (1:4).		
19.11.1	1.68 m deep	each	5.39
19.12	Extra depth for circular type manhole 1.22m internal dia (at bottom) beyond 1.68 m to 2.29 m.	metre	1.43
19.13	Constructing brick masonry circular manhole 1.52 m internal dia at bottom and 0.56 m dia at top in cement mortar (1:4).		
19.13.1	2.30 m deep	each	10.86
19.14	Extra depth for circular type manhole 1.52 m internal dia (at bottom) beyond 2.30 m.	metre	3.11

SI No.	Description of Item	Unit	Quantity of cement per unit quantity of work (Quintals)
19.15	Providing M.S. foot rests including fixing in manholes with 20x20x10 cm cement concrete blocks (1:3:6).	100 nos.	0.88
19.16	Providing orange colour safety foot rest.	100 nos.	1.98
19.17	Replacement of M.S. foot rests in manholes with 20x 10x10 cm C.C. blocks (1:3:6) mix.	100 nos.	0.88
19.19	Providing and fixing in position precast R.C.C. manhole cover and frame.		
19.19.1	LD- 2.5		
19.19.1.1	Rectangular shape 600x450mm internal dimensions	each	0.128
19.19.1.2	Square shape 450mm internal dimensions	each	0.096
19.19.1.3	Circular shape 450mm internal diameter	each	0.096
19.19.2	M D - 10		
19.19.2.1	Square shape 450mm internal dimension	each	0.128
19.19.2.2	Circular shape 500mm internal diameter	each	0.096
19.19.3	H D - 20		
19.19.3.1	Circular shape 560 mm internal diameter	each	0.096
19.19.4	EHD - 35		
19.19.4.1	Circular shape 560 mm internal dia	each	0.096
19.21	Making connection of drain or sewer line with existing manhole and making good the walls, floors with C.C.(1:2:4) mix.		
19.21.1	For pipes 100 to 250 mm diameter	each	0.056
19.21.2	For pipes 100 to 300 mm diameter	each	0.095
19.21.3	For pipes 100 to 450 mm diameter	each	0.153
19.22	Providing sand cast iron drop connection externally for 60 cm drop from branch sewer line to main sewer manhole. :		
19.22.1	100 mm dia sand cast iron drop connection	each	0.34
19.22.2	150 mm dia sand cast iron drop connection	each	0.46
19.23	Extra for depths beyond 60 cm of sand cast iron drop connection. :		
19.23.1	For 100 mm dia. sand cast iron drop connection	metre	0.21
19.23.2	For 150 mm dia. sand cast iron drop connection	metre	0.26
19.27	Constructing brick masonry road gully chamber 50x45x 60cm in cement mortar (1:4).	each	0.93
19.28	Constructing brick masonry road gully chamber 45x45x 77.5 cm in cement mortar (1:4).	each	0.82
19.29	Constructing brick masonry road gully chamber 110x50x 77.5 cm in cement mortar (1:4).	each	1.66
19.3	Constructing brick masonry chamber for underground C.I. inspection chamber and bends in cement mortar (1:4).		
19.30.1	Inside dimensions 455x610 mm and 45 cm deep for single pipe line	each	0.9
19.30.2	Inside dimensions 500x700 mm and 45 cm deep for pipe line with one or two inlets	each	1.02
19.30.3	Inside dimensions 600x 850 mm and 45 cm deep		
19.31	Extra for depths beyond 60 cm of sand cast iron drop connection. :	each	1.27
19.31.1	For 455x610 mm size	metre	0.87
19.31.2	For 500x700 mm size	metre	0.95
19.31.3	For 600x850 mm size	metre	1.12

SI No.	Description of Item	Unit	Quantity of cement per unit quantity of work (Quintals)
19.32	Making soak pit 2.5 m diameter 3.0 metre deep.	each	0.072
19.34	Providing and fixing S.W. intercepting trap in manholes with stiff mixture of cement mortar (1:1).		
19.34.1	100 mm dia	each	0.013
19.34.2	150 mm dia	each	0.019
19.35	P/L Non pressure Np-3 class		
19.35.1	450 mm dia RCC pipe	100 metre	1.2
19.35.2	600 mm dia RCC pipe	100 metre	1.6
19.35.3	900 mm dia RCC pipe	100 metre	2.5
19.35.4	1000 mm dia RCC pipe	100 metre	2.8
19.35.5	1200 mm dia RCC pipe	100 metre	3.4
19.35.6	1800 mm dia RCC pipe	100 metre	4.9
19.36	P/L Non pressure Np-4 class		
19.36.1	450 mm dia RCC pipe	100 metre	1.2
19.36.2	600 mm dia RCC pipe	100 metre	1.6
19.36.3	900 mm dia RCC pipe	100 metre	2.5
19.36.4	1000 mm dia RCC pipe	100 metre	2.8
19.36.5	1200 mm dia RCC pipe	100 metre	3.4
19.36.6	1800 mm dia RCC pipe	100 metre	4.9

20.0 PILE WORK

SI No.	Description of Item	Unit	Quantity of cement per unit quantity of work (Quintals)
20.1	Providing, driving and installing driven cast-in-situ reinforced cement concrete piles of grade M -25.		
43831	400 mm dia piles	metre	0.414
43832	450 mm dia piles	metre	0.525
43833	500 mm dia piles	metre	0.648
43834	550 mm dia piles	metre	0.784
43835	750 mm dia piles	metre	1.456
43836	1000 mm dia piles	metre	2.59
43837	1200 mm dia piles	metre	3.729
43838	1500 mm dia piles	metre	5.83
20.2	Boring, providing and installing bored cast-in-situ reinforced cement concrete piles of grade M -25 by tripod and mechanical winch machine.		
43864	450 mm dia piles	metre	0.525
43865	500 mm dia piles	metre	0.648
43866	600 mm dia piles	metre	0.932
43867	750 mm dia piles	metre	1.456

SI No.	Description of Item	Unit	Quantity of cement per unit quantity of work (Quintals)
20.2A	Boring, providing and installing bored cast-in-situ reinforced cement concrete piles of grade M -25 by crawler mounted, telescopic boom hydraulic pilling Rig.		
20.2A.1	600 mm dia piles	metre	0.932
20.2A.2	750 mm dia piles	metre	1.456
20.2A.3	1000 mm dia piles	metre	2.59
20.2A.4	1200 mm dia piles	metre	3.729
20.2A.5	1500 mm dia pile	metre	5.83
20.3	Boring, Providing and installing cast in situ single under reamed piles of grade M -25.		
43891	300 mm dia piles	metre	0.257
43892	400 mm dia piles	metre	0.488
43893	450 mm dia piles	metre	0.629
43894	550 mm dia piles	metre	0.792
20.4	Extra for providing additional bulb in under reamed piles.		
43922	300 mm dia piles	metre	0.109
43923	400 mm dia piles	metre	0.208
43924	450 mm dia piles	metre	0.267
43925	550 mm dia piles	metre	0.396
20.5	Providing, driving and installing driven Pre-cast reinforced cement concrete piles of grade M -25.		
43952	400 mm dia piles	metre	0.414
43953	450 mm dia piles	metre	0.525
43954	500 mm dia piles	metre	0.648
43955	550 mm dia piles	metre	0.784
43956	750 mm dia piles	metre	1.795
43957	1000 mm dia piles	metre	2.59

22.0 WATER PROOFING

SI No.	Description of Item	Unit	Quantity of cement per unit quantity of work (Quintals)
22.1	P/L integral cement based treatment for water proofing on horizontal surface. :		
22.1.1	Using rough kota stone	sqm	0.342
22.2	P/L integral cement based treatment for water proofing on the vertical surface. :		
22.2.1	Using rough Kota stone	sqm	0.443
22.3	P/L water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of: (i) 1st course of applying cement slurry @ 4.4 kg/sqm (ii) 11nd course of 20mm cement plaster (1:3)		

SI No.	Description of Item	Unit	Quantity of cement per unit quantity of work (Quintals)
	(iii) IIIrd course of applying blown or residual bitumen applied hot at 1.7 Kg. per sqm of area		
	(iv) IVth course of 400 micron thick PVC sheet	sqm	0.158
22.5	P/L water proofing treatment in sunken portion of WCs, bathroom etc.	sqm	0.0123
22.6	P/L water proofing treatment on roofs.	sqm	0.0195
22.7	P/L integral cement based water proofing treatment on roofs, balconies, terraces etc. :		
22.7.1	With average thickness of 120mm and minimum thickness at khurra as 65 mm	sqm	0.387
22.14	Grading roof for water proofing treatment with		
22.14.1	Cement concrete 1:2:4	cum	3.2
22.14.2	Cement mortar 1:3	cum	5.1
22.14.3	Cement mortar 1:4	cum	3.8

26.0 NEW TECHNOLOGIES AND MATERIALS

SI No.	Description of Item	Unit	Quantity of cement per unit quantity of work (Quintals)
26.31.1	SBR Polymer (@10% of cement weight) modified cementitious bond coat @2.2 kg cement per sqm.	100 sqm	2.2
26.32	Providing, mixing and applying SBR polymer (of approved make) modified Cement mortar in proportion of 1:4 (1 cement: 4 graded coarse sand with polymer minimum 2% by wt. of cement used) .		
26.32.1	12 mm average thickness.	100 sqm	5.47
26.32.2	25 mm average thickness in 2 layers.	100 sqm	11.4
26.32.3	50 mm average thickness in 3 layers.	100 sqm	22.8
26.33	Providing, mixing and applying SBR polymer (of approved make @ minimum 2% by wt. of cement used) modified plain/ reinforced cement concrete for structural members.		
26.33.1	50mm thick in Grade M 25 with cement content not less than 330 kg per cum	100 sqm	16.5
26.33.2	75mm thick in Grade M 25 with cement content not less than 330 kg per cum	100 sqm	24.75
26.34	Providing and laying SBR Polymer modified (of approved make @ minimum 2% by wt. of cement used) plain/reinforced concrete jacket for the structural members e.g. columns, pillars, piers, beams etc with concrete.		
26.34.1	50mm thick in Grade M 25 with cement content not less than 330 kg per cum	100 sqm	16.5
26.34.2	75mm thick in Grade M 25 with cement content not less than 330 kg per cum	100 sqm	24.75
26.34.3	100mm thick in Grade M 25 with cement content not less than 330 kg per cum	100 sqm	33

SI No.	Description of Item	Unit	Quantity of cement per unit quantity of work (Quintals)
26.35	Providing and injecting approved grout in proportion recommended by the manufacturer into cracks/honey-comb area of concrete/masonry by suitable gun/pump.		
26.35.1	Stirrer mixed Acrylic Polymer of approved make @ 2% of weight of cement used) modified Cement slurry made with non shrink compound in concrete/ RCC work	100 kg	1
26.35.2	Stirrer mixed SBR Polymer (of approved make) modified Cement slurry made with Shrinkage Compensating Cement in concrete/RCC work.	100 kg	1
26.38	Shotcreting R.C.C. columns, beams and slabs etc. in layers with approved design mix concrete having.		
26.38.1	25mm thick in Grade M 25 with cement content not less than 330 kg per cum	100 sqm	10.31
26.38.2	50mm thick in Grade M 25 with cement content not less than 330 kg per cum	100 sqm	20.63
26.38.3	75mm thick in Grade M 25 with cement content not less than 330 kg per cum	100 sqm	30.94
26.46	Providing and fixing in position, 200 mm thick factory made Expanded polystyrene Core (EPS Core) wall panels consisting of EPS core sandwiched between two Engineered sheets of welded wire fabric mesh. applying the layer of 50 mm thick cement mortar 1:3 (1 cement: 3 coarse sand)	100 sqm	51
26.47	Providing and fixing in position, 230mm thick factory made Expanded Polystyrene Core (EPS Core) roof/floor panels. applying a layer of 60-65 mm thick cement mortar 1: 3 (1 cement: 3 coarse sand. applying 70-75 mm thick layer of cement concrete 1:1.5: 3 (1 cement :1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size).	100 sqm	58.6
26.53	Filling of empty cavities with quarry dust mixed with cement	cum	0.72
26.58	Filling of joints between RCC plinth beam/floor slab and wall panel of external walls	100 metre	0.03125
26.59	Waterproofing treatment of vertical joints between door frame, window & ventilator frames	100 metre	0.03125
26.61	In filling/ sealing of joint between RCC lintel cum sunshade and wall	100 metre	0.03125
26.66	P/F factory made EPS wall panels consisting EPS core sandwiched between two Engineered sheets	sqm	0.357
26.68	P/F Factory made Precast Concrete solid blocks in foundation and plinth	sqm	0.2825
26.69	P/F Factory made Precast Concrete solid blocks in superstructure above plinth level up to floor V level	cum	0.2825
26.7	Providing and laying half block masonry with factory made Precast concrete solid blocks in foundation and plinth	100 sqm	2.6904
26.71	Providing and laying half block masonry with factory made Precast concrete solid blocks in superstructure above plinth level up to floor V level	100 sqm	2.6904
26.73.1	Fabrication & Manufacturing of prestressed Hollow Core slab of concrete grade M-40 (cement content 400kg)		
26.73.1.1	100 mm thick hollow core slab	metre	0.36

SI No.	Description of Item	Unit	Quantity of cement per unit quantity of work (Quintals)
26.73.1.2	120 mm thick hollow core slab	metre	0.432
26.73.1.3	150 mm thick hollow core slab	metre	0.54
26.73.1.4	200 mm thick hollow core slab	metre	0.672
26.73.1.5	250 mm thick hollow core slab	metre	0.84
26.73.1.6	300 mm thick hollow core slab	metre	1.008
26.73.1.7	350 mm thick hollow core slab	metre	1.176
26.73.1.8	400mm thick hollow core slab	metre	1.344
26.73.2	Extra for using M-50 (Cement content 425kg) instead of M-40		
26.73.2.1	100 mm thick hollow core slab	metre	0.0225
26.73.2.2	120 mm thick hollow core slab	metre	0.027
26.73.2.3	150 mm thick hollow core slab	metre	0.03375
26.73.2.4	200 mm thick hollow core slab	metre	0.042
26.73.2.5	250 mm thick hollow core slab	metre	0.0525
26.73.2.6	300 mm thick hollow core slab	metre	0.063
26.73.2.7	350 mm thick hollow core slab	metre	0.0735
26.73.2.8	400mm thick hollow core slab	metre	0.084
26.73.3	Extra for using M-60 (Cement content 440kg) instead of M-40		
26.73.3.1	100 mm thick hollow core slab	metre	0.036
26.73.3.2	120 mm thick hollow core slab	metre	0.0432
26.73.3.3	150 mm thick hollow core slab	metre	0.054
26.73.3.4	200 mm thick hollow core slab	metre	0.0672
26.73.3.5	250 mm thick hollow core slab	metre	0.084
26.73.3.6	300 mm thick hollow core slab	metre	0.1008
26.73.3.7	350 mm thick hollow core slab	metre	0.1176
26.73.3.8	400mm thick hollow core slab	metre	0.1344
26.74	Fabrication and manufacturing of solid precast concrete element for walls, stairs, column etc.		
26.74.1	Concrete grade M-35 (Cement content 370 kgs)	cum	3.7
26.74.2	Extra for using M-40 (Cement content 400 kg) instead of M-35	cum	0.3
26.74.3	Extra for using M-50 (Cement content 425 kg) instead of M-35	cum	0.55
26.74.4	Extra for using M-60 (Cement content 440 kg) instead of M-35	cum	0.7
26.82	and laying rigid EPS (cellular plastic material) blocks	100 sqm	8.38

**SUB HEAD - 34.0
BITUMEN CONSUMPTION STATEMENT**

16.0 ROAD WORK

SI No.	Description of Item	Unit	Quantity of bitumen per unit quantity of work (Quintals)
SURFACE DRESSING			
16.25	Surface dressing on new surface with paving bitumen of grade VG -10.	sqm	0.0225
16.26	Surface dressing on new surface in two coats with bitumen of grade VG -10.	sqm	0.029
16.27	Surface dressing on old surface with hot bitumen of grade VG -10.	sqm	0.0195
16.28	Surface dressing one coat on new surface :		
16.28.1	Using bitumen emulsion	sqm	0.0195
16.29	Surface dressing one coat on old surface :		
16.29.1	Using bitumen emulsion	sqm	0.0122
PREMIX CARPET			
16.3	Providing and applying tack coat with bitumen of grade VG-10 :		
16.30.1	On W.B.M. @ 0.75 Kg / sqm	sqm	0.0075
16.30.2	On bituminous surface @ 0.50 Kg / sqm	sqm	0.005
16.31	Providing and applying tack coat using bitumen emulsion (Rapid Setting):		
16.31.1.1	On W.B.M @ 0.4kg/sqm	sqm	0.004
16.31.1.2	On bituminous surface @ 0.25kg/sqm	sqm	0.0025
16.32	2 cm premix carpet surfacing with paving asphalt VG-10/ VG-30/modified bitumen CRMB 55.	sqm	0.0144
16.33	2.5 cm premix carpet surfacing with paving asphalt VG-10/ VG-30/modified bitumen CRMB 55.	sqm	0.018
16.34	2 cm premix carpet surfacing with bitumen emulsion.	sqm	0.0255*
16.35	2.5 cm premix carpet surfacing with bitumen emulsion.	sqm	0.0313*
16.36	Providing and laying Bitumen Penetration Macadam :		
16.36.1	For 50mm compacted thickness with paving asphalt VG-10 @ 50 kg/10 sqm	sqm	0.05
16.36.2	For 75 mm compacted thickness in two layers with paving asphalt VG-10 @ 68 kg/10 sqm	sqm	0.068
MASTIC AND BITUMASTIC WEARING COURSE			
16.37	Providing and laying bitumen mastic wearing course:		
16.37.1	5 mm thick	sqm	0.0588
16.37.2	40 mm thick	sqm	0.0941
16.38	2.5 cm thick bitumastic sheet with hot bitumen, paving asphalt VG-10/VG-30/modified bitumen CRMB 55.	sqm	0.0303
16.39	4 cm thick bitumastic sheet with hot bitumen, paving asphalt VG-10/VG-30/modified bitumen CRMB 55.	sqm	0.0479
SEAL COAT			
16.4	P/L seal coat using 128 kg of bitumen of grade VG-10.	sqm	0.0077
16.41	P/L seal coat using 98 kg of bitumen of grade VG-10.	sqm	0.0098
16.54	P/L Dense Bituminous macadam :		

SI No.	Description of Item	Unit	Quantity of bitumen per unit quantity of work (Quintals)
16.54.1	50 to 100 mm average compacted thickness with bitumen of grade VG-30 @ 5% (percentage by weight of total mix) and lime filler @ 2% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	cum	1.1538
16.54.2	50 to 100 mm average compacted thickness with bitumen of grade VG-30 @ 5% (percentage by weight of total mix) and lime filler @ 2% (percentage by weight of Aggregate) prepared in Drum Type Hot Mix Plant of 60-90 TPH capacity.	cum	1.1538
16.55	Providing and laying Bituminous Macadam.		
16.55.1	50 to 100 mm average compacted thickness with bitumen of grade VG-30 @ 3.50% (percentage by weight of total mix) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	cum	0.7683
16.55.2	0 to 100 mm average compacted thickness with bitumen of grade VG-30 @ 3.50% (percentage by weight of total mix) prepared in Drum Type Hot Mix Plant of 60-90 TPH capacity.	cum	0.7683
16.56	Providing and laying Semi Dense Bituminous concrete		
16.56.1	25 mm compacted thickness with bitumen of grade VG-30 @ 5% (percentage by weight of total mix) and lime filler @ 2% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	100 sqm	2.8846
16.56.2	25 mm compacted thickness with bitumen of grade VG-30 @ 5% (percentage by weight of total mix) and lime filler @ 2% (percentage by weight of Aggregate) prepared in Drum Type Hot Mix Plant of 60-90 TPH capacity.	100 sqm	2.8846
16.57	P/L Bituminous Concrete :		
16.57.1	40/50 mm compacted thickness with bitumen of grade VG-30 @ 5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of]100- 120 TPH capacity.	cum	1.2958
16.57.2	40/50 mm compacted thickness with bitumen of grade VG-30 @ 5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) and waste plastic additive @ 8% (percentage by weight of bitumen) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	cum	1.2958
16.57.3	40/50 mm compacted thickness with bitumen of grade PMB-40 @ 5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	cum	1.2958
16.57.4	40/50 mm compacted thickness with bitumen of grade CRMB-60 @ 5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	cum	1.2958
16.57.5	40/50 mm compacted thickness with bitumen of grade VG-30 @ 5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in drum Type Hot Mix Plant of 60-90 TPH capacity.	cum	1.2958

SI No.	Description of Item	Unit	Quantity of bitumen per unit quantity of work (Quintals)
16.57.6	40/50 mm compacted thickness with bitumen of grade VG-30 @ 5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) and waste plastic additive @ 8% (percentage by weight of bitumen) prepared in drum Type Hot Mix Plant of 60-90 TPH capacity.	cum	1.2958
16.57.7	40/50 mm compacted thickness with bitumen of grade PMB-40 @ 5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in drum Type Hot Mix Plant of 60-90 TPH capacity.	cum	1.2958
16.57.8	40/50 mm compacted thickness with bitumen of grade CRMB-60 @ 5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in Drum Type Hot Mix Plant of 60-90 TPH capacity.	cum	1.2958
	* Including tack coat		

22.0 WATER PROOFING

SI No.	Description of Item	Unit	Quantity of bitumen per unit quantity of work (Quintals)
SURFACE DRESSING			
22.3	P/L water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like..	sqm	0.017
22.6	P/L water proofing treatment on roofs with cement slurry & fibre glass cloth. sqm	sqm	0.0097
22.8	P/L four courses water proofing treatment with bitumen felt over roofs:		
22.8.1	Bitumen felt (hessian base)type 3 grade I	sqm	0.029
22.9	P/L six courses water proofing treatment with bitumen felt over roofs applied hot @ 1.45, 1.20 & 1.45 for 1st, 3rd and 5th course.	sqm	0.041
22.10 & 22.11	P/L six courses water proofing treatment with bitumen felt over roofs applied hot @ 1.45, 1.20 & 1.70 for 1st, 3rd and 5th course.	sqm	0.0435
22.15	P/L in situ seven course water proofing treatment with APP (1.5 mm thick @ 2.25 kg./sqm).	sqm	0.036
22.16	P/L in situ five course water proofing treatment with APP (2.00 mm thick @ 3.00 kg./sqm).	sqm	0.024
22.17	P/L in situ seven course water proofing treatment with APP (2.00 mm thick @ 3.00 kg./sqm).	sqm	0.036
22.18	P/F APP.		
22.18.1	2 mm (for corrugated roof sheets)	sqm	0.0035
22.19	P/L APP modified prefabricated five layer, 3 mm thick water proofing membrane. Tear strength in longitudinal and transverse direction as 60/80N.		
22.19.1	3 mm thick	sqm	0.0035

SI No.	Description of Item	Unit	Quantity of bitumen per unit quantity of work (Quintals)
22.2	P/L APP modified prefabricated five layer 3 mm thick water proofing membrane. Tear strength in longitudinal and transverse direction as 300/250N.		
22.20.1	3 mm thick	sqm	0.0035