

## West Bengal Electronics Industry Development Corporation Limited

Registered Office  
Webel Bhavan, Block - EP & GP, Sector - V Bidhannagar, Salt Lake Kolkata 700091  
Phone: 9133-2339-2228/226/327/316 'Fax: 9133-2357-1739/1708 email: contact@webel-india.com

### **NOTICE INVITING OPEN TENDER**

**Notice Inviting e-Tender No. WEBEL/EOT/COM/22-23/00030 Dated: 08-08-22**

**For:** IMPLEMENTATION OF LAN SETUP AT MRITTIKA BHAWAN.

The G.M (COM) on behalf of WEST BENGAL ELECTRONICS INDUSTRY DEVELOPMENT CORPORATION LIMITED invites Tender for the work detailed in table bellow:- (Submission of Bid Through Online Only)

Brief Description of Work	Tender Document Money (Rs) [Non refundable]	Earnest Money Deposit (EMD) (Rs) [Refundable]	Last Date and Time of Bid Submission (Online)	TECHNICAL Bid Opening Date and Time (Online)
Implementation of LAN setup at Mrittika Bhawan.	Rs.500/-	Rs. 35,000/-	22 August 2022 12:00 PM	24 August 2022 3:00 PM
<b>BID Opening Venue</b>	<b>WEST BENGAL ELECTRONICS INDUSTRY DEVELOPMENT CORPORATION LIMITED Webel Bhavan, Block - EP &amp; GP, Sector - V Bidhannagar, Salt Lake Kolkata 700091</b>			

For Commercial Queries, Contact: Mr. Pratul Show, G.M (COM) E-Mail: pratul.show@webel-india.com

For Technical Queries, Contact: Sourav Guha Thakurta, GM (CIO) E-Mail: sourav.thakurta@webel-india.com

Debraj Ghoshal, DM-(NWD) E-Mail : debraj.ghoshal@webel-india.com

## DATE & TIME SCHEDULE

Activity / Event Description	Date	Time
Last Date of Query Submission	12 August 2022	5:00 PM
Query Response	17 August 2022	3:00 PM
Publication of Corrigendum	17 August 2022	4:00 PM
Submission of Bid(s)	22 August 2022	12:00 PM
TECHNICAL Opening	24 August 2022	3:00 PM
PRICE Opening	26 August 2022	3:00 PM

# NOTICE INVITING TENDER

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**1. Final submission date & time**

In the event of e-filling, intending bidder may download the tender documents from the website <https://wbtenders.gov.in> directly with the help of Digital Signature Certificate.

**2. Technical Bid submission with digitally signed**

The TECHNICAL BID is to be submitted duly digitally signed in the website <https://wbtenders.gov.in>

**3. Financial Bid submission with digitally signed**

The FINANCIAL BID is to be submitted duly digitally signed in the website <https://wbtenders.gov.in>

**4. Schedule details**

Submission of Technical Bid (if applicable) and Financial Bid will be done as per Time Schedule stated in this Tender Document.

**5. Price Bid/Financial Offer only if technical bid is qualified**

The price bid / financial offer of the tenderer / bidder will be considered only if the technical bid of the tenderer is found qualified by the Tender Evaluation Committee (TEC) of WBEIDC. The decision of the TEC will be final and absolute in this respect.

# SECTION A

## ELIGIBILITY CRITERIA

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- 1 . System Integrator**  
The Bidder/ASP/OEM should be a System Integrator.

**Non-statutory**
  
- 2 . Experience on the related job area**  
The bidder should have executed 1 single order of similar nature of jobs, particularly in IIMPLEMENTATION OF LAN SETUP of Rs.3,500,000.00 each or more at any or The bidder should have executed 2 single order of similar nature of jobs, particularly in IMPLEMENTATION OF LAN SETUP of Rs.1,750,000.00 each or more at any or The bidder should have executed 3 single order of similar nature of jobs, particularly in IMPLEMENTATION OF LAN SETUP of Rs.1,200,000.00 each or more at any Govt. Department / Quasi Govt. Dept / PSU / Board / Council/ Large corporate or similar organization in last 3 financial years.

**Statutory**
  
- 3 . Authorisation from OEMs**  
Bidders with tender specific authorization(s) from OEM(s), strictly in our format given in ANNEXURE-MAF in this tender document for all the items (EXCEPT CABLE), are only eligible to quote. Such tender specific authorization(s) must authorize the bidders for supply, installation and comprehensive maintenance during the Warranty period. OEM(s) must accept their responsibility of supply, installation and comprehensive maintenance of services during warranty period as per ANNEXURE MAF.

**Statutory**
  
- 4 . Unpriced Bill of Quantities**  
Un-priced B.O.Q is to be submitted in company letterhead mentioning the name, make and model no. of all the items.

**Non-statutory**
  
- 5 . Minimum Annual Turnover for the last financial year**  
Turnover of the last Financial Year (2020 - 2021) should be Rs.10,000,000.00 or above (Copy of audited Balance Sheet & P/L A/c duly certified by CA is required as proof).

**Non-statutory**
  
- 6 . Aggregate Annual Turnover**  
Aggregate of Turnover of last 3 Financial Years (01-04-18 - 31-03-21) should be Rs.30,000,000.00 or above (Copy of audited Balance Sheet & P/L A/c duly certified by CA is required as proof).

**Non-statutory**
  
- 7 . Company Profile & Article of Association**  
The Bidder must submit detail profile of the company and Articles of Association in the specified area of the job mentioned in this tender.

**Statutory**
  
- 8 . Incorporation certificate**  
The bidder should provide the certificate of incorporation under Comapny Act 1956.

**Statutory**
  
- 9 . No Consortium is allowed**  
The Bids shall be submitted by only the Bidder; no consortium is allowed in this Bid. Declaration in this regard needs to be submitted.

**Non-statutory**
  
- 10 . NO PART BID ALLOWED**  
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.

**Non-statutory**

**11 . Statutory Documents-PAN & IT Returns**

Copies of valid PAN along with I-T return documents, for Financial Year 2017 2018, 2018-2019, 2019-2020 are to be enclosed with the bid.

**Statutory**

**12 . Trade License**

Copy of valid Trade License is to be enclosed with the bid.

**Statutory**

**13 . Banned by Govt. or like organizations**

The bidder shall be required to give a declaration in their letter head that they have not been banned by any Government Agencies / Govt. Department / Quasi Govt. Dept / PSU / Board / Council or similar organization. If any Government Agencies / Govt. Department / Quasi Govt. Dept / PSU / Board Council or similar organization has banned the bidder and later on lifted the ban, the fact must be clearly stated.

**Statutory**

**14 . Minimum number of years of existence**

The bidding firm must be in existence for 3 years or more. (Documentary evidence has to be provided along with the bid)

**Non-statutory**

**15 . Additional Eligibility Criteria**

LOCATIONS OF SERVICE CENTRES / OFFICE LOCATION:

THE BIDDER MUST HAVE AT LEAST 1 REGISTERED SERVICE CENTER FOR COMMUNICATION IN KOLKATA, WEST BENGAL. IF THE BIDDER DOES NOT HAVE ANY PRESENCE, THE BIDDER SHOULD GIVEN AN UNDERTAKING FOR ESTABLISHMENT OF OFFICE WITHIN ONE MONTH OF AMMD OF THE CONTRACT.

**Statutory**

# **SECTION B**

## **INSTRUCTIONS TO BIDDERS**

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### **General for e-Tender**

#### **1 . Registration of Bidder**

Any Bidder willing to take part in the process of e-Tendering will have to be enrolled & registered with the Government e-Procurement System, through logging on to <https://etender.wb.nic.in> . The Bidder is to click on the link for e-Tendering site as given on the web portal.

#### **2 . Digital Signature Certificate (DSC)**

Each Bidder is required to obtain a Class-II or Class-III Digital Signature Certificate (DSC) for submission of tenders from the approved service provider of the National Informatics Centre (NIC) on payment of requisite amount. Details are available at the Web Site stated in Clause A.1. above. DSC is given as a USB e-Token.

#### **3 . Search and Download**

The Bidder can search & download N.I.T. & Tender Document(s) electronically from computer once he logs on to the website mentioned in Clause A.1. using the Digital Signature Certificate. This is the only mode of collection of Tender Documents.

#### **4 . Participation in more than one work**

A prospective bidder shall be allowed to participate in the job either in the capacity of individual or as a partner of a firm. If found to have applied severally in a single job all his applications will be rejected for that job.

#### **5 . Submission of Tenders**

Tenders are to be submitted through online to the website stated in Clause A (i). in two folders at a time for each work, one in Technical Proposal & the other is Financial Proposal before the prescribed date & time using the Digital Signature Certificate (DSC) The documents are to be uploaded virus scanned copy duly Digitally Signed. The documents will get encrypted (transformed into non readable formats).

### **GENERAL**

#### **1 . Exemption under NSIC**

The bidders (small scale units) who are registered with National Small Scale Industries Corporation, i.e, NSIC, UNDER SINGLE POINT REGISTRATION SCHEME for the TENDERED ITEMS are exempted from payment of bid security up to the amount equal to their monetary limit. A proof regarding current registration with NSIC for the TENDERED ITEMS will have to be attached along with the bid. Registration other than NSIC & Under Single Point Registration Scheme) will not be entertained.

### **eTender Technical Proposal**

#### **1 . Technical proposals in covers**

The Technical proposal should contain scanned copies of the following in two covers (folders).

a) Statutory Cover Containing the following documents:

1> Prequalification doc:

(i) Prequalification Application (Bid Form) as per annexure

(ii) Structure & Organisation details as per annexure

(iii) Experience Profile as per annexure

(ii) Un-priced B.O.Q. with Make & Model is to be submitted in company letterhead mentioning the name, make and model no. of all the items, strictly in our format given in "ANNEXURE-BOQ".

3> Tender Document: Upload the Tender Document Digitally Signed (Do not fill the details)

b) Non-statutory Cover Containing the following documents:


(ii) Registration Certificate under Company Act. (if any).

(iii) Registered Deed of partnership Firm / Article of Association & Memorandum.

(iv) Power of Attorney (For Partnership Firm / Private Limited Company, if any).

(v) Audited Balance Sheet & Profit & Loss A/c. for the last 3 (three) years.

Note: Failure to submit any of the above mentioned documents as stated in Sl. Nos. Section-A, v(a) and Section-A, v(b)

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will render the tenderer liable to be rejected for both statutory & non statutory cover.

### eTender Tender Evaluation Committee

#### 1. Definition of Tender Evaluation Committee

Tender Evaluation Committee constituted as per Order, Department of IT, Government of West Bengal will function as Evaluation Committee for selection of technically qualified bidders.

#### 2. Opening of Technical Proposal

Technical proposals will be opened by the WBEIDC Tender Committee electronically from the website using their Digital Signature Certificate (DSC).

#### 3. General Procedure

(1) Cover (folder) for Statutory Documents (Ref. Sl. No. A.(v).(a)) will be opened first and if found in order, cover (folder) for Non-Statutory Documents (Ref. Sl. No. A.5.(b).) will be opened. If there is any deficiency in the Statutory Documents the bid will be treated as non-responsive and Tender Committee will have the right to decide accordingly.

(2) Decrypted (transformed into readable formats) documents of the non statutory cover will be downloaded & handed over to the Tender Evaluation Committee.

(3) Summary list of technically qualified tenderers will be uploaded online.

(4) Pursuant to scrutiny & decision of the Tender Evaluation Committee the summary list of eligible tenderers & the serial number of work for which their proposal will be considered will be uploaded in the web portals.

(5) During evaluation the committee may summon of the tenderers & seek clarification / information or additional documents or original hard copy of any of the documents already submitted & if these are not produced within the stipulated time frame, their proposals will be liable for rejection.

(6) Intending tenderers may remain present if they so desire.

### Financial Proposal

#### 1. General part of Financial proposal

Price Bid as per format provided in the relevant section to be submitted in a separate envelope as mentioned in the tender document. Insertion of Price bid in techno-commercial proposal will summarily cancel the bid.

### e-Tender Financial Proposal

#### 1. Quoting rate in Price Bid

The financial proposal should contain all items mentioned in the Price Bid. The Bidder is to quote the rate online through computer in the space marked for quoting rate in the Price Bid.

#### 2. Digital Signature

Only downloaded copies of the above documents are to be uploaded virus scanned & Digitally Signed by the Bidder. Financial capacity of a bidder will be judged on the basis of information furnished.

#### 3. Penalty for suppression / distortion of facts

If any tenderer fails to produce the original hard copies of the documents like Completion Certificates and any other documents on demand of the Tender Evaluation Committee within a specified time frame or if any deviation is detected in the hard copies from the uploaded soft copies, it may be treated as submission of false documents by the tenderer and action may be referred to the appropriate authority for prosecution as per relevant IT Act.

# SECTION C

## GENERAL TERMS & CONDITIONS

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### GENERAL TERMS AND CONDITIONS

**1. Awarding of Contract**

WBEIDC Ltd will award the contract to the successful bidder whose bid has been valued as per Price and Other criteria . WBEIDC reserves the right not to accept the Lowest Price bid with out assigning any reason what so ever and the bidder will not challenge such decision in any forum what so ever WBEIDC also reserves the right to split the order and / or drop any line item as per direction of the end customer. The contract will be awarded to the bidder securing lowest price as per their offer. The successful bidder will have to give security deposit of 3% of total value of the LOI in the form of BANK GURANTEE for a period of 60 days+ the maximum warranty period among the items quoted. After receiving the PBG, firm P.O will be issued.

**2. Amendment of Invitation**

At any time 1 days prior to the deadline for submission of proposals, WBEIDC reserves the right to add / modify / delete any portion of this document by issuance of a Corrigendum, which would be published on the website and will also be made available to all the Bidders who have been issued the tender document. The Corrigendum shall be binding on all bidders and will form part of the bid documents (Techno Commercial as well as Price Bid).

**3. Amengstdment of Proposals**

In order to afford prospective Bidder reasonable time to make amendment in their proposals, WBEIDC may, at its discretion, extend the deadline for the submission of proposals. However, no such request in this regard shall be binding on WBEIDC.

**4. Assignments**

Assignment of the job to third party is not allowed without the consent of WBEIDC Ltd.

**5. Canvassing**

Canvassing or support in any form for the acceptance of any tender is strictly prohibited. Any bidder doing so will render him liable to penalties, which may include removal of this name from the register of approved Contractors.

**6. Clarification Regarding Tender Document**

A prospective Bidder requiring any clarification about the tender document and scope of work may contact the person through e-mail / letter as mentioned above in NIT.

**7. Date & Time validity of the quotation**

Any quotation submitted later than the date and time mentioned above will not be accepted

**8. Discrepancies and Adjustment thereof**

Discrepancy between description in words and figures, the rate, which corresponds to the words quoted by the bidder, shall be taken as correct. Discrepancy in the amount quoted by the bidder due to calculation mistake of the unit rate, the unit rate shall be regarded as firm. Discrepancy in totaling or carry forward in the amount quoted by the bidder shall be corrected.

**9. Disputes and Arbitrations**

In case of any dispute or differences, breach and violation relating to the terms of this agreement, the said dispute or difference shall be referred to the sole arbitration of Managing Director, WBEIDC Ltd. or any other person appointed by him. The award of the arbitrator shall be final and binding on both the parties. In the event of such arbitrator to whom the matter is originally referred to vacates his office on resignation or otherwise or refuses to do works or neglecting his work or being unable to act as arbitrator for any reason whatsoever, the Managing Director shall appoint another person to act as arbitrator in the place of outgoing arbitrator and the person so appointed shall be entitled to proceed further with the reference from the stage at which it was left by the predecessor. The Contractor will have no objection in any such appointment that arbitrator so appointed is employee of WBEIDC Ltd. The adjudication of such arbitrator shall be governed by the provision of the Arbitration and Conciliation Act, 1996, or any statutory



modification or re-enactment thereof or any rules made thereof. The arbitration shall be held in Kolkata only.

#### 10 . **GTC-EMD-ONLINE PAYMENT**

//The bidder shall pay an EMD of Rs. 35,000 through Net banking or through RTGS NEFT through the <https://wbtenders.gov.in> //portal as per G.O 3975-F(Y) dated 28th July, 2016 issued by Finance department Govt. of West Bengal. //For detail payment procedure & guideline on the same bidders are advised to follow the same order. //You may find the GO by clicking the link <https://bit.ly/2zZ4i6e>

#### 11 . **Force Majeure Condition**

If the execution of the contract/supply order is delayed beyond the period stipulated in the supply order as result of outbreak of hostilities, declaration of an embargo or blockade of road, fire, flood or any such act of nature, then WBEIDC LTD may allow such additional time by extending the project execution timeframe as considered to be justified by the circumstances of the case and its decision will be final. If additional time is granted by the WBEIDC LTD, the supply order shall be read and understood as if it had contained from its inception the execution date as extended.

#### 12 . **Inclusion of freight & insurance**

Price quoted should be inclusive of freight & insurance upto the delivery locations.

#### 13 . **Formats and Signing of Proposals**

The original proposal shall be neatly typed and shall be signed by an authorized signatory / signatories on behalf of the Bidder. The authorization shall be provided by written Power of Attorney accompanying the proposal. The person or persons signing the proposal shall initial all pages of the proposal, except for un-amended printed literature. The proposal shall contain no interlineations, erase or overwriting. In order to correct errors made by the Bidder, all corrections shall be done & initialed with date by the authorized signatory after striking out the original words / figures completely.

#### 14 . **Governing Laws**

This Tender Document and the contract shall be governed by and interpreted in accordance with Laws in force in India. The courts at Kolkata shall have exclusive jurisdiction in all matters arising under the contract.

#### 15 . **Insertion of Webel's GST in Vendor invoice**

All bills/ invoices must be raised / submitted with proper GSTIN No. of WBEIDC Ltd (GSTIN No.- 19AAACW2411Q1Z1 ) for releasing payment.

#### 16 . **Late Proposals**

Any proposal received by WBEIDC after the deadline for submission of proposals, as referred above shall not be accepted.

#### 17 . **Language of Proposal & Correspondence**

The proposal submitted by the Bidder should be in English language only. All the documents relating to the proposal (including brochures) supplied by the firm should also be in English, and the correspondence between the Bidder & WBEIDC will be in English language only. A duly signed formal copy must subsequently confirm the correspondence by Fax / e-mail.

#### 18 . **Non escalation of Price**

The price offers shall remain firm within the currency of contract and no escalation of price will be allowed.

#### 19 . **Non-eligibility of bid by Webel Group Company**

No Webel group company allowed to bid in WBEIDC tenders, and bids will be summarily disqualified if received from any WEBEL group company.

#### 20 . **Availability of PAN**

Any quotation submitted without PAN of the vendor will be summarily rejected.

#### 21 . **Proposal Currency**

Prices shall be quoted in Indian Rupees, inclusive of all prevailing taxes, levies, duties, etc.

**22 . Cancellation of PO**

WBEIDC Ltd. reserves the right to cancel Purchase Order if the agreed delivery schedule is not adhered to by the supplier. Any loss arising out of such delay in the supply of the equipment / service, shall be on the supplier account.

**23 . Period of Validity of Proposals**

The price offers shall remain firm within the currency of contract and no escalation of price will be allowed. The quoted offer and / or rate must be valid for a minimum period of 180 Days from the date of opening of the tender. The tender inviting authority reserves the right for seeking extension of validity of offered rates from the successful bidder. Acceptance of such request during actual offer is however optional to the bidder. The price validity will remain unaltered irrespective of any reason including foreign exchange rate variation. Variation in statutory rate levied by Government will however be reflected for both reduction and escalation.

**24 . Whom to report**

Reporting: You have to report to MR.SOURAV GUHA THAKURTA , GM-(CIO) for TECHNICAL purposes.

**25 . Detail Specification**

THE DETAILS TECHNICAL SPECIFICATION IS ATTACHED AS AN ANNEXURE-I IN THIS TENDER DOCUMENT.

**26 . Deduction of Tax at Source**

Deduction of all statutory and necessary Tax from each bill will be made as per Government Rules prevailing at the time of payment. The Company will issue necessary tax deduction certificate in due course of time.

**27 . Withdrawal from Tender**

Any bidder may withdraw his tender by written request at any time prior to the scheduled closing time for receipt of tenders and not thereafter.

**28 . Additional Terms & Conditions**

AT THE TIME ACCEPTING LOI, VENDOR IS ADVISED TO CHECK THE GST PERCENTAGE MENTIONED IN THE LOI. IN CASE OF ANY CHANGE BIDDER MUST INFORM GM (COMMERCIAL) IN WRITING PRIOR TO ISSUE OF THE PURCHASE ONCE PURCHASE ORDER ISSUED NO SUBSEQUENT REQUEST FOR CHANGE IN GST PERCENTAGE WILL BE ENTERTAIN

# SECTION D

## SPECIAL TERMS & CONDITIONS

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### SPECIAL TERMS AND CONDITIONS

**1 . PBG after LOI**

You are requested to convey your acceptance of this Letter of Intent and to submit the desired information at an early date and submit the required Bank Guarantee in the attached prescribed format within a period of 14 days from the date of placement of this Letter of Intent, failing which this Letter of Intent is likely to be treated as cancelled.

**2 . Consignee Details**

Consignee Details: DEPARTMENT OF PANCHAYATS & RURAL DEVELOPMENT, GOVERNMENT OF WEST BGENGAL.

**3 . Delivery time period**

ALL ITEMS must be delivered and installed within 4 WEEKS from the date of issuance of LOI.

**4 . Delivery Locations**

Delivery/Installation location:

AS DIRECTED BY DEPARTMENT OF PANCHAYATS & RURAL DEVELOPMENT, GOVERNMENT OF WEST BGENGAL.  
"JOINT ADMINISTRATIVE BUILDING" 8TH FLOOR, HC-7, SECTOR - III, SALT LAKE, KOLKATA - 700 106.

**5 . Taxes all inclusive**

Price will be all inclusive including tax, installation, freight, insurance & any other charges. Tax porion should be mentioned seperately.

**6 . Liquidated Damage**

As per the job mentioned in the tender document; In the event of failure to meet the job completion in stipulated date/time liquidated damage may be imposed on the Vendor(s) for sum equivalent to 1.00% of the contract value for each week or part thereof, subject to a ceiling of 5.00% of the contract value (including all taxes & duties and other charges). In the event of LD exceeds 5.00% of the order value, WBEIDC reserves the right to terminate the contract and WBEIDC will get the job completed by any other competent party. The difference of cost incurred by WBEIDC will be recovered from the earnest money deposited / PBG / Invoice submitted by the vendor (as applicable).

**7 . Payment Authority**

Payment sanctioning authority: MR. SOURAV GUHA THAKURTA, GM-(CIO).

**8 . Payment Terms**

AS PER OFFER :

80% AGAINST DELIVERY.

BALANCE AFTER INSTALLATION.

PAYMENT WILL BE RELEASED WITHIN 30 DAYS AFTER RECEIVING PAYMENT FROM THE END CUSTOMER ON BACK TO BACK BASIS AND AS & WHEN RECEIVED FROM CUSTOMER.

**9 . Security Deposit**

Successful bidder will have to submit a performance bank guarantee within 14 DAYS of issuance of LOI, amounting 3% total ordered value in the format given in the tender document for a validity period of 60 DAYS more than the warranty period (1 YEAR from the date of final acceptance of the end customer) of the quoted items.

**10 . Service Level Agreement**

Service Level: Call must be attended within 24 HRS. If not attended within 24 HOURS, a penalty of .5% of equipment/project cost per day will be levied and will be adjusted against the balance payment/PBG held with WBEIDC Limited.

**11 . Warrants Support - Period**

The equipment along with the solution supplied will be warranted for 12 MONTHS from the date of ACCEPTANCE of the

**SECTION D**

system whole or part. Service support for the entire warranty period will be ONSITE and COMPREHENSIVE and free of cost for the entire warranty period.


# BOQ, TECHNICAL SPECIFICATIONS & DELIVERY LOCATIONS

SL. No.	Description / Specification	Qty	UOM	Delivery Location
1	UTP Cable : CAT6 UTP Cable Box of 305 MTRS	25	BOX	
2	UTP Patch Cord (1Mtr)	119	NUMBER	
3	UTP Patch Cord (2Mtr)	122	NUMBER	
4	CAT6 UTP I/O : SINGLE I/O FACE PLATE WITH BACK BOX	119	Nos.	
5	CAT6 UTP LOADED PATCH PANEL	9	Nos.	
6	15 U WALL MOUNT RACK	6	Nos.	
7	27U Floor Standing Rack	1	Nos.	
8	24 Port Loaded LIU	8	Nos.	
9	Pigtail : Single Mode LC	132	Nos.	
10	FIBRE OPTIC CABLE	1,000	METERS	
11	FIBRE OPTIC PATCH CHORD	31	Nos.	
12	1" PVC PIPE	3,000	METERS	
13	1.5" PVC PIPE	600	METERS	
14	2" PVC PIPE	500	METERS	
Active Components				
15	CORE SWITCH : Layer 3 Fully Managed Switch	1	Nos.	
16	ACCESS SWITCH : Layer 2 Fully Managed Stackable	9	Nos.	

SL. No.	Description / Specification	Qty	UOM	Delivery Location
17	Fibre Optic TRANSCEIVER	34	Nos.	
18	FIREWALL	1	Nos.	
19	ONLINE UPS 3KVA with inbuilt battery	1	Nos.	
20	1100VA UPS offline with inbuilt battery	6	NUMBER	
	Service Part-Passive components for Data			
21	I/O TERMINATION both sides	119	NUMBER	
22	CAT6 UTP Cable Laying	7,625	METERS	
23	FO CABLE LAYING	1,000	METERS	
24	RACK INSTALLATION & DRESSING	7	Nos.	
25	SPLICING OF FIBER OPTIC CABLE	1	Lot	
26	PVC CONDUIT fixing	4,100	METERS	
27	INSTALLATION & CONFIGURATION OF Firewall	1	Nos.	
28	INSTALLATION & CONFIGURATION OF Switch	10	Nos.	
29	PROJECT MANAGEMENT & Installation Job	1	Job	

### Payment Terms Details

Payment Terms Code	Description
B2B-30D	Payments term will be back to back and will be paid after 30 days of payment received from customer.

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# COMPLIANCE SHEET

SL. No.	Description / Specification	Qty	UOM	Offered Specification	Compliant (Yes/No)	Deviation Details (if any)
1	UTP Cable : CAT6 UTP Cable Box of 305 MTRS	25	BOX			
2	UTP Patch Cord (1Mtr)	119	NUMBE			
3	UTP Patch Cord (2Mtr)	122	NUMBE			
4	CAT6 UTP I/O : SINGLE I/O FACE PLATE WITH BACK BOX	119	Nos.			
5	CAT6 UTP LOADED PATCH PANEL	9	Nos.			
6	15 U WALL MOUNT RACK	6	Nos.			
7	27U Floor Standing Rack	1	Nos.			
8	24 Port Loaded LIU	8	Nos.			
9	Pigtail : Single Mode LC	132	Nos.			
10	FIBRE OPTIC CABLE	1,000	METERS			
11	FIBRE OPTIC PATCH CHORD	31	Nos.			
12	1" PVC PIPE	3,000	METERS			
13	1.5" PVC PIPE	600	METERS			
14	2" PVC PIPE	500	METERS			
Active Components						
15	CORE SWITCH : Layer 3 Fully Managed Switch	1	Nos.			
16	ACCESS SWITCH : Layer 2 Fully Managed Stackable	9	Nos.			

SL. No.	Description / Specification	Qty	UOM	Offered Specification	Compliant (Yes/No)	Deviation Details (if any)
17	Fibre Optic TRANSCEIVER	34	Nos.			
18	FIREWALL	1	Nos.			
19	ONLINE UPS 3KVA with inbuilt battery	1	Nos.			
20	1100VA UPS offline with inbuilt battery	6	NUMBE			
	Service Part-Passive components for Data					
21	I/O TERMINATION both sides	119	NUMBE			
22	CAT6 UTP Cable Laying	7,625	METERS			
23	FO CABLE LAYING	1,000	METERS			
24	RACK INSTALLATION & DRESSING	7	Nos.			
25	SPLICING OF FIBER OPTIC CABLE	1	Lot			
26	PVC CONDUIT fixing	4,100	METERS			
27	INSTALLATION & CONFIGURATION OF Firewall	1	Nos.			
28	INSTALLATION & CONFIGURATION OF Switch	10	Nos.			
29	PROJECT MANAGEMENT & Installation Job	1	Job			



## ANNEX - BID FORM

(Bidders are requested to furnish the Bid Form in the Format given in this section, filling the entire Blank and to be submitted on Letter Head)

Ref No : ( Mandatory)

Date : ( Mandatory)

To,  
Dy. General Manager (Commercial)  
WBEIDC Ltd  
Webel Bhavan  
Block EP & GP, Sector-V  
Salt Lake Electronics Complex  
Kolkata-700091

Dear Sir,

Having examined the Bid documents we, the undersigned, offer to undertake the job of "<Tender Title>" as per the Tender No. \_\_\_\_\_ dated \_\_\_\_\_.

We agree to abide by this bid for the period of 6 (six) months from the date for fixed for price bid opening and it shall remain binding upon us for acceptance at any time before the expiry of the period.

This bid, together with your written acceptance thereof and your order / notification of award, shall constitute a binding contract between us.

We understand that WBEIDC reserves the right to accept in full / part or reject any or all the bids received or split order within successful bidding without any explanation to bidders and its decision on the subject will be final and binding on Bidder. We also understand that WBEIDC is not bound to accept the L-1 bid for placement of order.

We had given an EMD/BG of Rs. \_\_\_\_\_ (DD/BG No \_\_\_\_\_ dated \_\_\_\_\_ on \_\_\_\_\_) along with the technical document.

We also abide to go through bank Guarantee of 5% of the job value as Performance Bank Guarantee.

Dated, this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_

Signature

.....  
(In capacity of)  
Duly authorized to sign bid for and on behalf of  
(Name and Address of the Bidder)

(Affix Official Seal)

## ANNEX - BOM & TECHNICAL SPECIFICATIONS

ALL TECHNICAL PARAMETERS OF ITEMS ARE MANDATORY. NO DOWNWARD DEVIATION IS ALLOWED. IN CASE OF ANY DEVIATIONS IN SPECIFICATIONS OF THESE ITEMS, THE BID WILL BE SUMMERILY REJECTED.

The bidder has to attach a technical compliance sheet in the following format:

Sl. No.	Description of Items	Make & Model No.	Qty	Unit	Offered Specification	Remarks
1						

**ANNEX – MAF**  
**(MANUFACTURER'S AUTHORISATION FORM)**

(TO BE SUBMITTED ON OEM LETTERHEAD, SIGNED BY A PERSON COMPETENT AND HAVING THE POWER OF ATTORNEY [Notarized copy to be attached] TO BIND THE PRODUCER) Without this MAF, the bid is liable to be rejected.

Tender No. \_\_\_\_\_

Date: \_\_\_\_\_

Dy. General Manager (Commercial)  
WBEIDC LTD,  
Block-EP&GP, Webel Bhawan,  
Sector-V, Salt Lake, Kolkata-700 091.

WHEREAS \_\_\_\_\_ who are official producers of \_\_\_\_\_ and having production facilities at \_\_\_\_\_ do hereby \_\_\_\_\_ authorize \_\_\_\_\_ located at \_\_\_\_\_ (hereinafter, the "Bidder") to submit a bid of the following Products produced by us, for the Supply Requirements associated with the above Invitation for Bids.

**[ Note : Please Specify the Product Name & Model No here. ]**

When resold by \_\_\_\_\_ these products are subject to applicable warranty terms of this NIT.

We assure you that in the event of \_\_\_\_\_ not being able to fulfill its obligation as our Sales & Service Provider in respect of this NIT, we would continue to meet our the terms stated in the abovementioned NIT through alternate arrangements.

We also confirm that \_\_\_\_\_ is our authorized service provider / system integrator and can hence provide maintenance and upgrade support for our products.

We also undertake to supply the materials in the event of the non-supply of the materials by \_\_\_\_\_ as per the NIT and assure you the availability of spares for the products for the next two years after the expiry of three years comprehensive on-site warranty.

Name \_\_\_\_\_ In the capacity of \_\_\_\_\_

\_\_\_\_\_  
Signature

**Note:** This letter of authority must be on the letterhead of the Manufacturer, must be signed by a person competent and having the power of attorney ( Notarized copy to be attached ) to bind the Producer, and must be included by the Bidder in its bid as specified in the Instructions to Bidders.

## ANNEX – PBG

### PERFORMANCE SECURITY GUARANTEE BOND

1. In consideration of the MD , WBEIDC (hereinafter called 'WBEIDC') having agreed to exempt \_\_\_\_\_ (hereinafter called 'the said contractor(s)') from the demand under the terms and conditions of an agreement/Advance Purchase Order No \_\_\_\_\_ dated \_\_\_\_\_ made between \_\_\_\_\_ and \_\_\_\_\_ for the supply of \_\_\_\_\_ (hereinafter called "the said agreement "), of security deposit for the due fulfillment by the said contractor (s) of the terms and conditions contained in the said Agreement, on production of the bank guarantee for \_\_\_\_\_ we, (name of the bank) \_\_\_\_\_ ( hereinafter refer to as "the bank") at the request of \_\_\_\_\_ (contractor(s)) do hereby undertake to pay to the WBEIDC an amount not exceeding \_\_\_\_\_ against any loss or damage caused to or suffered or would be caused to or suffered by WBEIDC by reason of any breach by the said Contractor(s) of any of the terms or conditions contained in the said Agreement.

2. We (name of the bank) \_\_\_\_\_ do hereby undertake to pay the amounts due and payable under this guarantee without any demure, merely on a demand from the WBEIDC by reason of breach by the said contractor(s)' of any of the terms or conditions contained in the said Agreement or by reason of the contractors(s)' failure to perform the said Agreement. Any such demand made on the bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee where the decision of WBEIDC in these counts shall be final and binding on the bank. However, our liability under this guarantee shall be restricted to an amount not exceeding \_\_\_\_\_.

3. We undertake to pay to the WBEIDC any money so demanded notwithstanding any dispute or disputes raised by the contractor(s)/supplier(s) in any suit or proceeding pending before any court or tribunal relating thereto our liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be valid discharge of our liability for payment there under and the contractor(s)/supplier(s) shall have no claim against us for making such payment.

4. We( name of the bank) \_\_\_\_\_ further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to be enforceable till all the dues of the WBEIDC under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till \_\_\_\_\_ (office/Department) WBEIDC certifies that the terms and conditions of the said Agreement have been fully or properly carried out by the said contractor(s) and accordingly discharges this guarantee. Unless a demand or claim under this guarantee is made on us in writing on or before the expiry of TWO/TWO AND HALF/THREE YEARS (as specified in the tender no.....) from the date hereof, we shall be discharged from all liabilities under this guarantee thereafter.

5. We (name of the bank) \_\_\_\_\_ further agree with the WBEIDC that the WBEIDC shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Agreement or to extend time of performance by the said contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the WBEIDC against the said Contractor(s) and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Contractor(s) or for any forbearance, act or omission on the part of the WBEIDC or any indulgence by the WBEIDC to the said Contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

6. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor(s)/supplier(s).

7. We (name of the bank) \_\_\_\_\_ lastly undertake not to revoke this guarantee during its currency except with the previous consent of the WBEIDC in writing.

Dated the \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_

for \_\_\_\_\_  
(Indicate the name of bank)

PRICE BID

The price has to be submitted online only.

**ANNEX – EXP PROF**  
**EXPERIENCE PROFILE**

Name of the Firm: .....

List of projects completed that are similar in nature to the works executed during the last 3 (three) years, as stated above:

Sl. No.	Customer's Name	PO No. and Date	Value in Rs.	Date of Successful Completion of the job	Completion Certificate Date issued by Customer

Note:

- i. Certificate from the Customers to be attached
- ii. Non-disclosure of any information in the Schedule will result in disqualification of the firm

Signature of applicant including title  
and capacity in which application is made.

**ANNEX - SAO**  
**STRUCTURE AND ORGANISATION**

1) Name of Applicant 2) Office Address	:	
	:	
	:	
	:	
	:	
Telephone No.	:	
Fax No.	:	
3) Name and Address of Bankers	:	
	:	
	:	
	:	
4) Attach an organization chart showing the structure of the company with names of Key personnel and technical staff with Bio-data.	:	

Note: Application covers Proprietary Firm, Partnership, Limited Company or Corporation.

\_\_\_\_\_  
Signature of applicant including title  
and capacity in which application is made.



## ANNEXURE-I

**e-Tender No : WEBEL/EOT/COM/22-23/00030 Dated - 08-08-2022**

MINIMUM REQUIRED SPECIFICATION	Compliance (Yes/No)
<b>UTP CABLE</b>	
Category 6 Unshielded Twisted Pair 4 pair cable shall be compliant with ANSI/TIA-568-C.2 channel performance	
The 4 pair Unshielded Twisted Pair cable shall be UL Listed, ETL Verified	
All Category 6 cables shall meet or exceed the following characteristics:	
<b>Mechanical Characteristics</b>	
Construction: 4 twisted pairs separated by internal X shaped, 4 channel, full separator. Half shall not be accepted.	
Conductor dia: 23 AWG	
Insulation: High density polyethylene	
Pairing: Two insulated conductor twisted together	
No.of Pair: 4 pairs	
Color of sheath: FR-PVC GREY- Single sheath	
Rip Cord should be available	
Sequential meter marking should be available	
Temperature Rating: (- 20 to +60 C)	
Packing : 305 Mtrs.	
<b>Low Frequency Electrical Parameter</b>	
Conductor Resistance: $\leq 9.38$ OHMS/100 MTR	
Resistance Unbalance: 5% Max	
Mutual Capacitance: $< 5.6$ nF/100 mtrs	
Capacitance Unbalance: 330pF/100M	
Delay Skew: $< 45$ ns	
Generally confirming to EIA/TIA 568-C.2 and ISO 11801 Class E	
OEM should have valid ISO 9001, ISO 14001 & ISO 45001 for design & development for wired & wireless networking products.	
OEM Brand and company together presence in india should be atleast for last 20 years.	
OEM should have own service centre in the state of installation	
OEM offered much be in steady profitable business in India at least for last 5 financial years (Fy 2016-17 to Fy 2020-21) with min. 500Cr turnover of each year for networking business in India for last 5 FY. Bidder shall have to submit audited accounts/auditor certificate in support of their claim.	
OEM should have valid ISO-45001:2018 certificate.	
<b>UTP Patch Cord (1Mtr)</b>	
Category 6 UTP Patch Cord – 1Mtr	
The work area equipment cords shall, at a minimum comply with proposed TIA/EIA-568-C.2 Commercial Building Cabling Standards Transmission Performance Specifications for 4 pair Category 6 Cabling. UL Listed & ETL Verified	
Equipped with modular 8-position modular plugs on both ends, wired straight through with standards compliant wiring.	

<b>Mechanical Feature of Cable:</b>	
Conductor size: 24 AWG multi-strands bare copper	
Jacket: FR-PVC	
<b>Mechanical Feature of Plug:</b>	
Operating life: Minimum 750 insertion cycles	
Contact blade: Copper Alloy	
Operating temperature: -10°C to 60°C	
Factory Crimped Patch Cord with Factory Moulded Boot	
OEM should have valid ISO 9001, ISO 14001 & ISO 45001 for design & development for wired & wireless networking products.	
OEM Brand and company together presence in india should be atleast for last 20 years.	
OEM should have own service centre in the state of installation	
OEM offered much be in steady profitable business in India at least for last 5 financial years (Fy 2016-17 to Fy 2020-21) with min. 500Cr turnover of each year for networking business in India for last 5 FY. Bidder shall have to submit audited accounts/auditor certificate in support of their claim.	
OEM should have valid ISO-45001:2018 certificate.	

UTP Patch Cord (2Mtr)	
Category 6 UTP Patch Cord – 2Mtr	
The work area equipment cords shall, at a minimum comply with proposed TIA/EIA-568-C.2 Commercial Building Cabling Standards Transmission Performance Specifications for 4 pair Category 6 Cabling. UL Listed & ETL Verified	
Equipped with modular 8-position modular plugs on both ends, wired straight through with standards compliant wiring.	
<b>Mechanical Feature of Cable:</b>	
Conductor size: 24 AWG multi-strands bare copper	
Jacket: FR-PVC	
<b>Mechanical Feature of Plug:</b>	
Operating life: Minimum 750 insertion cycles	
Contact blade: Copper Alloy	
Operating temperature: -10°C to 60°C	
Factory Crimped Patch Cord with Factory Moulded Boot	
OEM should have valid ISO 9001, ISO 14001 & ISO 45001 for design & development for wired & wireless networking products.	
OEM Brand and company together presence in india should be atleast for last 20 years.	
OEM should have own service centre in the state of installation	
OEM offered much be in steady profitable business in India at least for last 5 financial years (Fy 2016-17 to Fy 2020-21) with min. 500Cr turnover of each year for networking business in India for last 5 FY. Bidder shall have to submit audited accounts/auditor certificate in support of their claim.	
OEM should have valid ISO-45001:2018 certificate.	

CAT6 UTP I/O	
Single Port Cat6 UTP Information Outlet with Face Plate & Surface Mount Box	
Write on labels in transparent plastic window – supplied with plate	
Face Plate with shutter	
Should be able to support variety of jacks – UTP, STP etc.	
Category 6, TIA568 C.2	
All information outlets for 22-26 AWG copper cable shall:	

Use insulation displacement connectors (IDC)	
Allow for a minimum of 200 re-terminations without signal degradation below standards compliance limits.	
<b>Jack Specification:</b>	
Plastic Housing: Polycarbonate, UL94V-2 rated or equivalent	
Operating Life: Minimum 750 insertion cycles	
Contact Material: Phosphor Bronze with nickel plated	
Contact Plating: 50 μinches gold on plug contact area	
IDC : Housing PC , UL 94 V-2, 568A/B configuration	
Operating Life: Minimum 200 Re-terminations	
IDC Contact Plating: Phosphor bronze with tin plated	
Operation Temp: -10 C to 60 C	
Keystone of I/O should be UL Listed.	
Back box should be of same make as keystone jack & face plate.	
OEM should have valid ISO 9001, ISO 14001 & ISO 45001 for design & development for wired & wireless networking products.	
OEM Brand and company together presence in india should be atleast for last 20 years.	
OEM should have own service centre in the state of installation	
OEM offered much be in steady profitable business in India at least for last 5 financial years (Fy 2016-17 to Fy 2020-21) with min. 500Cr turnover of each year for networking business in India for last 5 FY. Bidder shall have to submit audited accounts/auditor certificate in support of their claim.	
OEM should have valid ISO-45001:2018 certificate.	

CAT6 UTP PATCH PANEL	
24-Port Cat6 Fully-loaded UTP Patch Panel	
Patch Panel made of powder coated steel, in 24 port configurations.	
Allow for a minimum of 200 re-terminations without signal degradation below standards compliance limit.	
Have port identification numbers on the front of the panel.	
IDC: Suitable for 22-26 AWG stranded and solid wire compatible with both 110 & Krone punch down tools	
The Cat-6 transmission performance is in compliance with the ANSI/TIA/EIA 568C.2 standard	
<b>Mechanical Characteristics:</b>	
Plastic Housing: PBT+Glass Fiber, UL94V-0 rated	
<b>Jack Connector</b>	
Operating Life: Minimum 750 insertion cycles	
Material: Phosher bronze with nickel plated	
Contact Plating: 50μ” Gold plated on plug contact area	
<b>IDC Connector</b>	
Plastic Housing: Polycarbonate	
IDC Contact Plating: Phosphor bronze with tin plated	
Wire Accommodation: 22-26 AWG solid	
Contact resistance: 20Milliohms	
Insulation resistance: 100 MegaOhms @ 500V DC	
OEM should have valid ISO 9001, ISO 14001 & ISO 45001 for design & development for wired & wireless networking products.	
OEM Brand and company together presence in india should be atleast for last 20 years.	
OEM should have own service centre in the state of installation	

OEM offered much be in steady profitable business in India at least for last 5 financial years (Fy 2016-17 to Fy 2020-21) with min. 500Cr turnover of each year for networking business in India for last 5 FY. Bidder shall have to submit audited accounts/auditor certificate in support of their claim.	
OEM should have valid ISO-45001:2018 certificate.	

15U WALL MOUNT RACK	
15U, 19" 550mm Width, 600mm Depth, Wall Mount Networking Enclosure	
It should confirm to DIN 41494 or equivalent standard	
It should be welded construction with steel frame	
Lockable tough ended glass front door	
19" mounting angle made of formed steel	
Powdered coated standard finish	
Top & Bottom welded cover with vented & cable entry exit cut outs	
2 pair of 19" mounting rails	
1U Cable Manager	
Roof Mounted Fan Unit	
230V AC, 6 way, 5 Amp Power Distribution Unit	
Mounting Hardware	
OEM should have valid ISO 9001, ISO 14001 & ISO 45001 for design & development for wired & wireless networking products.	
OEM Brand and company together presence in india should be atleast for last 20 years.	
OEM should have own service centre in the state of installation	
OEM offered much be in steady profitable business in India at least for last 5 financial years (Fy 2016-17 to Fy 2020-21) with min. 500Cr turnover of each year for networking business in India for last 5 FY. Bidder shall have to submit audited accounts/auditor certificate in support of their claim.	
OEM should have valid ISO-45001:2018 certificate.	

27U FLOOR STANDING RACK	
27U, 19" 600mm Width, 800mm Depth, Floor Standing Networking Enclosure	
Casters Set of 4	
Adjustable Levellers set of 4	
Front Glass Door	
Metal Door-Vented Rear	
Side Panels-Vented (Set of 2)	
Mounting Hardware-(Pack of 20)	
FHU with 2 FAN 180CFM	
Horizontal Power Distribution Unit 6 Socket 5/15Amp 2U, Round Pin, 230 Volts AC, 32 Amp with Plug	
Horz. Cable Manager-1U-Loop	
OEM should have valid ISO 9001, ISO 14001 & ISO 45001 for design & development for wired & wireless networking products.	
OEM Brand and company together presence in india should be atleast for last 20 years.	
OEM should have own service centre in the state of installation	
OEM offered much be in steady profitable business in India at least for last 5 financial years (Fy 2016-17 to Fy 2020-21) with min. 500Cr turnover of each year for networking business in India for last 5 FY. Bidder shall have to submit audited accounts/auditor certificate in support of their claim.	
OEM should have valid ISO-45001:2018 certificate.	

<b>24 PORT LOADED LIU</b>	
24-Port, 19" Rack Mount LIU Fully Loaded with Single Mode LC Adapters	
Aluminium & Steel base material with powder coating for light mounting	
Snap-in locker design, easy to change the adapter panels	
It should have facility for managing splices & terminations	
It should be capable of storing upto 3mtr of 900micron tight buffered fiber per adapter	
It should have snap-in locker design for easy to change adapter panels for various connector patching	
It should have removable rubber grommet allowing for pre-terminated fibre trunk installation, cable protection & minimizing dust build-up.	
It should have atleast 4 rubber cable plugs for cable entries.	
It should have removable front & top covers for better access to interior of LIU	
It should be supplied with cable ties, mounting ear screws and cable saddle	
OEM should have valid ISO 9001, ISO 14001 & ISO 45001 for design & development for wired & wireless networking products.	
OEM Brand and company together presence in india should be atleast for last 20 years.	
OEM should have own service centre in the state of installation	
OEM offered much be in steady profitable business in India at least for last 5 financial years (Fy 2016-17 to Fy 2020-21) with min. 500Cr turnover of each year for networking business in India for last 5 FY. Bidder shall have to submit audited accounts/auditor certificate in support of their claim.	
OEM should have valid ISO-45001:2018 certificate.	

<b>PIGTAIL</b>	
Single Mode LC Pigtail - 1Mtr	
Provide a field installable Single mode LC pigtails	
Utilize a UPC polishing on the tip to provide high yield during installation.	
Insertion Loss (Max): <0.3 db Max.	
Mating Cycle : 1000 Times	
Return Loss : >= 50 db for UPC	
Connector ferrule: Ceramic	
Retention strenght: 20N	
Minimum Installed Bend Radius: 30mm	
Operating Temp.: (- 10 deg. C to + 60 deg. C)	
Buffer diameter: 900um Tight buffer	
Types : LC Type Simplex	
OEM should have valid ISO 9001, ISO 14001 & ISO 45001 for design & development for wired & wireless networking products.	
OEM Brand and company together presence in india should be atleast for last 20 years.	
OEM should have own service centre in the state of installation	
OEM offered much be in steady profitable business in India at least for last 5 financial years (Fy 2016-17 to Fy 2020-21) with min. 500Cr turnover of each year for networking business in India for last 5 FY. Bidder shall have to submit audited accounts/auditor certificate in support of their claim.	
OEM should have valid ISO-45001:2018 certificate.	

<b>FIBER OPTIC CABLE</b>	
6 Core Single Mode Outdoor Armored Fiber Optic Cable	
Electro Chromium Coated Corrugated Steel Tape (ECCS)	

Central loose tube with jelly compound	
Sequential meter marking	
Armoured Design with Steel music Wire	
Outer Diameter: 7.2±0.5mm	
Thickness of HDPE Jacket: 1.8±0.2mm	
Pulling Tension: Short Term (1000N)	
Crush Load: 2000N/100mm	
Bend Radius: Short Term (20D)	
The fiber type is a Matched Cladding Single Mode	
The fiber is optimized for operation at 1310 nm and at 1550 nm.	
Nominal Mode Field Diameter: 9.3 ± 0.5 μm	
Cladding Diameter: 125 ± 1.0 μm	
PMD (ps/km): ≤0.2	
Cable Cut-off Wavelength: 1260nm	
<b>Attenuation (of cable with fibers):</b>	
At 1310 nm: ≤ 0.34 dB/km	
At 1550 nm : ≤ 0.24 dB/km	
OEM should have valid ISO 9001, ISO 14001 & ISO 45001 for design & development for wired & wireless networking products.	
OEM Brand and company together presence in india should be atleast for last 20 years.	
OEM should have own service centre in the state of installation	
OEM offered much be in steady profitable business in India at least for last 5 financial years (Fy 2016-17 to Fy 2020-21) with min. 500Cr turnover of each year for networking business in India for last 5 FY. Bidder shall have to submit audited accounts/auditor certificate in support of their claim.	
OEM should have valid ISO-45001:2018 certificate.	

FIBER OPTIC PATCH CORD	
Single Mode LC-LC Duplex Patch Cord - 1Mtr	
Optical fiber patch leads shall comprise of Single mode 9/125μm fiber with LC-LC fiber connectors terminated at each end. The optical fiber patch leads shall comply with the following specifications:	
Optical Fiber – Single mode	
Connector: Ceramic ferrule	
Pre-radiuses and pre-polished ferrule	
Duplex Type	
Color-coded yellow for Single mode	
Insertion Loss : <0.3 db	
Cable: 9/125, SM	
Return Loss: >/= 50dB for UPC	
Durability: 1000 mating cycle	
Working Temp: (- 10 deg. C to + 60 deg. C)	
Length: 1 Meter	
OEM should have valid ISO 9001, ISO 14001 & ISO 45001 for design & development for wired & wireless networking products.	
OEM Brand and company together presence in india should be atleast for last 20 years.	
OEM should have own service centre in the state of installation	

OEM offered much be in steady profitable business in India at least for last 5 financial years (Fy 2016-17 to Fy 2020-21) with min. 500Cr turnover of each year for networking business in India for last 5 FY. Bidder shall have to submit audited accounts/auditor certificate in support of their claim.	
OEM should have valid ISO-45001:2018 certificate.	

CORE SWITCH	
Layer-3 Fully Managed Stackable Switch having 24x 1G SFP slots with 4x combo 10/100/1000BaseT ports & 4x 10G SFP+ slots.	
SFP slots should support IEEE 802.3z & IEEE 802.3u compliant transceivers & SFP+ slots should support IEEE 802.3z & IEEE 802.3ae compliant transceivers	
Switch should be 19" Rack Mountable with 1 RU height. Rack mount kit should be included from day one.	
<b>The Switch should have following basic features from day one</b>	
The switch should have RJ45/mini-USB console port for Out of band CLI management & ethernet port for out of band IP management. It should have minimum one alarm port.	
The switch should have support for redundant power supply.	
The switch should have builtin hardware feature for both external event detection & alarm action	
The switch should have switching capacity atleast 128Gbps & packet forwarding rate atleast 95Mpps for 64-bytes packet size	
The switch should have non-blocking architecture & wire-speed performance under fully loaded condition.	
The switch should have virtual stacking capability of atleast 25 switches in a stack.	
The switch should have physical stacking capability with atleast 8 units per stack & atleast 40Gbps of stacking bandwidth.	
The switch should have feature for flexible management of switch resources	
The switch should have 6kV Surge protection on all RJ45 access ports	
<b>The Switch should have following Layer-2 features from day one</b>	
a) Atleast 64K MAC address table size. Atleast 1K static MAC support.	
b) Jumbo frame support for atleast 12KB frame size.	
c) Flow-control features: 802.3x for full duplex & Head-of-line blocking prevention.	
d) UDLD or equivalent features.	
e) IEEE 802.1D (STP), 802.1w (RSTP) & 802.1s (MSTP) with atleast 64 MSTP instances, Root Guard or equivalent features.	
f) Avoidance of the loop occuring in a single port connected to an unmanaged switch/hub by shutting down the corresponding port or corresponding VLAN	
g) Ethernet Ring Protection Switching (ERPS) with maximum 50milli second recovery time.	
h) IEEE 802.1AX & 802.3ad Link aggregation with atleast 32 groups per device & atleast 8 ports per groups. LACP.	
i) Port mirroring with atleast 4 mirroring sessions. Should support Tx, Rx & both based mirroring. Should support one-to-one & many-to-one mirroring, flow based mirroring, RSPAN.	
j) IGMP v1 v2 & v3 snooping with atleast 8000 snooping groups. Should support IGMP snooping per VLAN, host based IGMP snooping fast leave, atleast 128 static IGMP groups, L2 multicast filtering	
k) MLD v1 & v2 snooping with atleast 4000 snooping groups. Per VLAN MLD snooping. Atleast 128 static MLD groups.	

l) At least 4K VLAN groups, 802.1Q, 802.1v protocol based VLAN, support VLAN classification based on ether type, Q-in-Q, GVRP with at least 4K dynamic VLANs, Voice VLAN, Port-based VLAN, MAC-based VLAN, private VLAN, VLAN trunking, MVR (Multicast VLAN Registration) or equivalent feature.	
<b>The Switch should have following Layer-3 features from day one</b>	
a) At least 16K routing table entry size with at least 512 static route entry support.	
b) Default route, RIPv1, RIPv2, RIPng, OSPFv2v3, BGPv4, BGPv4+, Policy based route, Route preference, Route Redistribution, Bidirectional Forwarding Detection	
c) IPv6 tunneling, VRRP, IP helper	
<b>The Switch should have following Layer-3 multicast features from day one</b>	
IGMPv1v2v3, MLDv1v2, DVMRPv3, PIM-SM, PIM-DM, PIM-SSM, MSDP	
<b>The Switch should have following QoS features from day one</b>	
a) IEEE 802.1p, DSCP, atleast 8 queues per port.	
b) Queue handling methods: strict, weighted round robin, weighted deficit round robin, WRED	
c) CoS & classification of packets based on following parameters: VLAN ID, 802.1p priority, MAC address, Ethertype, DSCP, protocol type, IPv4 address, TCP/UDP port number, IPv6 address, IPv6 traffic class	
d) Port & flow based bandwidth control with minimum granularity 8Kbps.	
e) Time based QoS.	
<b>The Switch should have following Security features from day one</b>	
a) Access control list based on VLAN, MAC address, 802.1p priority, DSCP, protocol type, TCP/UDP port, IPv4 address, IPv6 address, IPv6 traffic class	
b) Time based ACL.	
c) Binding of IP address & MAC address with the interface. Dynamic ARP Inspection. IP Source Guard. DHCPv6 Guard, IPv6 Route Advertisement Guard, IPv6 Neighbor Discovery Inspection, Duplicate Address Detection	
d) SSHv2 for both IPv4 & IPv6, Port security with atleast 12K MACs per port.	
e) Broadcast, multicast & unicast storm control.	
f) Protection of the CPU from protocol control packet attack.	
g) DHCP server screening, DHCP client filtering, ARP spoofing prevention, BPDU attack prevention, DoS attack prevention	
h) IEEE 802.1x -- RFC 3580, web based access control, MAC based access control, guest VLAN, Microsoft NAP, RADIUS accounting.	
i) Authentication supported based on : Local data base, RADIUS server	
j) Web based access control for IPv6	
k) Atleast 4 level user account for management access. RADIUS & TACACS+ authentication for management access.	
<b>The Switch should have following management features from day one</b>	
a) Web based -GUI (IPv4 & IPv6), CLI, telnet server & client (IPv4 & IPv6) , TFTP client (IPv4 & IPv6), FTP client (IPv4 & IPv6), SFTP server, Zmodem, SNMPv1v2cv3, Syslog. sFlow, ICMPv6.	
b) RMONv1 & v2, LLDP, LLDP-MED, BootP & DHCP client supporting both IPv4 & IPv6, DHCP relay option 60 & 61.	
c) Multiple images & configurations, SNTP, debug	
d) 802.3ah ethernet link OAM, 802.1ag CFM, Dying gasp.	
e) Inbuilt power saving technique on all Gigabit RJ-45 ports, IEEE 802.3az	
OEM should have valid ISO 9001, ISO 14001 & ISO 45001 for design & development for wired & wireless networking products.	
OEM Brand and company together presence in india should be atleast for last 20 years.	
OEM should have own service centre in the state of installation	



OEM offered much be in steady profitable business in India at least for last 5 financial years (Fy 2016-17 to Fy 2020-21) with min. 500Cr turnover of each year for networking business in India for last 5 FY. Bidder shall have to submit audited accounts/auditor certificate in support of their claim.	
OEM should have valid ISO-45001:2018 certificate.	

ACCESS SWITCH (PoE)	
Layer-2 Fully Managed Stackable Switch having 24x 10/100/1000BaseT PoE ports, 2x 10GBASE-T ports & 4x 10G SFP+ slots	
IEEE 802.3af PoE & IEEE 802.3at PoE+ supported on all GE Copper ports with minimum PoE power budget of 370Watt for the switch	
Switching Capacity should be atleast 168Gbps	
Packet Forwarding Rate should be atleast 125Mpps for 64-byte packet size	
The switch should have non-blocking architecture & wire-speed performance under fully loaded condition from day one	
The switch should have smart fans with sensor IC that provides different fan speed based on different temperature.	
The switch should have support for physical stacking with atleast 8 units per stack.	
The switch should have support for virtual stacking with atleast 25 units per stack.	
The Switch should have support for redundant power supply.	
<b>The Switch should have following L2 features from day one</b>	
1. MAC Address Table size: Atleast 16000	
2. Flow Control: IEEE 802.3x in full duplex, back pressure in half duplex & HoL blocking prevention	
3. Jumbo Frame Support (Atleast 9K bytes)	
4. IGMP v1 v2 v3 snooping with atleast 1024 IGMP snooping groups, Per VLAN IGMP Snooping, host based IGMP snooping fast leave	
5. MLD v1 v2 snooping with atleast 1024 MLD snooping groups, Per VLAN MLD Snooping, host based MLD fast leave	
6. IEEE802.1D STP, 802.1w RSTP,802.1s MSTP with atleast 16 MSTP instances, Root guard or equivalent feature. G.8032 ERPS features.	
7. The switch should be able to avoid the loop occuring in a single port connected to an unmanaged switch/hub by shutting down the corresponding port or corresponding VLAN	
8. IEEE 802.3ad & IEEE 802.1AX Link Aggregation with atleast 8 ports per groups & 32 groups per switch.	
9. Port mirroring & VLAN mirroring for Tx/Rx/Both. One-to-One mode, Many-to-one mode, Flow based mirroring.	
10. IEEE 802.1Q VLAN, atleast 4000 Static VLANs, 4000 Dynamic VLANs Groups, GVRP, Voice-VLAN, asymmetric VLAN, 802.1v protocol VLAN, MAC based VLAN, Private VLAN.	
The switch should have 802.1p support with 8 queues per port. Support strict, WRR queue handling technique. trTCM, srTCM.	
The switch should support CoS based on VLAN, IP address, MAC address, DSCP, TCP/UDP port number, 802.1p priority queues, user defined packet content, IPv6 address	
The switch should have Port-based ingress & egress bandwidth control with minimum granularity of atleast 8Kbps. Flow-based ingress & egress bandwidth control with minimum granularity of atleast 8Kbps	
The switch should have support for standard & extended Access control lists based on VLAN ID, 802.1p priority, MAC address, IP Address, DSCP, TCP/UDP port number, user defined packet content, IPv6 address. Time based ACL.	

The switch should have the following security features from day one: SSHv2 for IPv4 & v6, Broadcast/Multicast & Unicast storm control, port security feature with atleast 64 MAC per port, traffic segmentation, ARP spoofing prevention, IEEE 802.1x port based authentication, authentication database failover, DHCP server screening, DAI (Dynamic ARP Inspection), BPDU attack protection, DoS attack prevention, Binding of IP address & MAC address with physical port. Web based Access Control, MAC based Access Control, Dynamic VLAN assignment, Guest VLAN, RADIUS & TACACS+. Atleast four level of user account control.	
The switch should have feature to protect the CPU from protocol control packet attack.	
The switch should have feature of atleast 512 static routes, default root, RIPv1v2, RIPv6, OSPF, Policy Based Routing, at least 128nos. Of IP interfaces, IPv6 Neighbor Discovery, VRRP, policy based route from first day	
The Switch should have following Management features from day one: Web-based GUI, CLI, Telnet Server, TFTP Client, SFTP server, SNMPv1v2cv3, SNMP trap, BootP/DHCP Client, SNTP, NTP, debug command, RMONv1, RMONv2, Syslog, ICMPv6, DHCP server, DHCP Relay Option 60,61,61,125, LLDP, LLDP-MED, Multiple Image support, sflow, trusted host, Physical console port for Out of band management.	
All type of switches & transceivers should be from same make.	
OEM should have valid ISO 9001, ISO 14001 & ISO 45001 for design & development for wired & wireless networking products.	
OEM Brand and company together presence in india should be atleast for last 20 years.	
OEM should have own service centre in the state of installation	
OEM offered much be in steady profitable business in India at least for last 5 financial years (Fy 2016-17 to Fy 2020-21) with min. 500Cr turnover of each year for networking business in India for last 5 FY. Bidder shall have to submit audited accounts/auditor certificate in support of their claim.	
OEM should have valid ISO-45001:2018 certificate.	

FIBER OPTIC TRANSCEIVER	
1000BaseLx Single Mode SFP Transceiver with Duplex LC Connector	
Support IEEE 802.3ae standard	
Atleast 10Km distance support on single mode fiber interface	
Transceiver module should be hot pluggible. MSA Compliant	
Operating wavelength: 1310nm	
Should be same make as switches.	
OEM should have valid ISO 9001, ISO 14001 & ISO 45001 for design & development for wired & wireless networking products.	
OEM Brand and company together presence in india should be atleast for last 20 years.	
OEM should have own service centre in the state of installation	
OEM offered much be in steady profitable business in India at least for last 5 financial years (Fy 2016-17 to Fy 2020-21) with min. 500Cr turnover of each year for networking business in India for last 5 FY. Bidder shall have to submit audited accounts/auditor certificate in support of their claim.	
OEM should have valid ISO-45001:2018 certificate.	

3KVA online UPS with inbuilt battery system and Rackmount	
Main Input Voltage: 230 V AC	
Main Output Voltage: 230 V	
Rated power in W: 2400W	
Rated power in VA :3000VA	
Plug standard: IEC 60320 C20	

Number of rack unit: 2U	
Provided equipment :Basic UPS signalling RS-232 cable, CD with software, Country-specific, detachable power cord, Rack mounting brackets, Stabilization/wall mounting feet, User manual and USB cable	
Input	
Switching current capacity: 20AMP	
Input voltage limits : 110...280 V half load, 160...280 V full load	
Input protection type : Circuit Breaker	
Network frequency : 40...70 Hz auto sensing	
Output	
Maximum configurable power in VA: 3000 VA	
Maximum configurable power in W : 2400 Watt	
Output frequency: 50/60 Hz +/- 3 Hz sync to mains	
Harmonic distortion : 3%	
UPS type : Double Conversion online	
Wave type: Sine wave	
Efficiency :90% (full load)	
Crest factor : 3:01	
Communications & Management	
Control panel: Multifunction LCD status and control console	
Surge energy rate: 600 J	