



THE ASIATIC SOCIETY

FOUNDED IN 1784

(An Institution of National Importance declared by an Act of Parliament)
1, PARK STREET, Kolkata 700 016



SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF PASSIVE NETWORK AT THE ASIATIC SOCIETY

Tender No. : AS/IT/2017/02 Date: 30.08.2017

Last Date and Time of submission of the Tender: 1600 Hrs on 21/09/2017

Notice Inviting Tender (NIT)

Sealed Tenders are invited from experienced, resourceful and reputed firms for Supply, Installation, Testing and Commissioning of Network at The Asiatic Society at 1, Park Street, Kolkata 700 016 as per enclosed Basic Details, Scope of Work, Eligibility Conditions, Instruction to Bidders and General Terms & Conditions.


The Tender comprise as follows:

SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF PASSIVE NETWORK AT THE ASIATIC SOCIETY

Tenders in prescribed forms are invited from agencies (either OEM who is willing to undertake total scope of work or an authorized solution provider of the OEM) having experience in supply, installation, testing, commissioning and maintenance of structured cabling, Fiber Optics Technology, Switching, Wi-Fi etc. for Office Network at The Asiatic Society, Kolkata.

All bidders would be bound by the tender specifications in all respects as detailed in the Tender Documents of The Asiatic Society.

The Tender Documents can be downloaded from the website www.asiaticsocietycal.com.


(S B Chakrabarti) 30/8/17
General Secretary
General Secretary
THE ASIATIC SOCIETY

INSTRUCTIONS TO THE BIDDERS

A. General Information:

- 1) Tenders are invited by the General Secretary, The Asiatic Society, 1, Park Street, Kolkata- 700 016 for and on behalf of The Asiatic Society for **supply, installation, testing and commissioning of passive network at The Asiatic Society.**
- 2) Tender documents consisting of Technical & Financial Bids shall be submitted by the bidders in two separate sealed envelopes, Cover –I named ‘**TECHNICAL BID**’ and Cover –II named ‘**PRICE BID**’, latest by **1600 Hrs on 21/09/2017**. Cover-I should consist all necessary required documents except “PRICE BID”. Both the above said sealed Covers i.e. Cover –I & Cover –II be then put in another separate big cover Cover–III named ‘**TECHNO-COMMERCIAL BID**’ and properly wax sealed.
- 3) Bids should be forwarded by Bidders under their original letter pad inter alia furnishing details like TIN number, VAT/CST number, Bank address with NEFT/RTGS Account if applicable, etc and complete postal & e-mail address of their office.
- 4) Sealed bids should be dropped in the “**TENDER BOX**” at 3rd Floor, Main Building of The Asiatic Society, 1, Park Street, Kolkata-700 016 this office by due date and time. Late tenders will not be accepted in any circumstances.
- 5) A bidder may modify or withdraw his bid after submission provided that the written notice of modification or withdrawal is received by this office prior to deadline prescribed for submission of bids. No bid shall be modified after the deadline for submission of bids and expiration of the period of bid validity specified. Withdrawal of a bid during this period will result in Bidder’s forfeiture of bid security (EMD).
- 6) The Technical Bids, which do not contain full information and documents called for, shall be rejected. The financial bids of only those bidders shall be opened, who has qualified in technical bid. **The technical specifications mentioned here are minimum specifications and bids with higher specifications are also admissible.**
- 7) **Price bid should specify individual pricing of items as mentioned in the Price bid format. However the composite price will be considered for selection of the successful bidder.**
- 8) The bidders shall submit all details, documents etc. as required in the tender document duly signed on each page. In case bidder fails to do so, The Asiatic Society reserves the right to reject the tender without seeking any further clarification.
- 9) The bidder shall submit the copy of the tender document and addenda thereto, if any, with each page signed and stamped to confirm the acceptance of the entire terms and conditions of the tender.
- 10) Only the documents relevant to items specified and required for the Network at The Asiatic Society should be submitted. Documents irrelevant to tender scope of work like bulky brochures, leaflets, handouts, catalogues, general information of items, companies and branding documents should NOT

be attached. The website links for this additional information if required may be mentioned in one page and this page may be attached with the tender.

- 11) The Asiatic Society at its sole discretion reserves the right to extend last date of submission of tender and the same shall be updated in the website and all bidders are requested to visit the website for latest updates.
- 12) The Asiatic Society reserves the right to annul the bidding process at any time without any liability for such annulment, without assigning any reason there to.
- 13) The Asiatic Society reserves the right to invite revised tenders with or without amendment at any stage without any liability for such invitation and without assigning any reason thereof.
- 14) The Asiatic Society shall notify the successful bidder through Registered letter/ speed post / fax / e-mail or in person confirming that their offer has been accepted. The Asiatic Society will issue the Work Order (WO) to the successful bidder.
- 15) Bidder should submit their bid after careful and precise site inspection so that their submitted tender (Technical and Price Bid) would be taken as final. Any further addition of any components, software, hardware etc. if required for the successful completions (supply, installation, commissioning, testing, trail etc.) of the project should be carried out at the vendor's responsibility and cost only.
- 16) This WO shall indicate the approximate items & quantity to be supplied by the bidder and the amount which The Asiatic Society shall pay to the successful bidder in consideration of the execution of the solution by them.
- 17) **The vendor must enclose a tender specific original authorization from the Manufacturer (OEM) of devices and other hardware equipment.**
- 18) Prices quoted by the bidders should include all local taxes, GST, duties, levies, transportation costs, back-to-back support with OEM during Warranty and insurance costs till the equipment is accepted.
- 19) Quoted rates must be valid for 6 months from the date of closing of Tender.
- 20) **CONSORTIUM approach is not acceptable.** The Bids shall be submitted by only the Bidder. Declaration in this regard needs to be submitted.

B. Earnest Money Deposit (E.M.D)

Earnest Money Deposit (E.M.D) Rs.50,000/- (Rupees fifty thousand Only) by way of D.D./Banker's Cheque in favour of **"The Asiatic Society"** payable at Kolkata to be submitted along with **"TECHNICAL BID"**.

The bids of the bidder, who fail to submit E.M.D, shall be summarily rejected. The E.M.D. of the unsuccessful bidders would be returned within 15 days from the date of finalization of Tender.

The E.M.D. of the successful bidder will be retained as the Security deposit for 1 year.

E.M.D. will not carry any interest.

C. Payment Terms:

The payment will be made as per the following terms:

STAGE	PARTICULARS
I	50% of the product cost , on receipt of all the items in good condition and duly accepted by The Asiatic Society and on submission of bills.
II	40% of the balance on satisfactory installation commissioning and successful trial of the Integrated network system by the contractor along with acceptance of all documentation mentioned as per Tender and on submission of bills.
III	Balance 10% after 12 months from the date of installation.

D. Pre- Qualification criteria

1. The bidder should not have been blacklisted by the department /Ministries of the Government of India / PSUs / corporate Sectors /Educational Institutions / any other reputed organizations. A self-declaration to this effect is to be produced by the bidder along with “TECHNICAL BID”.
2. The bidder should submit copy of valid Trade License, PAN and Sales Tax / GST Registration No. with the “TECHNICAL BID” of Tender documents.
3. The bidder should submit the Income Tax return and Sales Tax clearance certificate for last three previous years ending 31st March 2016 with the “TECHNICAL BID” of Tender documents.
4. The bidder should submit one of the following along with “TECHNICAL BID”:-
 - i) Proof of Registration of the bidder under relevant law such as Companies Act, and /or Shop and Establishment Act.
 - ii) For Partnerships firms, full name and address of each partner along with the certified copy of the registered partnership deed, copy of Trade License.
 - iii) For proprietorship firms, full name and address of proprietor along with the copy of trade license.
5. The tenderer should be either OEM who is willing to undertake total scope of work or an authorized solution provider of the OEM. If the tenderer is not a manufacturer he must furnish OEM authorization letter (in OEM’s letterhead) specific to this requirement. **Tender specific MAF has to be submitted for each & every individual items quoted. Bidder without a valid MAF will be out rightly rejected.**
6. The bidder should be authorized partner of quoted product and the latest certificate from the manufacturer only should be attached along with the “TECHNICAL BID”.
7. Tenderer must submit a detailed Bill of Material in tabular format with product description, make/type & model, part code & quantity including warranty details & part codes as per Specification in Tender along with the “TECHNICAL BID” as per **Annexure-II & III**

8. The bidder should submit brochure/catalogues of quoted products & relevant detailed specification of documents has to be provided along with the “TECHNICAL BID”.
9. Mandatory Quality Certifications: The bidder must possess valid ISO 9001:2008/ISO 9001:2008 and ISO 14001:2004/ISO 14001:2004 certificate. Failure to comply with this condition will disqualify the bidders. The certificate must be valid during the currency of the project should be submitted along with Bid.
10. The Bidding Company must be a profit making company for the last 3 years & should be operational in business for the last 10 years. Documentary evidence has to be provided along with the Bid.
11. The Bidder must have the following minimum annual average turnover of minimum Rs. 1,00,00,000/- (Rupees One Crores only), for the last 3 financial year i.e. 2013-14 ,2014-15 and 2015-16. All bidders should submit copies of Audited statement of Accounts for the said three financial years along with the tender documents. In case of exemption from the requirement of Audit of Statement of Accounts, necessary certificate should be provided.
12. The bidder shall furnish Bank Solvency Certificate in a **sealed envelope** alongwith the Technical Bid for Rs 20,00,000/- (Rupees Twenty Lakhs only) from any Nationalised /Scheduled Bank having a branch at Kolkata.
13. The intending bidder must have experience and past performance on similar nature of contract for last preceding three years ended on 31st March 2015 in Central/State Govt. Depots./Organization/PSUs or in reputed establishments/ Govt. Educational institute/ reputed Private Educational Institute in India. All the order copies must be accompanied by Successful completion certificate should submit along with Bid.
14. The bidder should have successfully completed One similar single completed work costing not less than the amount equal to Rs.20,00,000.00/- (Twenty Lakhs) or more at any.
OR
Two similar single completed works costing not less than the amount equal to Rs.10,00,000.00/- (Ten Lakhs)

All bidders must submit documentary evidence in support of above in the form of certified copy of work Order/ completion certificate.
15. Bidders have to quote all the items mentioned in tender document. No part bid will be accepted. Otherwise, the bid(s) will be treated as cancelled.
16. All passive-networking components i.e. CAT6 UTP, Fibre Cable, Patch Panel, LIUs, Patch Cord, Pigtail should be from a single OEM.

17. The Bidder shall give an undertaking that he will comply with all conditions in the tender documents and sign each page of the tender documents. For this purpose, the tender documents shall be completed in all respects and duly signed and stamped on each page by an authorized representative of the bidder.
18. Bidders are expected to submit all necessary documents in support of fulfilment of eligibility criteria. However, in case any further document is found necessary for proper assessment, the bidder shall be requested to furnish the same within five (5) working days from the date of intimation in writing.
19. The offer will remain valid for a period of 180 days from the date of opening of Price Bid. If required, the validity shall be extended for further period by mutual consent.
20. The Asiatic Society reserves the right to accept or reject any bid or to annul the bidding process and reject all bids at any time prior to award of the Contract / Work Order without assigning any reason whatsoever and without thereby incurring any liability whatsoever to the affected Bidder(s). Mere submission of tender documents shall not mean fulfilment of requirements of eligibility of the Bidder(s).
21. Deviations seeking any change in the text of various Clauses or Articles shall not be accepted.
22. The Asiatic Society takes no responsibility for delay, loss or non-receipt of documents sent by post/ courier at any time. No financial obligation shall accrue to The Asiatic Society in such an event.

E. Scope Of Work

The scope of work includes supply, installation, testing and commissioning of passive components alongwith **1 year free maintenance**, as per The Asiatic Society requirement for networking solution. The Asiatic Society intends to network to the building as shown in drawing, specifications, and as specified in Annexures, schedule of items etc. The Asiatic Society reserves the right to amend aforesaid drawing, specifications, schedule of items etc. during execution of work. It will be the responsibility of the contractor to integrate the proposed networking system with the existing in-campus network.

The scope also includes providing necessary labour, materials, scaffoldings, construction equipment, tools and plants, appliances, as well as preparing detailed lay out plan (to be approved by The Asiatic Society), and execution of all incidental items not specified or indicated but implied or required to complete the work under this scope of work in all respects and in strict compliance with the specifications, Annexure , schedule of items and drawings including their revisions and amendments made from time to time.

The scope of work also includes conducting all necessary tests for all materials, providing drawings/catalogues, sample etc of all bought out items to The Asiatic Society.

All Fibre cable routes through overhead and has to be approved by The Asiatic Society authority prior to installation of the cabling.

Vendor shall run the Fibre cables in a star topology, terminated in the Main building server room at (3rd Floor) one end and other end should terminate at the respective floors of Main building & respective building in The Asiatic Society as per cable route as per proposed Fibre laying diagram.

Vendor shall observe the bending radius and pulling strength requirements of the 4 Pair UTP cable during handling and installation.

The vendor shall be responsible for pointed labels for all cables and cords, distribution frames and outlet locations, according to The Asiatic Society specifications at the time of delivery. This includes labelling of the existing cables, cords, distribution frames and outlet locations under this same scope of work. Labels shall not be written by hand.

The Category 6 cable runs shall be tested for conformance to the specifications of TIA/EIA Category 6. All fiber testing shall be performed on all fibers in the completed end to end system.

Complete documentation and end to end test results must be submitted to The Asiatic Society after installation.

Any levelling or filling, if required to commence work, will be done by the vendor at his own cost.

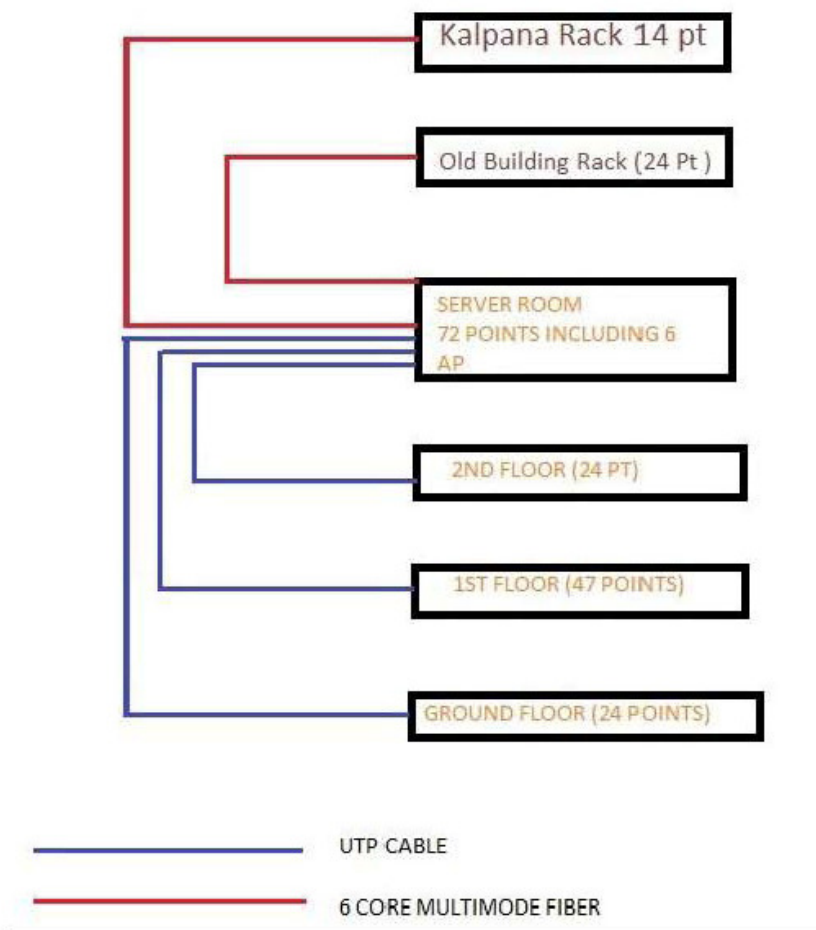
The Scope of Work also includes final surfacing to all repairs done for the fixtures, installation etc. and removal of spoil arising out of the contract.

The work shall be executed strictly in accordance with the relevant and current Indian Standard Specification and recent code of practice, National Building Code of India, the practice of Indian Institute of Architect and/or instruction and direction given by The Asiatic Society.

Site Address for Network solutions Installation: The Asiatic Society, 1, Park Street, Kolkata-700 016.

Annexure – I

Schematic Diagram:



Approximate Number of users in different buildings of the Asiatic Society

SI No.	Building	Floor	No. of Node Per Building	No. of Node Per Floor
1	Main Building	G+ 3	167	Ground Floor: 24 Nos. First Floor: 48 Nos. Second Floor: 24 Nos. Third Floor: 72 Nos.

2	Old Building	G+ 1	24	
3	Kalpana Building	G+ 2	14	
	Total number of Users		205	

Annexure – II

BILL OF MATERIAL (approximate)

MATERIAL:

SI No	Material	Quantity	Unit
1	6 Core Multi Mode Outdoor Fiber Cable (Low smoke zero haloge)	250	Mtr
2	Rackmount LIU with plate 24Duplex LC	3	Nos.
3	LC Pigtail MM	24	Nos.
4	LC Duplex Adaptor MM	12	Nos.
5	Splice Kit E/W 2 Fusion Splice Trays,	3	Nos.
6	Fibre Optic Patch Cord MM Duplex LC LC 3mtr	4	Nos.
7	CAT 6 A UTP Cable (305mtr Box)	22	Box
8	CAT 6 A UTP Unloaded Patch Panel	9	Nos
9	CAT 6 A UTP Patch Cord 7 Ft	205	Nos
10	CAT 6 A UTP Patch Cord 3 Ft	225	Nos
11	CAT 6 A UTP Information Outlet	430	Nos
12	Single Port Face Plate	205	Nos
13	Back Box	205	Nos
14	25mm uPVC pipe with accessories	2100	Mtr
15	Aluminium Trunking 35/50	300	Mtr
16	25mm GI pipe	30	Mtr
17	9U Rack with accessories	4	Set
18	12U Rack with accessories	1	Set

19	45U Rack with accessories 800mm X 1000mm	1	Set
----	--	---	-----

Service:

SI No	Material	Quantity	Unit
1	Laying of Optical fiber cable	250	Mtr
2	Fixing & Installation of LIU	3	Nos
3	Optical Fiber Splicing Charges	24	Nos.
4	OTDR Testing	12	Nos.
5	Fixing and laying of uPVC pipe and Aluminium Raceway on the ceiling/along the wall	2400	Mtr
6	Fixing and laying of gi pipe on the ceiling/along the wall	30	Mtr
7	Laying of Cat-6A UTP Cable	6710	Mtr
8	Fixing & Installation of Patch Panel	9	Nos
9	Termination of Information Outlet	430	Nos
10	Fixing of Single Face Plate and Back Box	205	Nos
11	Installation & Dressing of 12U & 9U Racks	5	Set
12	Installation & Dressing of 45U Racks	1	Set
13	Core Cutting	5	Nos
14	Penta Scanning	205	Nos

Annexure –III

Technical Specification of Components:

OPTICAL FIBER Specification

Multimode fiber optic OSP cable:

1. Fiber Cable should be Low smoke zero haloge.
2. The cable shall armored with a corrugated polymer coated steel tape.
3. The cable shall support the Bend Insensitive Standard G.651.1

4. The multimode fiber shall be dispersion- unshifted, fiber which meets the ITU-T G.657A1 requirements.
5. The fiber cable shall be fully capable of handling existing and legacy multimode applications which traditionally operate in the 850nm and 1300nm regions.
6. The fiber cable shall be designed to handle the new and emerging applications.
7. The fiber cable shall be constructed with industry standard buffer tubes, stranded around a central strength member.
8. The buffer tubes shall be compatible with standard hardware, cable routing and fan-out kits.
9. The cable core shall be water blocked with dry water-blocking materials, making access and handling of individual tubes easier and craft-friendly.

Fibre Shelf for Multi Mode Fiber :

1. Shelf shall be used for a combination of splicing and termination of fiber-optic building cable or outside plant (OSP) cables.
2. The shelf shall be available in a 1U & 2 U height fully enclosed shelf, with integrated front cable management through included.
3. 19” rack or cabinet mountable
4. It shall have slide-out tray for easy access
5. There should be adaptor panel of 24port LC
6. LC Adaptors should be considered
7. There should be 3 feet Single Mode LC Pigtail.

Multimode Fiber optic Patch cords (LC-LC) :

1. Meet all TIA/EIA-492AAA performance requirements 100% factory tested for insertion loss.
2. LC-LC Duplex Patch Cords 3mtr (10feet) Length.

UTP CABLE Specification

Channel Performance
<p>The Category 6A/ Class EA UTP SCS shall comply with the following standards</p> <ol style="list-style-type: none"> a) ISO/IEC 11801:2010 b) EN 50173 Part 1 through Part 5:2010 and 2011 c) ANSI/TIA-568-C d) IEC 60603-7-4 e) Local/National Codes and Regulations
<p>The Category 6A/ Class EA UTP system should support the following IEEE Ethernet applications</p> <ol style="list-style-type: none"> a) 802.3e - 1BASE5 b) 802.3i - 10BASE-T c) 802.3u - 100BASE-TX, 100BASE-T4 d) 802.3y - 100BASE-T2

<p>e) 802.3z - 1000BASE-X f) 802.3ab - 1000BASE-T g) 802.af - Power Over Ethernet (15.4W) h) 802.3at - Power Over Ethernet Enhancements (25.5W) i) 802.3az - Energy Efficient Ethernet</p>
<p>Additionally the Category 6A/ Class EA UTP SCS shall be capable of supporting the following Fibre Channel Applications Standards, per Technical Committee 11 of INCITS:</p> <p>a) 1GFC-BASE-T b) 2GFC-BASE-T c) 4GFC-BASE-T</p>
<p>It is critical that guaranteed worst-case values are provided to ensure the SCS can support 1G transmission without risk. "Average value" or "Typical Value" is not acceptable as they do not account for lower performance channels. The proposed Category 6A UTP SCS, when configured as a worst-case 100 metre channel shall provide performance headroom over limits specified by Cat6A</p>
<p>NEXT - Minimum 3 db above the standards; Should support a minimum of 4 connector Channel with a minimum 3 db guaranteed NEXT</p>
<p>Insertion Loss - 3%</p>
<p>Return Loss - 1.0 db</p>
<p>The SCS must consist of individual components provided by the same manufacturer. "Mix and Match" products are not allowed as there is no guarantee that the overall channel will meet Category 6A Channel requirements if constructed with components from different vendors.</p>
<p>The Category 6A cable and Category 6A channel components shall be manufactured by a single manufacturer. The manufacturer shall warrant the Category 6A channel cable, components, and applications for a period of 20 years.</p>
<p>The 20 year warranty shall be a transferable warranty and has component replacement policy in case of manufacturing defect.</p>
<p>The SCS must be tested by an ISP 17025 accredited 3rd Party test facility to EIA/TIA 568C, ISO/IEC 11801 Amendment 1 and for the channel testing must be provided as part of the bid response.</p>
<p>The Category 6A system should support channels that are shorter than 15 meters for 2,3,4 connector channels without any minimum length requirements.</p>
<p>Horizontal Cable</p>
<p>The Cable should meet ANSI/TIA 568C.2 Category 6A Specifications</p>
<p>Cables should have TRACKING Number to check the genuinely / details of the test reports</p>

The cable should consist of Eight 23 AWG copper conductors. Copper Clad Aluminum or any other combinations are not allowed
The Cable should be round in shape
The weight of the cable box of 1000 Feet should not be less than 34.7 lb /15.74 lg.
The nominal Jacket thickness should be 0.05 inches/0.127 cm
The nominal Outside diameter should not be more than 0.285 inches
The cable should support the installation temperature : 0 to 60 ⁰ C It should support Operating temperature of -20 to 60 0 C
The cable and cordage shall be "True UTP" components that do not include internal or external shields, screened components or drain wires. No Special Grounding requirements.
The horizontal cable shall have a unique print string on the cable jacket. This unique identifier shall also be used for on-line reference to a full set of factory tests that were performed on a sample from the same mater reel. The test parameters shall include NEXT, PSNEXT, Return Loss, Attenuation, ELFEXT and PSELFEXT. The on-line reference must be available on the SCS vendor public website, such that it can be accessed at any time.
Category 6A - 10Gigabit outlets
The 8-pin modular (RJ-45) jacks shall comply with IEC 60603-7-4
The Category 6A outlets shall be backward compatible with Category 6 and 5E cords and cables.
The Category 6A outlets shall be of a universal design supporting T568 A & B wiring.
The information outlet shall have a Current Rating of 1.5 A at 20°C
The information outlet must support 90 degree cable termination.
3 rd Party Verification test certificates shall be provided to show compliance to ISO/IEC 11801 Amendment 2 testing for Cat 6 _A components.
The 8-pin modular (RJ-45) jacks shall comply with IEC 60603-7-4.
The information outlet will have insertion life of 750 cycles minimum.
Modular RJ45 Patch Cords
SCS must support patch cord lengths of 1 meter minimum and equipment cords of 2 meter minimum and The Patch cords shall be available in Stranded and solid core construction
Cords shall be equipped with 8-pin modular plugs on each end.
All cords shall be round, and consist of copper conductors, tightly twisted into individual pairs.
Nominal cordage diameter shall not exceed 7.24 mm.
Plugs shall be designed with an anti-snap latch to facilitate easy removal during move, add and change processes.

3rd Party verification of the Fire Safety/ Environmental tests listed above must be provided as part of the bid response.
The cordage shall be UTP components that do not include internal or external shields, screened components or drain wires.
The patch cords will have insertion life of 750 cycles minimum.
Patch Panel
The ganged adapter style patch panel will utilize increments of six RJ-45 style jacks in a common moulded component.
The ganged adapters shall have RJ45 jack in the front and Insulation Displacement Connector (IDC) at the rear of the module.
The panel must be capable of supporting an upgrade to an intelligent system without any interruption to service due to patch cord removal or terminal block re-termination.
Termination managers must be provided with the panel. These termination managers provide proper pair positioning, control, and strain relief features to the rear termination area of the panel.
3rd Party Verification test certificates shall be provided to show compliance to ISO/IEC 11801 Amendment 2 testing for Cat 6 _A components.
When configured in worst-case 100 meter channels with full cross-connects and consolidation points with the other products proposed in this tender, the panel shall be capable of delivering the minimum guaranteed channel performance
The panel shall have horizontal cord organizers available as to improve patch cord management
The patch panel type shall be a 1U panel capable of supporting 24 unshielded modular 8-pin connectors compliant with IEC 60603-7-4 while meeting the Channel Performance as specified in Amendment 1 to ISO/IEC 11801:2002
The panel shall be available in 24-port and 48-port configurations with universal A/B labeling and 110 connector terminations on rear of panel allowing for quick and easy installation of 22 to 24 AWG cable
The panel shall be equipped with a removable rear mounted cable management bar and front and rear labels
The panel shall be UL and cUL Listed
Operating Temperature Range = 14°F to 140°F (-10°C to 60°C)
Storage Temperature Range = -40°F to 158°F (-40°C to 70°C)
Humidity = 95% (non condensing)
Nominal Solid Conductor Diameter = 0.025 to 0.020 in (0.64 to 0.51 mm) (22 to 24 AWG)
Nominal Stranded Conductor Diameter:=0.025 to 0.020 in (0.64 to 0.51 mm) (22 to 24 AWG)
Insulation Types = All plastic insulates (including PVC, irradiated PVC, Polyethylene, Polypropylene, PTF Polyurethane, Nylon, and FEP)
Insertion Life = 750 minimum insertions of an FCC 8-Position Telecommunications Plug

FACE PLATE Flush-mounted modular faceplates
Faceplates shall be available in single, duplex & Quad arrangement in a single gang configuration.
Faceplate outlet openings shall be numbered on both sides for installation and maintenance identification.
Faceplates shall be High-impact, flame retardant, UL-rated 94V-0 thermoplastic.

RACK

Specification

9U RACK Wall Mount :

PARAMETER	SPECIFICATION
Maximum Height	485mm
Maximum Width	600 mm
Maximum Depth	400 mm
Rack Height	9U
Weight Capacity	Minimum 90 Kg
Standard Warranty	3 year

12U Rack Wall Mount :

PARAMETER	SPECIFICATION
Maximum Height	620 mm
Maximum Width	600 mm
Maximum Depth	600 mm
Rack Height	12U
Weight Capacity	Minimum 90 Kg
Standard Warranty	3 year

45 U Rack Wall Mount :

PARAMETER	SPECIFICATION
Maximum Height	2125 mm
Maximum Width	600 mm
Maximum Depth	1070 mm
Rack Height	45U
Vertical Posts	16 gauge
Front Door	16 gauge
Rear Door	18 gauge
Roof	18 gauge
Side Panels	18 gauge
Standard Warranty	3 year

Annexure –IV

PRICE BID

Tender for Supply, Installation, Testing and Commissioning of Network at The Asiatic Society

Sl No.	Product Description	Approximate Quantity	UOM	Rate/Unit (INR)	Amount (INR)	Applicable Taxes	Total Including Tax (INR)
1	6 Core Multi Mode Outdoor Fiber Cable (Low smoke zero haloge)	250	Mtr				
2	Rackmount LIU with plate 24Duplex LC	3	Nos.				
3	LC Pigtail MM	24	Nos.				
4	LC Duplex Adaptor MM	12	Nos.				
5	Splice Kit E/W 2 Fusion Splice Trays,	3	Nos.				
6	Fibre Optic Patch Cord MM Duplex LC LC 3mtr	4	Nos.				
7	CAT 6 A UTP Cable (305mtr Box)	22	Box				
8	CAT 6 A UTP Unloaded Patch Panel	9	Nos				
9	CAT 6 A UTP Patch Cord 7 Ft	205	Nos				
10	CAT 6 A UTP Patch Cord 3 Ft	225	Nos				

11	CAT 6 A UTP Information Outlet	430	Nos				
12	Single Port Face Plate	205	Nos				
13	Back Box	205	Nos				
14	25mm MS pipe with accessories	2100	Mtr				
15	Aluminium Trunking 35/50	300	Mtr				
16	25mm GI pipe	30	Mtr				
17	9U Rack with accessories	4	Set				
18	12U Rack with accessories	1	Set				
19	45U Rack with accessories 800mm X 1000mm	1	Set				
20	Laying of Optical fiber cable	250	Mtr				
21	Fixing & Installation of LIU	3	Nos				
22	Optical Fiber Splicing Charges	24	Nos.				
23	OTDR Testing	12	Nos.				
24	Fixing and laying of uPVC pipe and Aluminium Raceway on the ceiling/along the wall	2400	Mtr				
25	Fixing and laying of gi pipe on the ceiling/along the wall	30	Mtr				
26	Laying of Cat-6A UTP Cable	6710	Mtr				
27	Fixing & Installation of Patch Panel	9	Nos				
28	Termination of Information Outlet	430	Nos				
29	Fixing of Single Face Plate and Back Box	205	Nos				
30	Installation & Dressing of 12U & 9U Racks	5	Set				
31	Installation & Dressing of 45U Racks	1	Set				
32	Core Cutting	5	Nos				

33	Penta Scanning	205	Nos				
34	Project Management & Documentation	1	No				

INR in Words (Inclusive of Taxes):