

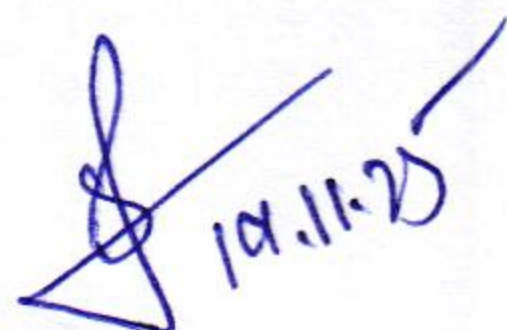
**OFFICE OF THE PRINCIPAL DISTRICT AND SESSIONS JUDGE
EAST SINGHBHUM AT JAMSHEDPUR**

CIVIL COURT, SAKCHI, JAMSHEDPUR – 831001

**Certificate for Installation of PTZ Cameras at the preferred location as per the requirement of
Court Rooms at Civil Court, Jamshedpur**

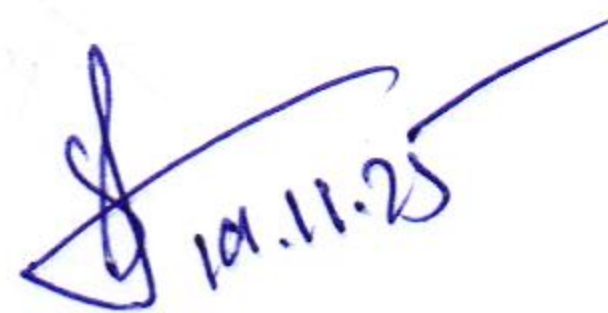
TENDER - NOTICE INVITING QUOTATIONS

1.	Articles / Items to be purchased	INSTALLATION OF PTZ CAMERAS [at the preferred location as per the requirement of Court Rooms at Civil Court, Jamshedpur]			
		Sl. No.	Description	Quantity Required	unit
		1	SITC 1 Gigabit optical transceiver SFP (supporting mono mode fiber over 1310 nm wavelength nominal) with an LC connector.	12	Nos.
		2	SITC of Layer 2 Fully Manageable Network Switch consists of GigE fixed chassis 24 RJ-45 10/100/1G BaseT, 2 fixed RJ45/SFP combo (1G), 2 fixed SFP+ (1G/10G) up-link / stacking ports. 1RU size, internal AC power supply. Includes country specific power cord, guides, and 19" rack mount hardware. RAM -1GB, Switching Capacity and forwarding Rate-92 Gbps or better and 68 Mpps or better, Latency: < 4 µs, MTBF: 2595 k hours, Mac Address:16K or more VLAN: 4K or more, System Policies: 1.5K or more, Max Jumbo Frame: 9216 bytes, Multi cast Group: up to 1000	7	Nos.
		3	6 Port LIU Switch : SITC of 6 Port Loaded LIU with SC Unit for 6 SM fiber Single Mode fibers OS2 (1 Nos. of Loaded Duplex adapter with Adapter plate) along with 1 Pc of Splice Tray - 6 Fiber Capacity & 6 Nos. of SC Pigtail - Pigtail 1 Meter SM Os2	6	Nos.
		4	12 Port LIU Switch : SITC of 12Port Loaded LIU with SC Unit for 12 SM fiber Single Mode fibers OS2 (2Nos. of Loaded Duplex adapter with Adapter plate) along with 1 Pc of Splice Tray - 12 Fiber Capacity & 12 Nos. of SC Pigtail - Pigtail 1 Meter SM Os2	6	Nos.
		5	24 Port LIU Switch : SITC of 24 Port Loaded LIU with SC Unit for 24 SM fiber Single Mode fibers SM OS2 (12 Nos. of Loaded Duplex adapter with Adapter plate) along with 1 Pc of Splice Tray - 24 Fiber Capacity & 24 Nos. of SC Pigtail - Pigtail 1 Meter SM	1	Nos.
		6	SITC of Fiber Duplex Patch Cords SC-LC SM Patch Cord 2 mtr.	12	Nos.
		7	Supply and laying of 6 core Single mode OS2 Loose tube Armoured Optical fiber cable through existing conduit: The Fiber should be OS2 Single Mode Optical Fiber Cable of Size 9/125µm.	500	Mtrs
		8	SITC of Fully Loaded 24 port UTP jack panel (24 port RJ-45	6	Nos.



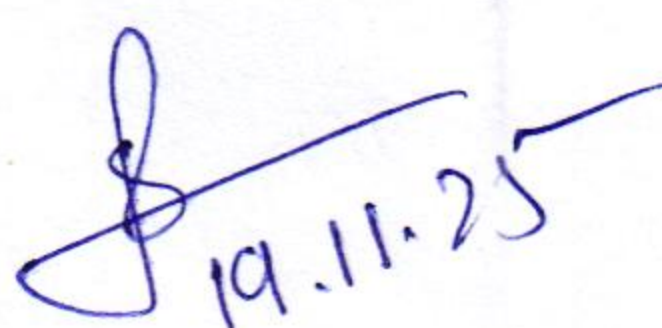
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		Loaded CAT-6 UTP 19" rack mountable patch panel preferably with 6 blocks).		
	9	SITC of Straight LAN Patch Chord-2 Mtr	66	Nos.
	10	SITC of Straight LAN Patch Chord-1 Mtr	66	Nos.
	11	Supplying, delivery, installation, testing and commissioning of Flush mounted Cat 6 Information Single Outlet Box. on GI concealed Modular Switch Board including connections and making good the damages caused complete as required .	66	Nos.
	12	Splicing of Armoured SM/MM Fibre Optics Cable: Splicing, testing and commissioning of supplied, OFC cable of 6-Core Armoured Fiber Optics	72	core
	13	SITC of Fully Loaded 6U 19" 600*600 Wall Mounted Rack with all required accessories -2 Nos. of Fan,16A 6 Plug PDU-1 Nos., Cable Manager-2 Nos., Mounting Screws-20 Pcs ; The Front frame should be integrated with top, bottom, front and two side panels for better rigidity and strength, Front Glass Door with Lock loaded.	6	Nos.
	14	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.		
	a	20 mm	480	Mtrs
	b	25 mm	900	Mtrs
	15	Supplying and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface/ recessed Steel/ PVC conduit as required. 1 Run CAT6 UTP Cable (for Network only)	4575	Mtrs
	16	Supply & Installation of Camera Stand made of 8 mm Clear Glass along with SS wall mountable stand	33	Nos
	17	Complete Camera Installation and Commissioning Charges	1	Lot
2	Cost	A separate note will be put up for Financial sanction after cost is ascertained by the Purchase Committee at Civil Court, Jamshedpur.		
3	Makers Name and Address	1. Bids are invited from all the reputed and established service brands having its office / authorized dealers / service providers etc within the jurisdiction of Jamshedpur or its nearby places such as Ranchi in order to provide the onsite assistance / service whenever required. 2. The concerned manufacturer / supplier / dealer / service provider etc, as the case may be, must have its office at Jamshedpur / Ranchi or its nearby places. 3. The concerned manufacturer / supplier / dealer / service provider etc, as the case may be, shall have to submit all the documents required as per the annexure.		
4	Period of Notice / Bid	<u>All Bids / Quotations must be submitted in the Office of Judge-in-Charge (Nazarat) at Civil Court, Jamshedpur with all relevant documents.</u> <u>Last Date for submission of Quotation – 12.12.2025 (04:30 PM)</u> No Bid / Quotation will be accepted after 04:30 PM on 12.12.2025.		

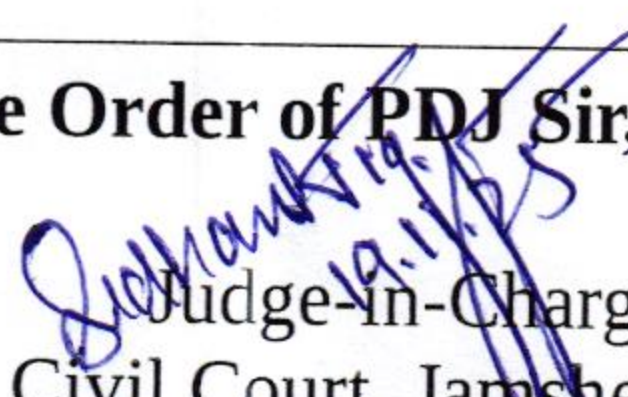


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5	Justification	1.The manufacturers / authorized dealers / service providers of reputed & established brands having its office at Jamshedpur or its nearby places will be preferred in order to get the onsite assistance as well as service whenever required at short interval of time. 2.The concerned manufacturer / supplier / dealer / service provider etc, as the case may be, shall have to submit all the documents required as per the annexure, if required, so that the sincere & devoted bidders can only be participated in the Bid. 3.The Bid is to be floated for reasonable period as there is urgency of installing the Video Conferencing System.
6	Eligibility / Pre Qualification Criteria for Bidders	1. Annualized Average Financial Turn Over: Bidder should have annualized average financial turnover of at least INR 2.00 Crore during last 3 years ending 31st March of previous Financial Year - FY 2021-22,22-23, 23-24. As a proof of financial turn over, copy of Audited Balance Sheet (AB3) along with Profit & Loss (P/L) account of the bidder for the last three financial year should be submitted. The bidder should be in state of profit making organization and it should be declared by the CA . 2. The Intending bidder may be Proprietorship firm/Partnership firm/Limited Liability Partnership firm/Pvt. Ltd/Limited and firm should have experience of having successfully completed similar works, as a Bidder during last 5 Five) years ending last day of month previous to the one in which bid applications are invited at AT ANY GOVERNMENT/ PUBLIC SECTOR UNDERTAKINGS/ LIMITED COMPANY/ INSTITUTION /PVT. ORGANIZATION / STATE BODIES etc . 3. Bidder should be ISO 9001:2015 certified organization, Bidder should have MSME or Udyam Aadhar Certificate for the same should be submitted along with BID. 4. Bidder must not be under bankruptcy code proceedings (IBC) by NCLT or under liquidation /BIFR, which will render him ineligible for participation in this tender, and shall submit undertaking to this effect. 5. Proof of Execution of Works: Bidder should have successfully completed similar work(s) i.e for Audio Video works / AV Integration work strictly confirming during last Five years ending on tender due date. - Single order of value not less than Rs. 16 Lakhs or - Two orders of value not less than Rs. 10 Lakhs each or - Three orders of value not less than Rs. 8 Lakhs each. 6. The Bidder should be an Authorized Channel/ Business /Service partner or System Integrator (SI) of OEM. The bidder should submit manufacturer Authorization Form (MAF) from OEMs as the valid documentary proof in this regard. 7. Bidder Should submit all the data sheets of the relevant quoted products along with make and specified Model or Part code. 8. Bidder and OEM of the equipment should have either ISO 9001:2015 or ISO 9001:2008 certification and documentary evidence to be submitted. 9. Bidder shall provide the comprehensive manufacturer's warranty / support in respect of proper design, quality and workmanship of all hardware, equipment, accessories etc. 10. During this Bid Stage, Bidders are invited to carry out the site survey at their own cost, such survey as may be required for submitting their respective Proposals. 11. Any Bidder which has been barred by the Central Government/State Government or any entity controlled by them, from participating in any project/provision of service and the bar subsists as on the Proposal Due Date, shall not be eligible to submit a Proposal. A self declaration to be submitted on the letter head of the bidder regarding the same along with the technical bid. 12. A Bidder should, in the last 3 (three) years, have neither failed to perform on any contract, as evidenced by imposition of a penalty by an arbitral or judicial authority or a judicial pronouncement or arbitration award against the Bidder, nor been expelled from


19.11.25

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	any project/provision of service or contract nor have had any contract terminated for breach by such Bidder. The OEM & Bidder should never be barred from any project for what so ever the reason. 13. The Bidder will be responsible for all liabilities, life, losses, claims, damages, costs and expenses that may be incurred by or asserted against any such party / authority or any liability accrued by the agency for the assignment. Agency will be responsible for cost incurred during installation and removal of all materials/items used during the execution period. 14. The Bidder shall provide the proposed Key Personnel with the requisite managerial / support staff ("Support Personnel") to ensure timely completion of the Services within the specified time schedule. 15. No outsourcing of the contract to third party is allowed at any point of the contract period . Attach an undertaking regarding the same. NOTE : 1. The Tenderer reserves the right to reject any Proposal that does not meet this requirement. 2. Jurisdiction : All disputes including court proceedings shall be settled within the jurisdiction of Jamshedpur Judgeship i.e; at Civil Court, Jamshedpur. 3. For Detailed Proforma visit the official website of Civil Court, Jamshedpur (https://jamshedpur.dcourts.gov.in)
Jamshedpur, dated : 19th November, 2025.	
By the Order of PDJ Sir, Jamshedpur  Judge-in-Charge Civil Court, Jamshedpur	

Sl. No	Description	Qty	UoM	Rate	Amount
1	SITC 1 Gigabit optical transceiver SFP). Supports monomode fiber over 1310nm wavelength nominal) with an LC connector. Preferred Make- Allied Telesis/Alcatel -Lucent/CISCO	12	Nos.		
2	SITC of Layer 2 Fully Manageable Network Switch consists of GigE fixed chassis 24 RJ-45 10/100/1G BaseT, 2 fixed RJ45/SFP combo (1G), 2 fixed SFP+ (1G/10G) uplink/ stacking ports. 1RU size, internal AC power supply. Includes country specific power cord, guides, and 19" rack mount hardware. RAM -1GB,Switching Capacity and forwarding Rate-92 Gbps or better and 68 Mpps or better , Latency: < 4 µs, MTBF: 2595 k hours ,Mac Address:16K or more VLAN: 4K or more, System Policies: 1.5K or more, Max Jumbo Frame: 9216 bytes, Multicast Group: up to 1000Inclusive of stacking cable. The detailed specification as follows. ; Preferred Make- Allied Telesis/Alcatel - Lucent/CISCO	7	Nos.		
	All the Switches, SFP Modules must be from the One OEM. The System Integrater should provide tender specific Manufacturer Authorisation Certificate for Active and passive devices for genuinity of the product sold from the OEM or OEM's Authorised Partner only.				
	OEM Criteria for Passive Networking items.				
	OEM must provide declaration on conformity of all the passive components to the following standards: a) TIA/EIA 568-2.D ; b) TIA/EIA 568-3.D ; c) ISO/IEC 11801				
	OEM must be a member in the TIA and BICSI organization. OEM shall have RCDD certified manpower in India for design support and validation. Certificate is Mandatory				
	OEM should have valid ISO 9001 and ISO 14001 certificate on Design, development and manufacture of SW and HW solutions for communication networks.				
	All the products must have RoHS Compliance and from One OEM.				
	The System Integrater should provide tender specific Manufacturer Authorisation Certificate for genuinity of the product sold from the OEM or OEM's Authorised Partner only.				
3	6 Port LIU Switch : SITC of 6 Port Loaded LIU with SC Unit for 6 SM fiber Single Mode fibres OS2 (1 Nos. of Loaded Duplex adapter with Adapter plate) along with 1 Pc of Splice Tray - 6 Fiber Capacity & 6 Nos. of SC Pigtail - Pigtail 1 Meter SM Os2 (Make:Legrand/Panduit/RIT/Siemon)	6	Nos.		
	Detailed Specs for Fiber Optic LIU Rack Mount LIU (6 Ports)				
	Fiber optic patch panel : Fiber optic patch panel FMS Termination Drawer should have sufficient slots to accommodate 3 of 12/16 Port LC Adaptor Plates.				
	Should have Slide type drawer structure				
	Height: 1 U, 1.75 inches (12 & 24 Ports)				
	Material: Cold Rolled Steel in surface coated by electrostatic epoxy powder				
	Slots: FMS should have sufficient slots to accommodate adaptor plates				
	Empty Slots of FMS should be covered with blank plates.				
	Splice Tray : Splice Tray of ABS, Comply with UL 94V2 material should be supplied with LIU.				
	Detailed Specs for 6/12/16 Port LC/SC Type Adaptor Plates (SM OS2)				
	The adaptor plate should be pre-loaded with LC/SC Type Single ModeDuplex Adaptors.				
	Port Density :6/12/16 LC/SC Single mode Ports				
	All LC adapters should be duplex type with shutter for protection. Adapters should be snap mount for easy insertion and removal.				
	Insertion Loss: <0.2 to <0.1 dB				
	Compliance :RoHS Compliant				
	Detailed Specs for LC Type 9/125µm SM Fiber Optic Simplex Pigtail				
	Type : 9/125 micron fibre performance				
	Jacket Material : LSZH complying to IEC 61034-1 & 2,IEC-60332-1, IEC-60754-1 & 2				
	Operating Temperature: -40°C to +75°C				
	Connector Insertion Loss: 0.30dB(Max)				
	Attenuation: 1310/1550 : 0.36/0.22 dB/KM				

4	12 Port LIU Switch : SITC of 12Port Loaded LIU with SC Unit for 12 SM fiber Single Mode fibres OS2 (2Nos. of Loaded Duplex adapter with Adapter plate) along with 1 Pc of Splice Tray - 12 Fiber Capacity & 12 Nos. of SC Pigtail - Pigtail 1 Meter SM Os2 (Make:Legrand/Panduit/RIT/Siemon)	6	Nos.		
5	24 Port LIU Switch : SITC of 24 Port Loaded LIU with SC Unit for 24 SM fiber Single Mode fibres SM OS2 (12 Nos. of Loaded Duplex adapter with Adapter plate) along with 1 Pc of Splice Tray - 24 Fiber Capacity & 24 Nos. of SC Pigtail - Pigtail 1 Meter SM (Make:Legrand/Panduit/RIT/Siemon)	1	Nos.		
6	SITC of Fiber Duplex Patch Cords SC-LC SM Patch Cord 2 mtr. (Make:Legrand/Panduit/RIT/Siemon)	12	Nos.		
	Detailed Specs for Patch Cord, LC SC, Duplex, MM OM3, Bend Insensitive G651, PC, LSZH				
	Cable : LC/SC-SC/LC 9/125µm or 1310 µm SM Duplex Patch Cord Length : 2mtrs (as per requirement)				
	Connectors : The optical fiber patch leads shall comprise of Single Mode 9/125µm or 1310 µm fiber with 2XLC type fiber connectors terminated at one end of fiber patch cord and 2xSC type connector at other end of the fiber patch cord				
	Insertion loss should be better than ≤ 0.30 dB				
	Jacket Material : LSZH complying to IEC 61034-1 & 2, IEC-60332-1, IEC-60754-1 & 2				
	Attenuation: 50/1300 : 3.0/1.0 dB/KM				
	Connector Loss : 0.30dB(max)				
	Operating Temperature : -40°C to +75°C				
7	Supply and laying of 6 core Single mode OS2 Loose tube Armoured Optical fiber cable through existing conduit: The Fiber should be OS2 Single Mode Optical Fiber Cable of Size 9/125µm. (Make:Legrand/Panduit/RIT/Siemon)	500	Mtrs.		
	Detailed Specs for Outdoor F/O Cable, Loose Tube, SM - 1x6 Fibers, Central Steel rod with CST, PE				
	The fiber should be optimized for operation at 1310 nm and at 1550 nm.				
	Should fulfill the requirements of ISO.IEC 11801 - 2nd Edition, type OS2, ITU-T REC G 652D spec IEC 60794-1-2 F5				
	Fibre Count : 6 /12				
	Fiber count per tube :6 / 12				
	Filler count :4				
	Filler Material : PP				
	Max. Attenuation: At 1310 nm ≤ 0.36 dB/km, At 1550 nm ≤ 0.22 dB/km				
	Fibre/Tube Identification : Multi Tube				
	Fibre protection (Tubes) : Polybutylene Terephthalate (PBT)				
	Armouring : CST				
	Thickness : 1.6mm				
	Outer Sheath :UV Stabilised Polyethylene (PE)				
	Central Strength Member: Steel wire coated with PE				
	Water Blocking : Thixotropic Gel (Tube);				
	Petroleum Jelly (Interstices)				
	Cable Diameter (D) : 9.0 ± 0.5 mm				
	Mass (Nominal) : 91 kg/km				
	Min. Bending Radius (during Installation) : 20 D;D-Outer Diameter				
	Max. Tensile Strength-Short Term : 1500N				
	Max. Crush Resistance-Short Term : 2200N/100 mm				
	Operating Temperature range : -40°C to +70°C				
	Approved Make : PANDUIT / RIT / SIEMON				
	All the cable and accessories are from the same OEM				
8	SITC of Fully Loaded 24 port UTP jack panel (24 port RJ-45 Loaded CAT-6 UTP 19" rackmountable patch panel preferably with 6 blocks). (Make:Legrand/Panduit/RIT/Siemon)	6	Nos.		
	Detailed Specs for 19" 1U 24 port unshielded Patch Panel				
	Patch panel should be modular design, populates up to 24 UTP keystone-type jacks in 1U				
	Patch panel should be Enhanced with cable strain relief with retention tray; It should be single metal both front panel and rear tray				
	Material: sub-rack made of MS Steel with dimension 44.4 mm : 482.6 mm : 105 mm (h:w:d) tray				

	Information Outlet or connectin module should comply with the specification mentioned above in 2				
	Standard : Conforms to IEC-60603-7 (603-7) for keystone-type, snap-on apertures				
	Should be RoHS complied				
9	SITC of Straight LAN Patch Chord-2 Mtr (Make:Legrand/Panduit/RIT/Siemon)	66	Nos.		
10	SITC of Straight LAN Patch Chord-1 Mtr (Make:Legrand/Panduit/RIT/Siemon)	66	Nos.		
	Detailed Specs for Patch Cord, U/UTP 4P, Cat.6, length 1/2 Metre				
	Standardization: Compliant with Cat.6, Class E requirements: ISO/IEC 11801 2nd Edition Compliant with Cat.6 component standards IEC 60603-7-4 and 60603-7-5				
	Cable shield: U/UTP				
	Number of conductors : 8				
	Stranding: 7 x 0.20 mm (24 AWG)				
	Cable jacket characteristics: cable, metal-free				
	Cable overall diameter: 6.5±0.2 mm				
	Tube / Wire type: stranded conductor				
	Insulation: solid polyolefin, 0.97±0.02 mm diameter				
	Plug: Feature cable retention, with enhanced pull strength.				
	Cat 6 patch cord plug to have round cable holder and strain relief boot to avoid bending.				
	Jacket: PVC with 8 different color options				
	Plug should have high repeatability cross talk performance				
11	Supplying, delivery, installation, testing and commissioning of Flush mounted Cat 6 Information Single Outlet Box.on GI concealed Modular Switch Board including connections and making good the damages caused complete as required & as per Direction of Engineer-In-Charge. (Make:Legrand/Panduit/RIT/Siemon)	66	Nos.		
	Detailed Specs for Faceplate				
	Should be UK style Keystone-type Faceplates are available in 1, 2 & 4 port configurations				
	<i>Should be featured with shutter options, the screws not to be visible</i>				
	Should support Work with both Flush and Wall mount box				
	Should support Operating Temperature: -10~+60; Storage Temperature: -40~+68; Humidity: 15%~90% RH				
	<i>Material: ABS, UL 94V-0; Spring: SUS304; Surface Finish: Polished</i>				
	Detailed Specs for Cat 6 UTP RJ 45 Keystone Jack				
	RJ45 Jack of Category 6, for the establishing of transmission channels of class E with up to 4 plugged connections, complies with Category 6 requirements of the standards ISO/IEC 11801:2nd edition, EN 50173-1, DIN EN 50173-1: 2002 as well as ANSI/TIA/EIA 568-B.2-1, de-embedded tested in acc. with IEC 60603-7 (603-7), interoperable and backwards compatible with Cat.5e and Cat.5.				
	Suitable for 10GBase-T applications in acc. with IEEE 802.3an up to 500 MHz and 55 m.				
	Compatible with RJ standard plugs (RJ11, RJ12, RJ45), PCB- and tool based connection of installation cables AWG 24 - 22 (0.5 mm - 0.65 mm) and flexible cables AWG 26/7 - AWG 22/7.				
	IDC termination should feature nil crossover in acc. with EIA/TIA 568-A/B, gold-plated bronze contacts for >750 mating cycles, >200 insertion cycle				
	Material: RoHS complied				
	Housing material: Polycarbonate (UL-94-V0)				
	Should be available with or without dust protection feature				
	<i>Should be 3P certified</i>				
12	Splicing of Armoured SM/MM Fibre Optics Cable: Splicing, testing and commissioning of supplied, OFC cable of 6-Core Armoured Fibre Optics	72	core		
13	SITC of Fully Loaded 6U 19" 600*600 Wall Mounted Rack with all required accessories -2 Nos. of Fan,16A 6 Plug PDU-1 Nos. ,Cable Manager-2 Nos., Mounting Screws-20 Pcs ; The Front frame should be integrated with top, bottom, front and two side panels for better rigidity and strength, Front Glass Door with Lock loaded, Compliance with standards shall be UL 2416., DIN 41494, IEC EN 60529, IEC EN 62262 , IEC EN 60068-2-11 , ISO 9001:2008 iPreferred Make-Legrand/Netrack/President/Valrack	6	Nos.		

14	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required. Preferred Make-AKG/NORPACK/Polycab/Dauphin				
a	20 mm	480	Mtrs.		
b	25 mm	900	Mtrs.		
15	Supplying and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface/recessed Steel/ PVC conduit as required. The Cat6 Cable Should have the following specifications furnished below.				
a	1 Run CAT6 UTP Cable (for Network only . (Make:Legrand/Panduit/RIT/Siemon)	4575	Mtrs.		
	Detailed Spec for Cat 6 UTP PVC Cable				
	4 Pair Cable with integral cross -member pair separator for uniform characteristic impedance.				
	Category 6 Unshielded Twisted 4 Pair 100 Ω cable shall be compliant with ANSI/TIA/EIA-568-C.2-1 Additional ISO/IEC 11801:2010 (Ed. 2.2) and ISO/IEC 61156-5				
	Suitable for 10GBase-T applications in acc. with IEEE 802.3an up to 500 MHz and 55 m.				
	Transmission Performance Specification for 4 Pair 100 Ω Category 6 Cabling				
	Category 6 UTP cables shall extend between the work area location and its associated telecommunications closet and consist of 4 pair, UTP CM cable jacket.				
	Conductor: Solid Copper				
	Conductor Diameter: 0.555 $\pm$ 0.01mm (23AWG)				
	Insulator HD Polyethylene solid				
	Jacket: PVC RoHS complied				
	Outer Diameter: 6.0 $\pm$ 0.2mm				
	Max Temperature: -20°C to +70°C				
	Should be ETL certified, UL Listed				
	Should have Pulling force of 11.5Kg.				
	Bend Radius: Installation: <4 X Cable Diameter at -20°C $\pm$ 1°C, Operation: <4 X Cable Diameter at -20°C $\pm$ 1°C				
	Conductor Resistance : <9.38 Ω /100m				
	Resistance Unbalance 5% Max				
	Mutual Capacitance : < 5.6nF/100m				
	Capacitance Unbalance : 330pF/100m.				
	Propagation Velocity : 69%				
	ELT certified for 4 Channel should be submitted along with bid submission				
16	Supply & Installation of Camera Stand made of 8 mm Clear Glass along with SS wall mountable stand	33	Nos		
17	Complete Camera Installation and Commissioning Charges	1	Lot		
	Basic Rate Excluding GST				
	GST @18%				
	Total Amount with GST				

Sl. No	Description	Make/Model	Compliance (Yes/No)
1	SITC 1 Gigabit optical transceiver SFP). Supports monomode fiber over 1310nm wavelength nominal) with an LC connector. Preferred Make- Allied Telesis/Alcatel -Lucent/CISCO		
2	SITC of Layer 2 Fully Manageable Network Switch consists of GigE fixed chassis 24 RJ-45 10/100/1G BaseT, 2 fixed RJ45/SFP combo (1G), 2 fixed SFP+ (1G/10G) uplink/ stacking ports. 1RU size, internal AC power supply. Includes country specific power cord, guides, and 19" rack mount hardware. RAM -1GB,Switching Capacity and forwarding Rate-92 Gbps or better and 68 Mpps or better , Latency: < 4 µs, MTBF: 2595 k hours ,Mac Address:16K or more VLAN: 4K or more,System Policies: 1.5K or more, Max Jumbo Frame: 9216 bytes, Multicast Group: up to 1000Inclusive of stacking cable. The detailed specification as follows. ; Preferred Make- Allied Telesis/Alcatel -Lucent/CISCO		
	OEM Criteria for Passive Networking items.		
	OEM must provide declaration on conformity of all the passive components to the following standards: a) TIA/EIA 568-2.D ; b) TIA/EIA 568-3.D ; c) ISO/IEC 11801		
	OEM must be a member in the TIA and BICSI organization. OEM shall have RCDD certified manpower in India for design support and validation. Certificate is Mandatory		
	OEM should have valid ISO 9001 and ISO 14001 certificate on Design, development and manufacture of SW and HW solutions for communication networks.		
	All the products must have RoHS Compliance and from One OEM.		
	The System Integrater should provide tender specific Manufacturer Authorisation Certificate for genuinity of the product sold from the OEM or OEM's Authorised Partner only.		
3	6 Port LIU Switch : SITC of 6 Port Loaded LIU with SC Unit for 6 SM fiber Single Mode fibres OS2 (1 Nos. of Loaded Duplex adapter with Adapter plate) along with 1 Pc of Splice Tray - 6 Fiber Capacity & 6 Nos. of SC Pigtail - Pigtail 1 Meter SM Os2 (Make:Legrand/Panduit/RIT/Siemon)		
	Detailed Specs for Fiber Optic LIU Rack Mount LIU (6 Ports)		
	Fiber optic patch panel : Fiber optic patch panel FMS Termination Drawer should have sufficient slots to accommodate 3 of 12/16 Port LC Adaptor Plates.		
	Should have Slide type drawer structure		
	Height: 1 U, 1.75 inches (12 & 24 Ports)		
	Material: Cold Rolled Steel in surface coated by electrostatic epoxy powder		
	Slots: FMS should have sufficient slots to accommodate adaptor plates		
	Empty Slots of FMS should be covered with blank plates.		
	Splice Tray : Splice Tray of ABS, Comply with UL 94V2 material should be supplied with LIU.		
	Detailed Specs for 6/12/16 Port LC/SC Type Adaptor Plates (SM OS2)		
	The adaptor plate should be pre-loaded with LC/SC Type Single ModeDuplex Adaptors.		
	Port Density :6/12/16 LC/SC Single mode Ports		
	All LC adapters should be duplex type with shutter for protection. Adapters should be snap mount for easy insertion and removal.		
	Insertion Loss: <0.2 to <0.1 dB		
	Compliance :RoHS Compliant		
	Detailed Specs for LC Type 9/125µm SM Fiber Optic Simplex Pigtail		
	Type : 9/125 micron fibre performance		

	Jacket Material : LSZH complying to IEC 61034-1 & 2, IEC-60332-1, IEC-60754-1 & 2		
	Operating Temperature: -40°C to +75°C		
	Connector Insertion Loss: 0.30dB(Max)		
	Attenuation: 1310/1550 : 0.36/0.22 dB/KM		
4	12 Port LIU Switch : SITC of 12Port Loaded LIU with SC Unit for 12 SM fiber Single Mode fibres OS2 (2Nos. of Loaded Duplex adapter with Adapter plate) along with 1 Pc of Splice Tray - 12 Fiber Capacity & 12 Nos. of SC Pigtail - Pigtail 1 Meter SM Os2 (Make:Legrand/Panduit/RIT/Siemon)		
5	24 Port LIU Switch : SITC of 24 Port Loaded LIU with SC Unit for 24 SM fiber Single Mode fibres SM OS2 (12 Nos. of Loaded Duplex adapter with Adapter plate) along with 1 Pc of Splice Tray - 24 Fiber Capacity & 24 Nos. of SC Pigtail - Pigtail 1 Meter SM (Make:Legrand/Panduit/RIT/Siemon)		
6	SITC of Fiber Duplex Patch Cords SC-LC SM Patch Cord 2 mtr. (Make:Legrand/Panduit/RIT/Siemon)		
	Detailed Specs for Patch Cord, LC SC, Duplex, MM OM3, Bend Insensitive G651, PC, LSZH		
	Cable : LC/SC-SC/LC 9/125µm or 1310 µm SM Duplex Patch Cord Length : 2mtrs (as per requirement)		
	Connectors : The optical fiber patch leads shall comprise of Single Mode 9/125µm or 1310 µm fiber with 2XLC type fiber connectors terminated at one end of fiber patch cord and 2xSC type connector at other end of the fiber patch cord		
	Insertion loss should be better than ≤ 0.30 dB		
	Jacket Material : LSZH complying to IEC 61034-1 & 2, IEC-60332-1, IEC-60754-1 & 2		
	Attenuation: 50/1300 : 3.0/1.0 dB/KM		
	Connector Loss : 0.30dB(max)		
	Operating Temperature : -40°C to +75°C		
7	Supply and laying of 6 core Single mode OS2 Loose tube Armoured Optical fiber cable through existing conduit: The Fiber should be OS2 Single Mode Optical Fiber Cable of Size 9/125µm. (Make:Legrand/Panduit/RIT/Siemon)		
	Detailed Specs for Outdoor F/O Cable, Loose Tube, SM - 1x6 Fibers, Central Steel rod with CST, PE		
	The fiber should be optimized for operation at 1310 nm and at 1550 nm.		
	Should fulfill the requirements of ISO.IEC 11801 - 2nd Edition, type OS2, ITU-T REC G 652D spec IEC 60794-1-2 F5		
	Fibre Count : 6 /12		
	Fiber count per tube :6 / 12		
	Filler count :4		
	Filler Material : PP		
	Max. Attenuation: At 1310 nm ≤ 0.36 dB/km, At 1550 nm ≤ 0.22 dB/km		
	Fibre/Tube Identification : Multi Tube		
	Fibre protection (Tubes) : Polybutylene Terephthalate (PBT)		
	Armouring : CST		
	Thickness : 1.6mm		
	Outer Sheath :UV Stabilised Polyethylene (PE)		
	Central Strength Member: Steel wire coated with PE		
	Water Blocking : Thixotropic Gel (Tube);		
	Petroleum Jelly (Interstices)		
	Cable Diameter (D) : 9.0 ± 0.5 mm		
	Mass (Nominal) : 91 kg/km		
	Min. Bending Radius (during Installation) : 20 D;D-Outer Diameter		
	Max. Tensile Strength-Short Term : 1500N		
	Max. Crush Resistance-Short Term : 2200N/100 mm		

	Operating Temperature range : -40°C to +70°C		
	Approved Make : PANDUIT / RIT / SIEMON		
	All the cable and accessories are from the same OEM		
8	SITC of Fully Loaded 24 port UTP jack panel (24 port RJ-45 Loaded CAT-6 UTP 19" rackmountable patch panel preferably with 6 blocks). (Make:Legrand/Panduit/RIT/Siemon)		
	Detailed Specs for 19" 1U 24 port unshielded Patch Panel		
	Patch panel should be modular design, populates up to 24 UTP keystone-type jacks in 1U		
	Patch panel should be Enhanced with cable strain relief with retention tray; It should be single metal both front panel and rear tray		
	Material: sub-rack made of MS Steel with dimension 44.4 mm : 482.6 mm : 105 mm (h:w:d) tray		
	Information Outlet or connectin module should comply with the specification mentioned above in 2		
	Standard : Conforms to IEC-60603-7 (603-7) for keystone-type, snap-on apertures		
	Should be RoHS complied		
9	SITC of Straight LAN Patch Chord-2 Mtr (Make:Legrand/Panduit/RIT/Siemon)		
10	SITC of Straight LAN Patch Chord-1 Mtr (Make:Legrand/Panduit/RIT/Siemon)		
	Detailed Specs for Patch Cord, U/UTP 4P, Cat.6, length 1/2 Metre		
	Standardization: Compliant with Cat.6, Class E requirements: ISO/IEC 11801 2nd Edition Compliant with Cat.6 component standards IEC 60603-7-4 and 60603-7-5		
	Cable shield: U/UTP		
	Number of conductors : 8		
	Stranding: 7 x 0.20 mm (24 AWG)		
	Cable jacket characteristics: cable, metal-free		
	Cable overall diameter: 6.5±0.2 mm		
	Tube / Wire type: stranded conductor		
	Insulation: solid polyolefin, 0.97±0.02 mm diameter		
	Plug: Feature cable retention, with enhanced pull strength.		
	Cat 6 patch cord plug to have round cable holder and strain relief boot to avoid bending.		
	Jacket: PVC with 8 different color options		
	Plug should have high repeatability cross talk performance		
11	Supplying, delivery, installation, testing and commissioning of Flush mounted Cat 6 Information Single Outlet Box on GI concealed Modular Switch Board including connections and making good the damages caused complete as required & as per Direction of Engineer-In-Charge. (Make:Legrand/Panduit/RIT/Siemon)		
	Detailed Specs for Faceplate		
	Should be UK style Keystone-type Faceplates are available in 1, 2 & 4 port configurations		
	<i>Should be featured with shutter options, the screws not to be visible</i>		
	Should support Work with both Flush and Wall mount box		
	Should support Operating Temperature: -10 ~ +60; Storage Temperature: -40~+68; Humidity: 15%~90% RH		
	Material: ABS, UL 94V-0; Spring: SUS304; Surface Finish: Polished		
	Detailed Specs for Cat 6 UTP RJ 45 Keystone Jack		

	RJ45 Jack of Category 6, for the establishing of transmission channels of class E with up to 4 plugged connections, complies with Category 6 requirements of the standards ISO/IEC 11801:2nd edition, EN 50173-1, DIN EN 50173-1: 2002 as well as ANSI/TIA/EIA 568-B.2-1, de-embedded tested in acc. with IEC 60603-7 (603-7), interoperable and backwards compatible with Cat.5e and Cat.5.		
	Suitable for 10GBase-T applications in acc. with IEEE 802.3an up to 500 MHz and 55 m.		
	Compatible with RJ standard plugs (RJ11, RJ12, RJ45), PCB- and tool based connection of installation cables AWG 24 - 22 (0.5 mm - 0.65 mm) and flexible cables AWG 26/7 - AWG 22/7.		
	IDC termination should feature nil crossover in acc. with EIA/TIA 568-A/B, gold-plated bronze contacts for >750 mating cycles, >200 insertion cycle		
	Material: RoHS complied		
	Housing material: Polycarbonate (UL-94-V0)		
	Should be available with or without dust protection feature		
	<i>Should be 3P certified</i>		
12	Splicing of Armoured SM/MM Fibre Optics Cable: Splicing, testing and commissioning of supplied, OFC cable of 6-Core Armoured Fibre Optics		
13	SITC of Fully Loaded 6U 19" 600*600 Wall Mounted Rack with all required accessories -2 Nos. of Fan, 16A 6 Plug PDU-1 Nos. , Cable Manager-2 Nos., Mounting Screws-20 Pcs ; The Front frame should be integrated with top, bottom, front and two side panels for better rigidity and strength, Front Glass Door with Lock loaded, Compliance with standards shall be UL 2416., DIN 41494, IEC EN 60529, IEC EN 62262 , IEC EN 60068-2-11 , ISO 9001:2008 iPreferred Make-Legrand/Netrack/President/Valrack		
14	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required. Preferred Make- AKG/NORPACK/Polycab/Dauphin		
a	20 mm		
b	25 mm		
15	Supplying and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface/ recessed Steel/ PVC conduit as required. The Cat6 Cable Should have the following specifications furnished below.		
a	1 Run CAT6 UTP Cable (for Network only . (Make: Legrand/Panduit/RIT/Siemon)		
	Detailed Spec for Cat 6 UTP PVC Cable		
	4 Pair Cable with integral cross -member pair separator for uniform characteristic impedance.		
	Category 6 Unshielded Twisted 4 Pair 100 Ω cable shall be compliant with ANSI/TIA/EIA-568-C.2-1 Additional ISO/IEC 11801:2010 (Ed. 2.2) and ISO/IEC 61156-5		
	Suitable for 10GBase-T applications in acc. with IEEE 802.3an up to 500 MHz and 55 m.		
	Transmission Performance Specification for 4 Pair 100 Ω Category 6 Cabling		
	Category 6 UTP cables shall extend between the work area location and its associated telecommunications closet and consist of 4 pair, UTP CM cable jacket.		
	Conductor: Solid Copper		
	Conductor Diameter: 0.555 $\pm$ 0.01mm (23AWG)		
	Insulator HD Polyethylene solid		
	Jacket: PVC RoHS complied		
	Outer Diameter: 6.0 $\pm$ 0.2mm		
	Max Temperature: -20°C to +70°C		
	<i>Should be ETL certified, UL Listed</i>		
	Should have Pulling force of 11.5Kg.		

	Bend Radius: Installation: <4 X Cable Diameter at -20°C ±1°C, Operation: <4 X Cable Diameter at -20°C ±1°C		
	Conductor Resistance : <9.38Ω /100m		
	Resistance Unbalance 5% Max		
	Mutual Capacitance : < 5.6nF/100m		
	Capacitance Unbalance : 330pF/100m.		
	Propagation Velocity : 69%		
	ELT certified for 4 Channel should be submitted along with bid submission		
16	Supply & Installation of Camera Stand made of 8 mm Clear Glass alongwith SS wall mountable stand		
17	Complete Camera Installation and Commissioning Charges		