



Department of Architecture, Haryana

वास्तुकला विभाग, हरियाणा

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[Through Email Only]

To

1. All the Administrative Secretaries to Govt. of Haryana.
2. All the Head(s) of Department(s) in Haryana.
3. All the Chief Administrators and Managing Directors of Boards/Corporations under Government of Haryana.
4. The Registrar General, Punjab & Haryana High Court, Chandigarh.
5. All the District & Session Judges in the State of Haryana.
6. All the Divisional Commissioners & Deputy Commissioners in the State of Haryana.
7. All the Registrars of Universities in Haryana.

Memo.No.Arch-2024/Works/ 8258-64
Dated Chandigarh, the 07/8/24

Subject: Regarding the Revised Specifications for Building Works.

In this regard, it is intimated that the Government has approved the Revised Specifications for Building Works vide letter No. 01/62/2024-1 B&R (W) dated 09.07.2024 which shall be followed throughout the state of Haryana and by all the Departments/Board/Corporation etc. for Government Buildings.

Accordingly, a copy of the approved Revised Specifications for Building Works has been emailed to your office for information and further necessary action. The same may be accessed on the website of Department of Architecture Haryana (<https://architecturehry.gov.in/>).

DA/as above

M/c for

F. Rajeev
07.08.24.
Architect (Works),
Chief Architect Haryana,
Deptt. of Architecture,
Chandigarh.

Endst. No. Arch-2024/Works/ 8265

Dated, the 07/8/24

A copy of the above is forwarded to the worthy Additional Chief Secretary to Govt. Haryana, Architecture Department, Chandigarh for kind information with reference to their office letter No. 01/62/2024-1 B&R (W) dated 09.07.2024 addressed to the Engineer-in-Chief (Buildings) Haryana, Haryana PWD B&R.

DA/Nil

M/c for

F. Rajeev
07.08.24.
Architect (Works)
Chief Architect, Haryana,
Deptt. Of Architecture,
Chandigarh.

Endst. No. Arch-2024/Works/ 8266

Dated, the 07/8/24

A copy of the above is forwarded to the Engineer-in-Chief (Buildings) Haryana, Haryana PWD B&R for information with reference to their office memo No. 99207/WI dated 24.07.2024.

DA/Nil

M/c for

F. Rajeev
07.08.24.
Architect (Works)
Chief Architect, Haryana,
Deptt. of Architecture,
Chandigarh.

Endst. No. Arch-2024/Works/ 8267-71

Dated, the 07/8/24

A copy of the above along with the approved Revised Specifications for Building Works has been emailed to the following executive agencies for information and compliance.

1. The Chief Administrator, Haryana Shehri Vikas Pradhikaran, C-3, Sector-06, Panchkula.
2. The Chief Administrator, Haryana State Agricultural Marketing Board, C-6, Sector-06, Panchkula.
3. The Managing Director, Haryana Police Housing Corporation, Sector-06, Panchkula.
4. The Managing Director, Haryana State Road Development Corporation, Sector-02, Panchkula.
5. The Managing Director, Haryana State Industrial & Infrastructure Development Corporation Ltd., C-13-14, Sector-06, Panchkula.

DA/as above

M/c for

F. Rajeev
07.08.24.
Architect (Works)
Chief Architect, Haryana,
Deptt. of Architecture,
Chandigarh.

Public Works Department (B&R) Haryana
Engineer-in-Chief (Buildings)
Nirman Sadan (PWD B&R Office Complex)
Sector- 33-A, Chandigarh-160020
Email: eicbldgs@gmail.com

To

The Chief Architect,
Department of Architecture, Haryana,
Nirman Sadan, Plot no. 1, Sector-33A, Chandigarh.

No 99207 /WI Dated 24/07/2024

Subject: Regarding Revision of Specifications for Building Works.


Reference: Your office letter no. Arch-2023/SA III/13278-92 dated 08.12.2023

Kindly refer to the letter under reference.

The Government has accorded approval to the proposal of revision of specification for building works vide letter no. 01/62/2024-1 B&R (W) dated 09.07.2024 (**copy enclosed**) received from Additional Chief Secretary to Government Haryana, Public Works (B&R) Department.

In this regard, it is requested to take necessary action and circulate the approved specifications to all the concerned departments.

DA/ As above.



Executive Engineer (B-II)
for Engineer-In-Chief (Bldgs) Hr. PW
L(B&R), Deptt. Chandigarh

Endst. No. 99216-28 /WI dated 24/07/2024

A copy of the above is forwarded to the following for information and taking necessary action:-

1. All the Superintending Engineers, Haryana PWD B&R Department.
(Civil + Electrical)
2. All the Executive Engineers, Haryana PWD B&R Department.
(Civil + Electrical)
3. SEO, IT Cell (Head office) for putting the revised specifications for building works on website of Haryana Public Works (B&R) Department.

DA/ As above.
(Revised Specifications)


Executive Engineer (B-II)
for Engineer-In-Chief (Bldgs) Hr. PW
L(B&R), Deptt. Chandigarh

From

106066/112
9/7/24

The Additional Chief Secretary to Government of Haryana
Public Works, Department.

To

320/69
15-7-2024

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E/C B
10/07/2024

The Engineer-In-Chief (Buildings),
PWD (B&R), Department Haryana
Chandigarh.

Memo No. 01/62/2024-1 B&R (W)
Dated, Chandigarh 9.7.2024

C/S Bldgs.

Subject:- **Regarding revision of specification for building works.**

Reference your office U.O. No. 60090/W1 dated 18.04.2024 on the subject

noted above.

SET B
10/17

2.

The Government has accorded approval to your proposal regarding revision of
specification for building works as requested/proposed vide your above referred U.O. letter
dated 18.04.2024.

11/7
E/C B-II

Mamta Rani
Superintendent, B&R (W),
for Additional Chief Secretary to Govt.,
Haryana, Public Works (B&R) Department

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REVISED SPECIFICATIONS OF MAIN BUS STAND AND WORKSHOPS

Sr. No.	Items	Sub Items	Existing Specifications	Revised Specifications	Reason / Justification
1.	FLOORING, DADO-SKIRTING	<p>a) Circulation Area / StairCase.</p> <p>b) Rooms.</p> <p>c) Toilets</p> <p>d) Workshop Yards.</p> <p>e) Corridors, staircases, kitchen</p>	<p>Kotah stone with border design of Marble 15%.</p> <p>(i) On floors – Granite / Kotah stone of minimum size 2'x2' On walls, granite stone / granite tiles / ceramic tiles. (ii) Urinals pots – stall type urinals. (iii) Wash basin with counter top be provided.</p> <p>Ironite flooring.</p>	<ul style="list-style-type: none"> • Granite Stone with tac tiles as per architectural drawings. Fire escape/Fire Tower staircase shall be finished with the combination of Baroda Green & White Marble. • Unloaded platform shall have Exterior Grade Tile/Cobble Stone. • All designated rooms –vitrified tiles. • All other rooms with combination of Baroda Green & Marble Stone. • Double charged vitrified tiles/Anti Skid (in public toilets) and Anti skid tiles flooring (in Divyang & officers toilets) with 7'-0" high Dado of ceramic tiles. • Urinals pots – STALL type urinals. • European WC in wall hung style (Combination of Indian and European as per NBC). • Wash basin with counter top be provided. • Counter to be finished with Granite stone. • Ironite flooring. • Kitchen and Pantry:- Flooring 	<p>The existing specifications are very old as the same was approved during the year 2009. These are required to be upgraded/amended by providing vitrified tiles keeping in view the requirement of the modern trends, aesthetically beautiful, easy to lay and low maintenance with various colors and size options.</p> <p>There is a color variation and discoloration in kotah stone. Further there is a limitation with regard to the size of the stone available in the market whereas various color options/verities are available in the granite stone with a flexibility of size of stone which has been proposed in the new specifications.</p>

		and pantry		and worktop shall be of Granite stone with ceramic tile dado upto 7'-0" height.	
2.	JOINERY WORK FOR DOORS, WINDOWS AND VENTILATORS.	a) Frames/Window Style/door frames.	Standard steel section in toilets / ducts. Pressed Steel frames / standard steel section for all other places.	<ul style="list-style-type: none"> • Pressed Steel frames for door/window/ventilator with single rebate and double rebates as per HSR. • Hard wood style in windows and ventilators with Pressed Steel frames. <li style="text-align: center;">or • Pre painted/powder coated Galvanised sheet for window/ventilator frames as per HSR with Pre painted/powder coated Galvanised sheet for window/ ventilator shutters as per HSR. • Pre painted/powder coated Galvanised sheet for door frames with single rebate and double rebate as per HSR. • Provision of Structure Glazing as specified on the drawings. • Space for window A.C/Cooler in designated rooms to be left in window/glazing (As Specified in Drawings). 	The proposed amendment is as per requirement of present trends and the modern materials with innovative technology as well as to improve aesthetically/functional requirements.

	GRILLS	<p>b) Door/Window Shutters.</p> <p>c) Toilets.</p> <p>d) Cupboards.</p> <p>e) Grills.</p> <p>f) Railings</p>	<ul style="list-style-type: none"> • Shutters will be factory manufactured solid flush shutters. • Fire retardant doors shall be provided as per NBC/Fire Act. <p>Doors to open out side, 3" above floors, steel/ aluminum frames & shutters.</p> <p>(i) Cup Board Shutters – 25mm thick solid flush. ISI marked. (ii) Ferro Cement 25mm thick / Stone slabs shelves.</p> <p>Grills shall be provided at ground floor and at upper floor wherever public interface exists. Record rooms and treasuries to be provided with grills.</p>	<ul style="list-style-type: none"> • Shutters will be factory manufactured solid flush shutters ISI Marked. • Windows and ventilators shall be provided with wire gauge shutters. • Wooden styles in windows and ventilators shutters shall be used for the pressed steel frames. • Doors shall be provided with wooden Flush Shutters 35mm thick ISI marked/ panelled Shutters. • Fire retardant doors shall be provided as per NBC/Fire Act. • In common/public toilets, 3" Gap shall be provided b/w Door shutters and floor. Aluminum frames & Styles with Laminated Cement Bonded Board (insert panel) ISI Marked shall be provided. • Cup Board Shutters – 25mm thick solid flush. ISI marked. • Ferro Cement 25mm thick / Stone slabs shelves. • Grills shall be provided at ground floor and at upper floor wherever public interface exists. Record rooms and treasuries to be provided with heavy duty grills. • Stainless Steel/M.S. railing as per architectural drawings. 	<p>The proposed amendment is as per requirement of present trends and the modern materials with innovative technology as well as to improve aesthetically/ functional requirements</p>
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3.	INTERNAL AND EXTERNAL FINISHES	<p>a) Internal Walls & Ceiling</p> <p>b) Joinery to be painted</p> <p>c) External Area.</p>	<p>i) In designated area, oil bound distemper after every two years. All ceiling to be white washed.</p> <p>(ii) In circulation & Corridors – upto 4'-0" height ceramic tiles matching with floors or cement based white proof paint above 4'-0".</p> <p>For workshop Dado 6'-9"</p> <p>Joinery to be painted with synthetic enamel paint.</p> <p>Plastered / Grit Finish / Concrete Finish / Stone cladding. Appropriate External painting could be used.</p>	<ul style="list-style-type: none"> • Oil bound distemper in all walls and ceilings. • In circulation & Corridors - ceramic tiles upto 4'-6" height. • For workshop - ceramic tiles Dado 7'-0" height. • Joinery to be painted with synthetic enamel paint. • Dry Stone cladding/ACP/HPL on the 20% of all facade surface area with the combination of Textured paint/Grit finish/Exterior Paint/Structural Glazing or Combination of the above as per the architectural drawings. 	<p>The proposed amendment is as per requirement of present trends and the modern materials with innovative technology as well as to improve aesthetically/functional requirements.</p>
4.	SOIL WASTE & RAIN WATER PIPES.	a) Rain water pipes/Water supply pipes/Soil waste pipes	<p>(i) All RWP's be laid in approachable and openable ducts.</p> <p>(ii) PVC is preferred over C.I.</p> <p>(iii) RWP's need not to be embedded in brick walls in general.</p>	<ul style="list-style-type: none"> • All rain water pipes be laid in approachable and openable ducts. PVC pipes should normally be preferred over C.I. pipes. • RWP's need not be embedded in brick walls, in general. • Water supply pipes shall be of CPVC. • All soil waste pipes shall preferably be PVC over CI pipes and shall be concealed in ducts. 	<p>The proposed amendment is minor and is requirement of present time.</p>
5.	ELECTRIC WIRING/FITTINGS	<p>a) Wires</p> <p>b) Lights.</p> <p>c) Switches</p> <p>d) Communication System to be adopted</p>	<p>Copper wiring in concealed conduits be used.</p> <p>High mask lights & glow signs be provided as per the requirement of the department.</p>	<ul style="list-style-type: none"> • Copper wiring in concealed conduits be used. • High mask lights & glow signs be provided as per the requirement of the department. • Modular switches to be used. • Internet ducts, Telephones/Conduits be provided as per need of the future. 	<p>The specifications have been proposed as per requirement of the present time and modern trends considering the various electrical innovative applications/appliances are now being provided.</p>

				<ul style="list-style-type: none"> Digital Connectivity Infrastructure (DCI) shall be provided as per Chapter 7A of Haryana Building Code-2017 amended from time to time/applicable NBC 2016 Clauses. 	
6.	PLATFORMS. ROOFING	a) Workshops. b) Roofs.	For platforms areas for workshop, steel structure with fiber roofing be also used. Flat Roofs of RCC	<ul style="list-style-type: none"> Roof for platforms areas of workshop, steel structure - colour coated galvalume sheet be used. Flat Roofs of RCC as per architectural drawings. 	The amended specification has been proposed as per requirement of present time.
7.	SIGNAGES / DIRECTION SIGN	-	Should be provided in HINDI & ENGLISH	<ul style="list-style-type: none"> Shall be provided in HINDI & ENGLISH 	No change has been proposed.
8.	ALL MANDATORY SERVICES	-	-	<ul style="list-style-type: none"> As per Haryana Building Code. 	This is required essentially as per statutory requirement.
9.	FIRE SAFETY MEASURE	a) Devices.	Fire Safety devices be provided as per provisions made in the National Building Code.	<ul style="list-style-type: none"> Fire Safety/Fire fighting arrangements as per provisions of Haryana Fire Act, Fire & Life Safety Provisions of National Building Code, 2016 amended from time to time. 	The provisions have been proposed as per the various Codal provisions mandatorily required.
10.	RAIN WATER HARVESTING.	a) Provision.	To be provided as per notification of Haryana Govt. in this regard.	<ul style="list-style-type: none"> To be provided as per notification of Haryana Govt. in this regard. 	This is required essentially as per statutory requirement.
11.	SOLAR WATER HEATING SYSTEM.		As per HAREDA Guidelines.	<ul style="list-style-type: none"> As per HAREDA Guidelines. 	No change has been proposed.
12.	Provisions of Energy Conservation Building Code		-	<ul style="list-style-type: none"> As per Haryana Govt. Notifications issued from time to time. 	This is mandatorily required as per the provisions made in Haryana Building Code, 2017 as amended from time to time.
13.	Provisions of differently abled persons Act.			<ul style="list-style-type: none"> All the provisions as per the provision of Differently Abled Persons Act. 	This is mandatorily required as per the provisions made in Haryana Building Code, 2017 as amended from time to time.

14.	Provisions of Solar Panels.			<ul style="list-style-type: none">As per Haryana Govt. Notifications issued from time to time/ Haryana Building Code.	This is mandatorily required as per the provisions made in Haryana Building Code, 2017 as amended from time to time.
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REVISED SPECIFICATIONS OF CIRCUIT HOUSE, REST HOUSE & PANCHAYAT BHAWAN

Sr. No.	Items	Sub Items	Existing Specifications	Revised Specifications	Reason / Justification
1.	FLOORING, DADO-SKIRTING	a) Suites / Rooms. b) Toilets c) Kitchen. d) Drawing Room / Dining Room e) Entrance Hall /Lounge/staircase etc. f) Conference Hall g)Porch/Driveway/Ramp/ Parking h)Basement i)Open terraces j)Roof Terrace	Vitrified tiles flooring. Laminated wooden flooring in selected guest rooms. VIP Suites shall have granite/ marble flooring and rest shall have non skid tiles and ceramic tiles dado upto 6'-9" Kitchen & Pantry shall have Kotah stone flooring and dado of glazed tiles upto 6'-9" height. Worktop shall be granite stone. Drawing rooms and dining rooms shall have vitrified tiles flooring with 4" matching skirting. Entrance Hall, Lounge, staircase and verandahs shall have granite / vitrified tiles flooring with 4" high matching skirting.	<ul style="list-style-type: none"> • Vitrified tiles flooring. Laminated wooden flooring in selected guest rooms as per architectural drawings. • All toilets shall have double charged vitrified tiles/anti skid tiles with tiles dado upto ceiling height. • Kitchen & Pantry shall have Granite stone flooring and tiles dado upto ceiling height. Worktop shall be granite stone/Stainless steel work counters shall be provided as per design as specified in drawings (modular kitchen). • Drawing rooms and dining rooms shall have vitrified tiles flooring with 4" matching skirting. • Entrance Hall, Lounge, staircase and verandahs shall have granite flooring with Tac Tiles and 4" high matching skirting. • Fire escape/Fire Tower staircase shall be finished with the combination of Baroda Green & White Marble. • Stainless steel/M.S. railing shall be provided in a staircase and balcony as per architectural Drawings. • Vitrified tiles / wooden Laminate flooring and Acoustical Treatment / Wall Paneling shall be provided as per Architectural Drawings. • For vehicular traffic movement- Cobble Stone /PCC/Coloured chequered tiles/Interlocking pavers or Green pavers of sufficient thickness. • In Basement- Cement Concrete 	The existing specifications are very old as the same was approved during the year 2009. These are required to be upgraded/amended by providing vitrified tiles keeping in view the requirement of the modern trends, aesthetically beautiful, easy to lay and low maintenance with various colors and size options. There is a color variation and discoloration in kota stone. Further there is a limitation with regard to the size of the stone available in the market whereas various color options/verities are available in the granite stone with a flexibility of size of stone which has been proposed in the new specifications.

				<p>flooring/unpolished Kota Stone of sufficient thickness for vehicular traffic movement. For storage and services areas in basement shall have Kota Stone/Baroda Green flooring.</p> <ul style="list-style-type: none"> • For open Terrace- Kota Stone • For Roof Terrace- Heat Resistant Tiles with epoxy joint filling. (as per ECBC Advice) 	
2.	JOINERY WORK FOR DOORS, WINDOWS AND VENTILATORS	a) Frames	Teak wood, Powder coated aluminum frames for all doors, windows, ventilators for both openable and fixed glazing with polish finish.	<ul style="list-style-type: none"> • Teak wood/Powder coated aluminum frames for all doors, windows, ventilators for both openable and fixed glazing. • For the Buildings where the Double glazed units are to be provided as per advice of the ECBC consultant then the joinery of UPVC / Aluminum / G.I. shall be provided. • Provision of Structure Glazing as specified on the drawings. • All frames of Teak wood finished with polish (As specified on the drawings) • Space for window A.C/Cooler in designated rooms to be left in window/glazing (As specified in Drgs.). 	The proposed amendment is as per requirement of present trends and the modern materials with innovative technology as well as to improve aesthetically/functional requirements.

		<p>b) Door/Window Shutters</p> <p>c) Wood to be used.</p> <p>d) Cupboards.</p>	<p>The shutters for doors, windows, ventilators, shall be of hard wood with, teak Veneered polish. Doors shall have flush shutters.</p> <p>Wood to be used shall be kiln seasoned hard wood as per ISI specifications.</p> <p>i) The cupboards shutters shall be factory manufactured solid flush shutters 25mm thick with decorative. Teak veneering with vertical grains.</p> <p>ii) Built in dressing tables shall be of teak wood with spirit polish on exterior and white first quality enamel paint in the interior.</p> <p>iii) ¾ thick Block Board shall be used for shelves etc.</p> <p>iv) Wooden, chowkhats shall be provided for cupboards.</p>	<ul style="list-style-type: none"> • The shutters for all internal windows, ventilators, shall be of teak wood. Doors shall be provided with wooden Flush Shutters 35mm thick ISI marked with both sides veneer. • For the Buildings where the Double glazed units are to be provided as per advice of the ECBC consultant then shutters for external doors, windows, ventilators, shall be of UPVC / Aluminum / G.I. (as specified on drawings) and shall be provided with SS Jali. • Toilet/Store doors shall be provided with wooden Panelled Shutters as per architectural drawings. • Windows and ventilators shall be provided with wire gauge shutters. • Provision of Fly mesh shutters to all outer doors • Fire retardant doors shall be provided as per NBC/Fire Act. • Wood to be used shall be kiln seasoned hard wood as per ISI specifications. <hr/> <ul style="list-style-type: none"> • Box type cupboards of 19mm thick commercial ply wood shall be provided as per the design with interior part finished with liner laminate. 19mm thick commercial ply wood shall be used for shelves etc. All the edges finished with teak liping with sprit polish. • The cupboards shutters shall be factory manufactured solid flush shutters 25mm thick with decorative Teak veneer with vertical grains. • Built in dressing tables shall be of teak wood with spirit polish on external and internal part finished 	<p>The proposed amendment is as per requirement of present trends and the modern materials with innovative technology as well as to improve aesthetically/functional requirements.</p>
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				<p>with liner laminate edges. 19mm thick commercial plywood shall be used for shelves etc. All edges shall be finished with teak wood liping finished with sprit polish.</p> <ul style="list-style-type: none"> • Stainless Steel channels shall be provided in drawers. 	
	GRILLS	e) Grills	i) Grills shall be provided in the windows and ventilators for security.	<ul style="list-style-type: none"> • At district level - SS Grills shall be provided in the windows and ventilators on ground floor. Grill shall be provided on upper floors as per requirements. • At Sub-division/other level/ - MS Grills shall be provided in the windows and ventilators on ground floor. Grill shall be provided on upper floors as per requirements. 	
		f) Fittings g) Railings	i) Aluminum fittings to be used. ISI marked.	<ul style="list-style-type: none"> • SS fittings ISI marked to be used. • Stainless Steel/M.S. railing as per architectural drawings. 	
3.	INTERNAL AND EXTERNAL FINISHES	a) Internal finishing.	<p>i) Drawing rooms, lounge, dining rooms and suits including circulation spaces as well as VIP rooms shall have plastic emulsion paint of approved colour.</p> <p>ii) Joinery to be painted / polish with first quality paint / polish.</p>	<ul style="list-style-type: none"> • Walls and Ceiling of Drawing rooms, lounge, dining rooms and suits including circulation spaces as well as VIP rooms shall have plastic emulsion paint of approved colour. • Joinery to be painted / polish with first quality paint / polish. 	The proposed amendment is as per requirement of present trends and the modern materials with innovative technology as well as to improve aesthetically/functional requirements.
		b) External Finishes	i) Exposed brick surfaces to be finished with Plastered / Grit finish / Stone cladding and exterior paint as per colour scheme.	<ul style="list-style-type: none"> • Dry Stone cladding/ACP/HPL on the 20% of all facade surface area with the combination of Textured paint / Grit finish/Exterior Paint/Structural Glazing or Combination of the above as per the architectural drawings. 	The existing external finishing are very old, are out of trends and require periodically maintenance very frequently. The proposed upgraded/amended specifications are low maintenance and are in consonance with the

					provision made in the Haryana Building Code, 2017.
4.	SOIL WASTE & RAIN WATER PIPES.	a) Rain water pipes. b) Water supply pipes c) Soil Waste Pipes	(i) All rain water pipes be laid in approachable and open able ducts. PVC should normally preferred over C.I. (ii)RWP's need not be embedded in brick walls, in general.	<ul style="list-style-type: none"> All rain water pipes be laid in approachable and open able ducts. PVC pipes should normally be preferred over C.I. pipes RWP's need not be embedded in brick walls, in general. Water supply pipes shall be of CPVC. All soil waste pipes shall preferably be PVC over CI pipes and shall be concealed in ducts. 	The proposed amendment is minor and is requirement of present time.
6.	ELECTRIC WIRING/FITTINGS	a) Wires b) Switches c) Communication System to be adopted.	i) Copper wiring in concealed conduits be used. ii) Internet ducts, telephones / TV conduits be provided as per need of the future.	<ul style="list-style-type: none"> Copper wiring in concealed conduits be used. Modular switches to be used. Internet ducts, Telephones/ Conduits be provided as per need of the future. Digital Connectivity Infrastructure (DCI) shall be provided as per Chapter 7A of Haryana Building Code-2017 amended from time to time/applicable NBC 2016 Clauses. 	The specifications have been proposed as per requirement of the present time and modern trends considering the various electrical innovative applications/appliances are now being provided.
7.	FIRE SAFETY MEASURE	a) Devices.	Fire Safety devices be provided as per provisions made in the National Building Code.	<ul style="list-style-type: none"> Fire Safety/Fire fighting arrangements as per provisions of Haryana Fire Act, Fire & Life Safety Provisions of National Building Code, 2016 amended from time to time. 	The provisions have been proposed as per the various Codel provisions mandatorily required.
8.	RAIN WATER HARVESTING	a) Provision.	To be provided as per notification of Haryana Govt. in this regard.	<ul style="list-style-type: none"> To be provided as per notification of Haryana Govt. in this regard. 	This is required essentially as per statutory requirement.
9.	SOLAR WATER HEATING SYSTEM.	-	As per HAREDA Guidelines.	<ul style="list-style-type: none"> As per HAREDA Guidelines. 	No change has been proposed.
10.	Provisions of Energy Conservation Building Code		-	<ul style="list-style-type: none"> As per Haryana Govt. Notifications issued from time to time. 	This is mandatorily required as per the provisions made in Haryana Building Code, 2017 as amended from time to time.
11.	Provisions of differently abled persons			<ul style="list-style-type: none"> All the provisions as per the provision of Differently Abled 	This is mandatorily required as per the provisions made in

				Persons Act.	Haryana Building Code, 2017 as amended from time to time..
12.	Provisions of Solar Panels.			<ul style="list-style-type: none"> As per Haryana Govt. Notifications issued from time to time/ Haryana Building Code. 	This is mandatorily required as per the provisions made in Haryana Building Code, 2017 as amended from time to time.
13.	Provisions of False ceiling			<ul style="list-style-type: none"> Requirement and Material Specifications of False Ceiling shall be as per the requirement of Client Department. 	

REVISED SPECIFICATIONS OF MINI SECRETARIATS AND JUDICIAL COMPLEXES/DISTRICT, SUB-DIVISION & OTHER LEVEL OFFICE BUILDINGS

Sr.No.	Items	Sub Items	Existing Specifications	Revised Specifications	Reason / Justification
1.	FLOORING, DADO-SKIRTING	<p>a) Rooms</p> <p>b) Corridors, staircases, kitchen and pantry</p> <p>c) Main Officer Entrance Lobby.</p> <p>d) Toilets.</p> <p>e) All Courts halls, office halls, Bar Rooms, Litigant Hall</p> <p>f) Bank, Post Office, Libraries</p>	<p>(i) Office Rooms Silver Grey terrazzo flooring (any colour)</p> <p>(ii) All designated rooms of Class-I officers and retiring rooms of Judges- vitrified tile.</p> <p>Kotah stone with border design of marble (10% maximum).Main Staircase- Granite. Granite upto 25% could be used.</p> <p>(i) Attached Toilets:- 6'9" high glazed tiles on walls. Non Skid Tiles flooring.</p> <p>(ii) General Toilets:- Granite flooring. Flooring with 6'9" high dado of glazed tiles.</p> <p>Kotah stone with marble (15% maximum terrazzo)</p> <p>Kotah Stone</p>	<ul style="list-style-type: none"> • All designated rooms and other rooms shall have vitrified tile as per room size. • 4" matching skirting shall be provided in all rooms. • Corridors, Entrance Lobby & other Lobbies:- Granite Stone/Combination of Baroda Green & White Marble with Tac Tiles. • Staircases: - Granite in all staircases. Fire escape/Fire Tower staircase shall be finished with the combination of Baroda Green & White Marble. • Kitchen and Pantry:- Flooring and worktop shall be of Granite stone with ceramic tile dado upto 7'-0" height. • Attached Toilets: - Anti Skid Tiles with dado of ceramic tiles up to ceiling height. • General Toilets: - Double charged vitrified tiles/ Anti skid tiles (in public toilets) and Anti skid tiles flooring (in Divyang) with 7'-0" high Dado of ceramic tiles. • Baroda Green & White Marble Combination/Granite Stone. • Baroda Green & White Marble Combination/Granite Stone and Counter top-of Granite Stone. 	<p>The existing specifications are very old as the same was approved during the year 2009. These are required to be upgraded/amended by providing vitrified tiles keeping in view the requirement of the modern trends, aesthetically beautiful, easy to lay and low maintenance with various colors and size options.</p> <p>There is a color variation and discoloration in kota stone. Further there is a limitation with regard to the size of the stone available in the market whereas various color options/verities are available in the granite stone with a flexibility of size of stone which has been proposed in the new specifications.</p>

		g) Porch/Driveway/Ramp/Parking	Interlocking pavers/Concrete.	<ul style="list-style-type: none"> Cobble Stone /PCC/Coloured chequered tiles/Interlocking pavers or Green pavers of sufficient thickness for vehicular traffic movement. 	
		h) Basement	-	<ul style="list-style-type: none"> Cement Concrete flooring/unpolished Kotah Stone of sufficient thickness for vehicular traffic movement. For storage and services areas in basement shall have Kota Stone/Baroda Green flooring. Kotah Stone flooring. Heat Resistant Tiles with epoxy joint filling. (as per ECBC Advice) Kotah Stone flooring. Vitrified tiles /wooden Laminate flooring and Acoustical Treatment/Wall Paneling shall be provided as per Architectural Drawings. Baroda Green & White Marble Combination/Granite Stone and Counter top-of Granite Stone and dado of ceramic tiles or Mat finish water proof paint of light shade upto 4'-6" height shall be provided. 	
		i) Open terraces	-		
		j) Roof Terrace			
		k) Record Rooms and Malkhana	Ironite flooring		
		l) Conference Hall, Video Conference, Meeting Hall			
		m) Canteen			
2.	JOINERY WORK FOR DOORS, WINDOWS AND VENTILATORS.	a) Frames.	All frames of standard steel sections/pressed steel sections of standard size. Space for window A.C/Cooler in designated rooms to be left in glazing.	<ul style="list-style-type: none"> External:- For Building less than 15 mtr. Height- All frames of Aluminum / UPVC /pressed steel frames sections (As specified on the drawings). or Pre painted/power coated Galvanised sheet for window/ventilator frames as per HSR with Pre painted/powder coated Galvanised sheet for window/ 	The proposed amendment is as per requirement of present trends and the modern materials with innovative technology as well as to improve aesthetically/functional requirements.

				<p>ventilator shutters as per HSR</p> <ul style="list-style-type: none">• Pre painted/power coated Galvanised sheet for door frames with single rebate and double rebate as per HSR• For the Buildings more than 15 mtrs height. pressed steel frame/aluminum frames/G.I. Frames shall be provided and where the Double glazed units are to be provided as per advice of the ECBC consultant then the joinery of UPVC / G.I. / Complete Aluminum system with Aluminum Hardware and accessories of their own Make shall be provided or as provided in architectural drawings. or• Pre painted/power coated Galvanised sheet for window/ventilator frames as per HSR with Pre painted/power coated Galvanised sheet for window/ventilator shutters as per HSR.• Pre painted/power coated Galvanised sheet for door frames with single rebate and double rebate as per HSR.• Provision of Structure Glazing as specified on the drawings.• Space for window A.C/Cooler in designated rooms to be left in window/glazing (As specified in Drgs.).	
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		<p>b) Door/Windows shutters.</p>	<p>(i) Window with wire gauge shutters.</p> <p>(ii) Flush door shutters.</p>	<ul style="list-style-type: none"> • Windows and ventilators shall be provided with wire gauge shutters. • Wooden styles in windows and ventilators shutters shall be used for the pressed steel frames. • UPVC/Aluminum/G.I. styles in windows and ventilators shutters shall be provided for the joinery of UPVC/Aluminum/G.I. respectively. • Security glass shall be provided as per the requirement of the security purpose, in the aluminum/UPVC/G.I. joinery. • Pre painted/power coated Galvanised sheet for window/ventilator shutters as per HSR. • In common/public toilets, 3" Gap shall be provided b/w Door shutters and floor. Aluminum frames & Styles with Laminated Cement Bonded Board (insert panel) ISI Marked shall be provided. • Doors shall be provided with wooden Flush Shutters 35mm thick ISI marked/ panelled Shutters. • Fire retardant doors shall be provided as per NBC/Fire Act. 	<p>The proposed amendment is as per requirement of present trends and the modern materials with innovative technology as well as to improve aesthetically/functional requirements.</p>
		<p>c) Wood to be used.</p> <p>d) Cupboards</p> <p>e) Door fittings</p>	<p>Wood to be used should be kiln seasoned hard wood except teak. R.C.C shelves will be provided in the cupboards. Solid flush shutters 25mm thick.</p> <p>Aluminum fittings to be used. ISI marked.</p>	<ul style="list-style-type: none"> • Wood to be used should be kiln seasoned hard wood except teak. • R.C.C shelves will be provided in the cupboards with solid flush shutters 25mm thick with pressed steel frame. <li style="text-align: center;">Or • Cupboards having M.S. sheet shelves and shutters. • Aluminum fittings to be used ISI marked. 	

	GRILLS	<p>a) Grills.</p> <p>b) Railings</p>	<p>Grills shall be provided at ground floor and at upper floor wherever public interface exists. Record rooms and treasuries to be provided with grills.</p>	<ul style="list-style-type: none"> Grills shall be provided at ground floor and at upper floor wherever public interface exists. Record rooms and treasuries to be provided with heavy duty grills. Stainless Steel/M.S. railing as per architectural drawings. 	
3.	INTERNAL FINISHES	<p>a) Internal walls and Ceiling</p> <p>b) Joinery & Other area to be painted</p>	<p>(i) In designated area, oil bound distemper shall be provided.</p> <p>(ii) For all other area – distemper</p> <p>(i) Joinery to be painted with synthetic enamel paint of approved shade and brand/make.</p> <p>(ii) In circulation & corridors upto 4'-6" height ceramic tiles matching with floors or Mat finish water proof paint of light shade. Above 4'-6" Oil bound distemper of same shade.</p>	<ul style="list-style-type: none"> In designated rooms:- All rooms of Class-I Officers- False ceiling shall be provided as per requirement/Ceiling be finished in P.O.P. Plastic Emulsion paint on walls after preparation of surface with wall putty shall be provided. For all other areas –Walls and Ceilings finished with Oil Bound Distemper. Joinery to be painted with synthetic enamel paint of approved shade. In circulation & corridors, dado of ceramic tiles or Mat finish water proof paint of light shade upto 4'-6" height shall be provided. 	<p>The proposed amendment is as per requirement of present trends and the modern materials with innovative technology as well as to improve aesthetically/functional requirements.</p>

4.	EXTERNAL FINISHES	a) External walls	(i) Plastered finish/Grit finish/Concrete finish Brick facing. Stone Cladding. Appropriate external painting can also be used.	<ul style="list-style-type: none"> • Dry Stone cladding/ACP/HPL on the 20% of all facade surface area with the combination of Textured paint / Grit finish/Exterior Paint/Structural Glazing or Combination of the above as per the architectural drawings. 	The existing external finishing are very old, are out of trends and require periodically maintenance very frequently. The proposed upgraded/amended specifications are low maintenance and are in consonance with the provision made in the Haryana Building Code, 2017.
5.	SOIL WASTE & RAIN WATER PIPES.	a) Rain water pipes/water supply pipes/Soil waste pipes	<p>(i) All rain water pipes be laid in approachable and open able ducts. PVC should normally preferred over C.I.</p> <p>(ii) RWP's need not be embedded in brick walls, in general.</p>	<ul style="list-style-type: none"> • All rain water pipes be laid in approachable and openable ducts. PVC pipes should normally be preferred over C.I. pipes • RWP's need not be embedded in brick walls, in general. • Water supply pipes shall be of CPVC. • All soil waste pipes shall preferably be PVC over CI pipes and shall be concealed in ducts. 	The proposed amendment is minor and is requirement of present time.
6.	ELECTRIC WIRING/ FITTINGS	a) Wires b) Switches c) Communication System to be adopted.	Copper wiring in concealed conduits be used. Internet ducts, Telephones/ Conduits be provided as per need of the future. In case of house T.V conduits be provided.	<ul style="list-style-type: none"> • Copper wiring in concealed conduits be used. • Modular switches to be used. • Internet ducts, Telephones/ Conduits be provided as per need of the future. • Digital Connectivity Infrastructure (DCI) shall be provided as per Chapter 7A of Haryana Building Code-2017 amended from time to time/applicable NBC 2016 Clauses. 	The specifications have been proposed as per requirement of the present time and modern trends considering the various electrical innovative applications/appliances are now being provided.
7.	FIRE SAFETY MEASURE	a) Devices.	Fire Safety devices be provided as per provisions made in the National Building Code.	<ul style="list-style-type: none"> • Fire Safety/Fire fighting arrangements as per provisions of Haryana Fire Act, Fire & Life Safety Provisions of National Building Code, 2016 amended from 	The provisions have been proposed as per the various Codel provisions mandatorily required.

				time to time.	
8.	RAIN WATER HARVESTING.	a) Provision.	To be provided as per notification of Haryana Govt. in this regard.	<ul style="list-style-type: none"> To be provided as per notification of Haryana Govt. in this regard. 	This is required essentially as per statutory requirement
9.	SOLAR WATER HEATING SYSTEM.		As per HAREDA Guidelines.	<ul style="list-style-type: none"> As per HAREDA Guidelines. 	No change has been proposed.
10.	Provisions of Energy Conservation Building Code		-	<ul style="list-style-type: none"> As per Haryana Govt. Notifications issued from time to time. 	This is mandatorily required as per the provisions made in Haryana Building Code, 2017 as amended from time to time.
11.	Provisions of Differently Abled Persons Act.			<ul style="list-style-type: none"> All the provisions as per the provision of Differently Abled Persons Act. 	This is mandatorily required as per the provisions made in Haryana Building Code, 2017 as amended from time to time.
12.	Provisions of Solar Panels.			<ul style="list-style-type: none"> As per Haryana Govt. Notifications issued from time to time/ Haryana Building Code. 	This is mandatorily required as per the provisions made in Haryana Building Code, 2017 as amended from time to time.
13.	Provisions of False ceiling			<ul style="list-style-type: none"> Requirement and Material Specifications of False Ceiling shall be as per the requirement of Client Department. 	
14.	E-Disha Kendra, Atal Sewa Kendra, C.M. Window, Har Samay, other Help Desks etc.			<ul style="list-style-type: none"> Vitrified tile with 4" matching skirting, false ceiling, Wall Paneling/wooden partitions, Provision of Air Conditioning and Modular furniture shall be provided as per the Architectural Drawings. 	These provisions have been adopted as per the minutes of the Meeting regarding the Saral project re-designing/renovation of District E-Disha Kendra in the State of Haryana.

PROPOSED SPECIFICATIONS OF HOSTELS FOR COLLEGES/ITIs/POLYTECNICS & ENGINEERING COLLEGES

Sr.No.	Items	Sub Items	Proposed Specifications
1.	FLOORING, DADO-SKIRTING	a) Rooms, Dormitories, Dining Hall. b) Corridors, staircases, kitchen and pantry c) Chowkidar Room d) Toilets.	<ul style="list-style-type: none"> • All rooms shall have vitrified tile as per room size. • Corridors, Entrance Lobby & other Lobbies,- Granite Stone/ Baroda Green & White Marble with Tac Tiles. • Staircases: - Granite in all staircases. Fire escape/Fire Tower staircase shall be finished with the combination of Baroda Green & White Marble. • Kitchen and Pantry:- Kitchen shall have Baroda Green & White Marble/Granite flooring and dado of Ceramic tiles upto ceiling height. Worktop shall be granite stone/Stainless steel work counters shall be provided as per consultant advice (commercial kitchen). • Chowkidar room:- Combination of Baroda Green and white marble with 4" high matching skirting. • Attached Toilets: - Anti Skid Tiles with dado of ceramic tiles up to ceiling height. • General Toilets: - Double charged vitrified tiles/ Anti skid tiles (in public toilets) and Anti skid tiles flooring (in Divyang) with 7'-0" high Dado of ceramic tiles. • 4" high matching skirting shall be provided in all rooms.
		e) Porch/Driveway/Ramp/Parking	<ul style="list-style-type: none"> • Cobble Stone /PCC/ Interlocking pavers or Green pavers of required thickness for vehicular traffic movement. • Coloured chequered tiles with tac tiles in ramps.
		f) Roof Terrace g) Open terraces h) Basement	<ul style="list-style-type: none"> • Heat Resistant Tiles with epoxy joint filling. (as per HAREDA Guidelines Advice) • Kotah Stone flooring. • Cement Concrete flooring/unpolished Kotah Stone of sufficient thickness for vehicular traffic movement. For storage and services areas in basement shall have Kota Stone/Baroda Green flooring.
2.	JOINERY WORK FOR DOORS, WINDOWS AND VENTILATORS.	a) Frames.	<ul style="list-style-type: none"> • Chowkhats of Pressed steel for openable and fixed windows, ventilators and glazing. or • Pre painted/power coated Galvanized sheet for window/ventilator frames as per HSR • Pre painted/powder coated Galvanized sheet for door frames with single rebate and double rebate as per HSR. • For the Buildings more than 15 mtrs height. pressed steel frame/aluminum frames/G.I. Frames shall be provided or

			<ul style="list-style-type: none"> • Pre painted/power coated Galvanised sheet for window/ventilator frames as per HSR with Pre painted/power coated Galvanised sheet for window/ventilator shutters as per HSR. • Pre painted/power coated Galvanised sheet for door frames with single rebate and double rebate as per HSR. • Provision of Structure Glazing as specified on the drawings. • Where ECBC is applicable, the Double glazed units are to be provided as per advice of the ECBC consultant then the joinery of UPVC / G.I. / Complete Aluminum system with Aluminum Hardware and accessories of their own Make shall be provided or as provided in architectural drawings. • Space for window A.C/Cooler in designated rooms to be left in window/glazing (As specified in Drgs.).
		b) Door/Windows shutters.	<ul style="list-style-type: none"> • Pre painted/powder coated Galvanized sheet for window/ventilator shutters as per HSR. • Windows and ventilators shall be provided with wire gauge shutters. • Wooden styles in windows and ventilators shutters shall be used for the pressed steel frames. • Doors shall be provided with wooden Flush Shutters 35mm thick ISI marked/ panelled Shutters. • In toilets, 3" Gap shall be provided b/w Door shutters and floor. Aluminum frames & Styles with Laminated Cement Bonded Board (insert panel) ISI Marked shall be provided. • Fire retardant doors shall be provided as per NBC/Fire Act. • Pre painted/power coated Galvanised sheet for window/ventilator shutters as per HSR. • Where ECBC is applicable, UPVC/ Aluminum/ G.I. styles in windows and ventilators shutters shall be provided for the joinery of UPVC/Aluminum/G.I. respectively.
		c) Fittings	<ul style="list-style-type: none"> • Doors and Windows fitting shall be of Aluminum/ SS. ISI marked.
		d) Cupboards	<ul style="list-style-type: none"> • Ferro cement / RCC shelves in cupboards shall be provided.
	GRILLS	e) Grills	<ul style="list-style-type: none"> • MS Grills on ground floors. MS Grills on upper floors shall be provided wherever required.
		f) Railings	<ul style="list-style-type: none"> • Stainless Steel/M.S. railing as per architectural drawings.

3.	INTERNAL FINISHES	<p>a) Internal walls and Ceiling</p> <p>b) Joinery & Other area to be painted</p>	<ul style="list-style-type: none"> • All internal walls & Ceilings shall have oil bound distemper in Rooms. And dormitories, Halls and rest shall be white washed. • Joinery to be painted with synthetic enamel paint of approved shade. • In circulation & corridors, dado of Mat finish water proof paint of light shade upto 4'-6" height shall be provided.
4.	EXTERNAL FINISHES	a) External Surfaces	<ul style="list-style-type: none"> • Grit finish/External Paint/Texture Paints or Combination of the above as per the architectural Drawings. • No RCC work is to be plastered, unless otherwise specified and shall have smooth finish.
5.	SOIL WASTE & RAIN WATER PIPES.	a) Rain water pipes/water supply pipes/Soil waste pipes	<ul style="list-style-type: none"> • All rain water pipes be laid in approachable and openable ducts. PVC pipes should normally be preferred over C.I. pipes • RWP's need not be embedded in brick walls, in general. • Water supply pipes shall be of CPVC. • All soil waste pipes shall preferably be PVC over CI pipes and shall be concealed in ducts.

6.	ELECTRIC WIRING/ FITTINGS	a) Wires b) Switches c) Communication System to be adopted.	<ul style="list-style-type: none"> • Copper wiring in concealed conduits be used. • Modular switches to be used. • Internet ducts, Telephones/ Conduits be provided as per need of the future. • Digital Connectivity Infrastructure (DCI) shall be provided as per Chapter 7A of Haryana Building Code-2017 amended from time to time/applicable NBC 2016 Clauses.
7.	FIRE SAFETY MEASURE	a) Devices.	<ul style="list-style-type: none"> • Fire Safety/Fire fighting arrangements as per provisions of Haryana Fire Act, Fire & Life Safety Provisions of National Building Code, 2016 amended from time to time.
8.	RAIN WATER HARVESTING.	a) Provision.	<ul style="list-style-type: none"> • To be provided as per notification of Haryana Govt. in this regard.
9.	SOLAR WATER HEATING SYSTEM.		<ul style="list-style-type: none"> • As per HAREDA Guidelines.
10.	Provisions of Energy Conservation Building Code		<ul style="list-style-type: none"> • As per Haryana Govt. Notifications issued from time to time.
11.	Provisions of Differently Abled Persons Act.		<ul style="list-style-type: none"> • All the provisions as per the provision of Differently Abled Persons Act.
12.	Provisions of Solar Panels.		<ul style="list-style-type: none"> • As per Haryana Govt. Notifications issued from time to time/ Haryana Building Code.
13.	Provisions of False ceiling	a) Toilet	<ul style="list-style-type: none"> • Perforated Metal tile ceiling to hide exposed pipes

REVISED SPECIFICATIONS OF SECRETARIAT/HEAD OFFICE BUILDINGS OF VARIOUS DEPARTMENTS, BOARDS & CORPORATIONS

Sr. No.	Items	Sub Items	Existing Specifications	Revised Specifications	Reason / Justification
1.	FLOORING, DADO-SKIRTING	<p>a) Rooms</p> <p>b) Corridors, staircases, kitchen and pantry</p> <p>c) Main Officer Entrance Lobby.</p> <p>d) Toilets.</p>	<p>(i) For rooms of Class I Officers-Baroda Green White marble/vitrified tiles.</p> <p>(ii) For rooms of Class-II Officers-Baroda Green with White marble combination.</p> <p>(iii) For other Branches, Rooms etc. Kotah Stone minimum Size 22"x22" with 20% marble.</p> <p>Flooring: Baroda Green with white marble combination. Worktop: Granite. Dado: Ceramic/vitrified tile on dado upto 6'-9" with min. size 12"x18". Storage Cabinets: As per requirement-General. StaircaseS: Kotah Stone with marble i.e. tread shall be of Kotah stone (single piece) & riser shall be of white marble.</p> <p>Granite Stone</p> <p>(i) Flooring of Baroda Green with 20% white marble/vitrified tiles (Antiskid). (ii)Dado of ceramic tiles on walls of minimum size 12"x18" upto 6'-9" height as per the design approved by the Chief Architect.</p>	<ul style="list-style-type: none"> • All designated rooms and other rooms shall have vitrified Tiles as per room size. • 4" matching skirting shall be provided in all rooms. • Corridors, Entrance Lobby and other Lobbies:- Granite Stone/Combination of Baroda Green & White Marble with Tac Tiles and dado of ceramic tiles or Mat finish water proof paint of light shade upto 4'-6" height shall be provided. • Staircases:- Granite Stone in all staircases. Fire escape/Fire Tower staircases shall be finished with the combination of Baroda green & White Marble. • Kitchen and Pantry: - Flooring and worktop shall be of Granite stone with ceramic tile dado upto 7'-0" height. • Attached Toilets: - Anti Skid Tiles with dado of ceramic tiles up to ceiling height. • General Toilets: - Double Charged vitrified tiles/Anti skid tiles (in public toilets) and Anti skid tiles flooring (in Divyang) with 7'-0" high Dado of ceramic tiles. 	<p>The existing specifications are very old as the same was approved during the year 2009. These are required to be upgraded/amended by providing vitrified tiles keeping in view the requirement of the modern trends, aesthetically beautiful, easy to lay and low maintenance with various colors and size options.</p> <p>There is a color variation and discoloration in kota stone. Further there is a limitation with regard to the size of the stone available in the market whereas various color options/verities are available in the granite stone with a flexibility of size of stone which has been proposed in the new specifications.</p>

		<p>e) All Courts, Bar rooms, Litigant halls</p> <p>f) Bank, Post Office, Halls</p> <p>g) Libraries/Conference, Video Conference, Meeting Hall</p> <p>h) Canteen</p>	<p>Kotah stone with 20% White marble</p> <p>Counter top-Granite Stone. Flooring –Kotah stone with 20% white marble</p> <p>Flooring-Vitrified tiles of approved design by the Chief Architect.</p>	<ul style="list-style-type: none"> • Baroda Green & White Marble Combination/Granite Stone. • Baroda Green & White Marble Combination/Granite Stone and Counter top-of Granite Stone. • Vitrified tiles / wooden Laminate flooring and Acoustical Treatment/Wall Paneling shall be provided as per Architectural Drawings. • Baroda Green & White Marble Combination/Granite Stone and Counter top-of Granite Stone and dado of ceramic tiles or Mat finish water proof paint of light shade upto 4'-6" height shall be provided. 	
		<p>i) Porch/Driveway/Ramp</p>	<p>Interlocking pavers/Anti Skid/Coloured concrete cement tiles.</p>	<ul style="list-style-type: none"> • Cobble Stone /PCC/Colored chequered tiles/Interlocking pavers or Green pavers of sufficient thickness for vehicular traffic movement. 	
		<p>j) Record Room</p> <p>k) Basement</p> <p>l) Usable Balconies</p> <p>m) Open terraces</p> <p>n) Roof terraces</p>	<p>Kotah Stone flooring.</p> <p>Kotah Stone flooring with 10% marble.</p> <p>Balconies/Varandahs-flooring as per adjoining rooms.</p> <p>Open terrace/usable terrace-flooring of Kotah Stone with 20% white marble/anti skid tiles (economy class)</p> <p>Finished with white glazed tiles (economy class) as per E.C.B.C. requirement.</p>	<ul style="list-style-type: none"> • Kotah Stone/Baroda Green flooring. • Cement Concrete flooring/unpolished Kotah Stone of sufficient thickness for vehicular traffic movement. For storage and services areas in basement shall have Kota Stone/Baroda Green flooring. • Balconies/Varandahs-flooring as per adjoining rooms. • Finished with Kotah Stone. • Heat Resistant Tiles with epoxy joint filling (as per ECBC Advice). 	
2.	JOINERY WORK FOR DOORS,	<p>a) Frames.</p>	<p>Pressed steel frames of standard size/M.S. tubler sections. Provision of window A.C/Cooler to be</p>	<ul style="list-style-type: none"> • External:- • For Building less than 15 mtr. Height- All 	<p>The proposed amendment is as per requirement of present</p>

	<p>WINDOWS AND VENTILATORS.</p>		<p>made in gazing. For Head office building at Chandigarh, Panchkula & Gurgaon- aluminium frames of standard size shall be provided.</p>	<p>frames of Aluminum / UPVC /pressed steel frames sections (As specified on the drawings).</p> <p style="text-align: center;">or</p> <ul style="list-style-type: none"> • Pre painted/power coated Galvanised sheet for window/ventilator frames as per HSR with Pre painted/powder coated Galvanised sheet for window/ ventilator shutters as per HSR. • Pre painted/power coated Galvanised sheet for door frames with single rebate and double rebate as per HSR. <ul style="list-style-type: none"> • For the Buildings more than 15 mtrs height. pressed steel frame/aluminum frames/G.I. Frames shall be provided and where the Double glazed units are to be provided as per advice of the ECBC consultant then the joinery of UPVC / G.I. / Complete Aluminum system with Aluminum Hardware and accessories of their own Make shall be provided or as provided in architectural drawings. <p style="text-align: center;">or</p> <ul style="list-style-type: none"> • Pre painted/power coated Galvanised sheet for window/ventilator frames as per HSR with Pre painted/power coated Galvanised sheet for window/ventilator shutters as per HSR. • Pre painted/power coated Galvanised sheet for door frames with single rebate and double rebate as per HSR. • Provision of Structure Glazing as specified on the drawings. • Space for window A.C/Cooler in designated rooms to be left in window/glazing. 	<p>trends and the modern materials with innovative technology as well as to improve aesthetically/functional requirements.</p>
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		b) Door/ Windows shutters.	<p>(i) Window shall have hard wood openable shutters.</p> <p>(ii) Flush door shutters.</p> <p>(iii) Wire mesh shutters shall be provided only on external doors, windows & ventilators.</p> <p>(iv) Toilet doors shall have water proof flush shutters with appropriate preventive measures for water proofing.</p>	<ul style="list-style-type: none"> • Windows and ventilators shall be provided with wire gauge shutters. • Wooden styles in windows and ventilators shutters shall be used for the pressed steel frames. • UPVC/Aluminum/G.I. styles in windows and ventilators shutters shall be provided for the joinery of UPVC/Aluminum/G.I. respectively. • Security glass shall be provided as per the requirement of the security purpose, in the aluminum/UPVC/G.I. joinery. • Doors shall be provided with wooden Flush Shutters 35mm thick ISI marked/ panelled Shutters. • In toilets, 3" Gap shall be provided b/w Door shutters and floor. Aluminum frames & Styles with Laminated Cement Bonded Board (insert panel) ISI Marked shall be provided. • Fire retardant doors shall be provided as per NBC/Fire Act. 	The proposed amendment is as per requirement of present trends and the modern materials with innovative technology as well as to improve aesthetically/functional requirements.
		c) Wood to be used. d) Cupboards	<p>Wood to be used should be kiln seasoned hard wood except teak on staircase railing.</p> <p>Shelves 25mm thick finished R.C.C shelves of uniform thickness painted with synthetic enamel paint.</p> <p>Cup Board shutters- solid flush shutters 25mm thick painted/finished with laminate of approved shade or as per the requirement of the interior design.</p>	<ul style="list-style-type: none"> • Wood to be used should be kiln seasoned hard wood except teak. • R.C.C shelves will be provided in the cupboards with solid flush shutters 25mm thick with pressed steel frame. <p style="text-align: center;">Or</p> <p>Cupboards having M.S. sheet shelves and shutters.</p>	
		e) Door fittings	Aluminum fittings to be used.ISI marked.	<ul style="list-style-type: none"> • Aluminum fittings to be used ISI marked. 	
		a) Grills. b) Railing	<p>Grills shall be provided at ground floor and at upper floor wherever public interface exists.</p> <p>Record rooms and treasuries to be provided with grills.</p>	<ul style="list-style-type: none"> • Grills shall be provided at ground floor and at upper floor wherever public interface exists. Record rooms and treasuries to be provided with heavy duty grills. • Stainless Steel/M.S. railing as per architectural drawings. 	

3.	INTERNAL FINISHES	a) Internal walls and Ceiling	<p>(i) All rooms of Class-I officers- false ceiling shall be provided as per requirement/ceiling shall be finished in P.O.P. oil bound distemper on wall after preparation of surface with wall putty shall be provided.</p> <p>(ii) All other ceiling shall be plastered and white washed.</p> <p>(iii) For all other area Oil Bound Distemper on walls/ceiling.</p>	<ul style="list-style-type: none"> • In designated rooms:- All rooms of Class-I Officers- False ceiling shall be provided as per requirement/Ceiling be finished in P.O.P. Plastic Emulsion paint on wall after preparation of surface with wall putty shall be provided. • For all other areas –Walls and Ceilings finished with Oil Bound Distemper. 	The proposed amendment is as per requirement of present trends and the modern materials with innovative technology as well as to improve aesthetically/functional requirements.
		b) Joinery & Other area to be painted	<p>(i) Joinery to be painted with synthetic enamel paint of approved shade and brand/make.</p> <p>(ii) In circulation & corridors- horizontal band of 15" width of commercial ply finished with laminate/prelaminated board as a head guard.</p>	<ul style="list-style-type: none"> • Joinery to be painted with synthetic enamel paint of approved shade. • In circulation & corridors, dado of ceramic tiles or Mat finish water proof paint of light shade upto 4'-6" height shall be provided. 	
4.	EXTERNAL FINISHES	a) External walls	(i) Plastered finish with Exterior weather shield paint with putty or tiles cladding and structural glazing as per requirement.	Dry Stone cladding/ACP/HPL on the 20% of all facade surface area with the combination of Textured paint / Grit finish/Exterior Paint/Structural Glazing or Combination of the above as per the architectural drawings.	The existing external finishing are very old, are out of trends and require periodically maintenance very frequently. The proposed upgraded/amended specifications are low maintenance and are in consonance with the provision made in the Haryana Building Code, 2017.
5.	SOIL WASTE & RAIN WATER PIPES.	a) Rain water pipes b) Water Supply Pipes c) Soil Waste pipes	<p>(i) All rain water pipes be laid in approachable and open able ducts with sufficient space for repairs. PVC should normally preferred instead of C.I. pipes.</p> <p>(ii) RWP's not be embedded in brick walls, in general.</p> <p>(iii) All the soil waste pipes shall not be exposed on elevations. Soil pipes are</p>	<ul style="list-style-type: none"> • All rain water pipes be laid in approachable and openable ducts. PVC pipes should normally be preferred over C.I. pipes • RWP's need not be embedded in brick walls, in general. • Water supply pipes shall be of CPVC. • All soil waste pipes shall preferably be PVC over CI pipes and shall be concealed in ducts. 	The proposed amendment is minor and is requirement of present time

			not to be embedded in floors but to be hanged underneath the slab. A false ceiling of water proof material shall be provided in the area.		
7.	ELECTRIC WIRING / SWITCHES	a) Wires	Copper wiring in concealed conduits be used. Internet ducts, Telephones/ Conduits, EPABX, LAN, Security cameras, Security censor doors be provided as per requirement as per need of the future.	<ul style="list-style-type: none"> • Copper wiring in concealed conduits be used. • Modular switches shall be provided. • Internet ducts, Telephones/ Conduits be provided as per need of the future. • Digital Connectivity Infrastructure (DCI) shall be provided as per Chapter 7A of Haryana Building Code-2017 amended from time to time/applicable NBC 2016 Clauses. 	The specifications have been proposed as per requirement of the present time and modern trends considering the various electrical innovative applications/appliances are now being provided.
8.	FIRE SAFETY MEASURE	a) Devices.	Fire Safety devices like fire sensor, fire extinguishers, pressurizing system for staircases/lifts shall be provided as per requirement as per need of the future.	<ul style="list-style-type: none"> • Fire Safety/Fire fighting arrangements as per provisions of Haryana Fire Act, Fire & Life Safety Provisions of National Building Code, 2016 amended from time to time. 	The provisions have been proposed as per the various Codel provisions mandatorily required.
9.	RAIN WATER HARVESTING.	a) Provision.	As per Haryana Govt. notification or as per Local authorities recommendations.	<ul style="list-style-type: none"> • To be provided as per notification of Haryana Govt. in this regard. 	This is required essentially as per statutory requirement
10.	SOLAR WATER HEATING SYSTEM	Water Heater	As per ECBC code32.	<ul style="list-style-type: none"> • As per HAREDA Guidelines/notifications. 	No change has been proposed.
11.	Provisions of Energy Conservation Building Code		-	<ul style="list-style-type: none"> • As per Haryana Govt. Notifications issued from time to time. 	This is mandatorily required as per the provisions made in Haryana Building Code, 2017 as amended from time to time.
12.	Provisions of differently abled persons Act.			<ul style="list-style-type: none"> • All the provisions as per the provision of Differently Abled Persons Act. 	This is mandatorily required as per the provisions made in Haryana Building Code, 2017 as amended from time to time.
13.	Provisions of Solar Panels.			<ul style="list-style-type: none"> • As per Haryana Govt. Notifications issued from time to time/Haryana Building Code. 	This is mandatorily required as per the provisions made in Haryana Building Code, 2017 as amended from time to time.
14.	Provisions of False ceiling			<ul style="list-style-type: none"> • Requirement and Material Specifications of False Ceiling shall be as per the requirement of Client Department. 	

REVISED SPECIFICATIONS FOR NEW CONSTRUCTION/RENOVATION HOUSES TYPES 2800 SFT, 2200 SFT & 1900 SFT

Sr. No.	Item	Sub-Item	Existing Specifications	Revised Specifications	Reason / Justification
1.	Flooring, Dado-Skirting	a) i. Drawing Room, Dinning, Lobby, Entrance Hall ii) Bed Room, Study Room, Office Room b) Staircase c) Kitchen d) Verandah, Balcony e) Toilets	i) New Constn.: - Marble Stone ii) Renovation:- Vitrified double charged tiles 2'-0"x 2'-0" or above i) Baroda Green/White marble i) New Constn:- Granite stone in flooring Renovation:- Anti skid ceramic tiles in flooring ii) Worktops to be finished with granite stone. iii) Ceramic rectified tiles 12"-18" or above in dado upto 6'-9" iv) Modular kitchen cabinets under worktop and overhead with 20mm block board with Lamination v) Stainless steel sinks. Baroda green marble with marble pattern/anti skid vitrified double charged tiles of any size. i) Flooring-granite stone tiles. ii) Provision for installation of washing machine shall be made separately by pvdg. Washing area iii) Dado- ceramic rectified tiles upto 7' with border with size 12"x18" or above. iv) Under counter wash basin granite top v) Wall hung type WC.	<ul style="list-style-type: none"> • Vitrified tiles for new construction and renovation. • Granite stone or combination of Baroda Green and White Marble. • Granite stone flooring in new construction and renovation. • Worktops to be finished with granite stone. • Ceramic tiles for dado upto 7'-0" height. • Modular kitchen cabinets under worktop and overhead with 20mm thick water proof commercial ply wood ISI Marked finished with glossy Laminate. • Stainless steel sinks. • Combination of Baroda green marble with S white granite pattern • Flooring-granite stone • Provision for installation of washing machine shall be made separately by providing Washing area • Dado- ceramic tiles upto ceiling/false ceiling with border. • Under counter wash basin with granite top • Wall hung type WC. 	The existing specifications are very old as the same was approved during the year 2009. These are required to be upgraded/amended by providing vitrified tiles keeping in view the requirement of the modern trends, aesthetically beautiful, easy to lay and low maintenance with various colors and size options. There is a color variation and discoloration in kota stone. Further there is a limitation with regard to the size of the stone available in the market whereas various color options/verities are available in the granite stone with a flexibility of size of stone which has been proposed in the new specifications.
		f) Garage, Servant room, Security guard room, store room.	Kotah Stone	<ul style="list-style-type: none"> • Kotah Stone. 	
		g) Servant toilet	Ceramic Rectified tile flooring with dado- 8"x12" size upto 7'	<ul style="list-style-type: none"> • Baroda green flooring with dado- upto ceiling. • P trap type WC. 	

		h) Sleeping Terrance Roof top/terrace	Rustic tiles with pattern/Kotah stone, marble	<ul style="list-style-type: none"> • Kotah stone. • Heat Resistant Tiles with epoxy joint filling. 	
		i) Driveway Plinth protection	Kotah Stone with marble pattern.	<ul style="list-style-type: none"> • Kotah Stone. • Interlock pavers/chequered tiles as per architectural drgs. 	
2.	Joinery work for doors windows and ventilator.	a) Frames	Hardwood frames for all doors, windows, ventilators, open able and fixed with glazing	<ul style="list-style-type: none"> • Teak wood frames for all doors, windows, ventilators, open able and fixed with glazing. 	The proposed amendment is as per requirement of present trends and the modern materials with innovative technology as well as to improve aesthetically/functional requirements.
		b) Shutters	Flush Shutter 30mm thick I.S.I. Marked with 3mm thick veneer on both sides ISI marked. Windows, ventilators shall be hardwood except teak. Wooden Chowkhats.	<ul style="list-style-type: none"> • Flush Shutter 30mm thick I.S.I. Marked with 3mm thick veneer on both sides ISI specifications marked. Windows, ventilators shutters shall be of Teak wood. 	
		c) Wood to be used.	Wood to be used shall be kiln seasoned hardwood as per ISI Specifications.	<ul style="list-style-type: none"> • Wood to be used shall be kiln seasoned hardwood as per ISI. 	
		d) Cupboard.	1) 25mm thick Block board ISI marked shelves. 2) Flush shutters 25mm thick ISI marked teak veneered with sprit polish.	<ul style="list-style-type: none"> • Box type cupboards made of 20mm thick commercial ply ISI marked finished with liner laminate from inside and Teak wood leaping finished with spirit polish shall be providing on the edges. • Flush shutters 25mm thick ISI marked teak veneered with sprit polish. 	
		e) Fittings	Anodized Aluminum Fitting ISI marked.	<ul style="list-style-type: none"> • White metal/Anodized Aluminum Fitting ISI marked. 	
		f) Wires gauge shutters.	Fly mesh shutters to all outer doors / windows to be provided.	Fly mesh shutters to all outer doors / windows to be provided.	
3.	Internal and External finishes.	a) Internal finishes	Plastic emulsion	<ul style="list-style-type: none"> • Plastic emulsion. 	The proposed amendment is as per requirement of present trends and the modern materials with innovative technology as well as to improve aesthetically/functional requirements.
		b) Joinery paint	Joinery shall be painted with synthetic enamel paint.	<ul style="list-style-type: none"> • Joinery shall be painted with synthetic enamel paint or polish as per 	

				architectural drawings.	
		c) External finishes	<ul style="list-style-type: none"> i) Plastered/painted with appropriate external paint as per colour scheme ii) All RCC work shall be plastered unless otherwise specified. 	<ul style="list-style-type: none"> • Grit Finish/Texture Paint/Exterior Grade Paint or Combination of the above as per architectural drawings. • All RCC work shall be plastered unless otherwise specified. 	The existing external finishing are very old, are out of trends and require periodically maintenance very frequently. The proposed upgraded/amended specifications are low maintenance and are in consonance with the provision made in the Haryana Building Code, 2017.
4	Soil Waste & Rain Water Pipes	<ul style="list-style-type: none"> a) Rain water pipes b) Water supply pipes c) Soil Waste pipes 	<ul style="list-style-type: none"> i) All R.W.P.s be laid in approachable ducts. ii) PVC pipes ISI marked. iii) C.I. soil waste pipes shall be not exposed 	<ul style="list-style-type: none"> • All rain water pipes be laid in approachable and openable ducts. PVC pipes should normally be preferred over C.I. pipes • RWP's need not be embedded in brick walls, in general. • Water supply pipes shall be of CPVC. All soil waste pipes shall preferably be PVC over CI pipes and shall be concealed in ducts. 	The proposed amendment is minor and is requirement of present time
5	Grills	Grills /Railing	Steel Grills to outer windows / Ventilators to be provided.	<ul style="list-style-type: none"> • Stainless steel grills on all floors. • Stainless steel staircase railing. 	The proposed amendment is as per requirement of present trends and the modern materials with innovative technology as well as to improve aesthetically/functional requirements.
6	Electric Wiring	<ul style="list-style-type: none"> a) Wiring b) Switches/MCBs 	Copper wiring in concealed conduits be provided.	<ul style="list-style-type: none"> • Copper wiring in concealed conduits be provided. • Modular switches, MCBs ISI mark. 	The specifications have been proposed as per requirement of the present time and modern trends considering the various electrical innovative applications/appliances are now being provided.
		c) Communication System.	Telephone/Internet/ TV conduits and wiring.	<ul style="list-style-type: none"> • Telephone/Internet/ TV conduits and wiring. 	
7	Compound Walls and Gates	a) Compound Walls.	Standard Compound walls shall be provided. The outer faces if walls shall have plastered with pattern if any. Wooden or Fiber Glass Jafri 2'6" high	<ul style="list-style-type: none"> • Standard Compound walls shall be provided. The outer faces of walls shall be plastered with pattern if any. • Wooden or Fiber Glass Jafri 2'6" high 	No change has been proposed

			on front B/wall.	on front B/wall.	
		b) Gates.	Standard Gates of 5'-11 1/2 high shall be provided.	<ul style="list-style-type: none"> Standard Gates as per HBC shall be provided. 	Amendment is required as per Building Code.
8	Provision of Rain & Water Harvesting	-	Mandatory.	<ul style="list-style-type: none"> As per Notification 	This is required essentially as per statutory requirement
9	Solar Water Heating	-	-	<ul style="list-style-type: none"> As per Notification 	No change has been proposed.

REVISED SPECIFICATION OF HOUSES TYPE 1300 SFT AREA

Sr. No.	Item	Sub-Item	Existing specification	Revised Specifications for new construction and renovation.	Reason / Justification
1.	Flooring, Dado-Skirting	Rooms Lobby, Store, Balcony, Verandah a) Staircase	i) New Construction:- Marble Stone ii) Renovation:- Vitrified double charged tiles 2'-0"x 2'-0" or above Baroda Green/White marble	<ul style="list-style-type: none"> • Vitrified tiles. • Combination of Baroda Green & White Marble stone. 	The existing specifications are very old as the same was approved during the year 2009. These are required to be upgraded/amended by providing vitrified tiles keeping in view the requirement of the modern trends, aesthetically beautiful, easy to lay and low maintenance with various colors and size options. There is a color variation and discoloration in kota stone. Further there is a limitation with regard to the size of the stone available in the market whereas various color options/verities are available in the granite stone with a flexibility of size of stone which has been proposed in the new specifications.
		b) Kitchen	i) Renovation :- Non Skid Ceramic Tiles in flooring. New Construction :- Marble. ii) Worktops to be finished with Granite Stone. iii) Ceramic rectified tiles 8"x12" in dado upto 6'-9" iv) Cabinets overhead with 20mm Block Board ISI Marked with Lamination. Laminated shutters with Pressed steel chowkhats under worktop. v) Stainless steel sink.	<ul style="list-style-type: none"> • Combination of Baroda Green & White Marble stone. • Worktops to be finished with granite stone. • Ceramic tiles for dado up to 7'-0" height. • Overhead cabinets of 19mm thick commercial plywood ISI mark finished with laminate of approved shade • Kitchen cabinets under worktop with pressed steel chowkhat and shutters of 20mm thick water proof commercial ply wood ISI Marked finished with Laminate. • Stainless steel sinks (single). 	

		c) Verandah, Balcony	-	<ul style="list-style-type: none"> • Baroda green marble with S white granite pattern or Combination of Baroda Green & White Marble stone. 	
		d) store room.	-	<ul style="list-style-type: none"> • Kotah Stone. 	
		e) Sleeping Terrace Roof Top f) Driveway	Cement concrete flooring	<ul style="list-style-type: none"> • Kotah stone • Heat resistant tiles with epoxy joints. • Combination of PCC and interlock pavers as per architectural drawings. 	
2.	Joinery work for doors windows and ventilator.	a) Frames	Pressed steel frames for all doors, windows ventilators, openable and fixed with glazing.	<ul style="list-style-type: none"> • Pressed steel frames for all doors, windows ventilators, openable and fixed with glazing. 	The proposed amendment is as per requirement of present trends and the modern materials with innovative technology as well as to improve aesthetically/functional requirements.
		b) Shutters	Flush shutter ISI Marked. Windows, ventilators shall be Hard wood except teak with Pressed steel chowkhats.	<ul style="list-style-type: none"> • Flush Shutter 30mm thick I.S.I. Mark Windows, ventilators shutters shall be of Hard Wood. • Bath and Toilets shall have Laminated Flush shutters ISI Marked. • Wire Gauge shutters to be provided • Wood to be used shall be kiln seasoned hardwood as per ISI. 	
		c) Wood to be used.	Wood to be used shall be kiln seasoned hardwood as per ISI Specifications.		
		d) Cupboard.	1) 25mm thick Block board ISI marked shelves.	<ul style="list-style-type: none"> • Chowkhats of pressed steel frame with shutters of 25mm thick 	

			2) Flush shutters 25mm thick ISI marked	commercial plywood ISI mark finished with laminate from outside and to be painted from the inside. <ul style="list-style-type: none"> • 17mm thick granite stone shelves. 	
		e) Fittings	Anodized Aluminum Fitting ISI marked.	<ul style="list-style-type: none"> • White metal/Aluminum Fitting ISI marked. 	
3.	Internal and External finishes.	a) Internal walls and ceiling	Oil Bound Distemper	<ul style="list-style-type: none"> • Plastic emulsion Paint. 	The proposed amendment is as per requirement of present trends and the modern materials with innovative technology as well as to improve aesthetically/functional requirements.
		b) Joinery paint	Joinery shall be painted with synthetic enamel paint.	<ul style="list-style-type: none"> • Joinery shall be painted with synthetic enamel paint 	
		c) External finishes	<ul style="list-style-type: none"> i) Plastered/painted with appropriate external paint as per colour scheme ii) All RCC work shall be plastered unless otherwise specified. 	<ul style="list-style-type: none"> • Grit Finish/Texture Paint/Exterior Grade Paint or Combination of the above as per Architectural Drawings. • All RCC work shall be plastered unless specified otherwise. 	The existing external finishing are very old, are out of trends and require periodically maintenance very frequently. The proposed upgraded/amended specifications are low maintenance and are in consonance with the provision made in the Haryana Building Code, 2017.
4	Soil Waste, Rain Water & Water Supply Pipes	<ul style="list-style-type: none"> a) Rain water pipes. b) Water supply pipes. c) Soil waste pipes. 	<ul style="list-style-type: none"> • All R.W.P.s be laid in approachable ducts. • PVC pipes ISI marked. 	<ul style="list-style-type: none"> • All rain water pipes be laid in approachable and openable ducts. PVC pipes should normally be preferred over C.I. pipes • RWP's need not be embedded in brick walls, in general. • Water supply pipes shall be of CPVC. • All soil waste pipes shall preferably be 	The proposed amendment is minor and is requirement of present time.

				PVC over CI pipes and shall be concealed in ducts.	
5	Window Grills Balcony / Stair-case Railing	Grills	Steel Grills to outer windows/ ventilators to be provided on all floors.	<ul style="list-style-type: none"> MS Grills On all floors. MS Railing as per Architectural Drawings. 	Amendment has been made as per requirement of present time.
6	Electric Wiring and Fittings	a) Wiring b) Switches/ MCBs c) Communication System.	Copper wiring in concealed conduits be provided. Modular switches, MCBs ISI Marked. Telephone/Internet/ TV conduits and wiring.	<ul style="list-style-type: none"> Copper wiring in concealed conduits be provided. Modular Switches. MCBs ISI Mark Telephone/Internet/ TV conduits and wiring. 	The specifications have been proposed as per requirement of the present time and modern trends considering the various electrical innovative applications/appliances are now being provided.
7	Compound Walls and Gates	a) Compound Walls. b) Gates.	Standard Compound walls shall be provided. The outer faces if walls shall have plastered with pattern. Standard Gates shall be provided.	<ul style="list-style-type: none"> Standard Compound walls shall be provided. The outer faces if walls shall have plastered with pattern if any. Wooden or Fiber Glass Jafri 2'6" high on front B/wall. Standard Gates as per HBC shall be provided. 	Minor amendment has been made as per requirement of present time and Building Code.
8	Provision of Rain & Water Harvesting	-	Mandatory.	<ul style="list-style-type: none"> As per Haryana Government Notification 	This is required essentially as per statutory requirement.
9	Solar Water Heating	-	-	<ul style="list-style-type: none"> -As per HAREDA Guidelines Notification 	This is required essentially as per statutory requirement

REVISED SPECIFICATION OF HOUSES TYPES 950 SFT & 800 SFT AREA

Sr. No.	Item	Sub-Item	Existing specification	Revised Specifications for new construction and renovation.	Reason / Justification
1.	Flooring, Dado-Skirting	Rooms Lobby, Store, Balcony, Verandah g) Staircase	iii) New Construction.:- Marble Stone iv) Renovation:- Vitrified double charged tiles 2'-0"x 2'-0" or above Baroda Green/White marble	<ul style="list-style-type: none"> • Vitrified tiles. • Combination of Baroda Green & White Marble stone. 	The existing specifications are very old as the same was approved during the year 2009. These are required to be upgraded/amended by providing vitrified tiles keeping in view the requirement of the modern trends, aesthetically beautiful, easy to lay and low maintenance with various colors and size options. There is a color variation and discoloration in kota stone. Further there is a limitation with regard to the size of the stone available in the market whereas various color options/verities are available in the granite stone with a flexibility of size of stone which has been proposed in the new specifications.
		h) Kitchen	vi) Renovation :- Non Skid Ceramic Tiles in flooring. New Construction :- Marble. vii) Worktops to be finished with Baroda Green marble. viii) Ceramic rectified tiles 8"x12" in dado upto 6'-9" ix) Cabinets overhead with 20mm Block Board ISI Marked with Lamination. Laminated shutters with Pressed steel chowkhats under worktop. x) Stainless steel sink.	<ul style="list-style-type: none"> • Combination of Baroda Green & White Marble stone. • Worktops to be finished with granite stone. • Ceramic tiles for dado up to 7'-0" height. • Overhead cabinets of 19mm thick commercial plywood ISI mark finished with laminate of approved shade • kitchen cabinets under worktop with pressed steel chowkhat and shutters of 20mm thick water proof commercial ply wood ISI Marked finished with Laminate. • Stainless steel sinks (single). 	

		i) Verandah, Balcony	-	<ul style="list-style-type: none"> Baroda green marble with S white granite pattern or Combination of Baroda Green & White Marble stone. 	
		j) store room.	-	<ul style="list-style-type: none"> Kotah Stone. 	
		k) Sleeping Terrace Roof Top l) Driveway	Cement concrete flooring	<ul style="list-style-type: none"> Kotah stone Heat resistant tiles with epoxy joints. Combination of PCC and interlock pavers as per architectural drawings. 	
2.	Joinery work	e) Frames f) Shutters g) Wood to be used.	<p>Pressed steel frames for all doors, windows ventilators, openable and fixed with glazing.</p> <p>Flush shutter ISI Marked. Windows, ventilators shall be Hard wood except teak with Pressed steel chowkhats.</p> <p>Wood to be used shall be kiln seasoned hardwood as per ISI Specifications.</p>	<ul style="list-style-type: none"> Pressed steel frames for all doors, windows ventilators, openable and fixed with glazing. Flush Shutter 30mm thick I.S.I. Mark Doors, Windows, ventilators shutters shall be of Hard Wood. Bath and Toilets shall have Laminated Flush shutters ISI Marked. Wood to be used shall be kiln seasoned hardwood as per ISI. 	The proposed amendment is as per requirement of present trends and the modern materials with innovative technology as well as to improve aesthetically/functional requirements.
		h) Cupboard.	<p>3) 25mm thick Block board ISI marked shelves.</p> <p>4) Flush shutters 25mm thick ISI marked</p>	<ul style="list-style-type: none"> Chowkhats of pressed steel frame with shutters of 25mm thick commercial plywood ISI mark finished with laminate from outside and to be painted from the inside. 	

				<ul style="list-style-type: none"> • 17mm thick granite stone shelves. 	
		e) Fittings	Anodized Aluminum Fitting ISI marked.	<ul style="list-style-type: none"> • White metal/Aluminum Fitting ISI marked. 	
		f) Wire gauge shutters.	Fly mesh shutters to all the outer doors and windows shall be provide.	Fly mesh Shutters to all outer doors / windows to be provided.	
3.	Internal and External finishes.	d) Internal walls and ceiling	Oil Bound Distemper	<ul style="list-style-type: none"> • Plastic emulsion Paint 	The proposed amendment is as per requirement of present trends and the modern materials with innovative technology as well as to improve aesthetically/functional requirements.
		e) Joinery paint	Joinery shall be painted with synthetic enamel paint.	<ul style="list-style-type: none"> • Joinery shall be painted with synthetic enamel paint 	
		f) External finishes	<ul style="list-style-type: none"> iii) Plastered/painted with appropriate external paint as per colour scheme iv) All RCC work shall be plastered unless otherwise specified. 	<ul style="list-style-type: none"> • Grit Finish/Texture Paint/Exterior Grade Paint or Combination of the above as per Architectural Drawings. • All RCC work shall be plastered unless specified otherwise. 	The existing external finishing are very old, are out of trends and require periodically maintenance very frequently. The proposed upgraded/amended specifications are low maintenance and are in consonance with the provision made in the Haryana Building Code, 2017.
4	Soil Waste, Rain Water & Water Supply Pipes	<ul style="list-style-type: none"> d) Rain water pipes. e) Water supply pipes. f) Soil waste pipes. 	<ul style="list-style-type: none"> • All R.W.P.s be laid in approachable ducts. • PVC pipes ISI marked. 	<ul style="list-style-type: none"> • All rain water pipes be laid in approachable and openable ducts. PVC pipes should normally be preferred over C.I. pipes • RWP's need not be embedded in brick walls, in general. • Water supply pipes shall be of CPVC. 	The proposed amendment is minor and is requirement of present time.

				<ul style="list-style-type: none"> All soil waste pipes shall preferably be PVC over CI pipes and shall be concealed in ducts. 	
5	Window Grills Balcony / Stair-case Railing	Grills	Steel Grills to outer windows/ ventilators to be provided on all floors.	<ul style="list-style-type: none"> MS Grills On all floors. MS Railing as per Architectural Drawings. 	Amendment has been made as per requirement of present time.
6	Electric Wiring and Fittings	d) Wiring e) Switches/ MCBs f) Communication System.	Copper wiring in concealed conduits be provided. Modular switches, MCBs ISI Marked. Telephone/Internet/ TV conduits and wiring.	<ul style="list-style-type: none"> Copper wiring in concealed conduits be provided. Modular Switches. MCBs ISI Mark Telephone/Internet/ TV conduits and wiring. 	The specifications have been proposed as per requirement of the present time and modern trends considering the various electrical innovative applications/appliances are now being provided.
7	Compound Walls and Gates	c) Compound Walls. d) Gates.	Standard Compound walls shall be provided. The outer faces if walls shall have plastered with pattern. Standard Gates shall be provided.	<ul style="list-style-type: none"> Standard Compound walls shall be provided. The outer faces if walls shall have plastered with pattern if any. Wooden or Fiber Glass Jafri 2'6" high on front B/wall. Standard Gates as per HBC shall be provided. 	Minor amendment has been made as per requirement of present time and Building Code.
8	Provision of Rain & Water Harvesting	-	Mandatory.	<ul style="list-style-type: none"> As per Haryana Government Notification 	This is required essentially as per statutory requirement.
9	Solar Water Heating	-	-	<ul style="list-style-type: none"> -As per HAREDA Guidelines Notification 	This is required essentially as per statutory requirement

REVISED SPECIFICATION OF HOUSES TYPES 650 SFT & 550 SFT AREA

Sr. No.	Item	Sub-Item	Existing specification	Revised Specifications for new construction and renovation.	Reason / Justification
1.	Flooring, Dado-Skirting	Rooms Lobby, Store, Balcony, Verandah m) Staircase	v) New Construction.:- Marble Stone vi) Renovation:- Vitrified double charged tiles 2'-0"x 2'-0" or above Kotah Stone	<ul style="list-style-type: none"> • Vitrified tiles. • Combination of Baroda Green & White Marble stone. 	The existing specifications are very old as the same was approved during the year 2009. These are required to be upgraded/amended by providing vitrified tiles keeping in view the requirement of the modern trends, aesthetically beautiful, easy to lay and low maintenance with various colors and size options. There is a color variation and discoloration in kota stone. Further there is a limitation with regard to the size of the stone available in the market whereas various color options/verities are available in the granite stone with a flexibility of size of stone which has been proposed in the new specifications.
		n) Kitchen	xi) Renovation :- Non Skid Ceramic Tiles in flooring. New Construction :- Marble. xii) Worktops to be finished with Baroda Green marble. xiii) Ceramic rectified tiles 8"x12" in dado upto 6'-9" xiv) Cabinets overhead with 20mm Block Board ISI Marked with Lamination. Laminated shutters with Pressed steel chowkhats under worktop. xv) Stainless steel sink.	<ul style="list-style-type: none"> • Combination of Baroda Green & White Marble stone. • Worktops to be finished with granite stone. • Ceramic tiles for dado up to 7'-0" height. • Overhead cabinets of 19mm thick commercial plywood ISI mark finished with laminate of approved shade • kitchen cabinets under worktop with pressed steel chowkhat and shutters of 20mm thick water proof commercial ply wood ISI Marked finished with Laminate. • Stainless steel sinks (single). 	

		o) Verandah, Balcony	-	<ul style="list-style-type: none"> Baroda green marble with S white granite pattern or Combination of Baroda Green & White Marble stone. 	
		p) store room.	-	<ul style="list-style-type: none"> Kotah Stone. 	
		q) Sleeping Terrace Roof Top r) Driveway	Cement concrete flooring	<ul style="list-style-type: none"> Kotah stone Heat resistant tiles with epoxy joints. Combination of PCC and interlock pavers as per architectural drawings. 	
2.	Joinery work	i) Frames j) Shutters k) Wood to be used.	<p>Pressed steel frames for all doors, windows ventilators, openable and fixed with glazing.</p> <p>Flush shutter ISI Marked. Windows, ventilators shall be Hard wood except teak with Pressed steel chowkhats.</p> <p>Wood to be used shall be kiln seasoned hardwood as per ISI Specifications.</p>	<ul style="list-style-type: none"> Pressed steel frames for all doors, windows ventilators, openable and fixed with glazing. Flush Shutter 30mm thick I.S.I. Mark Doors, Windows, ventilators shutters shall be of Hard Wood. Bath and Toilets shall have Laminated Flush shutters ISI Marked. Wood to be used shall be kiln seasoned hardwood as per ISI. 	The proposed amendment is as per requirement of present trends and the modern materials with innovative technology as well as to improve aesthetically/functional requirements.
		l) Cupboard.	<p>5) 25mm thick Block board ISI marked shelves.</p> <p>6) Flush shutters 25mm thick ISI marked</p>	<ul style="list-style-type: none"> Chowkhats of pressed steel frame with shutters of 25mm thick commercial plywood ISI mark finished with laminate from outside 	

				<ul style="list-style-type: none"> and to be painted from the inside. • 17mm thick granite stone shelves. 	
		e) Fittings	Anodized Aluminum Fitting ISI marked.	<ul style="list-style-type: none"> • White metal/Aluminum Fitting ISI marked. 	
		f) Wire gauge shutters.	Fly mesh shutters to all the outer doors and windows shall be provide.	Fly mesh Shutters to all outer doors / windows to be provided.	
3.	Internal and External finishes.	<p>g) Internal walls and ceiling</p> <p>h) Joinery paint</p> <p>i) External finishes</p>	<p>Oil Bound Distemper</p> <p>Joinery shall be painted with synthetic enamel paint.</p> <p>v) Plastered/painted with appropriate external paint as per colour scheme</p> <p>vi) All RCC work shall be plastered unless otherwise specified.</p>	<ul style="list-style-type: none"> • Oil Bound Distemper. • Joinery shall be painted with synthetic enamel paint • Grit Finish/Texture Paint/Exterior Grade Paint or Combination of the above as per Architectural Drawings. • All RCC work shall be plastered unless specified otherwise. 	<p>The proposed amendment is as per requirement of present trends and the modern materials with innovative technology as well as to improve aesthetically/functional requirements.</p> <p>The existing external finishing are very old, are out of trends and require periodically maintenance very frequently. The proposed upgraded/amended specifications are low maintenance and are in consonance with the provision made in the Haryana Building Code, 2017.</p>
4	Soil Waste, Rain Water & Water Supply	<p>g) Rain water pipes.</p> <p>h) Water supply pipes.</p> <p>i) Soil waste pipes.</p>	<ul style="list-style-type: none"> • All R.W.P.s be laid in approachable ducts. • PVC pipes ISI marked. 	<ul style="list-style-type: none"> • All rain water pipes be laid in approachable and openable ducts. PVC pipes should normally be preferred over C.I. pipes • RWP's need not be embedded in brick walls, in general. 	The proposed amendment is minor and is requirement of present time.

	Pipes			<ul style="list-style-type: none"> Water supply pipes shall be of CPVC. All soil waste pipes shall preferably be PVC over CI pipes and shall be concealed in ducts. 	
5	Window Grills Balcony / Stair-case Railing	Grills	Steel Grills to outer windows/ ventilators to be provided on all floors.	<ul style="list-style-type: none"> MS Grills On all floors. MS Railing as per Architectural Drawings. 	Amendment has been made as per requirement of present time.
6	Electric Wiring and Fittings	g) Wiring h) Switches/ MCBs i) Communication System.	Copper wiring in concealed conduits be provided. Modular switches, MCBs ISI Marked. Telephone/Internet/ TV conduits and wiring.	<ul style="list-style-type: none"> Copper wiring in concealed conduits be provided. Modular Switches. MCBs ISI Mark Telephone/Internet/ TV conduits and wiring. 	The specifications have been proposed as per requirement of the present time and modern trends considering the various electrical innovative applications/appliances are now being provided.
7	Compound Walls and Gates	e) Compound Walls. f) Gates.	Standard Compound walls shall be provided. The outer faces if walls shall have plastered with pattern. Standard Gates shall be provided.	<ul style="list-style-type: none"> Standard Compound walls shall be provided. The outer faces if walls shall have plastered with pattern if any. Wooden or Fiber Glass Jafri 2'6" high on front B/wall. Standard Gates as per HBC shall be provided. 	Minor amendment has been made as per requirement of present time and Building Code.
8	Provision of Rain & Water Harvesting	-	Mandatory.	<ul style="list-style-type: none"> As per Haryana Government Notification 	This is required essentially as per statutory requirement.
9	Solar Water Heating	-	-	<ul style="list-style-type: none"> -As per HAREDA Guidelines Notification 	This is required essentially as per statutory requirement

REVISED SPECIFICATIONS OF POLYTECHNICS / ITI's / COLLEGES/ENGINEERING COLLEGES BUILDINGS

Sr.No.	Items	Sub Items	Existing Specifications	Revised Specifications	Reason / Justification
1.	FLOORING, DADO-SKIRTING	a) Class Rooms/Office Rooms & stores. b) Corridors, Verandah, Entrance Hall circulation space and staircases. c) Canteen & Kitchen d) Library e) Principal Room / Computer Room/ Teacher's Common Room f) Workshop g) Toilets. h) Ramp i) MULTIPURPOSE HALL	Floor in all class / Office rooms & Store shall be of terrazzo of silver Grey / Kotah stone. Kotah stone flooring with Marble Pattern 80:20 ratio. Kotah Stone flooring with Marble Pattern. Kotah. Mat Finish vitrified tiles. Ironite flooring. Ceramic glazed tiles on walls upto a height of 6'-9", Granite flooring.	<ul style="list-style-type: none"> • Combination of Baroda green with White Marble. • Entrance Hall & Main Staircase- Granite Stone or Combination of Baroda green with White Marble with Tac Tiles. Fire escape/Fire Tower staircase shall be finished with the combination of Baroda Green & White Marble. • Kitchen shall have Baroda Green & White Marble/Granite flooring and dado of Ceramic tiles upto ceiling height. Worktop shall be granite stone/Stainless steel work counters shall be provided as per consultant advice (commercial kitchen). • Combination of Baroda green with White Marble /Granite Stone • Vitrified Tiles. • Ironite flooring. • Attached Toilets: - Anti Skid Tiles with dado of ceramic tiles up to ceiling height. • General Toilets: - Double Charged vitrified tiles/Anti skid tiles (in public toilets) and Anti skid tiles flooring (in Divyang) with 7'-0" high Dado of ceramic tiles. • Ramp shall be finished with Chequered tiles. • Pre cast Terrazo Tiles/ Baroda Green Marble/Granite Stone in multipurpose hall. • In case of sport activity in multipurpose hall, wooden/sports 	The existing specifications are very old as the same was approved during the year 2009. These are required to be upgraded/amended by providing vitrified tiles keeping in view the requirement of the modern trends, aesthetically beautiful, easy to lay and low maintenance with various colors and size options. There is a color variation and discoloration in kota stone. Further there is a limitation with regard to the size of the stone available in the market whereas various color options/verities are available in the granite stone with a flexibility of size of stone which has been proposed in the new specifications.

				<p>PVC flooring shall be provided.</p> <ul style="list-style-type: none"> • Multipurpose hall shall be provided with acoustic treatment/Wall panels and provision of Lighting as per National Building Code. 	
		j)Laboratories		<ul style="list-style-type: none"> • All Chemistry labs shall be provided with acid proof tiles in top and acid proof tiles in flooring with Dado upto 5'-3". 	
		k)Porch/Driveway/Parking		<ul style="list-style-type: none"> • Cobble Stone /PCC/Coloured chequered tiles/Interlocking pavers or Green pavers of sufficient thickness for vehicular traffic movement. 	
		l)Basement		<ul style="list-style-type: none"> • Cement Concrete flooring/unpolished Kotah Stone of sufficient thickness for vehicular traffic movement. For storage and services areas in basement shall have Kota Stone/Baroda Green flooring. 	
		m)Open terraces n)Roof Terrace		<ul style="list-style-type: none"> • Kotah Stone flooring. • Heat Resistant Tiles with epoxy joint filling. (as per ECBC Advice) 	
		o)Circulation Areas		<ul style="list-style-type: none"> • Walls up to height of 4 ft. 6 inch in circulation areas shall be finished with ceramic tiles/washable paint. 	

2.	JOINERY WORK FOR DOORS, WINDOWS AND VENTILATORS.	a) Frames.	Pressed steel frames for all doors, windows ventilators, openable and fixed with glazing.	<ul style="list-style-type: none"> • External:- • For Building less than 15 mtr. Height- All frames of Aluminum / UPVC /pressed steel frames sections (As specified on the drawings). or • Pre painted/power coated Galvanised sheet for window/ventilator frames as per HSR with Pre painted/powder coated Galvanised sheet for window/ ventilator shutters as per HSR. • Pre painted/power coated Galvanised sheet for door frames with single rebate and double rebate as per HSR. • For the Buildings more than 15 mtrs height. pressed steel frame/aluminum frames/G.I. Frames shall be provided and where the Double glazed units are to be provided as per advice of the ECBC consultant then the joinery of UPVC / G.I. / Complete Aluminum system with Aluminum Hardware and accessories of their own Make shall be provided or as provided in architectural drawings. or • Pre painted/power coated Galvanised sheet for window/ventilator frames as per HSR wit Pre painted/power coated Galvanised sheet for window/ventilator shutters as per HSR. • Pre painted/power coated Galvanised sheet for door frames with single rebate and double rebate 	<p>The proposed amendment is as per requirement of present trends and the modern materials with innovative technology as well as to improve aesthetically/functional requirements.</p> <hr/> <p>The proposed amendment is as per requirement of present trends and the modern materials with innovative technology as well as to improve aesthetically/functional requirements.</p>
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				<p>as per HSR.</p> <ul style="list-style-type: none"> • Provision of Structure Glazing as specified on the drawings. • Space for window A.C/Cooler in designated rooms to be left in window/glazing (As Specified in Drawings). 	
		b) Door/window Shutters.	<p>Well seasoned ISI marked commercial hardwood flush shutters for doors and paneled /glazed shutters for bath, toilets (cement bonded partical board Panel Inserts).</p>	<ul style="list-style-type: none"> • Pre painted/power coated Galvanised sheet for window/ventilator shutters as per HSR • Well seasoned ISI marked Windows and ventilators shall be provided with wire gauge shutters. • Wooden styles in windows and ventilators shutters shall be used for the pressed steel frames. • UPVC/Aluminum/G.I. styles in windows and ventilators shutters shall be provided for the joinery of UPVC/Aluminum/G.I. respectively. • Security glass shall be provided as per the requirement of the security purpose, in the aluminum/UPVC/G.I. joinery. • Doors shall be provided with wooden Flush Shutters 35mm thick ISI marked/ panelled Shutters. • In toilets, 3" Gap shall be provided b/w Door shutters and floor. Aluminum frames & Styles with Laminated Cement Bonded Board (insert panel) ISI Marked shall be provided. • Fire retardant doors shall be provided as per NBC/Fire Act. 	

		c) Door Fittings. d) Grills e) Railings e) Cupboard	All fitting of aluminium ISI marked. Grills at ground floor only. At upper floor wherever required. (i) Ferro cement RCC (Minimum thickness shelves shall be provided 25mm thick.	<ul style="list-style-type: none"> All fitting of aluminum ISI marked. MS Grills on all floors. Stainless Steel/M.S. railing as per architectural drawings. RCC (Minimum thickness) shelves shall be provided with 25 mm thick solid flush shutters. 	The specifications have been proposed as per requirement of the present time and as per requirement of Building Code
3.	INTERNAL AND EXTERNAL FINISHES.	a) Internal Walls & Ceiling	(i) Principal's Room / Library / Computer Room, Teacher's Common Room shall be finished with oil bound distemper every two years. (ii) Corridors / classrooms O.B.D. (iii) White washed.	<ul style="list-style-type: none"> Walls and Ceiling of Principal's Room / Library / Computer Room/Teacher's Rooms finished with Plastic Emulsion Paint. Walls and Ceiling Corridors / classrooms and ceiling finished with oil bound distemper. Dado finished with ceramic tiles/washable paint upto 4'-6" shall be provided in corridors and circulation areas. 	The proposed amendment is as per requirement of present trends and the modern materials with innovative technology as well as to improve aesthetically/functional requirements.
		b) External Walls.	Plastered / Bricks facing / Grit / Exposed concrete with external paints can be used of multiple colours.	<ul style="list-style-type: none"> Dry Stone cladding/ACP/HPL on the 20% of all facade surface area with the combination of Textured paint / Grit finish/Exterior Paint/Structural Glazing or Combination of the above as per the architectural drawings. 	The existing external finishing are very old, are out of trends and require periodically maintenance very frequently. The proposed upgraded/amended specifications are low maintenance and are in consonance with the provision made in the
4.	SOIL WASTE & RAIN WATER PIPES.	a) Rain water pipes. b) Water supply pipes.	(i) All rain water pipes be laid in approachable and open able ducts. PVC	<ul style="list-style-type: none"> All rain water pipes be laid in approachable and openable ducts. 	The proposed amendment is minor and is requirement of

		c) Soil waste pipes.	should normally preferred over C.I. RWP's need not be embedded in brick walls, in general.	PVC pipes should normally be preferred over C.I. pipes <ul style="list-style-type: none"> • RWP's need not be embedded in brick walls, in general. • Water supply pipes shall be of CPVC. • All soil waste pipes shall preferably be PVC over CI pipes and shall be concealed in ducts. 	present time.
5.	ELECTRIC WIRING/FITTINGS	a) Wires b) Switches c) Communication System to be adopted.	i) Copper wiring in concealed conduits be used. ii) Internet ducts, telephones / TV conduits be provided as per need of the future.	<ul style="list-style-type: none"> • Copper wiring in concealed conduits be used. • Modular switches to be used. • Internet ducts, Telephones/ Conduits be provided as per need of the future. • Digital Connectivity Infrastructure (DCI) shall be provided as per Chapter 7A of Haryana Building Code-2017 amended from time to time/applicable NBC 2016 Clauses. 	The specifications have been proposed as per requirement of the present time and modern trends considering the various electrical innovative applications/appliances are now being provided.
6.	HOUSES FOR EDUCATION INSTITUTES.	a) Residential Buildings.	All residential buildings in the college schemes shall be of the same standard as for other residences in the state.	<ul style="list-style-type: none"> • All residential buildings in the college schemes shall be of the same standard as for other residences in the state. 	No change has been proposed
7.	INTERNET & OTHER COMMUNICATION SYSTEM	a) Communication system to be adopted.	Telephone / Internet / TV conduits shall be provided for future need also.	<ul style="list-style-type: none"> • Telephone / Internet / TV conduits shall be provided for need future. 	No change has been proposed
8.	RAIN WATER HARVESTING	a) Provision.	To be provided as per notification of Haryana Govt. in this regard.	<ul style="list-style-type: none"> • To be provided as per notification of Haryana Govt. in this regard. 	The is required essentially as per statutory requirement
9.	SOLAR WATER HEATING SYSTEM FOR HOSTELS.	-	As per HAREDA Guidelines.	<ul style="list-style-type: none"> • As per HAREDA Guidelines. 	No change has been proposed
10.	FIRE SAFETY MEASURE	a) Devices.	Fire Safety devices be provided as per provisions made in the National Building Code.	<ul style="list-style-type: none"> • Fire Safety/Fire fighting arrangements as per provisions of Haryana Fire Act, Fire & Life Safety Provisions of National Building Code, 2016 amended from time to time. 	The provisions have been proposed as per the various Code provisions mandatorily required.
11.	Provisions of Energy Conservation Building Code		-	<ul style="list-style-type: none"> • As per Haryana Govt. Notifications issued from time to time. 	This is mandatorily required as per the provisions made in Haryana Building Code, 2017 as amended from time to time

12.	Provisions of differently abled persons Act.			<ul style="list-style-type: none"> All the provisions as per the provision of Differently Abled Persons Act. 	This is mandatorily required as per the provisions made in Haryana Building Code, 2017 as amended from time to time
13.	Provisions of Solar Panels.			<ul style="list-style-type: none"> As per Haryana Govt. Notifications issued from time to time/ Haryana Building Code. 	This is mandatorily required as per the provisions made in Haryana Building Code, 2017 as amended from time to time
14.	Provisions of False ceiling			<ul style="list-style-type: none"> Requirement and Material Specifications of False Ceiling shall be as per the requirement of Client Department. 	

REVISED SPECIFICATIONS OF SCHOOL BUILDINGS

Sr. No.	Items	Sub Items	Existing Specifications	Revised Specifications	Reason / Justification
1.	FLOORING, SKIRTING	<p>DADO-</p> <p>a) Corridors / Common Areas/ Staircase.</p> <p>b) Class Rooms / Office Rooms, Library.</p> <p>c) Toilets.</p> <p>d) Principal Room/Teacher's Common Room / Computer Room.</p> <p>e) Multipurpose Hall</p> <p>f) Ramp</p> <p>g) Laboratories</p> <p>h) Porch/Driveway/Parking</p>	<p>Kotah stone flooring.</p> <p>Terrazzo flooring of Silver grey colour.</p> <p>(i) Flooring – Kotah stone with 4" high skirting. (ii) Glazed Tiles dado upto 4'-6"</p> <p>Ceramic Tiles minimum size 16'16" Joint free. Terrazzo.</p>	<ul style="list-style-type: none"> • Combination of Baroda green with White Marble /Granite Stone with Tac Tiles. Fire escape/Fire Tower staircase shall be finished with the combination of Baroda Green & White Marble. • Combination of Baroda green with White Marble. • Attached Toilets: - Anti Skid Tiles with dado of ceramic tiles up to ceiling height. • General Toilets: - Double Charged vitrified tiles/Anti skid tiles (in public toilets) and Anti skid tiles flooring (in Divyang) with 7'-0" high Dado of ceramic tiles. • Vitrified Tile. • Combination of Baroda green with White Marble /Granite Stone/Precast Terrazo Tiles. • In case of sport activity in multipurpose hall, wooden/sports PVC flooring shall be provided. • Multipurpose hall shall be provided with acoustic treatment as per National Building Code. • Ramp shall be finished with chequered tiles. • All Chemistry labs shall be provided with acid proof tiles on top and acid proof tiles in flooring with Dado upto 5'-3". • Cobble Stone /PCC/Coloured chequered tiles/Interlocking pavers or Green pavers of sufficient thickness for vehicular 	<p>The existing specification is very old as the same was approved during the year 2009. It is required to be amended keeping in view the requirement of the present time. The initial cost due to higher specifications may be slightly more but non-maintenance quality of new propose materials will eventually cut down the cost. The cost of new propose materials will also reduce in due course of time which will also help in reduction of the cost of buildings. So, the specifications have been proposed to be amended.</p>

		<p>g) Basement</p> <p>h) Open terraces</p> <p>i) Roof Terrace</p> <p>j) Kitchen/Pantry</p>		<p>traffic movement.</p> <ul style="list-style-type: none"> • Cement Concrete flooring/unpolished Kota Stone of sufficient thickness for vehicular traffic movement. For storage and services areas in basement shall have Kota Stone/Baroda Green flooring. • Kota Stone flooring. • Heat Resistant Tiles with epoxy joint filling. (as per ECBC Advice) • Kitchen shall have Baroda Green & White Marble/Granite flooring and dado of Ceramic tiles upto ceiling height. Worktop shall be granite stone/Stainless steel work counters shall be provided as per consultant advice (commercial kitchen). 	
2.	JOINERY WORK FOR DOORS, WINDOWS AND VENTILATORS	a) Chowkhats.	Pressed steel chokhats for all doors, window, ventilators, openable and fixed glazing.	<ul style="list-style-type: none"> • Pressed steel chowkhats for all doors, window, ventilators, openable and fixed glazing. or • Pre painted/power coated Galvanised sheet for window/ventilator frames as per HSR. • Pre painted/power coated Galvanised sheet for door frames with single rebate and double rebate as per HSR. • Space for window A.C/Cooler in designated rooms to be left in window/glazing (As Specified in Drawings). 	The proposed amendment is as per requirement of present trends and the modern materials with innovative technology as well as to improve aesthetically/functional requirements.
		b) Door/Window Shutters.	<p>(i) Factory manufactured solid flush shutter with hard wood frame for floors, hard wood shutters for windows & ventilators.</p> <p>(ii) Paneled door shutters of hardwood shall be provided in toilets (with cement bonded panel inserts).</p>	<ul style="list-style-type: none"> • Pre painted/power coated Galvanised sheet for window/ventilator shutters as per HSR • Well seasoned ISI marked Windows and ventilators shall be provided with wire gauge shutters. • Wooden styles in windows and ventilators shutters shall be used for the pressed steel frames. • Panelled door shutters of hardwood shall 	The proposed amendment is as per requirement of present trends and the modern materials with innovative technology as well as to improve aesthetically/functional requirements.

		<p>c) Cupboards Shelves.</p> <p>d) Fittings.</p> <p>e) Grills</p>	<p>(i) Ferro cement R/RCC (Minimum thickness) shelves shall be provided.</p> <p>All fittings of Aluminium shall be provided ISI marked.</p> <p>Grills at ground floor, Library, Stores Computer Rooms, Labs.</p>	<p>be provided in toilets (with cement bonded panel inserts).</p> <ul style="list-style-type: none"> Doors shall be provided with wooden Flush Shutters 35mm thick ISI marked/panelled Shutters. In common/public toilets, 3" Gap shall be provided b/w Door shutters and floor. Aluminum frames & Styles with Laminated Cement Bonded Board (insert panel) ISI Marked shall be provided. Fire retardant doors shall be provided as per NBC/Fire Act. 	
3.	INTERNAL AND EXTERNAL FINISHES	a) Internal Finishes	<p>(i) Principal Room / Library / Computer Room, Teachers Common Room, Class Room, shall have oil bound distemper.</p> <p>(ii) Toilets shall be white washed.</p>	<ul style="list-style-type: none"> Walls & Ceilings of Principal Room / Library / Computer Room, Teachers Common Room, Class Room, staff room shall have oil bound distemper. Synthetic enamel paint upto 4'-6" shall be provided in corridors. 	<p>The existing specification is very old as the same was approved during the year 2009. It is required to be amended keeping in view the requirement of the present time. The initial cost due to higher specifications may be slightly more but non-maintenance quality of new propose materials will eventually cut down the cost. The cost of new propose materials will also reduce in due course of time which will also help in reduction of the cost of buildings. So, the specifications have been proposed to be amended.</p>
		b) External finishes	<p>(i) Plastered surface / Bricks facing shall have external paints as per colour scheme.</p> <p>(ii) No RCC work to be plastered, unless otherwise specified.</p>	<ul style="list-style-type: none"> Exterior paint /Grit finish / texture paint or Combination of the above as per architectural drawings. 	
4.	SOIL WASTE & RAIN WATER PIPES.	<p>a) Rain water pipes.</p> <p>b) Water supply pipes.</p>	<p>(i) All rain water pipes be laid in approachable and open able</p>	<ul style="list-style-type: none"> All rain water pipes be laid in approachable and openable ducts. PVC 	<p>The proposed amendment is minor and is requirement of</p>

		c) Soil waste pipes.	ducts. PVC should normally preferred over C.I. (ii) RWP's need not be embedded in brick walls, in general.	pipes should normally be preferred over C.I. pipes <ul style="list-style-type: none"> RWP's need not be embedded in brick walls, in general. Water supply pipes shall be of CPVC. All soil waste pipes shall preferably be PVC over CI pipes and shall be concealed in ducts. 	present time.
5.	ELECTRIC WIRING	a) Wires b) Switches c) Communication System to be adopted.	Copper wiring in concealed conduits be used. Internet ducts, Telephones/ Conduits be provided as per need of the future. In case of house T.V conduits be provided.	<ul style="list-style-type: none"> Copper wiring in concealed conduits be used. Modular switches to be used. Internet ducts, Telephones/ Conduits be provided as per need of the future. Digital Connectivity Infrastructure (DCI) shall be provided as per Chapter 7A of Haryana Building Code-2017 amended from time to time/applicable NBC 2016 Clauses. 	The specifications have been proposed as per requirement of the present time
6.	TELEPHONE & OTHER COMMUNICATIONS SYSTEM.	a) Telephone & Other	Not provided.	<ul style="list-style-type: none"> Telephone / internet / TV conduits shall be provided for need future. 	Amendment has been made as per requirement of present time.
7.	RAIN WATER HARVESTING SYSTEM.	a) Provision.	To be provided as per notification of Haryana Govt. in this regard.	<ul style="list-style-type: none"> To be provided as per notification of Haryana Govt. in this regard. 	This is required essentially as per statutory requirement.
8.	FIRE SAFETY MEASURE	a) Devices.	Fire Safety devices be provided as per provisions made in the National Building Code.	<ul style="list-style-type: none"> Fire Safety/Fire fighting arrangements as per provisions of Haryana Fire Act, Fire & Life Safety Provisions of National Building Code, 2016 amended from time to time. 	No change has been proposed
9.	SOLAR WATER HEATING SYSTEM.		As per HAREDA Guidelines.	<ul style="list-style-type: none"> As per HAREDA Guidelines. 	No change has been proposed
10.	PROVISIONS OF ENERGY CONSERVATION BUILDING CODE			<ul style="list-style-type: none"> As per Haryana Govt. Notifications issued from time to time. 	This is required essentially as per statutory requirement.
10.	PROVISIONS OF DIFFERENTLY ABLED PERSONS ACT.			<ul style="list-style-type: none"> All the provisions as per the provision of Differently Abled Persons Act. 	This is required essentially as per statutory requirement.
11.	PROVISIONS OF SOLAR PANELS.			<ul style="list-style-type: none"> As per Haryana Govt. Notifications issued from time to time/ Haryana Building Code. 	This is required essentially as per statutory requirement.

REVISED SPECIFICATIONS OF 50 BEDDED HOSPITAL AND ABOVE

Sr. No.	Items	Sub Items	Existing Specifications	Revised Specifications	Reason / Justification
1	FLOORING, DADO- SKIRTING	<p>a) Rooms & Wards</p> <p>b) Circulation Area and Staircases</p> <p>c) Counter & Face wall of lifts.</p> <p>d) Toilets/ WC/Bath and Kitchen.</p>	<p>All floors shall have Silver grey terrazzo flooring with 4" matching skirting.</p> <p>All circulation areas and stairs cases shall have Kotah stone flooring. Ceramic tiles Dado (12"x12" minimum size) upto 4'-6" height shall be provided.</p> <p>All toilets shall be provided with Kotah stone flooring (22"x22") size and shall have dado glazed tiles upto 6'-9" height.</p>	<ul style="list-style-type: none"> • Rooms & Wards- Doctor Rooms Offices, Private rooms - vitrified tiles. • Wards – Combination of Baroda Green with White Marble Stone / Granite Stone as per drawings. • 6" matching skirting shall be provided. Ceramic tiles Dado upto 4'-6" height (All Dados must be tapered and flushed with walls. • Corridors and Lobbies:- Granite stone flooring with Tac Tiles. • Staircases: - Granite Stone in all staircases. Fire escape staircase shall be finished with Baroda Green. Fire escape/Fire Tower staircase shall be finished with the combination of Baroda Green & White Marble. • Ceramic tiles Dado upto 4'-6" height shall be provided. • Granite Stone finish. • Granite stone /Anti skid tiles flooring with 7'-0" high Dado of ceramic tiles. • Attached Toilets: - Anti Skid Tiles with dado of ceramic tiles up to ceiling height. • General Toilets: - Double Charged vitrified tiles/Anti skid tiles (in public toilets) and Anti skid tiles flooring (in Divyang) with 7'-0" high Dado of ceramic tiles. 	<p>The existing specifications are very old as the same was approved during the year 2009. These are required to be upgraded/amended by providing vitrified tileskeeping in view the requirement of the modern trends, aesthetically beautiful, easy to lay and low maintenance with various colors and size options. There is a color variation and discoloration in kota stone. Further there is a limitation with regard to the size of the stone available in the market whereas various color options/verities are available in the granite stone with a flexibility of size of stone which has been proposed in the new specifications.</p>

				<ul style="list-style-type: none"> • Hospital Kitchen shall have Granite stone flooring and dado of ceramic tiles upto ceiling height. Worktop shall be granite stone/Stainless steel work counters shall be provided as per consultant advice (commercial kitchen). • Provision of false ceiling of water proof tiles/powder coated perforated M.S. grid tiles shall be made. 	
		e) Operation Theatre	Shall be provided Vitrified tiles flooring (2'x2' minimum size) with ceramic tiles bigger size/ Stainless steel Dado upto ceiling.	<p>Guidelines contained in National Accreditation Board for Hospitals and Health care Providers (NABH) for all civil work shall be followed as under:-</p> <ul style="list-style-type: none"> • Flooring of OT should be made with 2mm thick antistatic PVC Roll/Tile/Epoxy coating. The floor finish should pass over a concealed cove former and continue upto the wall upto 10mm. • OT wall/ Metallic Panel coated with antibacterial/Epoxy Painting by 300 micron thickness shall be provided on all walls. • All the walls & ceiling junctions shall be rounded off. The ceiling shall be provided with cement plastered & shall be painted with synthetic enamel or epoxy paint. • Modular operation theaters wall and ceiling panel shall have stainless steel (SS-304)/EGP/SMS. • Door preferably shall be Automatic Hermetically sealed sliding door of HPL board with vision panel-300 x 300mm for Modular OT/Major OT and Double leaf hinge typed flushed door of PCGI/SS-304 material with vision panel-300 x 300mm for Major OT/Normal OT/Minor OT. Double Leaf. 	

				<ul style="list-style-type: none"> • The beams inside the OT should be avoided. • Windows should be flushed to inside wall of OT. • No sewage/fire pipe/Sprinkler etc. should be inside. • Copper grounding strip (0.05 thick, 50mm width) should be laid flat on the floor the • Conductive adhesive and connect to copper wire of grounding. One earthing copper lead should be brought out of from every 150 Sq. ft. area and attaching it to main earnings copper strip/ground. 	
		f) Ramps	<ul style="list-style-type: none"> i) Chequered tiles/Red sand stone flooring. ii) Side walls shall have synthetic enamel paint dado upto 4'-6" height. 	<ul style="list-style-type: none"> • Ramp shall be provided with Coloured chequered tiles flooring. • Side walls of ramp shall have ceramic tiles dado upto 4'-6" height. • MS/SS Pipe railings shall be provided at 80cm and 90cm level as per differently Abled Act. 	
		g) Basement	-	<ul style="list-style-type: none"> • Cement Concrete flooring/unpolished Kotah Stone of sufficient thickness for vehicular traffic movement. For storage and services areas in basement shall have Kota Stone/Baroda Green flooring. 	
		h) Open terraces & Roof terrace	-	<ul style="list-style-type: none"> • Finished with Kotah Stone. • For roof terrace heat resistant tiles with epoxy joint. 	
		i) Machine Room		<ul style="list-style-type: none"> • Unpolished Kotah Stone flooring as per structural requirements. 	
		j) Entrance Columns		<ul style="list-style-type: none"> • Granite Stone (medium range) / Tiles Finish. 	
		k) X-ray, MRI, Ultra Sound, ECG, CT scan etc.,		<ul style="list-style-type: none"> • 600x600mm& 800x800mm double charged vitrified tiles/ Antistatic PVC flooring with ceramic tiles Dado upto 4'x6" in ECG, CT 	

				Scan, MRI, Ultra Sound and X-ray Rooms.	
		l) Railing		<ul style="list-style-type: none"> Stainless Steel/M.S. railing as per architectural drawings. 	
		m) Emergency Area		<ul style="list-style-type: none"> Granite Stone (medium range) flooring with Dado upto 7'-0" high ceramic tiles 	
		n) Balconies / Verandahs and terraces	-	<ul style="list-style-type: none"> All Balconies/Verandahs shall have Baroda green. All terraces except roof terraces shall have Kota stone. Roof terraces shall have heat resistance tiles. 	
		o) Laboratories	<p>i) All walls of Laboratories shall be provided with ceramic tiles 8"x12" minimum size dado upto 5"-3" height.</p> <p>(ii) Ceiling of laboratories shall be painted with oil bound distemper of approved shade.</p> <p>iii) The worktops shall be finished with acid proof tiles.</p> <p>iv) Flooring 2'-0" x2'-0" minimum size vitrified tiles.</p>	<ul style="list-style-type: none"> Flooring/walls/worktops shall be finished with acid proof tiles/as per the guidelines of NABL. All walls of Laboratories shall be provided with Acid proof tiles upto 7'-0" height. Ceiling of laboratories shall be painted with oil bound distemper off white. 	
		p) Enquiries/ Registration counters.	Shall have granite stone.	<ul style="list-style-type: none"> Enquiries/Registration/Nurses counters shall be finished Granite Stone (medium range). 	
		q) Driveway Parking	-	<ul style="list-style-type: none"> Gate to Porch- PCC/ Pavers Parking- Pavers/ Green Pavers/PCC as per Architectural Drawings. 	
		r) Specialized Patient Areas	-	<ul style="list-style-type: none"> Material Specifications of Flooring & Dado of the Specialized Patient areas like ICU, SNCU, NICU, HDU, BLOOD BANK etc. shall be as per the guidelines of NABH and as per the requirement of Client/Health Department. 	
2	JOINERY WORK FOR DOORS, WNDOWS AND	a) Frames	All door and windows shall have pressed steel frames with standard steel sections as per detailed drawings.	<ul style="list-style-type: none"> External:- For Building less than 15 mtr. Height- All frames of Aluminum / UPVC /pressed steel frames 	The proposed amendment is as per requirement of present trends and the modern

	VENTILATORS			<p>sections (As specified on the drawings).</p> <p style="text-align: center;">or</p> <ul style="list-style-type: none"> • Pre painted/power coated Galvanised sheet for window/ventilator frames as per HSR with Pre painted/powder coated Galvanised sheet for window/ ventilator shutters as per HSR. • Pre painted/power coated Galvanised sheet for door frames with single rebate and double rebate as per HSR. • For the Buildings more than 15 mtrs height. pressed steel frame/aluminum frames/G.I. Frames shall be provided and where the Double glazed units are to be provided as per advice of the ECBC consultant then the joinery of UPVC / G.I. / Complete Aluminum system with Aluminum Hardware and accessories of their own Make shall be provided or as provided in architectural drawings. <p style="text-align: center;">or</p> <ul style="list-style-type: none"> • Pre painted/power coated Galvanised sheet for window/ventilator frames as per HSR with Pre painted/power coated Galvanised sheet for window/ventilator shutters as per HSR. • Pre painted/power coated Galvanised sheet for door frames with single rebate and double rebate as per HSR. • Provision of Structure Glazing as specified on the drawings. • Space for window A.C/Cooler in designated rooms to be left in window/glazing (As specified in Drgs.). 	materials with innovative technology as well as to improve aesthetically/functional requirements.
		b) Door / Window Shutters	Shutters for all doors be 35 mm thick flush shutters ISI Marked. Shutters for cupboard shall be 25 mm thick ISI	<ul style="list-style-type: none"> • Pre painted/power coated Galvanised sheet for window/ventilator shutters as per HSR 	The proposed amendment is as per requirement of present trends and the modern

			<p>Marked flush shutters.</p> <p>ii) In toilets – paneled shutters with 12 mm thick panels of cement bonded water proof particle board shall be provided. With floor clearance of 3”.</p>	<ul style="list-style-type: none"> • Doors, Windows and ventilators shall be provided with wire gauge shutters. • Lead Lining in the Joinery of Rooms like X-Ray, CT-Scan, Interventional Radiology, Mammography etc. shall be provided as per the AERB Guidelines. • Wooden styles in windows and ventilators shutters shall be used for the pressed steel frames. • UPVC/Aluminum/G.I. styles in windows and ventilators shutters shall be provided for the joinery of UPVC/Aluminum respectively. • Well seasoned ISI marked commercial hardwood flush shutters for doors. • In toilets, 3” Gap shall be provided b/w Door shutters and floor. Aluminum frames & Styles with Laminated Cement Bonded Board (insert panel) ISI Marked shall be provided. • Cupboard shutter shall be 25mm thick ISI marked flush shutters with pressed steel frames. Shelves in the cupboards shall be of Granite Stone (medium range) with M.S. angle iron. • Fire retardant doors shall be provided as per NBC/Fire Act. 	<p>materials with innovative technology as well as to improve aesthetically/functional requirements.</p>
		c) Fittings	Heavy duty anodized aluminum fittings. ISI marked.	<ul style="list-style-type: none"> • Heavy duty Aluminum fittings. ISI marked. 	
		d) Grills	Grills shall be provided to the windows and ventilators for security at G.F. only.	<ul style="list-style-type: none"> • Grills shall be provided in all floors. 	
		e) Operation Theatre Joinery	Aluminum frames with standard sections after detailed drawings.	<ul style="list-style-type: none"> • Aluminum frames with standard sections or as per NABH guide lines as per detailed drawings. 	

3	INTERNAL AND EXTERNAL FINISHES	a) Internal walls/ ceiling etc.	Plastered and Oil Bound Distemper. Once in two year.	<ul style="list-style-type: none"> Plaster and finished with plastic emulsion paint. Fire retardant paint with two hour fire rating shall be provided. 	The proposed amendment is as per requirement of present trends and the modern materials with innovative technology as well as to improve aesthetically/functional requirements.
		b) Toilets	White wash	<ul style="list-style-type: none"> Plastic emulsion paints of approved shade on walls & ceiling. 	
		c) Corridors	White washed	<ul style="list-style-type: none"> Plastic emulsion paints of approved shade on walls & ceiling. 	
		d) Operation Theatres.	In operation theatre, all the walls & ceiling junctions shall be rounded off. The ceiling shall be provided with cement plastered & shall be painted with synthetic enamel or epoxy paint.	<ul style="list-style-type: none"> As mentioned above and as per NABH guidelines. 	
		External Finishing e) External Surface.	Brick/exposed concrete/Plastering Grit finish/Stone cladding	<ul style="list-style-type: none"> Dry Stone cladding/ACP/HPL on the 20% of all facade surface area with the combination of Textured paint / Grit finish/Exterior Paint/Structural Glazing or Combination of the above as per the architectural drawings. 	The existing external finishing are very old, are out of trends and require periodically maintenance very frequently. The proposed upgraded/amended specifications are low maintenance and are in consonance with the provision made in the Haryana Building Code, 2017.
		f) Joinery etc.	All doors and cupboard shutters, wood work. Joinery sections, railing etc. shall be	<ul style="list-style-type: none"> All doors / windows / ventilators / cupboards frames, shutters, wood work. MS Railings 	

			finished with first quality synthetic enamel paint as per colour scheme.	etc. shall be finished with first quality enamel paint as per colour scheme.	
4.	SOIL WASTE & RAIN WATER PIPES,	a) Rain water pipes b) Water supply pipes c) Soil waste pipes	All rain water pipes shall be concealed in ducts All soil waste pipe shall be concealed in ducts	<ul style="list-style-type: none"> All rain water pipes be laid in approachable and openable ducts. PVC pipes should normally be preferred over C.I. pipes RWP's need not be embedded in brick walls, in general. Water supply pipes shall be of CPVC. All soil waste pipes shall preferably be PVC over CI pipes and shall be concealed in ducts. 	The proposed amendment is minor and is requirement of present time
5.	GAS PIPE LINE	c) Pipe line	Not specified	<ul style="list-style-type: none"> Hospital Gas pipe line should be provided in the Operation Theatres/wards/whereas required as per latest standards or as per IPHS guidelines. 	This is required essentially as per statutory requirement
6.	ELECTRIC WIRING /FITTINGS	a) Wires b) Switches c) Communication System to be adopted.	Copper wiring in concealed conduits be used.	<ul style="list-style-type: none"> Copper wiring in concealed conduits be used. Modular switches to be used. Internet ducts, Telephones/ Conduits be provided as per need of the future. Digital Connectivity Infrastructure (DCI) shall be provided as per Chapter 7A of Haryana Building Code-2017 amended from time to time/applicable NBC 2016 Clauses. 	The specifications have been proposed as per requirement of the present time and modern trends considering the various electrical innovative applications/appliances are now being provided.
		d) Glow sign.	Provision for glow sign be made.	<ul style="list-style-type: none"> Provision for glow signage be made. 	
7.	RAIN WATER HARVESTING SYSTEM.	Provision	As per HR. Govt. Notification.	<ul style="list-style-type: none"> To be provided as per notification of Haryana Govt. in this regard. 	This is required essentially as per statutory requirement
8.	FIRE SAFETY MEASURES	Devices	-	<ul style="list-style-type: none"> Fire Safety/Fire fighting arrangements as per provisions of Haryana Fire Act, Fire & Life Safety Provisions of National Building Code, 2016 amended from time to time. 	This is required essentially as per statutory requirement
9.	SOLAR WATER HEATING SYSTEM		As per HAREDA guidelines	<ul style="list-style-type: none"> As per HAREDA guidelines 	No change has been proposed
10.	Provision of		-	<ul style="list-style-type: none"> As per Haryana Government Notifications 	This is mandatorily required as per the provisions made in

	Energy Conservation Building Code			issued from time to time.	Haryana Building Code, 2017 as amended from time to time.
11.	Provisions of differently abled persons Act.			<ul style="list-style-type: none"> All the provisions as per the provision of Differently Abled Persons Act. 	This is mandatorily required as per the provisions made in Haryana Building Code, 2017 as amended from time to time.
12.	Provisions of Solar Panels.			<ul style="list-style-type: none"> As per Haryana Govt. Notifications issued from time to time/ Haryana Building Code. 	This is mandatorily required as per the provisions made in Haryana Building Code, 2017 as amended from time to time.
13.	Provisions of False ceiling		-	<ul style="list-style-type: none"> Requirement and Material Specifications of False Ceiling shall be as per the requirement of Client/Health Department. 	

REVISED SPECIFICATIONS OF DISPENSARY/SHC/PHC/CHC/BPHU/POLYCLINIC

Sr.No.	Items	Sub Items	Existing Specifications	Revised Specifications	Reason / Justification
1.	FLOORING, DADO-SKIRTING	a) Rooms b) Circulation Area and Stairs. c) Toilets/WC/ Bath & Kitchen	All floors shall have Silver grey terrazzo flooring with 4" matching skirting. All circulation areas and stairs cases shall have Kotah stone flooring. Ceramic tiles Dado (12"x12" minimum size) upto 4'-6" height shall be provided. All toilets shall be provided with Kotah stone flooring (22"x22") size and shall have dado glazed tiles upto 6'9" height.	<ul style="list-style-type: none"> • Vitrified tiles in all Rooms shall have flooring with 4" matching skirting. • Corridors and Lobbies:-Combination of Baroda green & white Marble stone flooring/Granite Stone with Tac tiles. • Staircases:- Baroda Green with white Marble/Granite Stone. • Fire escape staircase shall be finished with Baroda Green with white Marble. • Ceramic tiles Dado upto 4'-6" height shall be provided. • Attached Toilets: - Anti Skid Tiles with dado of ceramic tiles up to ceiling height. • General Toilets: - Double Charged vitrified tiles/Anti skid tiles (in public toilets) and Anti skid tiles flooring (in Divyang) with 7'-0" high Dado of ceramic tiles. • Kitchen- Granite Stone Top. • Provision of false ceiling of water proof tiles/powder coated perforated M.S. grid tiles shall be made. 	The existing specifications are very old as the same was approved during the year 2009. These are required to be upgraded/amended by providing vitrified tiles keeping in view the requirement of the modern trends, aesthetically beautiful, easy to lay and low maintenance with various colors and size options. There is a color variation and discoloration in kota stone. Further there is a limitation with regard to the size of the stone available in the market whereas various color options/verities are available in the granite stone with a flexibility of size of stone which has been proposed in the new specifications.
		d) Operation Theatre	Shall be provided Vitrified tiles flooring (2'x2' minimum size) with ceramic tiles bigger size/ Stainless steel Dado upto ceiling.	<ul style="list-style-type: none"> • Guidelines contained in National Accreditation Board for Hospitals and Health care Providers (NABH) for all civil work shall be followed as under:- • Flooring of OT should be made with 2mm thick antistatic PVC Roll/Tile/Epoxy coating. The floor finish should pass over a concealed cove former and continue up the wall upto 10mm. • OT wall/ Metallic Panel coated with antibacterial Epoxy Painting of 300 micron thickness shall be provided. 	

				<ul style="list-style-type: none"> • Wall and ceiling panel shall have stainless steel (SS-304)/EGP/SMS. • Door preferably shall be Automatic Hermetically sealed sliding door of HPL board with vision panel-300 x 300mm for Modular OT/Major OT and Double leaf hinge typed flushed door of PCGI/SS-304 material with vision panel-300 x 300mm for Major OT/Normal OT/Minor OT. Double Leaf. • The beams inside the OT should be avoided. • OT windows should be flushed with inside wall of OT. • No sewage/fire pipe/Sprinkler etc. should be inside. • Copper grounding strip (0.05 thick, 50mm width) should be laid flat on the floor I the conductive adhesive and connect to copper wire of grounding. One earthling copper lead should be brought out of from every 150 Sq. ft. area and attaching it to main earnings copper strip/ground. 	
		e) Ramps	<ul style="list-style-type: none"> i) Chequered tiles/Red sand stone flooring. ii) Side walls shall have synthetic enamel paint dado upto 4'-6" height. 	<ul style="list-style-type: none"> • Ramp shall be provided with chequered tiles flooring. • Side walls shall have ceramic tiles dado upto 4'-6" height. • MS Pipe railings shall be provided at 80cm and 90cm level as per Differently Abled Act. 	

		f) Basement	-	<ul style="list-style-type: none"> • Cement Concrete flooring/unpolished Kotah Stone of sufficient thickness for vehicular traffic movement. For storage and services areas in basement shall have Kota Stone/Baroda Green flooring. • Finished with Kotah Stone. • For roof terrace, heat resistant tiles with epoxy joints. 	
		g) Open terraces & roof terrace	-		
		h) Laboratories	<p>i) All walls of Laboratories shall be provided with ceramic tiles 8"x12" minimum size dado upto 5"-3" height.</p> <p>(ii) Ceiling of laboratories shall be painted with oil bound distemper of approved shade.</p> <p>iii) The workshops shall be finished with acid proof tiles.</p> <p>iv) Flooring 2'-0" x2'-0" minimum size vitrified tiles.</p>	<ul style="list-style-type: none"> • Flooring/walls/worktops shall be finished with acid proof tiles/as per the guidelines of NABH. • All walls of Laboratories shall be provided with Acid proof tiles upto 7'-0" height. 	
		i) Enquiries/Registration counters.	Shall have granite stone.	<ul style="list-style-type: none"> • Shall have granite stone. 	
2.	JOINERY WORK FOR DOORS, WNDOWS AND VENTILATRS	a) Frames	All door and windows shall have pressed steel frames with standard steel sections as per detailed drawings.	<ul style="list-style-type: none"> • External:- • For Building less than 15 mtr. Height- All frames of Aluminum / UPVC /pressed steel frames sections (As specified on the drawings). or • Pre painted/power coated Galvanised sheet for window/ventilator frames as per HSR with Pre painted/powder coated Galvanised sheet for window/ ventilator shutters as per HSR. • Pre painted/power coated Galvanised sheet for door frames with single rebate and double rebate as per HSR. 	The proposed amendment is as per requirement of present trends and the modern materials with innovative technology as well as to improve aesthetically/functional requirements.

				<ul style="list-style-type: none">• For the Buildings more than 15 mtrs height. pressed steel frame/aluminum frames/G.I. Frames shall be provided and where the Double glazed units are to be provided as per advice of the ECBC consultant then the joinery of UPVC / G.I. / Complete Aluminum system with Aluminum Hardware and accessories of their own Make shall be provided or as provided in architectural drawings. or• Pre painted/power coated Galvanised sheet for window/ventilator frames as per HSR with Pre painted/power coated Galvanised sheet for window/ventilator shutters as per HSR.• Pre painted/power coated Galvanised sheet for door frames with single rebate and double rebate as per HSR. <p>Provision of Structure Glazing as specified on the drawings.</p> <p>Space for window A.C/Cooler in designated rooms to be left in window/glazing (As specified in Drgs.).</p>	
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		b) Door / Window Shutters	<p>f) Shutters for all doors be 35 mm thick flush shutters ISI Marked. Shutters for cupboard shall be 25 mm thick ISI Marked flush shutters.</p> <p>i) In toilets – paneled shutters with 12 mm thick panels of cement bonded water proof particle board shall be provided. With floor clearance of 3”.</p>	<ul style="list-style-type: none"> • Pre painted/power coated Galvanised sheet for window/ventilator shutters as per HSR • Shutters for all doors shall be 35 mm thick flush shutters ISI Marked. • Windows and ventilators shall be provided with wire gauge shutters. • Wooden styles in windows and ventilators shutters shall be used for the pressed steel frames. • Jali (Mesh) shutters shall be provided to all external doors/windows/ventilators. • Cupboard shutter shall be 25mm thick ISI marked flush shutters with pressed steel frames. Shelves in the cupboards shall be of Granite Stone (medium range) with M.S. angle iron. • In common/public toilets, 3” Gap shall be provided b/w Door shutters and floor. Aluminum frames & Styles with Laminated Cement Bonded Board (insert panel) ISI Marked shall be provided. • Doors shall be provided with wooden Flush Shutters 35mm thick ISI marked/ panelled Shutters. • Fire retardant doors shall be provided as per Fire Act. • Heavy duty aluminium/ SS fittings. ISI marked. 	The proposed amendment is as per requirement of present trends and the modern materials with innovative technology as well as to improve aesthetically/functional requirements.
3.	GRILLS	<p>a) Grills.</p> <p>b) Operation Theatre.</p>	<p>Heavy duty anodized aluminium fittings. ISI marked.</p> <p>Grills shall be provided at ground floor and at upper floor wherever public interface exists. Record rooms and treasuries to be provided with grills.</p> <p>Aluminum frames with standard sections after detailed drawings.</p>	<ul style="list-style-type: none"> • Grills shall be provided at ground floor and at upper floor wherever public interface exists. Record rooms and treasuries to be provided with heavy duty grills. • Aluminum frames with standard sections as per detailed drawings or NABH guidelines. 	The proposed amendment is as per requirement of present trends with innovative technology as well as to improve aesthetically /functional requirements.

4.	INTERNAL AND EXTERNAL FINISHES	a) Internal walls/ ceiling etc. b) Operation Theatres. c) Joinery etc.	Plastered and Oil Bound Distemper. Once in two year. In operation theatre, all the walls & ceiling junctions shall be rounded off. The ceiling shall be provided with cement plastered & shall be painted with synthetic enamel or epoxy paint.	<ul style="list-style-type: none"> Plastered and Oil Bound Distemper. In operation theatre, all the walls & ceiling junctions shall be rounded off. The ceiling shall be provided with cement plaster& shall be painted with synthetic enamel or epoxy paint. 	The proposed amendment is as per requirement of present trends and the modern materials with innovative technology as well as to improve aesthetically/functional requirements.
		d) External Finish	All doors and cupboard shutters, wood work. Joinery sections, railing etc. shall be finished with first quality synthetic enamel paint as per colour scheme.	<ul style="list-style-type: none"> All doors/windows/ventilators/cupboards frames, shutters, wood work, railings etc. shall be finished with first quality synthetic enamel paint as per colour scheme. Combination of Textured paint / Grit finish/Exterior Paint/Structural Glazing or Combination of the above as per the architectural drawings. 	The existing external finishing are very old, are out of trends and require periodically maintenance very frequently. The proposed upgraded/amended specifications are low maintenance and are in consonance with the provision made in the Haryana Building Code, 2017.
5.	SOIL WASTE & RAIN WATER PIPES.	a) Rain water pipes b) Water supply pipes. c) Soil waste pipes.	(i) All rain water pipes be laid in approachable and open able ducts. PVC should normally preferred over C.I. (ii) RWP's need not be embedded in brick walls, in general.	<ul style="list-style-type: none"> All rain water pipes be laid in approachable and openable ducts. PVC pipes should normally be preferred over C.I. pipes RWP's need not be embedded in brick walls, in general. Water supply pipes shall be of CPVC. All soil waste pipes shall preferably be PVC over CI pipes and shall be concealed in ducts. 	The proposed amendment is minor and is requirement of present time
6.	ELECTRIC WIRING/ FITTINGS	a) Wires b) Switches c) Communication System to be adopted.	Copper wiring in concealed conduits be used. Internet ducts, Telephones/ Conduits be provided as per need of the future. In case of house T.V conduits be provided.	<ul style="list-style-type: none"> Copper wiring in concealed conduits be used. Modular switches to be used. Internet ducts, Telephones/ Conduits be provided as per need of the future. Digital Connectivity Infrastructure (DCI) shall be provided as per Chapter 7A of Haryana Building Code-2017 amended from time to 	The specifications have been proposed as per requirement of the present time and modern trends considering the various electrical innovative applications/appliances are now being provided.

				time/applicable NBC 2016 Clauses.	
		d) Glow sign.	Provision for glow sign be made.	<ul style="list-style-type: none"> Provision for glow sign be made. 	
7.	FIRE SAFETY MEASURE	a) Devices.	Fire Safety devices be provided as per provisions made in the National Building Code.	<ul style="list-style-type: none"> Fire Safety/Fire fighting devices/equipments be provided as per provisions made in the National Building Code. 	The provisions have been proposed as per the various Codal provisions mandatorily required..
8.	RAIN WATER HARVESTING.	a) Provision.	To be provided as per notification of Haryana Govt. in this regard.	<ul style="list-style-type: none"> To be provided as per notification of Haryana Govt. in this regard. 	This is required essentially as per statutory requirement.
9.	GAS PIPE LINE	Pipe Line	Gas pipe line shall be provided in the operation theatre.	<ul style="list-style-type: none"> Gas pipe line shall be provided in the operation theatre as per NABH. 	This is required essentially as per statutory requirement
10.	SOLAR WATER HEATING SYSTEM.		As per HAREDA Guidelines.	<ul style="list-style-type: none"> As per HAREDA Guidelines. 	No change has been proposed.
11.	Provisions of Energy Conservation Building Code		-	<ul style="list-style-type: none"> As per Haryana Govt. Notifications issued from time to time. 	This is mandatorily required as per the provisions made in Haryana Building Code, 2017 as amended from time to time.
12.	Provisions of different be abled persons Act.			<ul style="list-style-type: none"> All the provisions as per the provision of Differently Abled Persons Act. 	This is mandatorily required as per the provisions made in Haryana Building Code, 2017 as amended from time to time..
13.	Provisions of Solar Panels.			<ul style="list-style-type: none"> As per Haryana Govt. Notifications issued from time to time/ Haryana Building Code. 	This is mandatorily required as per the provisions made in Haryana Building Code, 2017 as amended from time to time.
14.	Provisions of False ceiling		-	<ul style="list-style-type: none"> Requirement and Material Specifications of False Ceiling shall be as per the requirement of Client/Health Department. 	

REVISED SPECIFICATIONS OF SUBORDINATE REST HOUSE

Sr. No.	Items	Sub Items	Existing Specifications	Revised Specifications	Reason / Justification
1.	FLOORING, DADO-SKIRTING	<p>a) Rooms, Dormitories, Dining Hall, Circulation spaces, verandahs/Balconies, passages etc.</p> <p>b) Sweepers, Chowkidars rooms and garages etc.</p>	<p>All rooms, dormitories, dining halls and kitchen blocks shall have silver grey terrazzo flooring with 4" high matching skirting.</p> <p>i) Conglomerate flooring in rooms of sweepers, chowkidars, guards and garages with 4"high matching skirting.</p>	<ul style="list-style-type: none"> • All rooms, dormitories, dining halls and kitchen blocks shall have combination of Baroda Green & Marble flooring with Tac Tiles as per Architectural Drawings. • Circulation spaces, verandahs /Balconies, passages shall have combination of Baroda Green & white Marble flooring/Granite Stone with Tic Tac Tiles and 4" high skirting. • Fire escape/Fire Tower staircase shall be finished with the combination of Baroda Green & White Marble. • Combination of Baroda Green & White Marble flooring in rooms of sweepers, Chowkidars, guards with 4" high matching skirting. • Paver blocks/ Paver tiles/Kotah Stone flooring in garages. 	<p>The existing specifications are very old as the same was approved during the year 2009. These are required to be upgraded / amended by providing vitrified tiles keeping in view the requirement of the modern trends, aesthetically beautiful, easy to lay and low maintenance with various colors and size options.</p> <p>There is a color variation and discoloration in kota stone. Further there is a limitation with regard to the size of the stone available in the market whereas various color options/verities are available in the granite stone with a flexibility of size of stone which has been proposed in the new specifications.</p>
		<p>d) Toilets</p> <p>e) Kitchen</p> <p>f) Porch/Driveway/Ramp/Parking</p> <p>g) Basement</p>	<p>Toilets shall have ceramic tile flooring with 6'-9" height dado of glazed tiles. Kitchen working top-Baroda Green / Kotah stone flooring / Glazed Tiles upto 6'-9"</p>	<ul style="list-style-type: none"> • Double charged vitrified tiles or anti skid tiles (in public toilets) and Anti skid tiles flooring (in divyang & officers toilets) with 7'-0" high Dado of ceramic tiles. • Kitchen working top- Granite, Granite (Medium Range) flooring with 7'-0" high Dado of ceramic tiles • Cobble Stone /PCC/Coloured chequered tiles/Interlocking pavers or Green pavers of sufficient thickness for vehicular traffic movement. • Cement Concrete flooring /unpolished Kotah Stone of 	

		h) Open terraces i) Roof Terrace		<p>sufficient thickness for vehicular traffic movement. For storage and services areas in basement shall have Kota Stone/Baroda Green flooring.</p> <ul style="list-style-type: none"> • Kotah Stone flooring. • Heat Resistant Tiles with epoxy joint 	
2.	JOINERY WORK FOR DOORS, WINDOWS AND VENTILATORS	b) Frames.	Chowkhats of standard steel sanctions for openable and fixed steel windows, ventilators and glazing.	<ul style="list-style-type: none"> • Chowkhats of Pressed steel for openable and fixed windows, ventilators and glazing. or • Pre painted/power coated Galvanized sheet for window/ventilator frames as per HSR • Pre painted/powder coated Galvanized sheet for door frames with single rebate and double rebate as per HSR. • For the Buildings where the Double glazed units are to be provided as per advice of the ECBC consultant then the joinery of UPVC / Aluminum/ G.I. shall be provided. • Space for window A.C/Cooler in designated rooms to be left in window/glazing (As specified in Drgs.). 	The proposed amendment is as per requirement of present trends and the modern materials with innovative technology as well as to improve aesthetically/functional requirements.
		a) Doow/Window Shutters	<p>i) All joinery shall have pressed steel, Chowkhats.</p> <p>ii) The shutters for doors, ventilators, windows shall be in hard wood. Doors shall</p>	<ul style="list-style-type: none"> • Pre painted/powder coated Galvanized sheet for window/ventilator shutters as per HSR • Windows and ventilators shall be provided with wire gauge shutters. 	The proposed amendment is as per requirement of present trends and the modern materials with innovative technology as well as to improve

			have solid flush shutters. ISI marked.	<ul style="list-style-type: none"> • Wooden styles in windows and ventilators shutters shall be used for the pressed steel frames. • UPVC/Aluminum/G.I. styles in windows and ventilators shutters shall be provided for the joinery of UPVC/Aluminum/G.I. respectively. • Doors shall be provided with wooden Flush Shutters 35mm thick ISI marked/ panelled Shutters. • In common/public toilets, 3" Gap shall be provided b/w Door shutters and floor. Aluminum frames & Styles with Laminated Cement Bonded Board (insert panel) ISI Marked shall be provided. • Fire retardant doors shall be provided as per NBC/Fire Act. 	aesthetically/functional requirements.
		<p>c) Fittings</p> <p>d) Cupboards</p> <p>e) Grills</p> <p>f) Railings</p>	<p>Doors and Windows fitting shall be of Aluminum. ISI marked.</p> <p>Ferro cement / RCC shelves in cupboards shall be provided.</p> <p>Grills at ground floor only. At upper floor wherever required.</p>	<ul style="list-style-type: none"> • Doors and Windows fitting shall be of Aluminum/ SS. ISI marked. • Ferro cement / RCC shelves in cupboards shall be provided. • MS Grills on ground floors. MS Grills on upper floors shall be provided wherever required. • Stainless Steel/M.S. railing as per architectural drawings. 	

3.	INTERNAL AND EXTERNAL FINISHES	a) Internal wall ceiling.	i) All internal walls shall have oil bound distemper in Rooms, dormitories, Halls and rest shall be white washed. ii) Joinery to be painted with synthetic enamel paint of approved shade.	<ul style="list-style-type: none"> All internal walls & Ceilings shall have oil bound distemper in Rooms, dormitories, Halls and rest shall be white washed. Joinery to be painted with synthetic enamel paint of approved shade. 	The proposed amendment is as per requirement of present trends and the modern materials with innovative technology as well as to improve aesthetically/functional requirements.
		b) External Surfaces	i) Plastered / Grit finished painted with appropriate external paint. ii) No RCC work is to be plastered, unless otherwise specified and shall have smooth finish.	<ul style="list-style-type: none"> Grit finish/External Paint/Texture Paints or Combination of the above as per the architectural Drawings. No RCC work is to be plastered, unless otherwise specified and shall have smooth finish. 	The existing external finishing are very old, are out of trends and require periodically maintenance very frequently. The proposed upgraded/amended specifications are low maintenance and are in consonance with the provision made in the Haryana Building Code, 2017
4.	SOIL WASTE & RAIN WATER PIPES.	a) Rain water pipes/water supply pipes/soil waste pipes	(i) All rain water pipes be laid in approachable and open able ducts. PVC should normally preferred over C.I. (ii) RWP's need not be embedded in brick walls, in general.	<ul style="list-style-type: none"> All rain water pipes be laid in approachable and openable ducts. PVC pipes should normally be preferred over C.I. pipes RWP's need not be embedded in brick walls, in general. Water supply pipes shall be of CPVC. All soil waste pipes shall preferably be PVC over CI pipes and shall be concealed in ducts. 	The proposed amendment is minor and is requirement of present time
5.	ELECTRIC WIRING/ FITTINGS	a) Wires b) Switches c) Communication System to be adopted.	Copper wiring in concealed conduits be used. Internet ducts, Telephones/ Conduits be provided as per need of the future. In case of house T.V conduits be provided.	<ul style="list-style-type: none"> Copper wiring in concealed conduits be used. Modular switches to be used. Internet ducts, Telephones/ Conduits be provided as per need of the future. Digital Connectivity Infrastructure (DCI) shall be provided as per Chapter 7A of Haryana Building Code-2017 amended from time to 	The specifications have been proposed as per requirement of the present time and modern trends considering the various electrical innovative applications/appliances are now being provided.

				time/applicable NBC 2016 Clauses.	
6.	FIRE SAFETY MEASURE	a) Devices.	Fire Safety devices be provided as per provisions made in the National Building Code.	<ul style="list-style-type: none"> • Fire Safety/Fire fighting arrangements as per provisions of Haryana Fire Act, Fire & Life Safety Provisions of National Building Code, 2016 amended from time to time. 	The provisions have been proposed as per the various Codel provisions mandatorily required.
7.	RAIN WATER HARVESTING.	a) Provision.	To be provided as per notification of Haryana Govt. in this regard.	<ul style="list-style-type: none"> • To be provided as per notification of Haryana Govt. in this regard. 	This is required essentially as per statutory requirement
8.	SOLAR WATER HEATING SYSTEM.		As per HAREDA Guidelines.	<ul style="list-style-type: none"> • As per HAREDA Guidelines. 	No change has been proposed
9.	Provisions of Energy Conservation Building Code		-	<ul style="list-style-type: none"> • As per Haryana Govt. Notifications issued from time to time. 	This is mandatorily required as per the provisions made in Haryana Building Code, 2017 as amended from time to time.
10.	Provisions of Differently Abled Persons Act.			<ul style="list-style-type: none"> • All the provisions as per the provision of Differently Abled Persons Act. 	This is mandatorily required as per the provisions made in Haryana Building Code, 2017 as amended from time to time.
11.	Provisions of Solar Panels.			<ul style="list-style-type: none"> • As per Haryana Govt. Notifications issued from time to time/ Haryana Building Code. 	This is mandatorily required as per the provisions made in Haryana Building Code, 2017 as amended from time to time.

REVISED SPECIFICATIONS OF JAILS IN THE STATE OF HARYANA

Sr.No	Items	Sub Items	Existing Specifications	Revised Specifications
1.	FLOORING, DADO-SKIRTING	a) Administrative Building, Corridors Circular area.	Kotah stone with 4" high dado	Kotah/Baroda Green + White Marble/Granite Stone flooring. All officers rooms (Class I & Class II) shall have vitrified tile & 4" matching skirting. Conference, Court Room and Audio visual Room shall have vitrified tiles/Baroda Green Flooring. Armory pit shall have plain cement concrete flooring.
		b) All Rooms, Hall, Sleeping berth in Barracks.	Grey Terrazzo flooring with 3" high skirting	Baroda Green Marble/Granite Stone on sleeping berth in barracks. Corridor and cutout shall have Kotah Stone with mosaic strip.
		c) Kitchen / Dinning Hall, Toilets. d) Open Terrace	Kotah stone flooring with 3"high skirting	Kotah stone/Baroda Green/Granite flooring with glazed tiles dado up to 5'-0"/7'-0" high. Heat Resistant Tiles with epoxy joint filling.
2.	JOINERY WORK FOR DOORS WINDOWS AND VENTILATORS.	a) Admn. Building	Pressed steel chowkhats for all doors window ventilators and shutter of hard wood.	Pressed steel/Aluminum/UPVC chowkhats for all doors, windows, ventilators and shutters of hard wood, openable and fixed with glazing.
		b) All Other Building	Grilled window ventilator with heavy duty MS flats	Grilled window ventilator with heavy duty MS flats.
3.	INTERNAL AND EXTERNAL FINISHES	a) Internal finishes	All internal walls and ceiling to be cement plastered and white washed.	All internal walls shall have oil bound distemper.
		b) External finishes	The exposed brick surfaces to be finished either with cement pointing with matching pigment or sticking of joints with snowcem.	The external surface shall have Plaster finish with exterior paint of approved shade.
5.	SOIL WASTE & RAIN WATER PIPES	a) Soil waste pipe and Rain water pipe	All the soil waste and C I rain water pipes to be embedded in walls.	All rain water pipes be laid in approachable and openable ducts. PVC pipes should normally be preferred over C.I. pipes RWP's need not be embedded in brick walls, in general. Water supply pipes shall be of CPVC. All soil waste pipes shall preferably be PVC over CI pipes and shall be concealed in ducts.
		b) W.C., Washbasin and water trough	China Ware Indian Type.	Stainless Steel WC, Indian Type, washbasin and water trough for barracks, Rest Vitreous China ware (Indian Type/European Type).

6.	FIRE SAFETY MEASURE	a)Devices.		Fire Safety/Fire fighting arrangements as per provisions of Haryana Fire Act, Fire & Life Safety Provisions of National Building Code, 2016 amended from time to time.
7.	ELECTRIC WIRING	a) Wires	The building shall have concealed conduit wiring	Copper wiring in concealed conduits be used.
8.	SOLAR WATER HEATING SYSTEM.	-	-	As per HAREDA Guidelines
9.	RAIN WATER HARVESTING SYSTEM	-	-	AS per Hr. Govt. Notification.

PROPOSED SPECIFICATIONS FOR SPORTS HALL (Badminton Hall, Basket Ball, Hand Ball, Boxing Hall, Wrestling Hall, Shooting Range, Spectator Gallery etc.,) at Distt/ Block/ Village Level

Sr.No.	Items	Sub Items	Proposed Specifications at Village level	Proposed Specifications at Block/District level	Reason / Justification
1.	FLOORING, DADO-SKIRTING	PLAY FIELD AREA	As per the requirements of Sports Department, Haryana.	As per the requirements of Sports Department, Haryana.	Synthetic Polyurethane flooring/Maple Wood/ Teak Wood flooring with flooring system and manufacturer approved by FIVB/FIBA/BWF.
		OTHER THAN FIELD OF PLAY a) Rooms b) Hall Area c) Corridors, Common area, staircases, Other lobbies (Lift & Stair Case)	<ul style="list-style-type: none"> • All designated rooms (office) and other rooms/First Aid room shall have vitrified tile as per room size. • 4" matching skirting shall be provided in all rooms. • Kotah Stone/ Granite Stone/ Combination of Baroda Green & White Marble. • Corridors:- Kotah Stone with boarder design of marble (10% maximum) with Tac Tiles. • Other Lobbies: - Granite Stone/ Combination of Baroda Green & White Marble. • Staircases: - Granite in all staircases. Fire escape/Fire Tower staircase shall be finished with the combination of Baroda Green & White Marble. 	<ul style="list-style-type: none"> • All designated rooms (office) and other rooms/ First Aid room shall have vitrified tile as per room size. • 4" matching skirting shall be provided in all rooms. • Granite Stone/ Combination of Baroda Green & White Marble. • Corridors & other Lobbies:- Granite Stone/ Combination of Baroda Green & White Marble with Tac Tiles. • Staircases: - Granite in all staircases. Fire escape/Fire Tower staircase shall be finished with the combination of Baroda Green & White Marble. 	

		<p>d) Entrance Lobby.</p> <p>e) Toilets, Changing Room.</p> <p>f) Stage (Outdoor)</p> <p>g) Store Room</p> <p>h) Clock Room</p> <p>i) Spectators Steps</p> <p>j) Canteen/Food Courts</p>	<p>Entrance area:- Granite Stone/ Combination of Baroda Green & White Marble.</p> <ul style="list-style-type: none"> • Toilets: - All toilets shall have Anti skid tiles with ceramic tiles dado upto 7'-0" high. • Changing Room: - Anti Skid tiles • Kotah Stone flooring. • Kotah Stone flooring. • Combination of Baroda Green & White Marble. • Inside:- Combination of Baroda Green & White Marble. • Outside: - Kotah Stone/ Combination of Baroda Green & White Marble. • Baroda Green & White Marble Combination and Counter top-of Granite Stone and dado of ceramic tiles or Mat finish water proof paint of light shade upto 4'-6" height shall be provided. 	<ul style="list-style-type: none"> • Entrance area: -Granite Stone/ Combination of Baroda Green & White Marble with Tac Tiles. • Toilets: - All toilets shall have double charged vitrified tiles/Anti Skid Tiles with dado of ceramic tiles up to ceiling height. • Changing Room: - Anti Skid Tiles. • Granite flooring with leather finish (lappato). • Kotah Stone flooring. • Granite Stone/ Combination of Baroda Green & White Marble • Inside:- Granite/ Combination of Baroda Green & White Marble. • Outside: -Kotah Stone/ Combination of Baroda Green & White Marble. • Baroda Green & White Marble Combination/Granite Stone and Counter top-of Granite Stone and dado of ceramic tiles or Mat finish water proof paint of light shade upto 4'-6" height shall be provided. 	
		<p>k) Porch/Driveway/Ramp/Parking</p>	<ul style="list-style-type: none"> • Cobble Stone /PCC/Coloured chequered tiles/Interlocking pavers or Green pavers of sufficient thickness for vehicular traffic movement. 	<ul style="list-style-type: none"> • Cobble Stone /PCC/Coloured chequered tiles/Interlocking pavers or Green pavers of sufficient thickness for vehicular traffic movement. 	

		<p>l) Divyang Ramp</p> <p>m) Basement</p> <p>n) Open terraces</p> <p>o) Roof Terrace</p>	<ul style="list-style-type: none"> • Divyang Ramp: - Chequered tiles with Tac tiles. • Cement Concrete flooring/unpolished Kotah Stone of sufficient thickness for vehicular traffic movement. For storage and services areas in basement shall have Kota Stone/Baroda Green flooring. • Kotah Stone flooring. • M.S. Truss/R.C.C. Slab finished with Heat Resistant Tiles with epoxy joint filling. (as per ECBC Advice) 	<ul style="list-style-type: none"> • Divyang Ramp: - Chequered tiles with Tac tiles. • Cement Concrete flooring/unpolished Kotah Stone of sufficient thickness for vehicular traffic movement. For storage and services areas in basement shall have Kota Stone/Baroda Green flooring. • Kotah Stone flooring. • M.S. Truss/R.C.C. Slab finished with Heat Resistant Tiles with epoxy joint filling. (as per ECBC Advice) 	
2.	JOINERY WORK FOR DOORS, WINDOWS AND VENTILATORS.	a) Frames.	<ul style="list-style-type: none"> • External:- • For Building less than 15 mtr. Height- All frames of Aluminum / UPVC /pressed steel frames sections (As specified on the drawings). <li style="text-align: center;">or • Pre painted/power coated Galvanised sheet for window/ventilator frames as per HSR with Pre painted/powder coated Galvanised sheet for window/ ventilator shutters as per HSR • Pre painted/power coated Galvanised sheet for door frames with single rebate and double rebate as per HSR • For the Buildings more than 15 mtrs height. pressed steel frame/aluminum frames/G.I. Frames shall be 	<ul style="list-style-type: none"> • External:- • For Building less than 15 mtr. Height- All frames of Aluminum / UPVC /pressed steel frames sections (As specified on the drawings). <li style="text-align: center;">Or • Pre painted/power coated Galvanised sheet for window/ventilator frames as per HSR with Pre painted/powder coated Galvanised sheet for window/ ventilator shutters as per HSR • Pre painted/power coated Galvanised sheet for door frames with single rebate and double rebate as per HSR • For the Buildings more than 15 mtrs height. pressed steel frame/aluminum frames/G.I. Frames shall be 	

			<p>provided and where the Double glazed units are to be provided as per advice of the ECBC consultant then the joinery of UPVC / G.I. / Complete Aluminum system with Aluminum Hardware and accessories of their own Make shall be provided or as provided in architectural drawings.</p> <p style="text-align: center;">or</p> <ul style="list-style-type: none"> • Pre painted/power coated Galvanised sheet for window/ventilator frames as per HSR with Pre painted/power coated Galvanised sheet for window/ventilator shutters as per HSR. • Pre painted/power coated Galvanised sheet for door frames with single rebate and double rebate as per HSR. • Provision of Structure Glazing as specified on the drawings. • Space for window A.C/Cooler in designated rooms to be left in window/glazing (As specified in Drgs.). 	<p>provided and where the Double glazed units are to be provided as per advice of the ECBC consultant then the joinery of UPVC / G.I. / Complete Aluminum system with Aluminum Hardware and accessories of their own Make shall be provided or as provided in architectural drawings.</p> <p style="text-align: center;">or</p> <ul style="list-style-type: none"> • Pre painted/power coated Galvanised sheet for window/ventilator frames as per HSR with Pre painted/power coated Galvanised sheet for window/ventilator shutters as per HSR. • Pre painted/power coated Galvanised sheet for door frames with single rebate and double rebate as per HSR. • Provision of Structure Glazing as specified on the drawings. • Space for window A.C/Cooler in designated rooms to be left in window/glazing (As specified in Drgs.). 	
		b) Door/Windows shutters.	<ul style="list-style-type: none"> • Windows and ventilators shall be provided with wire gauge shutters. • Window styles in windows and ventilators shutters shall be used for the pressed steel frames. • UPVC/Aluminum/G.I. styles in windows and ventilators shutters 	<ul style="list-style-type: none"> • Windows and ventilators shall be provided with wire gauge shutters. • Window styles in windows and ventilators shutters shall be used for the pressed steel frames. • UPVC/Aluminum/G.I. styles in 	

			<p>shall be provided for the joinery of UPVC/Aluminum/G.I. respectively.</p> <ul style="list-style-type: none"> • Security glass shall be provided as per the requirement of the security purpose, in the aluminum/UPVC/G.I. joinery. • Pre painted/power coated Galvanised sheet for window/ventilator shutters as per HSR. • Doors shall be provided with wooden Flush Shutters 35mm thick ISI marked/ panelled Shutters. • Fire retardant doors shall be provided as per NBC/Fire Act. 	<p>windows and ventilators shutters shall be provided for the joinery of UPVC/Aluminum/G.I. respectively.</p> <ul style="list-style-type: none"> • Security glass shall be provided as per the requirement of the security purpose, in the aluminum/UPVC/G.I. joinery. • Pre painted/power coated Galvanised sheet for window/ventilator shutters as per HSR. • Doors shall be provided with wooden Flush Shutters 35mm thick ISI marked/ panelled Shutters. • Fire retardant doors shall be provided as per NBC/Fire Act. • In common/public toilets, 3" Gap shall be provided b/w Door shutters and floor. Aluminum frames & Styles with Laminated Cement Bonded Board (insert panel) ISI Marked shall be provided. 	
		<p>c) Wood to be used.</p> <p>d) Cupboards</p> <p>d) Door fittings</p>	<ul style="list-style-type: none"> • Wood to be used should be kiln seasoned hard wood except teak. • R.C.C shelves will be provided in the cupboards with solid flush shutters 25mm thick with pressed steel frame. Or Cupboards having M.S. sheet shelves and shutters. • Aluminum fittings to be used ISI marked. 	<ul style="list-style-type: none"> • Wood to be used should be kiln seasoned hard wood except teak. • R.C.C shelves will be provided in the cupboards with solid flush shutters 25mm thick with pressed steel frame. Or Cupboards having M.S. sheet shelves and shutters. • Aluminum fittings to be used ISI marked. 	

	GRILLS	<p>a) Grills.</p> <p>b) Railings</p>	<ul style="list-style-type: none"> • Exercise room/equipment store to be provided with heavy duty grills. • Stainless Steel/M.S. railing as per architectural drawings. 	<ul style="list-style-type: none"> • Exercise room/equipment store to be provided with heavy duty grills. • Stainless Steel/M.S. railing as per architectural drawings. 	
3.	INTERNAL FINISHES	<p>a) Internal walls and Ceiling</p> <p>b) Joinery & Other area to be painted</p>	<ul style="list-style-type: none"> • In designated rooms:- All rooms of Officers- False ceiling shall be provided as per requirement • For all other areas –Walls and Ceilings finished with Oil Bound Distemper. • Joinery to be painted with synthetic enamel paint of approved shade. 	<ul style="list-style-type: none"> • In designated rooms:- All rooms of Officers- False ceiling shall be provided as per requirement/Ceiling be finished in P.O.P. Plastic Emulsion paint on walls after preparation of surface with wall putty shall be provided. • For all other areas –Walls and Ceilings finished with Oil Bound Distemper. • Joinery to be painted with synthetic enamel paint of approved shade. • In circulation & corridors, dado of ceramic tiles or Mat finish water proof paint of light shade upto 4'-6" height shall be provided. 	

4.	EXTERNAL FINISHES	a) External walls	<ul style="list-style-type: none"> Textured paint / Grit finish/Exterior Paint/ Combination of the above as per the architectural drawings. 	<ul style="list-style-type: none"> Dry Stone cladding/ACP/HPL on the 20% of all facade surface area with the combination of Textured paint / Grit finish/Exterior Paint/Structural Glazing or Combination of the above as per the architectural drawings. 	
5.	SOIL WASTE & RAIN WATER PIPES.	a) Rain water pipes/water supply pipes/Soil waste pipes	<ul style="list-style-type: none"> All rain water pipes be laid in approachable and openable ducts. PVC pipes should normally be preferred over C.I. pipes RWP's need not be embedded in brick walls, in general. Water supply pipes shall be of CPVC. All soil waste pipes shall preferably be PVC over CI pipes and shall be concealed in ducts. 	<ul style="list-style-type: none"> All rain water pipes be laid in approachable and openable ducts. PVC pipes should normally be preferred over C.I. pipes RWP's need not be embedded in brick walls, in general. Water supply pipes shall be of CPVC. All soil waste pipes shall preferably be PVC over CI pipes and shall be concealed in ducts. 	
6.	ELECTRIC WIRING/ FITTINGS	a) Wires b) Switches c) Communication System to be adopted.	<ul style="list-style-type: none"> Copper wiring in concealed conduits be used. Modular switches to be used. Internet ducts, Telephones/ Conduits be provided as per need of the future. Digital Connectivity Infrastructure (DCI) shall be provided as per Chapter 7A of Haryana Building Code-2017 amended from time to time/applicable NBC 2016 Clauses. 	<ul style="list-style-type: none"> Copper wiring in concealed conduits be used. Modular switches to be used. Internet ducts, Telephones/ Conduits be provided as per need of the future. Digital Connectivity Infrastructure (DCI) shall be provided as per Chapter 7A of Haryana Building Code-2017 amended from time to time/applicable NBC 2016 Clauses. 	
7.	FIRE SAFETY MEASURE	a) Devices.	<ul style="list-style-type: none"> Fire Safety/Fire fighting arrangements as per provisions of Haryana Fire Act, Fire & Life Safety Provisions of National Building Code, 2016 amended from time to time. 	<ul style="list-style-type: none"> Fire Safety/Fire fighting arrangements as per provisions of Haryana Fire Act, Fire & Life Safety Provisions of National Building Code, 2016 amended from time to time. 	
8.	RAIN WATER HARVESTING.	a) Provision.	<ul style="list-style-type: none"> To be provided as per notification of Haryana Govt. in this regard. 	<ul style="list-style-type: none"> To be provided as per notification of Haryana Govt. in this regard. 	

9.	SOLAR WATER HEATING SYSTEM.		<ul style="list-style-type: none"> As per HAREDA Guidelines. 	<ul style="list-style-type: none"> As per HAREDA Guidelines. 	
10.	Provisions of Energy Conservation Building Code		<ul style="list-style-type: none"> As per Haryana Govt. Notifications issued from time to time. 	<ul style="list-style-type: none"> As per Haryana Govt. Notifications issued from time to time. 	
11.	Provisions of Differently Abled Persons Act.		<ul style="list-style-type: none"> All the provisions as per the provision of Differently Abled Persons Act. 	<ul style="list-style-type: none"> All the provisions as per the provision of Differently Abled Persons Act. 	
12.	Provisions of Solar Panels.		<ul style="list-style-type: none"> As per Haryana Govt. Notifications issued from time to time/ Haryana Building Code. 	<ul style="list-style-type: none"> As per Haryana Govt. Notifications issued from time to time/ Haryana Building Code. 	
13.	Provisions of False ceiling		<ul style="list-style-type: none"> Requirement and Material Specifications of False Ceiling shall be as per the requirement of Client Department. 	<ul style="list-style-type: none"> Requirement and Material Specifications of False Ceiling shall be as per the requirement of Client Department. 	

PROPOSED SPECIFICATIONS OF GOVERNMENT VETERINARY DISPENSARY & GOVERNMENT VETERINARY HOSPITALS

Sr.No.	Items	Sub Items	Proposed Specifications
1.	FLOORING, DADO-SKIRTING	a) Room b) Store c) OPD Room d) Circulation Area e) Toilets f) Laboratories g) Ramps h) roof terrace i) Porch/Driveway/ Parking	<ul style="list-style-type: none"> • Doctor Room and Dispensary shall have Vitrified tiles flooring with 4" matching skirting. • Kotah Stone flooring • Kotah Stone flooring with 4'-6" high Dado of ceramic tiles • All circulation areas shall have Baroda Green+Marble Stone/Granite flooring with Tac tiles. Ceramic tiles Dado upto 4'-6" height shall be provided. • Anti Skid Flooring with 7'-0" height Dado of Ceramic tiles. <ul style="list-style-type: none"> i) Flooring and work top in the laboratory shall be finished with Acid-proof tiles. ii) All walls of laboratory shall be provided with Acid-proof tiles upto 7'-0" height. • Chequered tile flooring shall be provided. • Heat resistant tiles with epoxy joints. • Plain Cement Concrete tiles.

2.	JOINERY WORK FOR DOORS, WNDOWS AND VENTILATRS	<p>a) Frames b) Door/Window Shutters</p> <p>c) Fittings</p>	<ul style="list-style-type: none"> All door and windows & Ventilators shall have pressed steel frames as per Architectural Drawings. Flush Shutters for all doors shall be 35 mm thick ISI Marked. Shutters for cupboard shall be 25 mm thick ISI Marked flush shutters. In common/public toilets, 3" Gap shall be provided b/w Door shutters and floor. Aluminum frames & Styles with Laminated Cement Bonded Board (insert panel) ISI Marked shall be provided. Windows and ventilators shall be provided with wire gauge shutters. Wooden styles in windows and ventilators shutters shall be used for the pressed steel frames. Jali (Mesh) shutters shall be provided to all external doors & windows. Cupboard shutter shall be 25mm thick ISI marked flush shutters with pressed steel frames. Shelves in the cupboards shall be of Granite Stone (medium range) with M.S. angle iron. Space for window A.C/Cooler in designated rooms to be left in window/glazing (As specified in Drgs.). Heavy duty aluminium/ SS fittings. ISI marked.
3.	GRILLS	a) Grills	<ul style="list-style-type: none"> M.S Grills shall be provided at ground floor
4.	INTERNAL AND EXTERNAL FINISHES	a) Internal walls/ ceiling etc.	<ul style="list-style-type: none"> Plastered and Oil Bound Distemper.
		b) External Finish	<ul style="list-style-type: none"> All doors, windows, ventilators & cupboards frames, shutters, railings etc. shall be finished with first quality synthetic enamel paint as per colour scheme. Exterior Paint as per the architectural drawings.
5.	SOIL WASTE & RAIN WATER PIPES.	<p>a) Rain water pipes b) Water supply pipes. c) Soil waste pipes.</p>	<ul style="list-style-type: none"> All rain water pipes be laid in approachable and openable ducts. PVC pipes should normally be preferred over C.I. pipes RWP's need not be embedded in brick walls, in general. Water supply pipes shall be of CPVC. All soil waste pipes shall preferably be PVC over CI pipes and shall be concealed in ducts.
6.	ELECTRIC WIRING/ FITTINGS	<p>a) Wires b) Switches c) Communication System to be adopted.</p>	<ul style="list-style-type: none"> Copper wiring in concealed conduits be used. Modular switches to be used. Internet ducts, Telephones/ Conduits be provided as per need of the future. Digital Connectivity Infrastructure (DCI) shall be provided as per Chapter 7A of Haryana Building Code-2017 amended from time to time/applicable NBC 2016 Clauses.
		d) Glow sign.	<ul style="list-style-type: none"> Provision for glow sign be made.
7.	FIRE SAFETY MEASURE	a) Devices.	<ul style="list-style-type: none"> Fire Safety/Fire fighting arrangements as per provisions of Haryana Fire Act, Fire & Life Safety Provisions of National Building Code, 2016 amended from time to time.

8.	RAIN WATER HARVESTING	a) Provision	<ul style="list-style-type: none"> To be provided as per notification of Haryana Govt. in this regard.
9.	SOLAR WATER HEATING SYSTEM.		<ul style="list-style-type: none"> As per HAREDA Guidelines.
10.	Provisions of different be abled persons Act.		<ul style="list-style-type: none"> All the provisions as per the provision of Differently Abled Persons Act.
11.	Provisions of Solar Panels.		<ul style="list-style-type: none"> As per Haryana Govt. Notifications issued from time to time/ Haryana Building Code.

PROPOSED SPECIFICATIONS OF PET CLINICS & POLY CLINICS

Sr.No	Items	Sub Items	Proposed Specifications
1.	FLOORING, DADO-SKIRTING	a) Room b) O.T. c) Fodder Store d) Doctor Room, Committee Room & Library. e) Circulation Area f) Ramp g) Driveway & Parking	<ul style="list-style-type: none"> • OPD (Surgery, Gyane, Medicine) for large animals shall have plain cement concrete flooring/vinyal flooring. • OPD small animals, Ultra Sound, recovery, sterilization, Dispensary & Injection Room & OT shall have Kotah Stone/ Broda Green + Marble/Granite Stone Flooring • OT shall have plain/rough cement concrete flooring/ • 2mm thick antistatic PVC Roll. • The beams inside the OT should be avoided. • OT windows should be flushed with inside wall of OT. • No sewage/fire pipe/Sprinkler etc. should be inside. • Admn. Branch & Account Branch shall have Broda Green + White Marble Stone. • All stores shall have Kotah Stone/Cement concrete flooring with 4" high skirting. • Vitrified Tile Flooring with 4" high matching skirting. • Corridors and Lobbies:-Combination of Baroda green & white Marble stone flooring/Granite Stone with Tactiles. • Staircases:- Baroda Green with white Marble/Granite Stone. • Fire escape staircase shall be finished with Baroda Green with white Marble. • Ceramic tiles Dado upto 4'-6" height shall be provided. • Ramp shall be provided with Chequered tile flooring. • Ramp for large animals shall have plain cement concrete flooring. • Cobble Stone/PCC/Coloured chequered tiles/Interlocking pavers or Green pavers.

		<p>h) Kitchen & Pantry</p> <p>i) Toilets</p> <p>j) Laboratories</p> <p>k) roof terrace</p> <p>l) Porch/Driveway/Ramp/ Parking</p>	<ul style="list-style-type: none"> • Kitchen and Pantry:- Flooring and worktop shall be of Granite stone with ceramic tile dado upto 7'-0" height. • Anti Skid Flooring with 7'-0" height Dado of Ceramic tiles. • Flooring, and work top in the laboratory shall be finished with Acidproof tiles. All walls of laboratory shall be provided with Acidproof tiles upto 7'-0" height. • Heat resistant tiles with epoxy joints. • Cobble Stone /PCC/Coloured chequered tiles/Interlocking pavers or Green pavers.
2.	JOINERY WORK FOR DOORS, WINDOWS AND VENTILATRS	a) Frames	<ul style="list-style-type: none"> • External:- • For Building less than 15 mtr. Height- All frames of Aluminum / UPVC /pressed steel frames sections (As specified on the drawings). <ul style="list-style-type: none"> • or • Pre painted/powder coated Galvanised sheet for window/ventilator frames as per HSR with Pre painted/powder coated Galvanised sheet for window/ ventilator shutters as per HSR • Pre painted/power coated Galvanised sheet for door frames with single rebate and double rebate as per HSR • For the Buildings more than 15 mtrs height. • pressed steel frame/aluminum frames/G.I. Frames shall be provided and where the Double glazed units are to be provided as per advice of the ECBC consultant then the joinery of UPVC / • G.I. / Complete Aluminum system with Aluminum Hardware and accessories of their • own Make shall be provided or as provided in architectural drawings. <ul style="list-style-type: none"> • or • Pre painted/power coated Galvanised sheet for window/ventilator frames as per HSR with Pre painted/power coated Galvanised sheet for window/ventilator shutters as per HSR. • Pre painted/power coated Galvanised sheet for door frames with single rebate and double rebate as per HSR. • Provision of Structure Glazing as specified on the drawings. • Provision of Structure Glazing as specified on the drawings.

			<ul style="list-style-type: none"> Space for window A.C/Cooler in designated rooms to be left in window/glazing (As specified in Drgs.).
		<p>b) Door/Window Shutters</p> <p>c) Fittings</p>	<ul style="list-style-type: none"> Pre painted/power coated Galvanised sheet for window/ventilator shutters as per HSR Shutters for all doors shall be 35 mm thick flush shutters ISI Marked. Windows and ventilators shall be provided with wire gauge shutters. Wooden styles in windows and ventilators shutters shall be used for the pressed steel frames. Jali (Mesh) shutters shall be provided to all external doors/windows/ventilators. Cupboard shutter shall be 25mm thick ISI marked flush shutters with pressed steel frames. Shelves in the cupboards shall be of Granite Stone (medium range) with M.S. angle iron. Doors shall be provided with wooden Flush Shutters 35mm thick ISI marked/ panelled Shutters. In common/public toilets, 3" Gap shall be provided b/w Door shutters and floor. Aluminum frames & Styles with Laminated Cement Bonded Board (insert panel) ISI Marked shall be provided. Fire retardant doors shall be provided as per fire Act. Heavy duty aluminium/ SS fittings. ISI marked.
3.	GRILLS	a) Grills.	<ul style="list-style-type: none"> Grills shall be provided at ground floor and at upper floor as per client requirements.
4.	INTERNAL AND EXTERNAL FINISHES	a) Internal walls/ ceiling etc.	<ul style="list-style-type: none"> Plastered and Oil Bound Distemper. In operation theatre, all the walls & ceiling junctions shall be rounded off. The ceiling shall be provided with cement plaster& shall be painted with synthetic enamel or epoxy paint.
		<p>b) External Finish</p> <p>c) Joinery</p>	<ul style="list-style-type: none"> Combination of Textured paint / Grit finish/Exterior Paint/Structural Glazing or Combination of the above as per the architectural drawings. All doors/windows/ventilators/cupboards frames, shutters, wood work, railings etc. shall be finished with first quality synthetic enamel paint as per colour scheme.
5.	SOIL WASTE & RAIN WATER PIPES.	<p>a) Rain water pipes</p> <p>b) Water supply pipes.</p> <p>c) Soil waste pipes.</p>	<ul style="list-style-type: none"> All rain water pipes be laid in approachable and openable ducts. PVC pipes should normally be preferred over C.I. pipes

			<ul style="list-style-type: none"> • RWP's need not be embedded in brick walls, in general. • Water supply pipes shall be of CPVC. • All soil waste pipes shall preferably be PVC over CI pipes and shall be concealed in ducts.
6.	ELECTRIC WIRING/ FITTINGS	a) Wires b) Switches c) Communication System to be adopted.	<ul style="list-style-type: none"> • Copper wiring in concealed conduits be used. • Modular switches to be used. • Internet ducts, Telephones/ Conduits be provided as per need of the future. • Digital Connectivity Infrastructure (DCI) shall be provided as per Chapter 7A of Haryana Building Code-2017 amended from time to time/applicable NBC 2016 Clauses.
7.	FIRE SAFETY MEASURE	a) Devices. b) Glow sign.	<ul style="list-style-type: none"> • Fire Safety/Fire fighting arrangements as per provisions of Haryana Fire Act, Fire & Life Safety Provisions of National Building Code, 2016 amended from time to time. • Provision for glow sign be made.
8.	RAIN WATER HARVESTING.	a) Provision	<ul style="list-style-type: none"> • To be provided as per notification of Haryana Govt. in this regard.
9.	SOLAR WATER HEATING SYSTEM.		<ul style="list-style-type: none"> • As per HAREDA Guidelines.
10.	Provisions of Energy Conservation Building Code		<ul style="list-style-type: none"> • As per Haryana Govt. Notifications issued from time to time.
11.	Provisions of different be abled persons Act.		<ul style="list-style-type: none"> • All the provisions as per the provision of Differently Abled Persons Act.
12.	Provisions of Solar Panels.		<ul style="list-style-type: none"> • As per Haryana Govt. Notifications issued from time to time/ Haryana Building Code.

PROPOSED SPECIFICATIONS OF COMMUNITY HALLS

Sr.No	Items	Sub Items	Proposed Specifications
1.	FLOORING, DADO-SKIRTING	a) Community Hall b) Stair Case c) Verandah d) Kitchen e) Counter top f) Toilets g) Ramps h) Driveway & Parking	<ul style="list-style-type: none"> • Community Hall shall have baroda green marble/ granite flooring with 4" high skirting of approved shade. • All other rooms shall have vitrified tile with 4" high skirting. • All Stair cases shall have Granite Stone Flooring of approved shade. Fire escape/Fire Tower staircase shall be finished with the combination of Baroda Green & White Marble. • Verandah shall have baroda green +white marble stone. Corridors, Entrance Lobby & other Lobbies,- Granite Stone/Combination of Baroda Green & White Marble with Tac Tiles. • Kitchen shall have granite stone flooring and ceramic tile dado upto 7'-0" height. • All Counter top shall be finished with Granite Stone of approved shade. • Attached toilet shall have Anti Skid Flooring with Ceramic tiles Dado upto ceiling • General Toilet & Divyang Toilets shall have double charged vitrified tiles/ Anti Skid tile Flooring with ceramic tile Dado upto 7'-0" height. • Chequered tiles/Red sand stone flooring. • Cobble Stone /PCC/Coloured chequered tiles/Interlocking pavers or Green pavers.

2.	JOINERY WORK FOR DOORS, WINDOWS AND VENTILATRS	a) Frames	<ul style="list-style-type: none"> • External:- • All frames of Aluminum / UPVC/pressed steel frames sections (As specified on the drawings). <p style="text-align: center;">or</p> <ul style="list-style-type: none"> • Pre painted/powder coated Galvanised sheet for window/ventilator frames as per HSR with Pre painted/powder coated Galvanised sheet for window/ ventilator shutters as per HSR • Pre painted/power coated Galvanised sheet for door frames with single rebate and double rebate as per HSR. • Space for window A.C/Cooler in designated rooms to be left in window/glazing (As specified in Drgs.).
		b) Door/ Window Shutters	<ul style="list-style-type: none"> • Pre painted/power coated Galvanised sheet for window/ventilator shutters as per HSR • Shutters for all doors shall be 35 mm thick flush shutters ISI Marked. In common/public toilets, 3" Gap shall be provided b/w Door shutters and floor. Aluminum frames & Styles with Laminated Cement Bonded Board (insert panel) ISI Marked shall be provided. • Windows and ventilators shall be provided with wire gauge shutters. • Wooden styles in windows and ventilators shutters shall be used for the pressed steel frames. • Jali (Mesh) shutters shall be provided to all external doors/windows/ventilators. • Cupboard shutter shall be 25mm thick ISI marked flush shutters with pressed steel frames. Shelves in the cupboards shall be of Granite Stone (medium range) with M.S. angle iron. • Well seasoned ISI marked commercial hardwood flush shutters for doors and paneled shutters for bath/WC/toilets with cement bonded particle board. • Fire retardant doors shall be provided as per Fire Act.
		c) Fittings	<ul style="list-style-type: none"> • Heavy duty aluminium/ SS fittings. ISI marked.

3.	GRILLS	a) Grills.	<ul style="list-style-type: none"> M.S Grills shall be provided at ground floor and at upper floor as per client requirements.
4.	INTERNAL AND EXTERNAL FINISHES	a) Internal walls/ ceiling etc.	<ul style="list-style-type: none"> Plastered and Oil Bound Distemper.
		b) Joinery	<ul style="list-style-type: none"> All doors/windows/ventilators/cupboards frames, shutters, wood work, railings etc. shall be finished with first quality synthetic enamel paint as per colour scheme. Combination of Textured paint / Grit finish/Exterior Paint/Structural Glazing or Combination of the above as per the architectural drawings.
		c) External Finish	
5.	SOIL WASTE & RAIN WATER PIPES.	a) Rain water pipes b) Water supply pipes. c) Soil waste pipes.	<ul style="list-style-type: none"> All rain water pipes be laid in approachable and openable ducts. PVC pipes should normally be preferred over C.I. pipes RWP's need not be embedded in brick walls, in general. Water supply pipes shall be of CPVC. All soil waste pipes shall preferably be PVC over CI pipes and shall be concealed in ducts.
6.	ELECTRIC WIRING/ FITTINGS	a) Wires b) Switches c) Communication System to be adopted.	<ul style="list-style-type: none"> Copper wiring in concealed conduits be used. Modular switches to be used. Internet ducts, Telephones/ Conduits be provided as per need of the future. Digital Connectivity Infrastructure (DCI) shall be provided as per Chapter 7A of Haryana Building Code-2017 amended from time to time/applicable NBC 2016 Clauses.
7.	FIRE SAFETY MEASURE	a) Devices. b) Glow sign	<ul style="list-style-type: none"> Fire Safety/Fire fighting arrangements as per provisions of Haryana Fire Act, Fire & Life Safety Provisions of National Building Code, 2016 amended from time to time. Provision for glow sign be made.
8.	RAIN WATER HARVESTING.	a) Provision	<ul style="list-style-type: none"> To be provided as per notification of Haryana Govt. in this regard.
9.	SOLAR WATER HEATING SYSTEM.		<ul style="list-style-type: none"> As per HAREDA Guidelines.
10.	Provisions of Energy		<ul style="list-style-type: none"> As per Haryana Govt. Notifications issued from time to time.

	Conservation Building Code		
11.	Provisions of different be abled persons Act.		<ul style="list-style-type: none">• All the provisions as per the provision of Differently Abled Persons Act.
12.	Provisions of Solar Panels.		<ul style="list-style-type: none">• As per Haryana Govt. Notifications issued from time to time/ Haryana Building Code.

PROPOSED SPECIFICATIONS OF OBSERVATION HOME/SPECIAL HOME/PLACE OF SAFETY FOR CHILDREN

Sr.No.	Items	Sub Items	Proposed Specifications
1.	FLOORING, DADO-SKIRTING	a) <u>Administrative Building/ Residence</u> i. Rooms ii. Corridors, Staircases, Kitchen and Pantry iii. <u>Toilets.</u> iv. Porch/ Driveway/ Ramp/ Parking v. Basement vi. Open terraces vii. Roof Terrace	<ul style="list-style-type: none"> • All designated rooms and other rooms shall have vitrified tile as per room size. • 4" matching skirting shall be provided in all rooms. • Corridors, Entrance Lobby & other Lobbies: - Granite stone/ Baroda Green & White Marble with Tactile Tiles flooring shall be provided. • Staircases: - Granite in all staircase. Fire escape staircase shall be finished with the combination of Baroda Green & White Marble. • Kitchen and Pantry: - shall have Baroda Green & White Marble/Granite flooring and dado of Ceramic tiles upto ceiling height. Worktop shall be granite stone/Stainless steel work counters shall be provided as per consultant advice (commercial kitchen). • Attached Toilets: - Anti Skid Tiles with dado of ceramic tiles up to ceiling height. • General Toilets: - Double charged vitrified tiles/ Anti skid tiles (in public toilets) and Anti skid tiles flooring (in Divyang) with 7'-0" high Dado of ceramic tiles. • Cobble Stone/ PCC/ Coloured chequered tiles/ Interlocking pavers or Green pavers. • Cement Concrete flooring/unpolished Kotah Stone of sufficient thickness for vehicular traffic movement. For storage and services areas in basement shall have Kota Stone/Baroda Green flooring. • Kotah Stone flooring. • Heat Resistant Tiles with epoxy joint filling. (as per ECBC Advice)

		b) Observation Home & Dormitories areas <ul style="list-style-type: none"> i. Dormitories ii. Corridors, Staircases, Kitchen and Pantry iii. Toilets viii. Open terraces ix. Roof Terrace 	<ul style="list-style-type: none"> • Kotah Stone Flooring with combinations of White Marble (max. 20%) shall be provided. • Corridors: - Kotah Stone Flooring with combinations of White Marble (max. 20%) shall be provided. • Staircases: - Kotah Stone shall be provided. • Kitchen and Pantry: - Flooring Kotah Stone and work top finished with Granite Stone and ceramic dado tiles upto 7'-0" height. • Anti Skid tiles with 7'-0" high Dado of ceramic tiles. • Kotah Stone flooring. • Heat Resistant Tiles with epoxy joint filling. (as per ECBC Advice)
2.	JOINERY WORK FOR DOORS, WINDOWS AND VENTILATORS.	a) Frames.	<ul style="list-style-type: none"> • All frames of pressed steel sections (As specified on the drawings). • Pre painted/power coated Galvanised sheet for window/ventilator frames as per HSR with Pre painted/powder coated Galvanised sheet for window/ ventilator shutters as per HSR. • Pre painted/power coated Galvanised sheet for door frames with single rebate and double rebate as per HSR. • Space for window A.C/Cooler in designated rooms to be left in window/glazing (As specified in Drgs.).

		<p>b) Door/Windows shutters.</p> <p>i. Administrative Building/ Residence</p> <p>ii. Observation Home & Dormitories areas</p> <p>c) Cupboards</p>	<ul style="list-style-type: none"> • Openable windows on external walls in pressed steel/ G.I. frames with 12-16mm M.S. grills @ 4”c/c and wooden/G.I. shutters alongwith wiremesh shutters & grilled MS doors and ventilators in angle iron box frame and 20mm grills @ 4” c/c. • Doors, Windows and ventilators shall be provided with wire mesh shutters as per architectural drawing. • Wooden styles in windows and ventilators shutters shall be used for the pressed steel frames. • Grill doors/ grill doors with m.s sheet welded to both side shall be provided as per architectural drawings for security. • Doors shall be provided with wooden Flush Shutters 35mm thick ISI marked/ panelled Shutters. • Fire retardant doors shall be provided as per NBC/Fire Act. • Windows/Ventilators as per Client Decision on external walls of dormitories in pressed steel/ G.I. frames with 20mm M.S. grills bar @ 4”c/c diagonal and wooden/G.I. shutters alongwith wiremesh shutters whereas grilled MS doors and ventilators in angle iron box frame and 20mm grills bars @ 4” c/c diagonal. • Windows shutters and ventilators shall be provided with white transparent polycarbonate sheet panels instead of glass for security reasons. • Grill doors/ grill doors with m.s sheet welded to both side shall be provided as per architectural drawings for security. • In common/public toilets, 3” Gap shall be provided b/w Door shutters and floor. Aluminum frames & Styles with Laminated Cement Bonded Board (insert panel) ISI Marked shall be provided. • Open R.C.C shelves shall be provided.
	GRILLS	<p>a) Grills.</p> <p>b) Railings</p>	<ul style="list-style-type: none"> • Grills shall be provided in all the areas. • M.S. railing as per architectural drawings.
3.	INTERNAL FINISHES	<p>a) Internal walls and Ceiling</p> <p>b) Joinery & Other area to be painted</p>	<ul style="list-style-type: none"> • In designated rooms: - All rooms of Officers- False ceiling shall be provided as per requirement/Ceiling be finished in P.O.P. • Plastic Emulsion paint on wall after preparation of surface with wall putty shall be provided. • Corridors: - Washable paints upto 4’-6” height. • For all other area – Oil Bound Distemper • Pressed Steel Joinery to be painted with synthetic enamel paint of approved shade.

4.	EXTERNAL FINISHES	a) External walls	<ul style="list-style-type: none"> • Exterior Paints as per architectural drawings.
5.	SOIL WASTE & RAIN WATER PIPES.	a) Rain water pipes b) water supply pipes c) Soil waste pipes	<ul style="list-style-type: none"> • All rain water pipes be laid in approachable and openable ducts. PVC pipes should normally be preferred over C.I. pipes • RWP's need not be embedded in brick walls, in general. • Water supply pipes shall be of CPVC. • All soil waste pipes shall preferably be PVC over CI pipes and shall be concealed in ducts.
6.	ELECTRIC WIRING/ FITTINGS	a) Wires b) Switches c) Communication System to be adopted.	<ul style="list-style-type: none"> • Copper wiring in concealed conduits be used. • Modular switches to be used. • Internet ducts, Telephones/ Conduits be provided as per need of the future. • Digital Connectivity Infrastructure (DCI) shall be provided as per Chapter 7A of Haryana Building Code-2017 amended from time to time/applicable NBC 2016 Clauses.
7.	FIRE SAFETY MEASURE	a) Devices.	<ul style="list-style-type: none"> • Fire Safety/Fire fighting arrangements as per provisions of Haryana Fire Act, Fire & Life Safety Provisions of National Building Code, 2016 amended from time to time.
8.	RAIN WATER HARVESTING.	a) Provision.	<ul style="list-style-type: none"> • To be provided as per notification of Haryana Govt. in this regard.
9.	SOLAR WATER HEATING SYSTEM.		<ul style="list-style-type: none"> • As per HAREDA Guidelines.
10.	Provisions of Energy Conservation Building Code		<ul style="list-style-type: none"> • As per Haryana Govt. Notifications issued from time to time.
11.	Provisions of Differently Abled Persons Act.		<ul style="list-style-type: none"> • All the provisions as per the provision of Differently Abled Persons Act.
12.	Provisions of Solar Panels.		<ul style="list-style-type: none"> • As per Haryana Govt. Notifications issued from time to time/ Haryana Building Code.

PROPOSED SPECIFICATIONS OF CHILDREN HOMES/BAL BHAWAN/WORKING WOMEN HOSTELS

Sr.No.	Items	Sub Items	Proposed Specifications
1.	FLOORING, DADO-SKIRTING	a) Rooms b) Corridors, staircases, kitchen and pantry c) Toilets d) All halls, office halls e) Porch/ Driveway/ Ramp/ Parking f) Roof terrace g) Railing h) Basement i) Open terraces a) Roof Terrace	<ul style="list-style-type: none"> • All designated rooms and other rooms shall have vitrified tile as per room size. • 4" matching skirting shall be provided in all rooms. • Creche:- Vinyl flooring of minimum 6mm thickness for children (Below 8 years) play areas. • Corridors, Entrance Lobby & other Lobbies: - Granite stone with Tactile Tiles flooring shall be provided. Ceramic Dado wall tiles in Circular area upto 4'-6" height as per drawing. • Staircases: - Granite stone in all staircase. Fire escape staircase shall be finished with the combination of Baroda Green & White Marble. • Kitchen and Pantry: - shall have Baroda Green & White Marble/Granite flooring and dado of Ceramic tiles upto ceiling height. Worktop shall be granite stone/Stainless steel work counters shall be provided as per consultant advice (commercial kitchen). • Attached Toilets: - Anti Skid Tiles with dado of ceramic tiles up to ceiling height. • General Toilets: - Double charged vitrified tiles/ Anti skid tiles (in public toilets) and Anti skid tiles flooring (in Divyang) with 7'-0" high Dado of ceramic tiles. • Baroda Green & White Marble Combination/Granite Stone. • Cobble Stone /PCC/Coloured chequered tiles/Interlocking pavers or Green pavers as per architectural drawing. • For roof terrace heat resistant tiles with epoxy joint. • Stainless steel/M.S. railing as per architectural drawings and railing in circulation area as per requirement. • Cement Concrete flooring/unpolished Kotah Stone of sufficient thickness for vehicular traffic movement. For storage and services areas in basement shall have Kota Stone/Baroda Green flooring. • Kotah Stone flooring. • Heat Resistant Tiles with epoxy joint filling. (as per ECBC Advice)
2.	JOINERY WORK FOR DOORS, WINDOWS AND VENTILATORS.	a) Frames.	<ul style="list-style-type: none"> • External:- • For Building less than 15 mtr. Height- All frames of Aluminum / UPVC /pressed steel frames sections (As specified on the drawings). <p align="center">or</p> <ul style="list-style-type: none"> • Pre painted/power coated Galvanised sheet for window/ventilator frames as per HSR with Pre painted/powder coated Galvanised sheet for window/ ventilator shutters as per HSR. • Pre painted/power coated Galvanised sheet for door frames with single rebate and double rebate as

			<p>per HSR.</p> <ul style="list-style-type: none"> • For the Buildings more than 15 mtrs height. pressed steel frame/aluminum frames/G.I. Frames shall be provided and where the Double glazed units are to be provided as per advice of the ECBC consultant then the joinery of UPVC / G.I. / Complete Aluminum system with Aluminum Hardware and accessories of their own Make shall be provided or as provided in architectural drawings. <p style="text-align: center;">or</p> <ul style="list-style-type: none"> • Pre painted/power coated Galvanised sheet for window/ventilator frames as per HSR with Pre painted/power coated Galvanised sheet for window/ventilator shutters as per HSR. • Pre painted/power coated Galvanised sheet for door frames with single rebate and double rebate as per HSR. • Provision of Structure Glazing as specified on the drawings.
		b) Door/Windows shutters.	<ul style="list-style-type: none"> • Doors, Windows and ventilators shall be provided with wire mesh shutters. As specified in Drawings. • Wooden styles in windows and ventilators shutters shall be used for the pressed steel frames. • UPVC/Aluminum/G.I. styles in windows and ventilators shutters shall be provided for the joinery of UPVC/Aluminum/G.I. respectively. • Pre painted/power coated Galvanised sheet for window/ventilator shutters as per HSR. • Doors shall be provided with wooden Flush Shutters 35mm thick ISI marked/ panelled Shutters. • In common/public toilets, 3" Gap shall be provided b/w Door shutters and floor. Aluminum frames & Styles with Laminated Cement Bonded Board (insert panel) ISI Marked shall be provided. • Fire retardant doors shall be provided as per NBC/Fire Act.
		<p>a) Wood to be used.</p> <p>b) Cupboards</p> <p>c) Door fittings</p>	<ul style="list-style-type: none"> • Wood to be used should be kiln seasoned hard wood except teak. • R.C.C shelves will be provided in the cupboards with solid flush shutters 25mm thick with pressed steel frame. <p style="text-align: center;">Or</p> <p>Cupboards having M.S. sheet shelves and shutters.</p> <ul style="list-style-type: none"> • Aluminum fittings to be used. ISI marked.
	GRILLS	<p>a) Grills.</p> <p>b) Railings</p>	<ul style="list-style-type: none"> • Grills shall be provided at ground floor and at upper floor wherever public interface exists. Record rooms and treasuries to be provided with heavy duty grills. • Stainless Steel/M.S. railing as per architectural drawings.

3.	INTERNAL FINISHES	a) Internal walls and Ceiling b) Joinery & Other area to be painted	<ul style="list-style-type: none"> • In designated rooms: - All rooms of Officers- False ceiling shall be provided as per requirement/ Ceiling be finished in P.O.P. Plastic Emulsion paint on wall after preparation of surface with wall putty shall be provided. Wall paintings of animated children friendly infographics/ cartoons/ educational motivation in children area. • For all other area –Oil Bound Distemper. • Joinery to be painted with synthetic enamel paint of approved shade. • In circulation & corridors, dado of ceramic tiles upto 4'-6" height shall be provided.
4.	EXTERNAL FINISHES	a) External walls	<ul style="list-style-type: none"> • Dry Stone Cladding/ACP/HPL on the 20% of all facade surface area with the combination of GRC tiles/Grit Finish/texture paints/exterior paints & structure glazing or Combination of the above as specified in the Architectural drawings.
5.	SOIL WASTE & RAIN WATER PIPES.	Rain water pipes/water supply pipes/Soil waste pipes	<ul style="list-style-type: none"> • All rain water pipes be laid in approachable and openable ducts. PVC pipes should normally be preferred over C.I. pipes. • RWP's need not be embedded in brick walls, in general. • Water supply pipes shall be of CPVC. • All soil waste pipes shall preferably be PVC over CI pipes and shall be concealed in ducts.
6.	ELECTRIC WIRING/ FITTINGS	a) Wires b) Switches c) Communication System to be adopted.	<ul style="list-style-type: none"> • Copper wiring in concealed conduits be used. • Modular switches to be used. • Internet ducts, Telephones/ Conduits be provided as per need of the future. • Digital Connectivity Infrastructure (DCI) shall be provided as per Chapter 7A of Haryana Building Code-2017 amended from time to time/applicable NBC 2016 Clauses.
7.	FIRE SAFETY MEASURE	a) Devices.	<ul style="list-style-type: none"> • Fire Safety/Fire fighting arrangements as per provisions of Haryana Fire Act, Fire & Life Safety Provisions of National Building Code, 2016 amended from time to time.
8.	RAIN WATER HARVESTING.	a) Provision.	<ul style="list-style-type: none"> • To be provided as per notification of Haryana Govt. in this regard.
9.	SOLAR WATER HEATING SYSTEM.		<ul style="list-style-type: none"> • As per HAREDA Guidelines.
10.	Provisions of Energy Conservation Building Code		<ul style="list-style-type: none"> • As per Haryana Govt. Notifications issued from time to time.
11.	Provisions of Differently Abled Persons Act.		<ul style="list-style-type: none"> • All the provisions as per the provision of Differently Abled Persons Act.
12.	Provisions of Solar Panels.		<ul style="list-style-type: none"> • As per Haryana Govt. Notifications issued from time to time/ Haryana Building Code.

13.	Provisions of False ceiling		<ul style="list-style-type: none">• Requirement and Material Specifications of False Ceiling shall be as per the requirement of Client Department.
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PROPOSED SPECIFICATIONS OF SPECIAL BUILDINGS WHICH NEEDS INTENSIVE CARE OR ASSISTED LIVING SUCH AS LIFE LONG CARE HOME FOR PERSONS WITH INTELLECTUAL DISABILITIES, OLD AGE HOMES, HOSTELS FOR BLINDS, HEAR & SPEECH DISABILITIES HOSTELS

Sr. No.	Items	Sub Items	Proposed Specifications
1	FLOORING, DADO-SKIRTING	a) Rooms b) Dormitories c) Circulation Area and Corridors d) Counter & Face wall of lifts. e) Toilets/ WC/Bath f) Kitchen	<ul style="list-style-type: none"> • All designated rooms and other rooms shall have vitrified tile as per room size. • 4" matching skirting shall be provided. • Kotah stone/Baroda Green Marble flooring shall be provided. • Corridors and Lobbies: - Granite stone flooring with Tactile Tiles. • Staircases: - Granite Stone in all staircases. Fire escape staircase shall be finished with Baroda Green. • Ceramic tiles Dado upto 4'-6" height shall be provided in circular areas. • MS/SS Pipe railings shall be provided at 80cm and 90cm level as per differently Abled Act. • Granite Stone finish. • Attached Toilets: - Anti Skid Tiles with dado of ceramic tiles up to ceiling height. • General Toilets: - Double chaged vitrified tiles/ Anti skid tiles (in public toilets) and Anti skid tiles flooring (in Divyang) with 7'-0" high Dado of ceramic tiles. Provision of false ceiling of water proof tiles/powder coated perforated M.S. grid tiles shall be made as per architectural drawing. • Kitchen: - shall have Baroda Green & White Marble/Granite flooring and dado of Ceramic tiles upto ceiling height. Worktop shall be granite stone/Stainless steel work counters shall be provided as per consultant advice (commercial kitchen).
		g) Ramps	<ul style="list-style-type: none"> • Ramp shall be provided with Coloured chequered tiles flooring. • Side walls of ramp shall have ceramic tiles dado upto 4'-6" height. • MS/SS Pipe railings shall be provided at 80cm and 90cm level as per differently Abled Act.
		h) Basement	<ul style="list-style-type: none"> • Cement Concrete flooring/unpolished Kotah Stone of sufficient thickness for vehicular traffic movement. For storage and services areas in basement shall have Kota Stone/Baroda Green flooring.
		i) Open terraces & Roof terrace	<ul style="list-style-type: none"> • Kotah Stone flooring & Heat Resistant Tiles with epoxy joint filling. (as per ECBC Advice)
		j) Machine Room	<ul style="list-style-type: none"> • Cement Concrete flooring as per structural requirements.
		k) Railing	<ul style="list-style-type: none"> • Stainless Steel/M.S. railing as per architectural drawings and railing in circulation area as

			per requirement.
		l) Balconies / Verandahs and terraces	<ul style="list-style-type: none"> All Balconies shall finished in harmony of adjacent room. All terraces except roof terraces shall have Kota stone. Roof terraces shall have heat resistance tiles with epoxy joint filling.
		m) Enquiries/ Registration counters.	<ul style="list-style-type: none"> Enquiries/Registration/Nurses counters shall be finished Granite Stone (medium range).
		n) Driveway/ Parking	<ul style="list-style-type: none"> Gate to Porch- PCC/ Pavers Parking- Pavers/ Green Pavers/PCC as per Architectural Drawings.
2	JOINERY WORK FOR DOORS, WINDOWS AND VENTILATORS	a) Frames	<ul style="list-style-type: none"> External:- For Building less than 15 mtr. Height- All frames of Aluminum / UPVC /pressed steel frames sections (As specified on the drawings). or Pre painted/power coated Galvanised sheet for window/ventilator frames as per HSR with Pre painted/powder coated Galvanised sheet for window/ ventilator shutters as per HSR. Pre painted/power coated Galvanised sheet for door frames with single rebate and double rebate as per HSR. <p>For the Buildings more than 15 mtrs height.</p> <ul style="list-style-type: none"> pressed steel frame/aluminum frames/G.I. Frames shall be provided and where the Double glazed units are to be provided as per advice of the ECBC consultant then the joinery of UPVC / G.I. / Complete Aluminum system with Aluminum Hardware and accessories of their own Make shall be provided or as provided in architectural drawings. or Pre painted/power coated Galvanised sheet for window/ventilator frames as per HSR with Pre painted/power coated Galvanised sheet for window/ventilator shutters as per HSR. Pre painted/power coated Galvanised sheet for door frames with single rebate and double rebate as per HSR. Provision of Structure Glazing as specified on the drawings.
		b) Door/Window Shutters	<ul style="list-style-type: none"> Pre painted/power coated Galvanised sheet for window/ventilator shutters as per HSR Doors, Windows and ventilators shall be provided with wire gauge shutters. (As specified in drawings) Wooden styles in windows and ventilators shutters shall be used for the pressed steel frames. UPVC/Aluminum/G.I. styles in windows and ventilators shutters shall be provided for the joinery of UPVC/Aluminum respectively.

			<ul style="list-style-type: none"> Well seasoned ISI marked commercial hardwood flush shutters for doors. In common/public toilets, 3" Gap shall be provided b/w Door shutters and floor. Aluminum frames & Styles with Laminated Cement Bonded Board (insert panel) ISI Marked shall be provided. Cupboard shutter shall be 25mm thick ISI marked flush shutters with pressed steel frames. Shelves in the cupboards shall be of Granite Stone (medium range) with M.S. angle iron. Fire retardant doors shall be provided as per NBC/Fire Act.
		c) Fittings	<ul style="list-style-type: none"> Heavy duty Aluminum fittings. ISI marked.
		d) Grills	<ul style="list-style-type: none"> Grills shall be provided in all floors.
3	INTERNAL AND EXTERNAL FINISHES	a) Toilets	<ul style="list-style-type: none"> Plastic emulsion paints of approved shade on walls & ceiling.
		b) Corridors	<ul style="list-style-type: none"> Plastic emulsion paints of approved shade on walls & ceiling.
		c) External Surface.	<ul style="list-style-type: none"> Dry Stone Cladding/ACP/HPL on the 20% of all facade surface area with the combination of GRC tiles/Grit Finish/texture paints/exterior paints & structure glazing or Combination of the above as specified in the Architectural drawings.
		d) Joinery etc.	<ul style="list-style-type: none"> All doors / windows / ventilators / cupboards frames, shutters, wood work. MS Railings etc. shall be finished with first quality enamel paint as per colour scheme.
4.	SOIL WASTE & RAIN WATER PIPES,	a) Rain water pipes b) Water supply pipes c) Soil waste pipes	<ul style="list-style-type: none"> All rain water pipes be laid in approachable and openable ducts. PVC pipes should normally be preferred over C.I. pipes RWP's need not be embedded in brick walls, in general. Water supply pipes shall be of CPVC. All soil waste pipes shall preferably be PVC over CI pipes and shall be concealed in ducts.
5.	ELECTRIC WIRING /FITTINGS	a)Wires	<ul style="list-style-type: none"> Copper wiring in concealed conduits be used. Modular switches to be used. Internet ducts, Telephones/ Conduits be provided as per need of the future. Digital Connectivity Infrastructure (DCI) shall be provided as per Chapter 7A of Haryana Building Code-2017 amended from time to time/applicable NBC 2016 Clauses.
		b) Glow sign.	<ul style="list-style-type: none"> Provision for glow signage be made.
6.	RAIN WATER HARVESTING SYSTEM.	Provision	<ul style="list-style-type: none"> To be provided as per notification of Haryana Govt. in this regard.
7.	FIRE SAFETY MEASURES	Devices	<ul style="list-style-type: none"> Fire Safety/Fire fighting arrangements as per provisions of Haryana Fire Act, Fire & Life Safety Provisions of National Building Code, 2016 amended from time to time.
8.	SOLAR WATER HEATING SYSTEM		<ul style="list-style-type: none"> As per HAREDA guidelines
9.	Provision of Energy		<ul style="list-style-type: none"> As per Haryana Government Notifications issued from time to time.

	Conservation Building Code		
10.	Provisions of differently abled persons Act.		<ul style="list-style-type: none"> All the provisions as per the provision of Differently Abled Persons Act.
11.	Provisions of Solar Panels.		<ul style="list-style-type: none"> As per Haryana Govt. Notifications issued from time to time/ Haryana Building Code.
12.	Provisions of False ceiling		<ul style="list-style-type: none"> Requirement and Material Specifications of False Ceiling shall be as per the requirement of Client Department.