

## 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/17-18/00079 Dated: 21-12-17**

**For:** ESTABLISHMENT OF LAN, WI-FI, SECURITY AT PASCHIMANCHAL UNNAYAN AFFAIRS DEPARTMENT.

The DY. G.M.(COMMERCIAL) on behalf of WEST BENGAL ELECTRONICS INDUSTRY DEVELOPMENT CORPORATION LIMITED invites Tender for the work detailed in table below:- (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) | TECHNO COMMERCIAL Bid Opening Date and Time (Online) |
|--|---|---|---|--|
| Establishment of LAN, WI-FI, Security at Paschimanchal Unnayan Affairs Department. | Rs.500 (In the form of DD duly pledged in favour of WBEIDC Limited )  | Rs. 7,500 (In the form of DD / BG from a scheduled bank duly pledged in favour of WBEIDC Limited payable at Kolkata ) | 05 January 2018<br>1:00 PM                    | 08 January 2018<br>3:00 PM                           |
| <b>BID Opening Venue</b>   | <b>WEST BENGAL ELECTRONICS INDUSTRY DEVELOPMENT CORPORATION LIMITED<br/>Webel Bhavan, Block - EP &amp; GP, Sector - V Bidhannagar, Salt Lake Kolkata 700091</b> |   |   |  |

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

For Technical Queries, Contact: Nirmal Ray, GM (TECH.) E-Mail: nirmal.ray@webel-india.com

## **DATE & TIME SCHEDULE**

| <b>Activity / Event Description</b> | <b>Date</b>      | <b>Time</b> |
|-------------------------------------|------------------|-------------|
| Last Query Submission               | 27 December 2017 | 4:00 PM     |
| Pre Bid Conference                  | 28 December 2017 | 4:00 PM     |
| Publishing Last Corrigenda (if any) | 02 January 2018  | 3:00 PM     |
| Submission of Bid(s)                | 05 January 2018  | 1:00 PM     |
| TECHNO COMMERCIAL Opening           | 08 January 2018  | 3:00 PM     |
| PRICE BID Opening                   | 09 January 2018  | 3:00 PM     |

# NOTICE INVITING TENDER

## 1 . Final submission date & time

In the event of e-filing, intending bidder may download the tender documents from the website <https://wbtenders.gov.in> directly with the help of Digital Signature Certificate. Necessary cost of tender documents (tender fees) may be remitted through Demand Draft issued from any Scheduled Bank in favour of "WBEIDC Ltd", payable at Kolkata and also to be documented through e-filing. Cost of Earnest Money (EMD) may be remitted through Demand Draft / BG issued from any Scheduled Bank in favour of "WBEIDC Ltd", payable at Kolkata and also to be documented through e-filing. The original Demand Draft / BG against tender fees, Earnest Money Deposit (EMD) or documents in support of Fixed Security Deposit (FSD) (scan copy of FSD should be uploaded for EMD exemption) should be submitted physically to the Advisor (Commercial), West Bengal Electronics Industry Development Corporation Ltd, Block - EP & GP, Sector-V, Salt Lake City, Kolkata-700091 under sealed cover on or before 05-01-18 13:00.

## 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.

**Statutory**
  
- 2 . Experience on the related job area**  
The bidder should have executed 1 single order of similar nature of jobs, particularly in ESTABLISHMENT OF LAN, WI-FI, SECURITY of Rs.1,200,000.00 each or more at any or The bidder should have executed 2 single order of similar nature of jobs, particularly in ESTABLISHMENT OF LAN, WI-FI, SECURITY of Rs.600,000.00 each or more at any or The bidder should have executed 3 single order of similar nature of jobs, particularly in ESTABLISHMENT OF LAN, WI-FI, SECURITY of Rs.400,000.00 each or more at any Govt. Department / Quasi Govt. Dept / PSU / Board / Council/ Large corporate or similar organization in last 3 financial years. Govt. Department / Quasi Govt. Dept / PSU / Board / Council or similar organization in last 3 financial years. Work Order copies along with job completion certificate from the customer duly self-attested are to be submitted. In case of non-availability of attestation from Gazetted Officer, the bidder will have to produce original document for verification, without which the bid will be treated as non responsive and summarily rejected.

**Non-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 OEM(s) must accept their responsibility of supply, installation and comprehensive maintenance of services during warranty period as per ANNEXURE MAF.

**Non-statutory**
  
- 4 . Minimum Annual Turnover for the last financial year**  
Turnover of the last Financial Year (2016 - 2017) should be Rs.3,000,000.00 or above (Copy of audited Balance Sheet & P/L A/c duly certified by CA is required as proof).

**Statutory**
  
- 5 . Aggregate Annual Turnover**  
Aggregate of Turnover of last 3 Financial Years (01-04-14 - 31-03-17) 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).

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

**Statutory**
  
- 7 . ISO Cerification**  
The Bidder must be detailed profile of the company, Articles of Association and ISO 9001:2008 certificate holders in the specified area of the job mentioned in this tender.

**Non-statutory**
  
- 8 . 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.

**Statutory**
  
- 9 . Statutory Documents-PAN & IT Returns**  
Copies of valid PAN along with I-T return documents, for Financial Year 2014-15 2015-16, 2016-17 are to be enclosed with the bid.

**Non-statutory**

**10 . Trade License**

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

**Statutory**

**11 . Locations of Service Centres**

The bidder must have at least 1 registered service center for ESTABLISHMENT OF LAN, WI-FI, SECURITY in KOLKATA, WEST BENGAL and service centers in at least 1 locations in WEST BENGAL Supporting documents for existence of Service Centre(s) has to be attached with the tender document.

**Non-statutory**

**12 . 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.

**Non-statutory**

**13 . Additional Eligibility Criteria**

ALL THE BIDDERS ARE REQUESTED TO SUBMIT GST REGISTRAION COPY.

**Non-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. Exemption under NSIC

Bidders who are registered with NSIC, UNDER SINGLE POINT REGISTRATION SCHEME for the TENDERED ITEMS are exempted payment of bid security and Tender Fees 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 and documented through e filling, otherwise the Bid will be treated as cancelled. In case of bidders having monetary limit as "NO LIMIT", the exemption will be limited to Rs.50,00,000/- only as per existing policy of WBEIDC Ltd.

### e-Tender Financial Proposal

#### 1. 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.

#### 2. 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.

#### 3. Rejection of Bid

WBEIDCL reserves the right to accept or reject any Bid and to cancel the Bidding processes and reject all Bids at any time prior to the award of Contract without thereby incurring any liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders of the ground for Employer's action.

#### 4. Award of Contract

The Bidder whose Bid has been accepted will be notified by the Tender Inviting Accepting Authority through acceptance letter / Letter of Acceptance. The notification of award will constitute the formation of the Contract. All the tender documents including N.I.T. & B.O.Q. will be the part of the contract documents. After receipt of Letter of Intent, the successful bidder shall have to submit a PBG from a scheduled bank amounting to 5% of LOI value ( format attached with this tender document).

# SECTION C

## GENERAL TERMS & CONDITIONS

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### GENERAL TERMS AND CONDITIONS

**1 . Earnest Money Deposit (EMD)**

The firm shall furnish an EMD of Rs. 7,500 in the form of a DEMAND DRAFT from a Scheduled Bank payable at Kolkata duly pledged in favour of WBEIDC Limited. Any bid not accompanied with the valid EMD shall be summarily rejected. Earnest money will be refunded to the unsuccessful bidders after receiving application from them on completion of tender process. In case of successful bidders earnest money will be retained till security deposit of 5% of the total value of the job is deposited in the form of BANK GURANTEE of the total value of the job is deposited in the form of 60 days more than the warranty period. Earnest money of the bidder is liable to be forfeited in case of any false submission / statement. In case of any refusal to abide by terms and conditions of our LOI/PO or refusal to enter into a written agreement as per prefixed terms and conditions authority is at liberty to forfeit earnest money and take lawful actions. Note: Empanelled vendors are not required to submit the security deposit money if they are selected as successful bidder.

**2 . 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 5% 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.

**3 . 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).

**4 . Rejection of BID**

Any deviation from the given specification and make, will be treated as rejected.

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

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

**7 . 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.

**8 . 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.

**9 . Inclusion of freight & insurance**

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

**10 . Non escalation of Price**

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

**11 . 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.

**12 . Availability of PAN**

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

**13 . Whom to report**

Reporting: You have to report to MR. DEBRAJ GHOSHAL,AM for TECHNICAL purposes.

**14 . 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.

**15 . Additional Terms & Conditions**

TECHNICAL SPECIFICATION AS PER ATTACHED ANNEXURE FOR BOTH ACTIVE AND PASSIVE COMPONENTS.



## SECTION D

# SPECIAL TERMS & CONDITIONS

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### SPECIAL TERMS AND CONDITIONS

**1 . Delivery time period**

ALL ITEMS must be delivered and installed within 6 WEEKS from the date of issuance of PO.

**2 . Delivery Locations**

Delivery/Installation location:

PASCHIMANCHAL UNNAYAN AFFAIRS DEPARTMENT, POURA BHAWAN, 5TH FLOOR, SALT LAKE, KOLKATA - 700106.

**3 . Taxes all inclusive**

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

**4 . 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).

**5 . Payment Authority**

Payment sanctioning authority: MR. NIRMAL RAY.

**6 . Security Deposit**

Successful bidder will have to submit a performance bank guarantee within 14 DAYS of issuance of LOI, amounting 5% total ordered value in the format given in the tender document for a validity period of 60 DAYS more than the warranty period (3 YEARS from the date of final acceptance of the end customer) of the quoted items.

**7 . Warranty Support - Period**


The equipment along with the solution supplied will be warranted for 36 MONTHS from the date of ACCEPTANCE of the 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       | CAT 6 UTP CABLE                                   | 7     | Box      |                   |
| 2       | CAT6 I/O WITH SINGLE PORT FACE PLATE              | 48    | Nos.     |                   |
| 3       | CAT6 PATCH CORD (1mtr.)                           | 55    | Nos.     |                   |
| 4       | CAT6 PATCH CORD (2mtr.)                           | 48    | Nos.     |                   |
| 5       | 24 PORT PATCH PANEL CAT6 LOADED                   | 2     | Nos.     |                   |
| 6       | 22U FLOOR MOUNT RACK                              | 1     | Nos.     |                   |
| 7       | 24 PORT NON-POE SWITCHE                           | 1     | Nos.     |                   |
| 8       | 24 PORT POE SWITCH                                | 1     | Nos.     |                   |
| 9       | ACCESS POINT FOR Wi-Fi ACCESS                     | 4     | Nos.     |                   |
| 10      | Firewall with IPS,AMP,URL filtering & VPN feature | 1     | Nos.     |                   |
| 11      | CAT 6 CABLE LAYING THROUGH CABLE DUCT,CASING      | 2,135 | Lump Sum |                   |
| 12      | FIXING OF FLOOR MOUNT 22U RACK                    | 1     | Lump Sum |                   |
| 13      | INSTALLATION OF 24 PORT PATCH PANNEL              | 2     | Nos.     |                   |
| 14      | I/O TERMINATION                                   | 45    | Nos.     |                   |
| 15      | PROJECT DOCUMENTATION & COMMISSIONING             | 1     | Lump Sum |                   |

## 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. |

|  |  |             |
|--|--|-------------|
|  | Tender No. WEBEL/EOT/COM/17-18/00079 Dated: 21-12-17 For ESTABLISHMENT OF LAN, WI-FI, SECURITY AT PASHIMANCHAL UNNAYAN AFFAIRS DEPARTMENT. | Page No: 10 |
|--|--|-------------|

# COMPLIANCE SHEET

| SL. No. | Description / Specification                       | Qty   | UOM      | Offered Specification | Compliant (Yes/No) | Deviation Details (if any) |
|---------|---|-------|----------|-----------------------|--------------------|----------------------------|
| 1       | CAT 6 UTP CABLE                                   | 7     | Box      |                       |                    |                            |
| 2       | CAT6 I/O WITH SINGLE PORT FACE PLATE              | 48    | Nos.     |                       |                    |                            |
| 3       | CAT6 PATCH CORD (1mtr.)                           | 55    | Nos.     |                       |                    |                            |
| 4       | CAT6 PATCH CORD (2mtr.)                           | 48    | Nos.     |                       |                    |                            |
| 5       | 24 PORT PATCH PANEL CAT6 LOADED                   | 2     | Nos.     |                       |                    |                            |
| 6       | 22U FLOOR MOUNT RACK                              | 1     | Nos.     |                       |                    |                            |
| 7       | 24 PORT NON-POE SWITCHE                           | 1     | Nos.     |                       |                    |                            |
| 8       | 24 PORT POE SWITCH                                | 1     | Nos.     |                       |                    |                            |
| 9       | ACCESS POINT FOR Wi-Fi ACCESS                     | 4     | Nos.     |                       |                    |                            |
| 10      | Firewall with IPS,AMP,URL filtering & VPN feature | 1     | Nos.     |                       |                    |                            |
| 11      | CAT 6 CABLE LAYING THROUGH CABLE DUCT,CASING      | 2,135 | Lump Sum |                       |                    |                            |
| 12      | FIXING OF FLOOR MOUNT 22U RACK                    | 1     | Lump Sum |                       |                    |                            |
| 13      | INSTALLATION OF 24 PORT PATCH PANNEL              | 2     | Nos.     |                       |                    |                            |
| 14      | I/O TERMINATION                                   | 45    | Nos.     |                       |                    |                            |
| 15      | PROJECT DOCUMENTATION & COMMISSIONING             | 1     | Lump Sum |                       |                    |                            |

## 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 \_\_\_\_\_

**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

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.

**BANK GUARANTEE (BG) FORM**  
**BID SECURITY**

Whereas

.....  
(Hereinafter called "the Bidder") has submitted his bid dated..... against the RFP floated by WBEIDC Limited RFP ref:.....dated ..... (hereinafter called "the Bid").

KNOW ALL MEN by these presents that WE.....(Branch Name) of ..... (Bank Name) having our registered office at ..... (hereinafter called "the BANK") are bound unto WBEIDC Ltd. in the sum of Rs. .... for which payment well and truly to be made to the said WBEIDC Ltd, the BANK binds itself, its successors and assigns by these presents.

The Conditions of this obligation are:

1. If the Bidder withdraws its bid during the period of bid validity specified by the Purchaser.
2. If the Bidder does not accept an arithmetical correction in its Bid Price.
3. In the case of a successful Bidder, if the Bidder fails within the specified time limit to furnish the acceptance of Letter of Intent.
4. In the case of a successful Bidder, if the Bidder fails within the specified time limit to furnish the required Contract Performance Guarantee in accordance with the RFP.

We undertake to pay WBEIDC Ltd up to the above amount upon receipt of its first written demand, without the WBEIDC Ltd having to substantiate its demand, provided that in its demand the WBEIDC Ltd will note that the amount claimed by it is due to it owing to the occurrence of anyone or more of the above conditions specifying the occurred condition or conditions.

BG will be valid up to .....

This Guarantee will remain in force upto and including 60 days after the period of price validity, and any demand in respect thereof should reach the BANK not later than the above date.

(Signature of the BANK)

SEAL OF THE BANK

Dated: ----- day of -----(month) 20....

Name of Witness (Signature of the Witness)

Address of Witness Date:

**TECHNICAL SPECIFICATION FOR UTP CABLING SYSTEM-- Anexture-1**

**CAT6 UTP CABLE--- Anexture-1**

| <b>Sr No.</b> | <b>Details</b>                               | <b>Specification</b>   | <b>Compliance (Y/N)</b> |
|---------------|--|--|-------------------------|
| 1             | Type   | 23 AWG solid bard copper, Unshielded Twisted 4 Pair, Category 6, TIA / EIA 568 C.2, ISO/IEC 11801 & UL 444 standard.   |                         |
| 2             | Conductors                                   | Solid bare copper  |                         |
| 3             | Insulation                                   | Polyethylene   |                         |
| 4             | Jacket                                       | <b>LSZH jacket complying to:</b><br>Fire rating IEC 60332-1<br>Toxicity IEC 60754-1<br>Smoke density IEC 61034-1<br>NEMA WC-63.1 Category 6                        |                         |
|               | Pair Separator                               | Cross-member (+) fluted Spline.  |                         |
| 5             | Approvals                                    | ETL 4 connector channel verified to ANSI/TIA Cat 6, ISO 11801 for Class E  |                         |
| 6             | Frequency tested up to                       | <b>Minimum 250 MHz; ETL report for 4 connector channel performance upto 250 MHz to be provided.</b>  |                         |
| 7             | Packing                                      | Box of 305 meters  |                         |
| 8             | Cable Outer Diameter                         | 6.1mm  |                         |
| 9             | Delay Skew                                   | <b>45 ns @ 100Mhz</b>  |                         |
| 10            | Bend Radius                                  | 4 * Cable Diameter   |                         |
| <b>11</b>     | <b>Impedance</b>                             | 100 Ohms + / - 15 ohms,  |                         |
| <b>12</b>     | <b>Mutual Capacitance</b>                    | 5.6 NF MAX /100 Mtr.   |                         |
| <b>13</b>     | <b>Conductor Resistance</b>                  | 6.9 Ohms Max /100 mtr  |                         |
| <b>14</b>     | <b>Velocity of Propagation Delay</b>         | 70%  |                         |
| <b>15</b>     | <b>Performance characteristics @ 250 MHz</b> | Attenuation: 32.8dB/100m<br>NEXT : 38.3 dB<br>PS NEXT : 36.3 dB<br>ELFEXT : 19.8 dB<br>PSELFEXT : 16.8 dB<br>Return Loss: 17.3 dB<br>ACR : 5.5 dB<br>PSACR :3.5 dB |                         |
| <b>16</b>     | <b>ROHS Compliant</b>                        | ROHS/ELV Compliant   |                         |

**TECHNICAL SPECIFICATION FOR CAT6 UTP JACKS- Anexture-2 & 2a**

**CAT6 UTP JACKS---- Anexture-2**

| Sr No. | Details                               | Specification   | Compliance (Y/N) |
|--------|---------------------------------------|---|------------------|
| 1      | Type                                  | Cat6 IO should meet or exceed Category 6 transmission requirements for connecting hardware, as specified in ANSI/TIA 568-C.2 Commercial building telecommunications Cabling standard and ISO/IEC 11801:2002 second edition. |                  |
| 2      | Modular Jack                          | 1000 front mating cycles  |                  |
| 3      | Wire terminal                         | At least 20 re-termination cycles   |                  |
| 4      | Accessories                           | <b>Integrated bend-limiting strain-relief unit for cable entry with locking facility at IDC contact point</b>   |                  |
|        |                                       | Support cable pair termination process on the jacks at 90 degree angle.   |                  |
|        |                                       | Bidder should have a mechanism to maintain the quality of the termination ir-respective of the skill level of the termination staff.  |                  |
| 5      | Housing                               | Encapsulated Lead Frame technology.   |                  |
| 6      | 110 Blocks                            | polycarbonate, 94V-0 rated  |                  |
| 7      | Jack Details                          | Connector/hardware retention of at least 88.5 N<br>Plug /connection retention of at least 50N.<br>Storage temperature range of -40 Deg C to +70 Deg C.  |                  |
| 8      | Wiring blocks                         | Polycarbonate, 94V-0 rated  |                  |
| 9      | Approvals                             | (a) UL Listed / CSA Approved<br><b>(b) ETL verified to TIA / EIA Cat 6. Should be part of the registered 4 connector channel as per Intertek / ETL report</b>   |                  |
| 10     | Performance characteristics @ 250 MHz | Insertion Loss : 0.28 dB<br>NEXT : 49 dB<br>FEXT : 39.1dB<br>Return Loss : 22 dB  |                  |
| 11     | Approval                              | Cat6 IO should be RoHS certified and could have safety listing of ACA and Bi-national standard listed.  |                  |

**FACE PLATE-- Anexture-2.1**

| Sr No. | Details       | Specification  | Compliance (Y/N) |
|--------|---------------|--|------------------|
| 1      | Type          | <b>Should be Simplex/Duplex/Quad.</b>                              |                  |
| 2      | Material      | Fire -retardant Plastic, ABS, White color.                         |                  |
| 3      | Acceptability | Should be able to accept Cat6A, Cat6 and Cat5e information outlets |                  |
| 4      | Approvals     | UL94V0   |                  |

**TECHNICAL SPECIFICATION FOR WORKSTATION / EQUIPMENT PATCH CORDS--- Anexture-3**

**WORKSTATION / EQUIPMENT PATCH CORDS--- Anexture-3**

| Sr No. | Details                      | Specification   | Compliance (Y/N) |
|--------|------------------------------|---|------------------|
| 1      | Type                         | Unshielded Twisted Pair, Category 6, TIA / EIA 568-C.2 & ISO/IEC 11801, IEC 60603-7, FCC Part 68 Subpart F Specifications.  |                  |
| 2      | Conductor                    | Cat6 Patch Cord should be 4 Twisted Pair, 24 AWG Stranded Bare Copper Conductors. Contact Blade should be Phosphor bronze plated with 50u" gold over 100u" nickel undercoat.  |                  |
| 3      | Length                       | 4 feet, 7 feet, 10 feet   |                  |
| 4      | Plug Protection              | Factory fitted Strain relief boots on either side   |                  |
| 5      | Performance Characteristics  | Max. Current Rating should be 1.5 Amp<br>Min. Insulation Resistance should be 100MOhm<br>Max. Contact Resistance should be 20mOhm<br>Dielectric Strength should be 1000 VAC (RMS)<br>Voltage Rating should be 30 VAC Maximum. |                  |
| 5      | Jacket                       | <b>LSZH</b>   |                  |
| 6      | Operating Environment Range: | The patch cord should have Insertion Life of 750 mating cycles with Pull force of min. 89 Newton, Humidity 10% to 90% R.H., Temperature range of -10 Deg C to +60 Deg C   |                  |

**TECHNICAL SPECIFICATION FOR CAT6 UTP JACK PANELS 24 PORT--- Anexture-4**

**CAT6 UTP JACK PANELS 24 PORT---- Anexture-4**

| Sr No. | Details                | Specification   | Compliance (Y/N) |
|--------|------------------------|---|------------------|
| 1      | Type                   | 24-port, Modular, 1U, PCB based, Unshielded Twisted Pair, Category 6, TIA / EIA 568-C.2 and ISO/IEC 11801, Unloaded   |                  |
| 2      | Port arrangement       | Configured as 6 Port Module with individually replaceable CAT-6 Jacks   |                  |
| 3      | Circuit Identification | Front of each module shall be capable of accepting 9 mm to 12 mm labels   |                  |
| 4      | Port Identification    | Patch panels IDC (IDC of Information Outlet) Connectivity should be at rear end & RJ-45 jack on front panel,19" rack mountable.   |                  |
| 5      | Temperature            | Patch panel should have Storage Temperature range of -40Deg C to +70 Deg C, Installation Temperature range of -10Deg C to +60 Deg C and Operating Temperature range of -10Deg C to +60 Deg C. |                  |
| 6      | Approvals              | Patch Panel should be RoHS complied with ACA safety listing.  |                  |
| 7      | Termination Pattern    | TIA / EIA 568 A and B;  |                  |

**Eligibility Criteria for Passive OEM:**

| <b>Sr #</b> | <b>Eligibility Criteria</b>  | <b>Compliance with Document</b> |
|-------------|--|---------------------------------|
| 1           | <b>Passive OEM</b> offered must be in India / SAARC for more than at-least 10 years  |                                 |
| 2           | OEM should have members participating in Telecommunications Industry Association committee with presence in all of the Telecommunication subcommittees of the following: <ul style="list-style-type: none"><li>• <b>TIA TR-42.1 Subcommittee on Commercial Building Telecommunications Cabling</b></li><li>• <b>TIA TR-42.5 Infrastructure Terms Subcommittee</b></li><li>• <b>TIA TR-42.10 Sustainable Information Communications Technology Subcommittee</b></li></ul> |                                 |
| 3           | OEM should be a member of Telecommunications Industry Association (EIA / TIA ) Information.  |                                 |
| 4           | All cables & components offered should be ROHS mentioned in Data Sheet.  |                                 |
| 5           | OEM should provide a below mentioned third party test report for Cat6 LSZH Cable:<br>Transmission Test : TIA/EIA 568 C.2<br>Channel test : TIA/EIA 568 C.2<br>Smoke Density Test : IEC61034-1<br>Halogen Acid Gas Content : IEC60754-1<br>Flame Retardancy Test: IEC60332-1  |                                 |
| 6           | Preferred make: Belden / Panduit/Corning   |                                 |
| 7           | OEM Should be ISO certified organization   |                                 |
| 8           | All passive products from single OEM & should have 25 years of channel performance and component warranty.   |                                 |



## TECHNICAL SPECIFICATION FOR 22U FLOOR MOUNT RACK---- Anexure-5

| Technical Specification - |                               |   |                        |
|---------------------------|-------------------------------|---|------------------------|
| Sr.                       | Item                          | Description   | Compliance (Yes or No) |
| 1                         | <b>Basic Structure</b>        | Rack should be of All Steel Construction with powder coated finish. Rack design should enable shipping of the rack in (CKD) Completely Knock Down condition and it should permit an easy assembly of the racks at site as per the requirement at site. All Steel structure of frames and depth mounting channels should rest positively fastened onto the integral Plinth of box like Configuration. Thus ensuring the higher level of Rigidity of the Basic rack skeleton while effectively distributing and transferring the entire load to integrated Plinth. Construction of all direct load bearing structural members like Frames, Plinth and Vertical Mounting rails should not be less than 2.0mm CRCA Steel. Integral Plinth should have provision for Cable Entry on rear and two sides along with cable entry gland plate on the top face of the Plinth. Minimum opening of this top gland plate on the plinth should be at least 300mm x 300mm with separate opening for electrical / power cables entry. |                        |
| 2                         | <b>Castors</b>                | The plinth should also have provision to mount castors (4 Nos.). This is required for the facility of moving the rack while installation process and then resting the same rigidly at the final location. When the rack is resting on the leveling feet, castors should not touch the ground surface. (All castors should be without any brake or any other locking mechanism)  |                        |
| 3                         | <b>Front Door</b>             | Front door – Front Vented Glass door should be provided with 2 locks for the security purpose. This door should have provision to get mounted on Right or Left side of the rack front. This means that it should be possible to change the door configuration from Left to Right at site. It should also be possible to open this door by 180 Degrees to ensure proper approach to front of rack.   |                        |
| 4                         | <b>Rear Door</b>              | Rear door should be completely perforated to facilitate the air circulation at the maximum without offering any resistance to the same. Ideally, it should be possible to remove it easily and should have 2 locks for the security purpose. Rear doors should have provision to mount fan trays.   |                        |
| 5                         | <b>Side panel</b>             | Side Panels should be easily removable type along with the provision for locking. Ideally, the panels should have latching arrangement to facilitate easy removal and putting back the panel along with locks for the security purpose.   |                        |
| 6                         | <b>Space</b>                  | Height - The Rack should Provide 22U Usable Space.<br>Width – The rack should be 600mmW with 19” mounting provision<br>Depth – The rack should be at least 800mmD. Usable Depth should be not less that 700mm   |                        |
| 7                         | <b>Load Bearing Capacity</b>  | Load carrying capacity of rack should be 500 Kg.  |                        |
| 8                         | <b>Mounting Provisions</b>    | Mounting rails (for Standard 19" mounting) should be made up of steel. (Minimum 2.0mm thickness) and should be of Multi-fold design for enhanced loading capacity and rigidity. It should have unique U Marking along with U locator notch. U Number Markings should be clearly visible even after mounting of the equipment.   |                        |
| 9                         | <b>Cable Manager</b>          | Two Numbers 1U Cable Manager should be provided along with Metal Loops for Cable Dressing.  |                        |
| 10                        | <b>Heat Management</b>        | Top roof should be well ventilated, especially with ventilation provided on the vertical side of the roof. This will greatly enhance the hot air outflow while in operation. Roof should also have provision to mount the cooling fan trays. It should be possible to mount at least 2 nos. of 90 CFM cooling fans on this roof and in addition there should be space for the cable entry from the top.   |                        |
| 11                        | <b>Powder Coating Details</b> | Thickness of powder coating should be 60 microns or more.<br>Colour of the cabinet should be : Black / Blue and White   |                        |
| 12                        | <b>Thickness of Material</b>  | The structure and all its components should be made from CRCA Steel Material – at least 1.2mm thick   |                        |
| 13                        | <b>Shelving Options</b>       | The rack should be provided with 1 Heavy Duty Shelf of 727mmD   |                        |
| 14                        | <b>Power Management</b>       | Power distribution units provided should have 6 outlets of 5/15 amp capacity. All cables used should be of ISI grade with 2.5sq mm cross sectional area. All the connecting ends must be tinned so as to avoid any loose wire strands. Rack should have the appropriate mounting provision for the multiple of these PDUs at the rear of the rack. Each Rack should be provided with 1 numbers of such power distribution units.  |                        |
| 15                        | <b>ISO Certifications</b>     | Manufacturer should have ISO 9001:2008, 14001:2004 and 18001:2007 ISO Certifications  |                        |
| 16                        | <b>APPROVED MAKE</b>          | WQ / EMERSON / RITTAL   |                        |



| S/N   | Technical Specification / Requirement   | Compliance (Yes/No) | Remark |
|---|---|---------------------|--------|
| <b>24-Port PoE Switch with 4 SFP Uplink</b> |   |                     |        |
| <b>General Features</b>                     |   |                     |        |
| 1   | The OEM should be in the Leaders / Challenger quadrant of the latest Gartner's report for Wired and Wireless LAN  |                     |        |
| 2   | The switch should have minimum 24 x 10/100/1000 Base-T Ports & 4 x 1G SFP slots.  |                     |        |
| 3   | Future support for Redundant Power supply   |                     |        |
| 4   | Should have fan for proper cooling.   |                     |        |
| <b>Performance</b>                          |   |                     |        |
| 5   | At least 200 Gbps switching bandwidth   |                     |        |
| 6   | Forwarding rate – At least 70 Mpps.   |                     |        |
| 7   | Configurable at least 16000 MAC addresses   |                     |        |
| 8   | The switch should support stacking with 80 Gbps Stacking bandwidth to stack upto 8 switches into a single virtual switch. Stacking is not required from day 1, but stacking   |                     |        |
| 9   | DRAM 512 MB and 128 MB Flash  |                     |        |
| 10  | Should have PoE Power of minimum 370 Watt.  |                     |        |
| <b>Layer-2 Features</b>                     |   |                     |        |
| 11  | IEEE 802.1Q VLAN encapsulation. At least 1000 VLANs should be supported. Support for 4000 VLAN IDs.   |                     |        |
| 12  | Support for Automatic Negotiation of Trunking Protocol, to help minimize the configuration & errors.  |                     |        |
| 13  | Centralized VLAN Management. VLANs created on the Core Switches should be propagated automatically.   |                     |        |
| 14  | Spanning-tree Enhancements for fast convergence   |                     |        |
| 15  | IEEE 802.1d, 802.1s, 802.1w, 802.3ad,   |                     |        |
| 16  | Spanning-tree root guard feature to prevent other edge switches becoming the root bridge.   |                     |        |
| 17  | IGMPv3. Support for at least 1000 IGMP Groups. IGMP   |                     |        |
| 18  | Link Aggregation Protocol (LACP)  |                     |        |
| 19  | Support for UDLD (in case of fiber cut) and to disable them to avoid problems such as spanning-tree loops.  |                     |        |
| 20  | The Switch should be able to discover the neighboring device of the same vendor giving the details about the platform, IP Address, Link connected through etc, thus   |                     |        |
| 21  | Per-port broadcast, multicast, and storm control to prevent faulty end stations from degrading overall systems  |                     |        |
| 22  | Local Proxy Address Resolution Protocol (ARP) to work in conjunction with Private VLAN Edge to minimize broadcasts and maximize available bandwidth.  |                     |        |
| 23  | Multicast VLAN registration (MVR) to continuously send multicast streams in a multicast VLAN while isolating the streams from subscriber VLANs for bandwidth and security   |                     |        |
| <b>Network Security Features</b>            |   |                     |        |
| 24  | Support for mechanisms to improve the network's ability to automatically identify, prevent, and respond to security threats and also to enable the switches to collaborate with third-party solutions for security-policy compliance and enforcement before a host is permitted to access the |                     |        |
| 25  | IEEE 802.1x to allow dynamic, port-based security, providing user authentication.   |                     |        |
| 26  | Port-based ACLs for Layer 2 interfaces to allow application of security policies on individual switch ports.  |                     |        |
| 27  | SSHv2 and SNMPv3 to provide network security by encrypting administrator traffic during Telnet and SNMP   |                     |        |
| 28  | Bidirectional data support on the Mirrored port to allow the intrusion detection system (IDS) to take action when an  |                     |        |

|    |   |  |  |
|----|---|--|--|
| 29 | RADIUS authentication to enable centralized control of the switch and restrict unauthorized users from altering the   |  |  |
| 30 | MAC address notification to allow administrators to be notified of users added to or removed from the network.  |  |  |
| 31 | DHCP snooping to allow administrators to ensure consistent mapping of IP to MAC addresses. This can be used to prevent attacks that attempt to poison the DHCP binding database, and to rate-limit the amount of DHCP |  |  |
| 32 | Port security to secure the access to an access or trunk port based on MAC address.   |  |  |
| 33 | Multilevel security on console access to prevent unauthorized users from altering the switch configuration using local database or through an external AAA Server.  |  |  |
| 34 | BPDUGuard to shut down Spanning Tree Protocol PortFast-enabled interfaces when BPDUs are received to avoid  |  |  |
| 35 | Should support 500 IPv4 ACL entries, 500 IPv6 ACL entries,  |  |  |
|    | <b>Quality of Service (QoS) &amp; Multicast</b>   |  |  |
| 36 | Standard 802.1p CoS and DSCP  |  |  |
| 37 | Control- and Data-plane QoS ACLs, Cross-stack QoS   |  |  |
| 38 | Up to eight egress queues per port  |  |  |
| 39 | Strict priority queuing mechanisms  |  |  |
| 40 | There should not be any performance penalty for highly granular QoS functions.  |  |  |
| 41 | Committed information rate (CIR) function to provide bandwidth in increments of 8 Kbps  |  |  |
| 42 | Rate limiting should be provided based on source and destination IP address, source and destination MAC address, Layer 4 TCP and UDP information, or any combination of these fields, using QoS ACLs (IP ACLs or      |  |  |
| 43 | Flow-based rate limiting and up to 200 aggregate or individual policers per port  |  |  |
| 44 | Shaped Round Robin (SRR) scheduling and Weighted Tail Drop (WTD) congestion avoidance.  |  |  |
| 45 | 2000 IPv4 & IPv6 Unicast Routes   |  |  |
| 46 | 1000 IPv4 Multicast Groups, 1000 IPv6 Multicast Groups  |  |  |
|    | <b>Management</b>   |  |  |
| 47 | Superior manageability Features   |  |  |
| 48 | Command Line Interface (CLI) support for configuration & troubleshooting purposes.  |  |  |
| 49 | For enhanced traffic management, monitoring, and analysis, upto four RMON groups (history, statistics,  |  |  |
| 50 | Layer 2 trace route to ease troubleshooting by identifying the physical path that a packet takes from source to   |  |  |
| 51 | Domain Name System (DNS) support to provide IP address resolution with user-defined device names.   |  |  |
| 52 | FTP/ Trivial File Transfer Protocol (TFTP) to reduce the cost of administering software upgrades by downloading from a  |  |  |
| 53 | Network Timing Protocol (NTP) based on RFC 1305 to provide an accurate and consistent timestamp to all  |  |  |
| 54 | SNMP v1, v2c, and v3 and Telnet interface support delivers comprehensive in-band management, and a CLI-based management console provides detailed out-of-band   |  |  |
| 55 | RMON I and II standards   |  |  |
|    | <b>Certification:</b>   |  |  |
| 56 | The switch should be Common Criteria EAL4 or NDPP certified and IPv6 Ready Logo certified (The supporting URL and certification link need to be attached with the Bid)  |  |  |
|    | <b>Warranty:</b>  |  |  |
| 57 | Comprehensive on-site 8x5 Next Business Day Support for three years.  |  |  |

| S/N   | Technical Specification / Requirement   | Compliance (Yes/No) | Remark |
|---|---|---------------------|--------|
| <b>24-Port Non-PoE Switch with 4 SFP Uplink</b> |   |                     |        |
| <b>General Features</b>                         |   |                     |        |
| 1   | The OEM should be in the Leaders / Challenger quadrant of the latest Gartner's report for Wired and Wireless LAN Access Infrastructure.   |                     |        |
| 2   | The switch should have minimum 24 x 10/100/1000 Base-T Ports & 4 x 1G SFP slots.  |                     |        |
| 3   | Future support for Redundant Power supply   |                     |        |
| 4   | Should have fan for proper cooling.   |                     |        |
| <b>Performance</b>                              |   |                     |        |
| 5   | At least 200 Gbps switching bandwidth   |                     |        |
| 6   | Forwarding rate – At least 70 Mpps.   |                     |        |
| 7   | Configurable at least 16000 MAC addresses   |                     |        |
| 8   | The switch should support stacking with 80 Gbps Stacking bandwidth to stack upto 8 switches into a single virtual switch. Stacking is not required from day 1, but stacking should be supported on the proposed switch model.   |                     |        |
| 9   | DRAM 512 MB and 128 MB Flash  |                     |        |
| <b>Layer-2 Features</b>                         |   |                     |        |
| 10  | IEEE 802.1Q VLAN encapsulation. At least 1000 VLANs should be supported. Support for 4000 VLAN IDs.   |                     |        |
| 11  | Support for Automatic Negotiation of Trunking Protocol, to help minimize the configuration & errors.  |                     |        |
| 12  | Centralized VLAN Management. VLANs created on the Core Switches should be propagated automatically.   |                     |        |
| 13  | Spanning-tree Enhancements for fast convergence   |                     |        |
| 14  | IEEE 802.1d, 802.1s, 802.1w, 802.3ad,   |                     |        |
| 15  | Spanning-tree root guard feature to prevent other edge switches becoming the root bridge.   |                     |        |
| 16  | IGMPv3. Support for at least 1000 IGMP Groups. IGMP filtering.  |                     |        |
| 17  | Link Aggregation Protocol (LACP)  |                     |        |
| 18  | Support for UDLD (in case of fiber cut) and to disable them to avoid problems such as spanning-tree loops.  |                     |        |
| 19  | The Switch should be able to discover the neighboring device of the same vendor giving the details about the platform, IP Address, Link connected through etc, thus helping in troubleshooting connectivity problems.   |                     |        |
| 20  | Per-port broadcast, multicast, and storm control to prevent faulty end stations from degrading overall systems performance.   |                     |        |
| 21  | Local Proxy Address Resolution Protocol (ARP) to work in conjunction with Private VLAN Edge to minimize broadcasts and maximize available bandwidth.  |                     |        |
| 22  | Multicast VLAN registration (MVR) to continuously send multicast streams in a multicast VLAN while isolating the streams from subscriber VLANs for bandwidth and security reasons.  |                     |        |
| <b>Network Security Features</b>                |   |                     |        |
| 23  | Support for mechanisms to improve the network's ability to automatically identify, prevent, and respond to security threats and also to enable the switches to collaborate with third-party solutions for security-policy compliance and enforcement before a host is permitted to access the network. Thus preventing the spread of Viruses & worms. |                     |        |
| 24  | IEEE 802.1x to allow dynamic, port-based security, providing user authentication.   |                     |        |
| 25  | Port-based ACLs for Layer 2 interfaces to allow application of security policies on individual switch ports.  |                     |        |

|    |  |  |  |
|----|--|--|--|
| 26 | SSHv2 and SNMPv3 to provide network security by encrypting administrator traffic during Telnet and SNMP sessions.  |  |  |
| 27 | Bidirectional data support on the Mirrored port to allow the intrusion detection system (IDS) to take action when an intruder is detected.   |  |  |
| 28 | RADIUS authentication to enable centralized control of the switch and restrict unauthorized users from altering the configuration.   |  |  |
| 29 | MAC address notification to allow administrators to be notified of users added to or removed from the network.   |  |  |
| 30 | DHCP snooping to allow administrators to ensure consistent mapping of IP to MAC addresses. This can be used to prevent attacks that attempt to poison the DHCP binding database, and to rate-limit the amount of DHCP traffic that enters a switch port. |  |  |
| 31 | Port security to secure the access to an access or trunk port based on MAC address.  |  |  |
| 32 | Multilevel security on console access to prevent unauthorized users from altering the switch configuration using local database or through an external AAA Server.   |  |  |
| 33 | BPDU Guard to shut down Spanning Tree Protocol PortFast-enabled interfaces when BPDU's are received to avoid accidental topology loops.  |  |  |
| 34 | Should support 500 IPv4 ACL entries, 500 IPv6 ACL entries,   |  |  |
|    | <b>Quality of Service (QoS) &amp; Multicast</b>  |  |  |
| 35 | Standard 802.1p CoS and DSCP   |  |  |
| 36 | Control- and Data-plane QoS ACLs, Cross-stack QoS  |  |  |
| 37 | Up to eight egress queues per port   |  |  |
| 38 | Strict priority queuing mechanisms   |  |  |
| 39 | There should not be any performance penalty for highly granular QoS functions.   |  |  |
| 40 | Committed information rate (CIR) function to provide bandwidth in increments of 8 Kbps   |  |  |
| 41 | Rate limiting should be provided based on source and destination IP address, source and destination MAC address, Layer 4 TCP and UDP information, or any combination of these fields, using QoS ACLs (IP ACLs or MAC ACLs), class maps, and policy maps. |  |  |
| 42 | Flow-based rate limiting and up to 200 aggregate or individual policers per port   |  |  |
| 43 | Shaped Round Robin (SRR) scheduling and Weighted Tail Drop (WTD) congestion avoidance.   |  |  |
| 44 | 2000 IPv4 & IPv6 Unicast Routes  |  |  |
| 45 | 1000 IPv4 Multicast Groups, 1000 IPv6 Multicast Groups   |  |  |
|    | <b>Management</b>  |  |  |
| 46 | Superior manageability Features  |  |  |
| 47 | Command Line Interface (CLI) support for configuration & troubleshooting purposes.   |  |  |
| 48 | For enhanced traffic management, monitoring, and analysis, upto four RMON groups (history, statistics, alarms, and events) must be supported.  |  |  |
| 49 | Layer 2 trace route to ease troubleshooting by identifying the physical path that a packet takes from source to destination.   |  |  |
| 50 | Domain Name System (DNS) support to provide IP address resolution with user-defined device names.  |  |  |
| 51 | FTP/ Trivial File Transfer Protocol (TFTP) to reduce the cost of administering software upgrades by downloading from a centralized location.   |  |  |
| 52 | Network Timing Protocol (NTP) based on RFC 1305 to provide an accurate and consistent timestamp to all intranet switches.  |  |  |
| 53 | SNMP v1, v2c, and v3 and Telnet interface support delivers comprehensive in-band management, and a CLI-based management console provides detailed out-of-band management.  |  |  |
| 54 | RMON I and II standards  |  |  |

|    |  |  |  |
|----|--|--|--|
|    | <b>Certification:</b>  |  |  |
| 55 | The switch should be Common Criteria EAL4 or NDPP certified and IPv6 Ready Logo certified (The supporting URL and certification link need to be attached with the Bid) |  |  |
|    | <b>Warranty:</b>   |  |  |
| 56 | Comprehensive on-site 8x5 Next Business Day Support for three years.   |  |  |

| S/N   | Technical Specification / Requirement  | Compliance (Yes/No) | Remark |
|---|--|---------------------|--------|
| <b>Wireless Access Point - 802.11ac</b>               |  |                     |        |
| <b>Interface /Ports</b>                               |  |                     |        |
| 1   | 1 x 10/100/1000BASE-T autosensing (RJ-45), Power over Ethernet (PoE), Management console port (RJ-45), USB 2.0.  |                     |        |
| <b>Connectivity</b>                                   |  |                     |        |
| 2   | Support 802.3 standard Power-over-Ethernet (PoE) with full capacity operation at full power of the radios.   |                     |        |
| <b>Mount</b>  |  |                     |        |
| 3   | Ceiling and/or wall mounting options (should be supplied with OEM mounting kit.)   |                     |        |
| <b>Management</b>                                     |  |                     |        |
| 4   | The Access Point should have the technology to improve downlink performance to all mobile devices.   |                     |        |
| 5   | Real-time, fully integrated spectrum analyser capabilities on the APs that does not require dedicated sensors or separate operating system running on the AP radios.                                     |                     |        |
| <b>Mobility</b>                                       |  |                     |        |
| 6   | Access Point radio should be minimum 3X3 MIMO with minimum 2 spatial streams; Dual Radio access.   |                     |        |
| 7   | The Wireless LAN Controller function should be integrated in the Access Point i.e. the AP could work simultaneously as Wireless LAN Controller as well as AP and could support minimum 25 Access Points. |                     |        |
| 8   | The WLC feature of the AP should be managed by Web User Interface, free Mobile application from OEM, command-line interface (CLI) through console cable, SSH, or Telnet                                  |                     |        |
| <b>High throughput</b>                                |  |                     |        |
| 9   | Access Point should be 802.11ac ready from day one.  |                     |        |
| <b>Deployment modes</b>                               |  |                     |        |
| 10  | Centralized, Standalone, Virtual   |                     |        |
| <b>802.11n version 2.0 and related capabilities</b>   |  |                     |        |
| 11  | 3x3 MIMO with 2 spatial streams.   |                     |        |
| 12  | Maximal ratio combining (MRC)  |                     |        |
| 13  | 20- and 40-MHz channels  |                     |        |
| 14  | PHY data rates up to 300 Mbps (40 MHz with 5 GHz)Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Tx/Rx).   |                     |        |
| 15  | 802.11 dynamic frequency selection (DFS)   |                     |        |
| 16  | Cyclic shift diversity (CSD) support   |                     |        |
| <b>802.11ac Wave 1 and 2 capabilities</b>             |  |                     |        |
| 17  | 3x3 MIMO with 3 spatial streams, SU-MIMO or MU-MIMO  |                     |        |
| 18  | Maximal ratio combining (MRC)  |                     |        |
| 19  | 802.11ac beamforming (transmit beamforming)  |                     |        |
| 20  | 20-, 40-, and 80-MHz channels  |                     |        |
| 21  | PHY data rates up to 867 (40 MHz with 5 GHz), 1300Mbps (80 MHz in 5 GHz)   |                     |        |
| 22  | Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Tx/Rx)   |                     |        |
| 23  | 802.11 DFS   |                     |        |
| 24  | CSD support  |                     |        |
| <b>Supported data rates (Mbps)</b>                    |  |                     |        |
| 25  | IEEE 802.11b: 1, 2, 5.5, 11  |                     |        |
| 26  | IEEE 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54   |                     |        |
| 27  | IEEE 802.11n (2.4GHz and 5GHz): 6.5 to 300   |                     |        |
| 28  | IEEE 802.11ac: 6.5 to 866  |                     |        |
| <b>IEEE standards</b>                                 |  |                     |        |
| 29  | IEEE 802.11a/b/g, 802.11n, 802.11h, 802.11d  |                     |        |
| 30  | IEEE 802.11ac Draft 5  |                     |        |
| 31  | IEEE 802.11ac  |                     |        |
| 32  | IEEE 802.3af   |                     |        |
| <b>Extensible Authentication Protocol (EAP) types</b> |  |                     |        |
| 33  | EAP-Transport Layer Security (TLS)   |                     |        |
| 34  | EAP-Subscriber Identity Module (SIM)   |                     |        |
| 35  | EAP-Tunneled TLS (TTLS) or Microsoft Challenge Handshake Authentication Protocol Version 2 (MSCHAPv2)  |                     |        |
| 36  | EAP-Flexible Authentication via Secure Tunneling (FAST)  |                     |        |
| 37  | PEAP v1 or EAP-Generic Token Card (GTC)  |                     |        |
| 38  | Protected EAP (PEAP) v0 or EAP-MSCHAPv2  |                     |        |
| <b>Powering Options</b>                               |  |                     |        |



|    |   |  |  |
|----|---|--|--|
| 39 | IEEE 802.3af/802.3at  |  |  |
| 40 | Local Power Supply  |  |  |
| 41 | Power Injector  |  |  |
|    | <b>Indicators</b>   |  |  |
| 42 | Status LED indicates boot loader status, association status, operating status, boot loader warnings, boot loader errors                 |  |  |
|    | <b>Security</b>   |  |  |
| 43 | 802.11i, Wi-Fi Protected Access 2 (WPA2), WPA   |  |  |
| 44 | 802.1X  |  |  |
| 45 | Advanced Encryption Standard (AES)  |  |  |
|    | <b>Compliance standards and Certification</b>   |  |  |
| 46 | UL 60950-1  |  |  |
| 47 | CAN/CSA-C22.2 No. 60950-1   |  |  |
| 48 | UL 2043   |  |  |
| 49 | IEC 60950-1   |  |  |
| 50 | EN 60950-1  |  |  |
| 51 | The OEM should be in the Leaders / Challenger quadrant of the latest Gartner's report for Wired and Wireless LAN Access Infrastructure. |  |  |
|    | <b>Warranty and Support</b>   |  |  |
| 52 | Limited lifetime hardware warranty  |  |  |
| 53 | Comprehensive on-site 8x5 Next Business Day Support for three years.  |  |  |

| S/N   | Technical Specification / Requirement  | Compliance (Yes/No) | Remark |
|---|--|---------------------|--------|
| <b>Firewall with IPS, AMP, URL Filtering and VPN Features</b> |  |                     |        |
| <b>Hardware Architecture</b>                                  |  |                     |        |
| 1   | The appliance based security platform should be capable of providing firewall / IPS /Botnet and VPN (IPSec and SSL) functionality simultaneously from day one.   |                     |        |
| 2   | The appliance should support atleast 6 Gigabit copper Interfaces.  |                     |        |
| 3   | The appliance should support atleast one 10/100/1000 dedicated management interfaces to configure/manage the firewall policies, perform image upgrades even  |                     |        |
| 4   | The appliance should have Solid-state drive of 50 GB mSATA.  |                     |        |
| 5   | Firewall should have 4 GB Memory and minimum 8 GB System Flash.  |                     |        |
| 6   | Firewall should support integrated IPS functionality for threat prevention, full contextual awareness of users, content, applications, infrastructure.   |                     |        |
| <b>Performance &amp; Scalability</b>                          |  |                     |        |
| 7   | Firewall should support atleast 300 Mbps of Stateful inspection throughput (Multi-protocol) based on Traffic profile consisting primarily of TCP-based protocols/applications like HTTP, SMTP, FTP, IMAPv4, BitTorrent, and DNS.   |                     |        |
| 8   | Firewall should support atleast 120 Mbps of combined AVC & IPS throughput.   |                     |        |
| 9   | Firewall should support atleast 10 and could be upgrade to 50 (through license upgrade) IPSec site-to-site VPN peers.  |                     |        |
| 10  | Firewall should support atleast 20,000 concurrent sessions and maximum 50,000 sessions (measured with UDP traffic under ideal conditions).   |                     |        |
| 11  | Firewall should support atleast 5,000 new connections per second.  |                     |        |
| 12  | Firewall should support atleast 5 virtual interfaces (VLANs) and could be upgrade to 30 virtual interfaces (through license upgrade).  |                     |        |
| 13  | Firewall should support Jumbo Frames upto 9000 bytes.  |                     |        |
| <b>Firewall Features</b>                                      |  |                     |        |
| 14  | The Firewall should detect, block, track, analyse and remediate to protect against persistent and targeted malware attacks.  |                     |        |
| 15  | The Firewall should be able to enforce Policy, based on complete visibility of mobile devices, users, client-side applications, vulnerabilities, threats, URLs and communication between virtual machines.   |                     |        |
| 16  | The Firewall should provide Application-layer control (over websites, users, geolocations, applications) and should have ability to enforce usage and tailor detection policies based on custom applications and URLs.   |                     |        |
| 17  | The Firewall should lower cost of operations and administrative complexity with identification of user, impact assessment, threat correlation, automated security policy tuning.   |                     |        |
| 18  | The Firewall should be threat-focused and provide advanced threat protection, remediation and advanced breach detection.   |                     |        |
| 19  | The Firewall should have Open API that enables the third-party technology ecosystem to integrate with existing customer work streams.  |                     |        |
| 20  | Firewall should support NAT, stateful firewall, Rich routing and dynamic clustering.   |                     |        |
| 21  | The Firewall should provide security protection and real-time threat intelligence, through web reputation intelligence.  |                     |        |
| 22  | The Firewall should be capable of Open source security integration with some open source network intrusion prevention system like Snort and OpenAppID for access to community resources and ability to easily customize security to address new and specific threats and applications quickly. |                     |        |
| <b>High-Availability Features</b>                             |  |                     |        |
| 23  | The Firewall should support Active/Standby mode through extra license.   |                     |        |
| <b>VPN Features</b>   |  |                     |        |
| 24  | The Firewall should support IPSec Client based VPN from day one for minimum 25 no. of users.   |                     |        |
| 25  | The Firewall should support Site-to-site VPN.  |                     |        |
| 26  | Should support VPN clients for windows PC/Laptop, Apple iOS and Android .  |                     |        |
| <b>Routing Features</b>                                       |  |                     |        |
| 27  | Firewall should support IPv4 & IPv6 static routing, RIP, OSPF v2 & v3  |                     |        |
| <b>Management Capabilities</b>                                |  |                     |        |
| 28  | Firewall should support management of firewall policies via CLI, Telnet, SSH & inbuilt GUI management interface.   |                     |        |
| 29  | Firewall should support syslog with the functionality of sending syslogs messages.   |                     |        |

|                             |   |  |  |
|-----------------------------|---|--|--|
| 30                          | Firewall should support packet capturing functionality for detailed packet analysis.                                |  |  |
| <b>IPS</b>                  |   |  |  |
| 31                          | The integrated IPS functionality should provide real-time threat-detection & prevention capabilities.               |  |  |
| 32                          | IPS should support inspection of HTTP traffic to check for non-compliant http traffic.                              |  |  |
| <b>Warranty and Support</b> |   |  |  |
| 33                          | All the respective licenses to provide the above-mentioned features / support should be included for three years.   |  |  |
| 34                          | Comprehensive on-site 8x5 Next Business Day Support for three years.  |  |  |
| 35                          | The OEM should be in the Leaders / Challenger quadrant of the latest Gartner's report for Next Generation Firewall. |  |  |

**West Bengal Electronics Industry Development Corporation Limited**

Webel Bhavan, Block – EP & GP, Sector V, Bidhannagar, Salt Lake, Kolkata – 700 091

Phone: 91-33-2339-2228/226/327/316 • Fax: 91-33-2357-1739/1708 • email: [contact@webel-india.com](mailto:contact@webel-india.com)

**Date: 04-01-18**

**TECHNICAL CORRIGENDUM: I**

**Corrigendum for e-Tender number WEBEL/EOT/COM/17-18/00079 Dated: 21-12-17  
For: ESTABLISHMENT OF LAN, WI-FI, and SECURITY AT PASCHIMANCHAL UNNAYAN AFFAIRS  
DEPARTMENT.**

**Last date of submission has been extended up to 11-01-18**

| Page No. as per Tender | S/N as per Tender | Existing Specification  | Revised Specification   |
|------------------------|-------------------|---|---|
|                        |                   | 24-Port PoE Switch with 4 SFP Uplink  |   |
| Page 27                | 4                 | Should have fan for proper cooling.   | Should be fanless design for higher MTBF (minimum 320,000 hours)  |
|                        |                   | 24-Port Non-PoE Switch with 4 SFP Uplink  |   |
| Page 29                | 4                 | Should have fan for proper cooling.   | Should be fanless design for higher MTBF (minimum 320,000 hours)  |
|                        |                   | Wireless Access Point - 802.11ac  |   |
| Page 32                |                   | Access Point radio should be minimum 3X3 MIMO with minimum 2 spatial streams;<br>Dual Radio access  | Access Point radio should be minimum 4X4 MIMO with minimum 4 spatial streams;<br>Dual Radio access  |
| Page 32                | 11                | 3x3 MIMO with 2 spatial streams.  | 4x4 MIMO with four spatial streams  |
| Page 32                | 17                | 3x3 MIMO with 3 spatial streams, SU-MIMO or MU-MIMO   | 4x4 MIMO with four spatial streams  |
|                        |                   | Firewall with IPS, AMP, URL Filtering and VPN Features  |   |
| Page 32                | 10                | Firewall should support at least 20,000 concurrent sessions and maximum 50,000 sessions (measured with UDP traffic under ideal Conditions). | Firewall should support atleast 20,000 concurrent sessions from day-1 and maximum 50,000 sessions (measured with UDP traffic under ideal conditions) in Future. |
| Page 24                |                   | Eligibility Criteria for Active OEM:  | To be added   |
|                        |                   |   | All active devices should be from single OEM for better interoperability.   |
|                        |                   |   | OEM should have office and spare depo in Kolkata.   |
|                        |                   |   | OEM should have 24x7 Call logging facility.   |
|                        |                   |   | OEM should have 24x7 technical assistance facilities.   |
|                        |                   |   | OEM Should be ISO certified organization  |

**THIS CORRIGENDUM WILL BE A PART OF ORIGINAL TENDER DOCUMENT.**