



INDIA LITERACY BOARD

LITERACY HOUSE, LUCKNOW

India Literacy Board, Literacy House, Kanpur Road, Manas Nagar,
Lucknow-226023

Telephone: (0522)2470268 Email: directorilbko@gmail.com

Website: www.indialiteracyboard.org

-: Name of Work :-

Competitive Bidding for Supply, installation, testing and commissioning of GePON Based Campus Networking System in India Literacy Board, Literacy House, Kanpur Road, Lucknow.

Bid REFERENCE: GePON/Networking/ILB/2023

Date:

Bid submission start date & time	:	28-08-2023	10:00 AM
LAST DATE AND TIME FOR SUBMISSION OF Bids	:	20-09-2023	03:00 PM
DATE AND TIME OF OPENING OF ONLINE TECHNICAL Bids	:	20-09-2023	03:30 PM
PLACE OF OPENING OF Bids	:	India Literacy Board, Literacy House, Kanpur Road, Manas Nagar, Lucknow-226023,	
Estimated Cost of the work	:	Rs. 09.00 Lakh	
Earnest Money to be deposited	:	Rs. 90,000.00 (10%).	
ADDRESS FOR COMMUNICATION	:	India Literacy Board, Literacy House, Kanpur Road, Manas Nagar, Lucknow-226023,	

Notice Inviting Tender

Tenders are invited for Supply, installation, testing and commissioning of GePON Based Campus Networking System in India Literacy Board, Literacy House, Kanpur Road, Lucknow.

Sl. No.	Item	Technical bid opening date and Time	Financial bid opening date and Time
	Tenders are invited for Supply, installation, testing and commissioning of GePON Based Campus Networking System in India Literacy Board, Literacy House, Kanpur Road, Lucknow.	20-09-2023 03:30 PM	Will be intimated after opening and evaluation of the Technical Bids.

The details of submission of bids along with eligibility, date & time, opening of technical/Financial bids, experience and other terms & conditions will be available in tender documents. **Tender documents will be available in the Office of the Director, India Literacy Board, Literacy House, Kanpur Road, Lucknow at the price of Rs. 2,000/- (Two Thousand only) during the timelines as mentioned in the following Table.** It can also be seen and studied at the official website of India Literacy Board- www.indialiteracyboard.org

The interested Bidders can Purchase the Tender Document by paying the above mentioned amount accordingly. The detailed terms and conditions are given in Tender document. The India Literacy Board, Literacy House reserves the right to reject or cancel any or all bids or annul the whole Bidding process without assigning any reason to bidders; and the decision of India Literacy Board, Literacy House will be final & binding.

(Sandhya Tewari)
Director,
India Literacy Board
Lucknow.

INVITATION FOR BIDS

1. Bidders are advised to study the tender Document carefully before submission of their Bids. Submission of tender shall be deemed to have been done after careful study and examination of the procedures, terms and conditions of the tender Document with full understanding of its implications.
2. Tender documents will be available in the Office of the Director, India Literacy Board, Literacy House, Kanpur Road, Lucknow at the price of Rs.2,000/- (Two Thousand only) during the timelines as mentioned in the following Table :-

(a)	Date of publication of Tender notice & availability of Tender Document	Tender Notice has been published at the official website of India Literacy Board- www.indialiteracyboard.org and also in the leading daily news papers. Tender Document will be available from dated 28-08-2023, 10:00 AM till dated 20-09-2023, 3:00 PM
(b)	Bid submission start date & time	Start date 28-08-2023 at 10:00 AM
(c)	Bid submission end date & time	End date 20-09-2023 at 03:00 PM
(d)	Technical Bid opening date & time	20-09-2023 at 3:30 PM
(e)	Financial Bid opening date & time (Only of technically qualified bidders)	Will be notified later. (after evaluation of Technical Bids).
(f)	Venue of opening of technical & financial Bids	India Literacy Board, Literacy House, Kanpur Road, Manas Nagar, LUCKNOW
(g)	Contact officer	Name: Mr. Anoop Kumar Srivastava, OSD, India Literacy Board, Kanpur Road, Lucknow. Phone-9415322233.

3. The bidders will have to deposit Rs. 90,000.00 (Ninety Thousand) as Earnest Money Deposit in favour of "Director, India Literacy Board, Literacy House, Kanpur Road, Lucknow" in the form of FDR/ Bank Draft/Irrevocable Bank Guarantee along with the Technical Bid (which can be adjusted later in the amount of Performance Guarantee, in case the Work is awarded). This is mandatory; otherwise the Bid will be treated as "Non-Responsive" and will be rejected.
4. The Bids will be opened in the presence of bidder's representatives, who choose to attend at the venue, date and time mentioned in the above table. An authority letter of bidder's representative will be required to be produced.
5. The India Literacy Board, Literacy House, Kanpur Road, Manas Nagar, Lucknow reserves the right to cancel any or all the bids without assigning any reason thereof. The decision of India Literacy Board, Literacy House will be final and binding.
6. In the event of date specified for Bids opening being declared a holiday for India Literacy Board, Literacy House; then the due date for opening of Bids shall be the following working day at the appointed time and place.

7. The bidder is expected to examine all instructions, forms, terms and specifications in the Bid document. Failure to furnish all information required as per the Bid document or submission of Bid, not responsive to the Bid document in any respect, will be at the bidder's risk and may result in rejection of the said Bid.

PREPARATION OF BID

Language of Bid –

8. The Bid prepared by the bidder, as well as all correspondence and documents relating to the Bid exchanged by the bidder and the Purchaser shall be written either in English or Hindi language.

Documents Constituting the Bid –

The Bid prepared by the bidder shall comprise the following components:-

9. **Technical Bid** – Technical Bid will comprise of:
 - The service provider should have at least 03 years of experience including the current financial year 2023-24 in the Networking related works in the autonomous establishments or the State/ Central Governments.
 - Technical specifications of the Products.
 - Copy of PAN card.
 - Copy of GST Registration certificate.
 - Experience Certificate.
 - EMD of Rs.90,000.00 (Ninety Thousand) in favour of "Director, India Literacy Board, Kanpur Road, Lucknow" in form of FDR/ Bank Draft/ Irrevocable Bank Guarantee.

Qualification Details – includes copies of required documents as per Technical Bid justifying that the bidder is qualified to perform the contract if his/her bid is accepted and that the bidder meets the criteria outlined in the Qualification Requirement and Technical Specification and fulfill all the conditions of the Contract justifying that the bidder is complying with all the conditions of the Contract and Technical Specifications of the Bid Document as no deviation will be acceptable to the Client (ILB).

Bid Form –

10. The bidder shall purchase the Bid Form from the office of India Literacy Board and will complete the Bid Form as prescribed therein.

Bid Price –

11. The bidder shall quote the prices separately in the sheet file (BoQ). The Prices shall be quoted in Indian Rupees only.
12. The documentary evidence of bidder's qualification to perform the Contract shall be as per Qualification Requirements specified in the tender document.

Bid Submission –

13. Bids will be submitted in a big sealed envelope which will contain two separate sealed envelopes inside; one envelope will contain Technical Bid and the other envelope will contain Financial Bid.

Period of Validity of Bid –

14. Bid shall remain valid up to 90 days after the date of Bid opening.
15. In exceptional circumstances, the Client (ILB) may solicit the bidder's consent to an extension of the period of Bid validity. The request and the response thereto shall be made in writing. A bidder may refuse the request without forfeiting its Bid security. A bidder granting the request will not be required nor permitted to modify its Bid.

SECTION II:

TERMS & CONDITIONS OF TENDER

1. The Bidder will have to supply, install, testing and commissioning of all supplied products.
2. All hardware products will necessarily have a Warranty Period of 03 years.
3. It is mandatory to deposit EMD with the Technical Bid.
4. It is mandatory to attach the certificate of manufacturer Authorization of Main Active Components.
5. The bidder must have implemented minimum one Network contract work in the autonomous establishments/ Central or State Governments in the last 3 years including current Financial Year 2023-24.
6. Vendors who are registered in UP MSME are exempted for EMD, turnover and past experience.
7. The bidder firm will have to attach Certificate of Goods & Service Tax (GST) registration along with tender documents.
8. Tender Document will not be accepted on photocopies/ Xerox.
9. If the bidder is found giving a bribe or any wrong information with the tender, his security deposit will be seized and the tender will be rejected.
10. After complete satisfaction of the India Literacy Board & keeping in view the interest of the institution, the decision will taken. India Literacy Board shall have the full rights to reject any bid submitted by the bidder or cancel the tender, without any reason, in the administrative interest, or to change the conditions or terminate any condition." Any tenderer/ bidder will not have any right to debate on doing so.
11. Any dispute between the Bidder Firms and the India Literacy Board will be subjected to Lucknow jurisdiction for its disposal.
12. The Bidder is agreed to adhere to the Terms & Conditions as mentioned above.

Signature
Bidders Official Seal

BILL OF QUANTITY

Bill of Quantity for Optical Fiber Cable with GePON Technology			
ACTIVE COMPONENTS			
1	Optical Light UNIT (OLT) 4 PORT	Nos	1
2	Optical Network Unit	Nos	15
3	UTM / Firewall XGS-126	Nos	1
4	PoE Network Managed Gigabit 24 Port Switch.	Nos	3
5	2MP IP Camera Bullet / Dome	Nos	16
6	8 PORT NVR with 1 TB Surv. HDD	Nos	2
PASSIVE COMPONENTS			
1	Cat-6 Cable Bundle of 305 Mtr.	Box	5
2	Fiber Optic Cable 6 core.	Mtr.	500
3	8 port Splitter box	Nos	10
4	2 Core FC yarn	Mtr.	500
5	HDPE Pipe of 32MM	Mtr.	500
6	LIU 6 Port Fully Loaded	Nos.	2
7	Laying of Fiber Optic Cable with Wall Support on clamp	Mtr.	400
8	Splicing of fiber Optic Cable per core	Nos	160
9	SMB Fiber Termination box	Nos	35
10	Information Outlet Box (I/O) Fully Loaded.	Nos.	20
11	Network Rack 6 U Loaded with Std. Accessories.	Nos.	3
12	Patch Panel fully loaded 24 ports	Nos.	3
13	Patch Cord 1 Mtr. From Switch to Patch Panel	Nos	75
14	Patch Cord 3 Mtr. From I/O Box to User End.	Nos.	20
15	PVC conduit 25 mm medium wit Std. Make ISI Marked.	Mtr.	400
11	Fiber Pigtail Single Mode.	Nos	35
12	SC-SC Single Mode single Fiber Patch Cord	Nos	35
13	One Time commissioning JOB work including all required accessories	Job	1

Technical Specifications of Products

Product Specification of OLT	Compliance (Yes/No)
Rack 1U 19-inch standard box	
Ports Quantity in total 8 Nos.	
Copper 10/100/1000M auto-negotiation 4 Nos	
SFP 1GE/ SFP+ 10GE 4 Nos	
Management Port 1*10/100BASE-T out-band port, 1*CONSOLE port	
Transmission Distance 20KM	
EPON port speed Upstream 1.25G, Downstream 1.25G	
Wavelength TX 1490nm, RX 1310nm	
Connector SC/UPC	
Fiber Type 9/125µm SMF	
TX Power +2~+7dBm (PX20+)	
Rx Sensitivity -30dB (PX20+)	

Saturation Optical Power -6dBm	
Max Power Consumption(W) 30W	
Working Temperature 00C +500C	
Storage Temperature -400C~+850C	
Relative Humidity 5 ~ 90%(non-conditioning)	
Warranty: 03 years	
Product Specification of ONU	Compliance (Yes/No)
ITU-T G.984 and G.988 compliant, BBF.247 ready	
BBF TR.156 VLAN Model compliant	
Indoor wall or table mount	
Four 10/100/1000Base-T Ethernet RJ-45 ports	
Two FXS POTS ATA RJ-11 ports	
USB 2.0 Host ports	
Wi-Fi Access Point (AP) 802.11b/g/n/ac 2Tx2R MIMO 2.4GHz/5GHz Wi-Fi interface	
Configurable for either Ethernet Bridged mode or Gateway Routed mode operation	
Built-in L2 wire-speed switch with dynamic bridging, 4k VLANs (Untagged, Priority tagged, Port based, 802.1q single tagged, 802.1ad (Q-in-Q) double tagged)	
ToS/DSCP to 802.1p mapping	
Flexible traffic mapping, policing & shaping	
VoIP features: SIP, multiple voice codecs, T.30 and T.38 Fax, various CLASS services	
Supports feature rich VoIP application profiles for Caller ID, Call progress, Call Waiting, Call Direct, and Call presentation	
Integrated router with features such as IPv4, IPv6, IPoE, PPPoE, NAT, DHCP, DNS, IP Filtering, IP forwarding, Static IP routing, IP QoS and Firewall	
Warranty: 03 years	
Product Specification of UTM FIREWALL	Compliance (Yes/No)
Firewall Throughput 10,500 Mbps	
NGFW Throughput 2,500 Mbps	
IPS Throughput 3,250 Mbps	
Concurrent Sessions 5,000,000	
New connections/sec 69,900	
Threat Protection throughput 900 Mbps	
IPsec VPN throughput 5,500 Mbps	
IPsec VPN concurrent tunnels 2,500	
SSL VPN concurrent tunnels 1,500	
Local Storage/SSD Integrated at least 64 GB SSD	
Reporting (On-box or On-premises solution as given by same OEM)	
Ports (Minimum) 12 x GbE copper	
Use any port as a LAN, WAN, DMZ or custom ports	
Intrusion Prevention System	
Advanced Threat Protection	
Traffic Shaping/ Bandwidth management	
TLS 1.3 inspection	
Web Filtering and Control	
Application Filtering and Control	

Solution should provide unlimited 2FA mobile authenticator for both android and IOS from NGFW OEM	
SD-WAN	
SSL VPN	
Warranty including advanced replacement of faulty appliance	
24/7 OEM Level Remote Support	
Common Criteria EAL4+	
ICSA Labs/ NDPP	
NSS Labs	
TEC Certificate	
ISO 9001	
Listed in Gartner Magic Quadrant 2021 & 2022	
Manufacturer Authorization (MAF)	
OEM Certified Engineer for Bidder	
Escalation Matrix for Support	
Firewall should have dual gateway antivirus engine one must be from Gartner leader quadrant AV vendor Required	
Warranty: 03 years	
Product Specification of POE Switch	Compliance (Yes/No)
Physical Port • 24 10/100/1000 Base-T Ethernet PoE Ports • 4 Gigabit SFP Ports	
Switching Capability: 56Gbps	
MAC Address Table: 8K	
PoE Power Budget: 280W	
Memory Per Unit: 2.4MB	
Jumbo Frame: 10K	
Auto-negotiation for port speed and duplex mode	
Spanning Tree Protocol - Support STP / RSTP / MSTP (max 16 instance) - Loopback Detection - BPDU Filter - BPDU Guard	
IGMP v1/v2/v3 Snooping: IGMP Querier IGMP Proxy MVR	
VLANs 256 IEEE 802.1q tag based VLAN with 4K Vlans ID	
Port Isolation (Multi-to-one)	
Port Based VLAN	
MAC Based VLAN	
Voice VLAN	
Guest VLAN	
Mac address Binding	
Support Broadcast storm control	
Warranty: 03 years	
Product Specification of CCTV Camera	Compliance (Yes/No)
1/2.7" 2 Megapixel progressive CMOS	
Interoperability: ONVIF	
Network: RJ-45	
Power Supply: 12v DC/POE	
Protection: IP67	
Warranty: 03 years comprehensive	

2.000 NOS	
3 XIT098NW0165/	
Enterprise Grade surveillance HDD	
Product Specification of NVR	Compliance (Yes/No)
8 Channel 1U 8PoE 4K 2HDDs < (>&<) > H.265 Lite Network Video Recorder	
Smart H.265+/Smart H.264+/H.265/H.264; H.265 auto switch	
Max 200 Mbps incoming bandwidth	
Up to 8MP resolution for preview and playback	
8-channel decoding@1080p (30 fps)	
2 SATA ports, up to 10 TB for a single HDD.	
capacity varies with environment temperature	
1 RJ-45 10/100/1000 Mbps self-adaptive Ethernet port	
Support IPC UPnP, 8 PoE ports	
Warranty: 03 years	
Product Specification of Fiber Cable	Compliance (Yes/No)
No. of Cores 2 Core	
Cable Type Unarmored	
Mode Type Single Mode	
Diameter 5.5mm	
Jacket Material HDPE	
Fiber Type G652D	
Tensile Strength 400N	
Crush Resistance 1000N	
Warranty: 03 years	
Product Specification of Patch Cord	Compliance (Yes/No)
Fiber Type (ITU)	
OS2 G.657.A2	
Jacket Material	
LSZH	
Outer Diameter	
2.0mm	
Configuration	
Simplex	
FO Connector Type 1	
SC	
FO Polish Connector 1	
PC	
Lengths	
1 Mtr at least	
Product Specification of Splitter Box	Compliance (Yes/No)
Working Temperature: -40 ~85	
Relative humidity: <85% (+30 C)	
Atmospheric pressure: 70 kPa ~ 106 kPa	
Insertion loss: <0.2db	
Insertion life: > 1000 times	

UPC Echo Loss: > 50dB	
APC Echo Loss: > 60dB	
Product Specification of LIU	Compliance (Yes/No)
Dimensions: 62*265*252 mm. or similar	
Coupler Pannel: 24 ports (1 x 24)	
Material: MS Powder Coated.	
Spool: FR Grade ABS.	
Cable grommets: FR Grade Nylon.	
Splice Tray: ABS.	
Product Specification of Fiber Termination Box	Compliance (Yes/No)
Ingress Protection - IP30 / IP54 (under special conditions)	
Impact Protection IK07	
Flammability Degree HB	
Material ABS	
Color white RAL 9003	
Dimensions (H x W x D) 81 x 81 x 25 mm /short cover 116 x 81 x 25 mm / extended cover	
Weight 0.08 kg	
Environment indoor	
Connector Type LC/SC	
Product Specification of PVC Conduit	Compliance (Yes/No)
Length: 225 m	
Product Type: Electrical Conduit Pipes	
Size: 25mm	
Thickness: 1.2mm	

Important Note: All Hardware Components will have at least 03 years Warranty period.

Price Bid (On Bidder's Letter Head)

Price Bid for Laying of Optical Fiber Cable with GEPON Technology					
	ACTIVE COMPONENTS	Qty	Unit	Unit Price	Total Price
1	Optical Light UNIT (OLT) 4 PORT	1	Nos		
2	Optical Network Unit	15	Nos		
3	UTM / Firewall XGS-126	1	Nos		
4	PoE Network Managed Gigabit 24 Port Switch.	3	Nos		
5	2MP IP Camera Bullet / Dome	16	Nos		
6	8 PORT NVR with 1 TB Surv. HDD	2	Nos		
TOTAL AMOUNT OF ACTIVE COMPONENT					---
SN	PASSIVE COMPONENTS	QTY	UNIT	RATE	Total
1	Cat-6 Cable Bundle of 305 Mtr.	3	Box		
2	Fiber Optic Cable 6 core.	500	Mtr.		
3	8 port Splitter box	10	Nos		
4	2 Core FC yarn	500	Mtr.		
5	HDPE Pipe of 32MM	500	Mtr.		
6	LIU 6 Port Fully Loaded	2	Nos		
7	Laying of Fiber Optic Cable with Wall Support on clamp	400	Mtr.		
8	Splicing of fiber Optic Cable per core	160	Nos		
9	SMB Fiber Termination box	35	Nos		
10	Information Outlet Box (I/O) Fully Loaded.	20	Nos		
11	Network Rack 6 U Loaded with Std. Accessories.	3	Nos		
12	Patch Panel fully loaded 24 ports	3	Nos		
13	Patch Cord 1 Mtr. From Switch to Patch Panel	75	Nos		
14	Patch Cord 3 Mtr. From I/O Box to User End.	20	Nos		
15	PVC conduit 25 mm medium wit Std. Make. ISI Marked.	400	Mtr.		
11	Fiber Pigtail Single Mode.	35	Nos		
12	SC-SC Single Mode single Fiber Patch Cord	35	Nos		
13	One Time commissiong JOB work including all required accessories	1	Job		
15	TOTAL AMOUNT OF PASSIVE COMPONENT				
16	Total Amount of Active + Passive Component is Rs.				
17	Applicable GST @%.....				
18	Grand Total Amount with GST is Rs.				

Signature
Bidders Official Seal