

Proceedings of Pre-bid meeting on Procurement, Supply and Installation of IT Equipment including the work of establishment of LAN Infrastructure for the Horizontal Extension Building of OFSDS held on 12th March, 2020 in the Committee Room of OFSDS, Bhubaneswar.

The pre-bid meeting on clarification of queries of the bidders on the bid document published for Procurement, Supply and Installation of IT Equipment including the work of establishment of LAN Infrastructure in the Horizontal Extension Building of OFSDS was held under the Chairpersonship of Addl. Project Director (IME) on 12th March, 2020 in the Committee Room of OFSDS, Bhubaneswar. Representative of three firms attended the pre-bid meeting. Members attended the meeting is at **Annexure-I**.

At the outset, Addl. Project Director (IME) extended warm well come to all members and initiated the discussion. She urged the bidders to understand the requirement of project and to put forth the doubts / queries, if any on the Request for Proposal published for the above purpose. The queries, clarification and modification made to RFP were as below:

Sl	Query	Reference	Clarification
1.	<p>Mis-match in the RFPs published for procurement of items:</p> <p>It was submitted that some items proposed to be procured under RFP for Procurement, Supply and Installation of IT Equipment including the work of establishment of LAN Infrastructure vide Tender No 03/2020, dated 4th March, 2020 shall be more appropriate to be procured under the RFP published for Interior Designing and Execution on Turn-key basis vide Tender No 04/2020, dated 4th March, 2020 and vice versa.</p> <p>The items to be shifted from IT Procurement RFP to Interior Designing RFP is</p> <ol style="list-style-type: none"> 1. Procurement of storage facility for high end equipment. <p>The items to be shifted from Interior Designing RFP to IT Procurement RFP are...</p> <ol style="list-style-type: none"> 1. Procurement of EPABX 2. EPABX extensions with telephone receiver 	<p>RFP of OFSDS vide Tender Document No 03/2020 published on 4.3.2020 & Tender Document No 04/2020 published on 4.3.2020</p>	<p>The proposal of the vendors was deliberated and was agreed to suitably exchange the items to be procured in both the RFP as has been proposed by the vendors.</p> <p>The corresponding Appendixes of both the Request for Proposals (RFP) will be read accordingly.</p>
2.	<p>Purchase of Rack:</p>	<p>Page- 26</p>	<p>The proposal was accepted and the details of</p>

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	It was proposed that one Rack shall be procured for storage of IT Equipment, which was not in the original RFP	(Appendix-B-2)	specification of the rack were discussed and has been indicated in Appendix-B with the specification of others items.
3.	Qualification of Team Leader: It is submitted that the qualification of Team leader proposed in the ToR is BE / B-Tech (IT & Computer Science), which shall be broad based covering other disciplines. It was also suggested that Electrical, ETC, ECE Branch shall be considered, which are relevant to proposed work.	Page-11 (SI No 2.1)	It was decided BE / B. Tech of any Branch will qualify for the position, however the experience of working in the area of installation, configuration of IT Equipment and work in Computer Networking setting as proposed in the RFP will be strictly referred for scoring.
4.	Indication of reputed Brands for procurement of specific items: It was proposed by the bidders that standard brand name shall be indicated for specific items like Display Screen / Smart Board, LAN, Switches, Routers, Wifi AP. Otherwise possibility of supply of items of local / inferior brand can not be ruled-out.	Page- 26 (Appendix-B-2)	The proposal was agreed by the Committee. Reputed brands of the proposed items were discussed, keeping in mind the requirement of the project and the specification has been modified accordingly.
5.	Clarification in Specification: It was proposed that the specification of each item shall be specific, enabling the vendors to quote price for appropriate model to the requirement of the project.	Page- 26 (Appendix-B-2)	The proposal of the vendors on indicating appropriate specification for each item was agreed by the Committee. Details of specification of each items were discussed and the same has been updated and placed at Annexure-II . The bids shall be submitted based on the revised specification at Annexure-II
6.	Warranty Period:		All products will be covered with warranty period of 3 Years. The vendor needs to submit the original Warranty Certificate of OEM Company to OFSDS.
7	Response time		Response time for Warranty & AMC Shall be 24X7 or Next Business Day

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7.	AMC	Page-21 (Point-6.0)	It was decided that selected vendor shall provide Annual Maintenance Services for five years for all the items supplied under the RFP. Annual Maintenance Cost shall be indicated in the Financial Proposal
8.	Size of Display Screen / Smart Board	Appendix-B-2 & C-2, Page 26 & 27	It is decided that the Display Screen with Smart Board facility as has been in the original ToR (RFP) will be procured, however, the Display Screen with Smart Board for first floor will be of 65 inch instead of 85 inch as was published in the original RFP.

Meeting ended with a vote of thanks to Chair.

M.B.
Dr. Meeta Biswal, IFS
Addl. Project Director (IME)

Sudarsan
Shri Sudarsan Behera, OFS- I (SB)
Dy. Project Director (A&F)

Sharmistha Kar
12/13/20
Smt. Sharmistha Kar
State Programme Manager (GIS & MIS)

Sourendra Prasad Geru
12/03/2020
Shri Sourendra Prasad Geru
System Manager

Subrata Kumar Kar
12/03/2020
Shri Subrata Kumar Kar
State Programme Manager (C&ID)

Annexure-I

Officials attended the Pre-bid meeting			
Sl. No.	Name	Designation	Position
1	Dr. Meeta Biswal, IFS	Addl. Project Director (IME), OFSDS	Chair Person
2	Shri Sudarsan Behera, OFS-I (SB)	Deputy Project Director (A&F)	Member
3	Shri Subrata Kumar Kar	SPM (C & ID), OFSDP-II	Member
4	Smt. Sharmistha Kar	SPM (GIS, MIS & Website)	Spl. Invitee
5	Shri Sourendra Prasad Geru	System Administrator/ Manager	Spl. Invitee
List of Representatives of Bidders			
6	Shri B B Tripathy	Sales Executive, USAM Tech (P) Ltd,	
7	Alok Ranjan Pal	Asst. Manager, USAM Tech (P) Ltd,	
8	Shri Rudra Prasad Bishoyi	Sales Officer, SIEL	
9	Shri Amit Kothari	Proprietor, Everest Computer	

Annexure-II (Appendix- B-2)

List of Floor wise Equipment for Extension-LRC Building – Ground Floor				
S. No.	Name of Equipment	Specification	Unit	No. of Units
1	Smart Board/ Interactive Board/ Interactive Touch Display	Size 55" LED Screen, OS: Windows / Android, Brightness (w/Protection Glass) : 350 cd/m ² and above, Ante-glare facility, Resolution: 3840 X 2160 Ultra HD, Inbuilt 8 GB Memory Touch Type : IR, Response Time 8ms(G to G) Multi Touch Point : Max 20 points / Max 10 writing Interface : HDMI (3),Pseudo HDMI Port, RGB / Audio In,RS232C In, RJ45,USB 2.0 (3, Front : 2ea, Bottom side: 1ea Only for software update), USB 3.0 (3), Touch Out(USB2.0,B Type) (2),HDMI (1), Optical Output / Audio Out, Touch Pen (2), Life time (Typ.) 30,000 Hrs (Min.),Viewing Angle (H x V) 178 x 178. Make: LG/Samsung/Cisco/Panasonic/Similar	Nos	1
2	A0 Laser Plotter	Wide Format Digital Printer/ Plotter (High Speed Laser or Equivalent) 11 inch - 42 inch , 4 GB Printer Memory, 4 GB Scanner Memory, All types of paper / non-tear able polyester, transparent sheets, Minimum 3 Roller containers, Built in Scanner: 208 - 914 mm (8.2 - 36") , USB , Ethernet 1 Gbit/s	Nos	1
3	Rack	Supplying, Fixing & Dressing of Wall Mount Double section RACK 19" 15 U, 1xPDU 6socket 6/16Amp, 3xCable Manager, 3x blank, 500x600.	Nos	1
4	Provision for LAN / Switches	Layer 3 Switch 24 10/100/1000 (12 Copper Ports, 12 SFP+ Module) or Multigigabit copper ports, 1 G Each, 4x 10G Network Module and x86 CPU complex with 8-GB memory, and 16 GB of flash and external USB 3.0 SSD pluggable storage slot, Flexible uplink with 1G, Multigigabit, 10G, 25G, and 40G, Dual-stack support for IPv4/IPv6 and dynamic hardware forwarding table allocations, Switching capacity 208 Gbps, SDN Ready, Support for AES-256 with the powerful MAC sec 256-bit encryption algorithm. Make: Cisco/ Juniper/HP/Brocade/Extrem	Nos	1
5	Provision for LAN / Switches	Layer2 Switches of 24 10/100/1000 Ethernet Ports, Uplink Interfaces 4SFP, PoE power 370W, stacking, Forwarding bandwidth 108 Gbps, Switching bandwidth 216 Gbps, Forwarding Rate: 64-Byte L3 Packets 95Mpps, Make: Cisco/ Juniper/HP/Brocade/Extrem	Nos	1
6	Provision for LAN / Routers	Enterprise Router with 3 onboard Gigabit Ethernet ports configurable LAN or WAN, Aggregate Throughput 60Mbps, SFP ports x2, NIM slots x2, 4GB Memory, AC power supply. Make: /Cisco/Juniper/HP/Brocade/Extrem	Nos	1
7	Provision for LAN / WiFi AP	Access Point, 802.11 ac Wave 2, data rate of up to 867 Mbps on the 5-GHz radio, 3x3 multiple-input multiple-output (MIMO) technology with two spatial streams when operating in single-user or multiuser MIMO mode, Wi-Fi6 Ready, software based controller support 40AP, Make: Cisco/Ruckus/Alvion/ D-Link/ Similar	Nos	2
8	Workstation with CPU, and Monitor	Intel Xeon E-2124 G 4C, RAM- 16 GB, (1X 16 GB) DDR4 2666 UDIMM NECC, HDD 2 TB 7200 RPM SATA 3.5 in, GFX NvdQdr 4GB P1000, DVDRW, Win 10 Pro 64 WKST, 3/3/3 SING Warranty.	Nos	1
9	EPABX	Digital PBX with Line Capacity of 100 , populate with 8 port analog card populated, EPABX facility for IP Telephony. Make: Beetel/Matrix/Nokia/NEC.	Nos	1
10	Analog telephone receiver	Analog Desk handset with Caller ID Make: Beetel/BPL/Matrix/Nokia/NEC/Similar	Nos	6

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11	Cable	Supplying & drawing of 4-pair Unshielded twisted pair with a cross filler (+), meeting Category 6A standards as per TIA-568C.2, The cable should be tested till 250 MHz, Shall be Fire-Retardant, Low-Smoke & Zero- Halogen as per IEC 60332-1, IEC 61034-2 & IEC 60754-1 respectively. Make: Systmax/Panduit/Legrand	Nos	4
12	Jack Pannel	Supplying & Fixing of UTP Jack Panel, loaded with 24 nos UTP ports for Non-PCB based IO Jacks (RJ45, TIA-568C Category-6A, Shall have integrated bonding bar or other mechanism for grounding, Shall be loaded with individually replaceable 24 nos. Category-6A certification by Jacks complying with TIA-568.C.2, Shall be having a 6 port module construction for better cable dressing at the rear, the jacks shall have RJ-45 type connector with bend limiting and strain relief boot for securing IDC contacts from external forces and for maintaining the bend radius of the cable complete in all respect. Make: CISCO/ Systmax/Panduit/Legrand	Nos	2
13	Patch Cord	Supplying & Fixing of Category 6A, UTP patch cords shall be constructed of 24-27 AWG unshielded twisted pair stranded copper cable with an enhanced performance modular plug at each end. Patch cord cable shall be offered in multiple coloured UTP cable for design flexibility with a clear strain relief boot on each modular plug. All patch cords shall be compatible with both T568A and T568B wiring schemes. UTP Cable will be 1.0 mtr. complete in all respect. Jacket - LSZH. Make: Systmax/Panduit/Legrand/ D-Link/ DigiLink/ Similar	Nos	14
14	Patch Cord	Supplying & Fixing of Category 6A, UTP patch cords shall be constructed of 24-27 AWG unshielded twisted pair stranded copper cable with an enhanced performance modular plug at each end. Patch cord cable shall be offered in multiple colored UTP cable for design flexibility with a clear strain relief boot on each modular plug. All patch cords shall be compatible with both T568A and T568B wiring schemes. UTP Cable will be 2.0 mtr. complete in all respect. Jacket - LSZH. Make: Systmax/Panduit/Legrand/ D-Link/ DigiLink/ Similar	Nos	14
15	I/O Single	Supplying & Fixing of Faceplate Single ports with Non-PCB based IO Jacks (RJ45, TIA-568C Category-6A). Category-6A certification by Jacks complying with TIA-568.C.2, with bend limiting and strain relief boot for securing IDC contacts from external forces and for maintaining the bend radius of the cable complete in all respect. Surface Mount Box. Make: Systmax/Panduit/Legrand/ D-Link/ DigiLink/ Similar	Nos	12
16	I/O Dual	Supplying & Fixing of Faceplate Dual ports with Non-PCB based IO Jacks (RJ45, TIA-568C Category-6A). Category-6A certification by Jacks complying with TIA-568.C.2, with bend limiting and strain relief boot for securing IDC contacts from external forces and for maintaining the bend radius of the cable complete in all respect. Surface Mount Box. Make: Systmax/Panduit/Legrand	Nos	6

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Annexure-II (Appendix- C-2)

List of Equipment for First Floor				
S. No	Name of Equipment	Specification	Unit	No. of Units
1	Smart Board/ Interactive Board/ Interactive Touch Display with Video Conferencing software and camera	Size 65" LED Screen, OS: Windows / Android, Brightness (w/Protection Glass) : 350 cd/m ² and above, Ante-glare facility, Resolution: 3840 X 2160 Ultra HD, Inbuilt 8 GB Memory Touch Type : IR, Response Time 8ms(G to G) Multi Touch Point : Max 20 points / Max 10 writing Interface : HDMI (3),Pseudo HDMI Port, RGB / Audio In,RS232C In, RJ45,USB 2.0 (3, Front : 2ea, Bottom side: 1ea Only for software update), USB 3.0 (3), Touch Out(USB2.0,B Type) (2),HDMI (1), Optical Output / Audio Out, Touch Pen (2), Life time (Typ.) 30,000 Hrs (Min.),Viewing Angle (H x V) 178 x 178. Make: LG/Samsung/Cisco/Panasonic/Similar VC Camera Room Kit Mini, Protocols ● H.323 ● SIP ● Cisco Webex, 4K UltraHD camera ● Supports up to 60 fps (max 30 fps with best overview enabled) ● 8 MP image sensor ● 1/1.4 CMOS ● 2x zoom ● f/1.4 aperture ● 120° horizontal field of view ● Auto framing (face detect) ● Auto brightness, and white balance ● Focus distance 1 m to infinity. Software VC Meeting Webex/MS-Team/Syype Business with 3year licence.	Nos.	1
2	Provision for LAN -WiFi AP and accessories	Access Point, 802.11ac Wave 2, data rate of up to 867 Mbps, Dual frequency 2.4 and 5-GHz radio support, 3x3 multiple-input multiple-output (MIMO) technology with two spatial streams when operating in single-user or multiuser MIMO mode, Wi-Fi6 Ready, software based controller support 40AP, Make: Cisco/Ruckus/Alvion/ D-Link/ Similar	Nos.	2
3	Analog telephone receiver	Analog Desk handset with Caller ID Make: Beetel/BPL/Matrix/Nokia/NEC/Similar	Nos	2
4	Patch Cord	Supplying & Fixing of Category 6A, UTP patch cords shall be constructed of 24-27 AWG unshielded twisted pair stranded copper cable with an enhanced performance modular plug at each end. Patch cord cable shall be offered in multiple colored UTP cable for design flexibility with a clear strain relief boot on each modular plug. All patch cords shall be compatible with both T568A and T568B wiring schemes. UTP Cable will be 1.0 mtr. complete in all respect. Jacket - LSZH.Make: Systmax/Panduit/Legrand / D-Link/ DigiLink/ Similar	Nos	4
5	Patch Cord	Supplying & Fixing of Category 6A, UTP patch cords shall be constructed of 24-27 AWG unshielded twisted pair stranded copper cable with an enhanced performance modular plug at each end. Patch cord cable shall be offered in multiple colored UTP cable for design flexibility with a clear strain relief boot on each modular plug. All patch cords shall be compatible with both T568A and T568B wiring schemes. UTP Cable will be 2.0 mtr. complete in all respect. Jacket - LSZH. Make: Systmax/Panduit/Legrand/ D-Link/ DigiLink/ Similar	Nos	4
6	I/O	Supplying & Fixing of Faceplate Single ports with Non-PCB based IO Jacks (RJ45, TIA-568C Category-6A). Category-6A certification by Jacks complying with TIA-568.C.2, with bend limiting and strain relief boot for securing IDC contacts from external forces and for maintaining the bend radius of the cable complete in all respect. Surface Mount Box . Make: Systmax/Panduit/Legrand/ D-Link/ DigiLink/ Similar	Nos	4

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Annexure -II (Appendix FIN - B2)

Annexure-II							
List of Floor wise Equipment for Extension - LRC Building (Ground Floor)							
S. No.	Name of Equipment	Specification	Unit	No. of Units	Rate per Unit	Amount (in Rs)	GST in % Extra
1	Smart Board/ Interactive Board/ Interactive Touch Display	Size 55" LED Screen, OS: Windows / Android, Brightness (w/Protection Glass) : 350 cd/m ² and above, Ante-glare facility, Resolution: 3840 X 2160 Ultra HD, Inbuilt 8 GB Memory Touch Type : IR, Response Time 8ms(G to G) Multi Touch Point : Max 20 points / Max 10 writing Interface : HDMI (3),Pseudo HDMI Port, RGB / Audio In,RS232C In, RJ45,USB 2.0 (3, Front : 2ea, Bottom side: 1ea Only for software update), USB 3.0 (3), Touch Out(USB2.0,B Type) (2),HDMI (1), Optical Output / Audio Out, Touch Pen (2), Life time (Typ.) 30,000 Hrs (Min.),Viewing Angle (H x V) 178 x 178. Make: LG/Samsung/Cisco/Panasonic/Similar	Nos	1			
2	A0 Laser Plotter	Wide Format Digital Printer/ Plotter (High Speed Laser or Equivalent) 11 inch - 42 inch , 4 GB Printer Memory, 4 GB Scanner Memory, All types of paper / non-tear able polyester, transparent sheets, Minimum 3 Roller containers, Built in Scanner: 208 - 914 mm (8.2 - 36"), USB , Ethernet 1 Gbit/s	Nos	1			
3	Rack	Supplying, Fixing & Dressing of Wall Mount Double section RACK 19" 15 U, 1xPDU 6socket 6/16Amp, 3xCable Manager, 3x blank, 500x600.	Nos	1			
4	Provision for LAN / Switches	Layer 3 Switch 24 10/100/1000 (12 Copper Ports, 12 SFP+ Module) or Multigigabit copper ports, 1 G Each, 4x 10G Network Module and x86 CPU complex with 8-GB memory, and 16 GB of flash and external USB 3.0 SSD pluggable storage slot, Flexible uplink with 1G, Multigigabit, 10G, 25G, and 40G, Dual-stack support for IPv4/IPv6 and dynamic hardware forwarding table allocations, Switching capacity 208 Gbps, SDN Ready, Support for AES-256 with the powerful MAC sec 256-bit encryption algorithm. Make: Cisco/ Juniper/HP/Brocade/Extrem	Nos	1			
5	Provision for LAN / Switches	Layer2 Switches of 24 10/100/1000 Ethernet Ports, Uplink Interfaces 4SFP, PoE power 370W, stacking, Forwarding bandwidth 108 Gbps, Switching bandwidth 216 Gbps, Forwarding Rate: 64-Byte L3 Packets 95Mpps, Make: Cisco/ Juniper/HP/Brocade/Extrem	Nos	1			
6	Provision for LAN / Routers	Enterprise Router with 3 onboard Gigabit Ethernet ports configurable LAN or WAN, Aggregate Throughput 60Mbps, SFP ports x2, NIM slots x2, 4GB Memory, AC power supply. Make: /Cisco/Juniper/HP/Brocade/Extrem	Nos	1			
7	Provision for LAN / WiFi AP	Access Point, 802.11 ac Wave 2, data rate of up to 867 Mbps on the 5-GHz radio, 3x3 multiple-input multiple-output (MIMO) technology with two spatial streams when operating in single-user or multiuser MIMO mode, Wi-Fi6 Ready, software based controller support 40AP, Make: Cisco/Ruckus/Alvion/ D-Link/ Similar	Nos	2			
8	Workstation with CPU, and Monitor	Intel Xeon E-2124 G 4C, RAM- 16 GB, (1X 16 GB) DDR4 2666 UDIMM NECC, HDD 2 TB 7200 RPM SATA 3.5 in, GFX NvdQdr 4GB P1000, DVDRW, Win 10 Pro 64 WKST, 3/3/3 SING Warranty.	Nos	1			
9	EPABX	Digital PBX with Line Capacity of 100 , populate with 8 port analog card populated, EPABX facility for IP Telephony. Make: Beetel/Matrix/Nokia/NEC.	Nos	1			

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10	Analog telephone receiver	Analog Desk handset with Caller ID Make: Beetel/BPL/Matrix/Nokia/NEC/Similar	Nos	6			
11	Cable	Supplying & drawing of 4-pair Unshielded twisted pair with a cross filler (+), meeting Category 6A standards as per TIA-568C.2, The cable should be tested till 250 MHz, Shall be Fire-Retardant, Low-Smoke & Zero-Halogen as per IEC 60332-1, IEC 61034-2 & IEC 60754-1 respectively. Make: Systmax/Panduit/Legrand	Nos	4			
12	Jack Pannel	Supplying & Fixing of UTP Jack Panel, loaded with 24 nos UTP ports for Non-PCB based IO Jacks (RJ45, TIA-568C Category-6A, Shall have integrated bonding bar or other mechanism for grounding, Shall be loaded with individually replaceable 24 nos. Category-6A certification by Jacks complying with TIA-568.C.2, Shall be having a 6 port module construction for better cable dressing at the rear, the jacks shall have RJ-45 type connector with bend limiting and strain relief boot for securing IDC contacts from external forces and for maintaining the bend radius of the cable complete in all respect. Make: CISCO/ Systmax/Panduit/Legrand	Nos	2			
13	Patch Cord	Supplying & Fixing of Category 6A, UTP patch cords shall be constructed of 24-27 AWG unshielded twisted pair stranded copper cable with an enhanced performance modular plug at each end. Patch cord cable shall be offered in multiple coloured UTP cable for design flexibility with a clear strain relief boot on each modular plug. All patch cords shall be compatible with both T568A and T568B wiring schemes. UTP Cable will be 1.0 mtr. complete in all respect. Jacket - LSZH. Make: Systmax/Panduit/Legrand/ D-Link/ DigiLink/ Similar	Nos	14			
14	Patch Cord	Supplying & Fixing of Category 6A, UTP patch cords shall be constructed of 24-27 AWG unshielded twisted pair stranded copper cable with an enhanced performance modular plug at each end. Patch cord cable shall be offered in multiple colored UTP cable for design flexibility with a clear strain relief boot on each modular plug. All patch cords shall be compatible with both T568A and T568B wiring schemes. UTP Cable will be 2.0 mtr. complete in all respect. Jacket - LSZH. Make: Systmax/Panduit/Legrand/ D-Link/ DigiLink/ Similar	Nos	14			
15	I/O Single	Supplying & Fixing of Faceplate Single ports with Non-PCB based IO Jacks (RJ45, TIA-568C Category-6A). Category-6A certification by Jacks complying with TIA-568.C.2, with bend limiting and strain relief boot for securing IDC contacts from external forces and for maintaining the bend radius of the cable complete in all respect. Surface Mount Box. Make: Systmax/Panduit/Legrand/ D-Link/ DigiLink/ Similar	Nos	12			
16	I/O Dual	Supplying & Fixing of Faceplate Dual ports with Non-PCB based IO Jacks (RJ45, TIA-568C Category-6A). Category-6A certification by Jacks complying with TIA-568.C.2, with bend limiting and strain relief boot for securing IDC contacts from external forces and for maintaining the bend radius of the cable complete in all respect. Surface Mount Box. Make: Systmax/Panduit/Legrand	Nos	6			

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Annexure-II (Appendix FIN C2)

List of Equipment for First Floor							
S. No	Name of Equipment	Specification	Unit	No. of Units	Rate per Unit	Amount (in Rs)	GST in % Extra
1	Smart Board/ Interactive Board/ Interactive Touch Display with Video Conferencing software and camera	Size 65" LED Screen, OS: Windows / Android, Brightness (w/Protection Glass) : 350 cd/m ² and above, Ante-glare facility, Resolution: 3840 X 2160 Ultra HD, Inbuilt 8 GB Memory Touch Type : IR, Response Time 8ms(G to G) Multi Touch Point : Max 20 points / Max 10 writing Interface : HDMI (3),Pseudo HDMI Port, RGB / Audio In,RS232C In, RJ45,USB 2.0 (3, Front : 2ea, Bottom side: 1ea Only for software update), USB 3.0 (3), Touch Out(USB2.0,B Type) (2),HDMI (1), Optical Output / Audio Out, Touch Pen (2), Life time (Typ.) 30,000 Hrs (Min.),Viewing Angle (H x V) 178 x 178. Make: LG/Samsung/Cisco/Panasonic/Similar VC Camera Room Kit Mini, Protocols ● H.323 ● SIP ● Cisco Webex, 4K UltraHD camera ● Supports up to 60 fps (max 30 fps with best overview enabled) ● 8 MP image sensor ● 1/1.4 CMOS ● 2x zoom ● f/1.4 aperture ● 120° horizontal field of view ● Auto framing (face detect) ● Auto brightness, and white balance ● Focus distance 1 m to infinity. Software VC Meeting Webex/MS-Team/Sykpe Business with 3year licence.	Nos.	1			
2	Provision for LAN -WiFi AP and accessories	Access Point, 802.11ac Wave 2, data rate of up to 867 Mbps, Dual frequency 2.4 and 5-GHz radio support, 3x3 multiple-input multiple-output (MIMO) technology with two spatial streams when operating in single-user or multiuser MIMO mode, Wi-Fi6 Ready, software based controller support 40AP, Make: Cisco/Ruckus/Alvicon/D-Link/ Similar	Nos.	2			
3	Analog telephone receiver	Analog Desk handset with Caller ID Make: Beetel/BPL/Matrix/Nokia/NEC/Similar	Nos	2			
4	Patch Cord	Supplying & Fixing of Category 6A, UTP patch cords shall be constructed of 24-27 AWG unshielded twisted pair stranded copper cable with an enhanced performance modular plug at each end. Patch cord cable shall be offered in multiple colored UTP cable for design flexibility with a clear strain relief boot on each modular plug. All patch cords shall be compatible with both T568A and T568B wiring schemes. UTP Cable will be 1.0 mtr. complete in all respect. Jacket - LSZH.Make: Systmax/Panduit/Legrand / D-Link/ DigiLink/ Similar	Nos	4			
5	Patch Cord	Supplying & Fixing of Category 6A, UTP patch cords shall be constructed of 24-27 AWG unshielded twisted pair stranded copper cable with an enhanced performance modular plug at each end. Patch cord cable shall be offered in multiple colored UTP cable for design flexibility with a clear strain relief boot on each modular plug. All patch cords shall be compatible with both T568A and T568B wiring schemes. UTP Cable will be 2.0 mtr. complete in all respect. Jacket - LSZH. Make: Systmax/Panduit/Legrand/ D-Link/ DigiLink/ Similar	Nos	4			

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6	I/O	Supplying & Fixing of Faceplate Single ports with Non-PCB based IO Jacks (RJ45, TIA-568C Category-6A). Category-6A certification by Jacks complying with TIA-568.C.2, with bend limiting and strain relief boot for securing IDC contacts from external forces and for maintaining the bend radius of the cable complete in all respect. Surface Mount Box . Make: Systmax/Panduit/Legrand/ D-Link/ DigiLink/ Similar	Nos	4				
NB: Bidders are to enclose the duly filled in Appendices B-2, C2 and FIN Appendices B-2, C-2 as enclosed in the pre-bid clarification along with the tender document:								


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