Bid Number: GEM/2025/B/6929723
Dated: 09-01-2026

Bid Corrigendum

GEM/2025/B/6929723-C7

Following terms and conditions supersede all existing “Buyer added Bid Specific Terms and conditions” given in the bid document or any previous corrigendum. Prospective bidders are advised to bid as per following Terms and Conditions:

Buyer Added Bid Specific Additional Terms and Conditions

1. OPTION CLAUSE: The Purchaser reserves the right to increase or decrease the quantity to be ordered up to 25 percent of bid quantity at the time of placement of contract. The purchaser also reserves the right to increase the ordered quantity up to 25% of the contracted quantity during the currency of the contract at the contracted rates. The delivery period of quantity shall commence from the last date of original delivery order and in cases where option clause is exercised during the extended delivery period the additional time shall commence from the last date of extended delivery period. The additional delivery time shall be (Increased quantity ÷ Original quantity) × Original delivery period (in days), subject to minimum of 30 days. If the original delivery period is less than 30 days, the additional time equals the original delivery period. The Purchaser may extend this calculated delivery duration up to the original delivery period while exercising the option clause. Bidders must comply with these terms.

2. Malicious Code Certificate:

   The seller should upload following certificate in the bid:-
   (a) This is to certify that the Hardware and the Software being offered, as part of the contract, does not contain Embedded Malicious code that would activate procedures to :-
   (i) Inhibit the desires and designed function of the equipment.
   (ii) Cause physical damage to the user or equipment during the exploitation.
   (iii) Tap information resident or transient in the equipment/network.
   (b) The firm will be considered to be in breach of the procurement contract, in case physical damage, loss of information or infringements related to copyright and Intellectual Property Right (IPRs) are caused due to activation of any such malicious code in embedded software.

3. Scope of supply (Bid price to include all cost components) : Supply Installation Testing and Commissioning of Goods
4. Purchase preference to Micro and Small Enterprises (MSEs): Purchase preference will be given to MSEs as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail the Purchase preference, the bidder must be the manufacturer of the offered product in case of bid for supply of goods. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service. If L-1 is not an MSE and MSE Seller (s) has/have quoted price within L-1+ 15% of margin of purchase preference /price band defined in relevant policy, such Seller shall be given opportunity to match L-1 price and contract will be awarded for percentage of 20% of total value.

5. Purchase Preference linked with Local Content (PP-LC) Policy:

   The bid clause regarding “Preference to Make In India products” stands modified in this bid and shall be governed by the PPLC Policy No. FP-20013/2/2017-FP-PNG dated 17.11.2020 issued by MoP&NG as amended up to date. Accordingly, bidders with Local Content less than or equal to 20% will be treated as “Non Local Supplier”. The prescribed LC shall be applicable on the date of Bid opening. Sanctions on the bidders for false / wrong declaration or not fulfilling the Local Content requirement shall be as per the

PPLC policy. Further following additional provisions are added in the certification and verification of local content provision of the Preference to Make in India clause:

i. In case of foreign bidder, certificate from the statutory auditor or cost auditor of their own office or subsidiary in India giving the percentage of local content is also acceptable. In case office or subsidiary in India does not exist or Indian office/subsidiary is not required to appoint statutory auditor or cost auditor, certificate from practicing cost accountant or practicing chartered accountant giving the percentage of local content is also acceptable.
ii. Along with Each Invoice: The local content certificate (issued by statutory auditor on behalf of procuring company) shall be submitted along with each invoice raised. However, the % of local content may vary with each invoice while maintaining the overall % of local content for the total work/purchase of the pro-rata local content requirement. In case, it is not satisfied cumulatively in the invoices raised up to that stage, the supplier shall indicate how the local content requirement would be met in the subsequent stages.
iii. The bidder shall submit an undertaking from the authorized signatory of bidder having the Power of Attorney along with the bid stating the bidder meets the mandatory minimum LC requirement and such undertaking shall become a part of the contract.

6. Availability of Service Centres: Bidder/OEM must have a Functional Service Centre in the State of each Consignee's Location in case of carry-in warranty. (Not applicable in case of goods having on-site warranty). If service center is not already there at the time of bidding, successful bidder / OEM shall have to establish one within 30 days of award of contract. Payment shall be released only after submission of documentary evidence of having Functional Service Centre.
7. Dedicated /toll Free Telephone No. for Service Support : BIDDER/OEM must have Dedicated/toll Free Telephone No. for Service Support.
8. Escalation Matrix For Service Support : Bidder/OEM must provide Escalation Matrix of Telephone Numbers for Service Support.
9. Warranty period of the supplied products shall be 5 years from the date of final acceptance of goods or after completion of installation, commissioning & testing of goods (if included in the scope of supply), at consignee location. OEM Warranty certificates must be submitted by Successful Bidder at the time of delivery of Goods. The seller should guarantee the rectification of goods in case of any break down during the guarantee period. Seller should have well established Installation, Commissioning, Training, Troubleshooting and Maintenance Service group in INDIA for attending the after sales service. Details of Service Centres near consignee destinations are to be uploaded along with the bid.
10. Buyer uploaded ATC document Click here to view the file.

Disclaimer

The additional terms and conditions have been incorporated by the Buyer after approval of the Competent Authority in Buyer Organization, whereby Buyer organization is solely responsible for the impact of these clauses on the bidding process, its outcome, and consequences thereof including any eccentricity / restriction arising in the bidding process due to these ATCs and due to modification of technical specifications and / or terms and conditions governing the bid. If any clause(s) is / are incorporated by the Buyer regarding following, the bid and resultant contracts shall be treated as null and void and such bids may be cancelled by GeM at any stage of bidding process without any notice:-

1. Definition of Class I and Class II suppliers in the bid not in line with the extant Order / Office Memorandum issued by DPIIT in this regard.
2. Seeking EMD submission from bidder(s), including via Additional Terms & Conditions, in contravention to exemption provided to such sellers under GeM GTC.
3. Publishing Custom / BOQ bids for items for which regular GeM categories are available without any Category item bunched with it.
4. Creating BoQ bid for single item.
5. Mentioning specific Brand or Make or Model or Manufacturer or Dealer name.
6. Mandating submission of documents in physical form as a pre-requisite to qualify bidders.
7. Floating / creation of work contracts as Custom Bids in Services.
8. Seeking sample with bid or approval of samples during bid evaluation process. (However, in bids for attached categories, trials are allowed as per approved procurement policy of the buyer nodal Ministries)
9. Mandating foreign / international certifications even in case of existence of Indian Standards without specifying equivalent Indian Certification / standards.

10. Seeking experience from specific organization / department / institute only or from foreign / export experience.
11. Creating bid for items from irrelevant categories.
12. Incorporating any clause against the MSME policy and Preference to Make in India Policy.
13. Reference of conditions published on any external site or reference to external documents/clauses.
14. Asking for any Tender fee / Bid Participation fee / Auction fee in case of Bids / Forward Auction, as the case may be.
15. Buyer added ATC Clauses which are in contravention of clauses defined by buyer in system generated bid template as indicated above in the Bid Details section, EMD Detail, ePBG Detail and MII and MSE Purchase Preference sections of the bid, unless otherwise allowed by GeM GTC.
16. In a category based bid, adding additional items, through buyer added additional scope of work/ additional terms and conditions/or any other document. If buyer needs more items along with the main item, the same must be added through bunching category based items or by bunching custom catalogs or bunching a BoQ with the main category based item, the same must not be done through ATC or Scope of Work.

Further, if any seller has any objection/grievance against these additional clauses or otherwise on any aspect of this bid, they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller within 4 days of bid publication on GeM. Buyer is duty bound to reply to all such representations and would not be allowed to open bids if he fails to reply to such representations.

*This document shall overwrite all previous versions of Bid Specific Additional Terms and Conditions.

This Bid is also governed by the General Terms and Conditions

भारतीय प्रौद्योगिकी संस्थान भुवनेश्वर
Indian Institute of Technology Bhubaneswar

Date: 09.01.2026

Corrigendum-I

The following amendment is incorporated in the specifications of the GeM BID No: - **GEM/2025/B/6929723** Dated 25-11-2025 for the Procurement of **Network Devices (854 Nos.).**

For

1. Wireless Access Point - 586 nos.

Sl. No.	General Specifications
2	Access Point shall support minimum 4x4 or higher MIMO on both radio interfaces.
4	Access Point shall be able to powered up using PoE 802.3af/at or equivalent or better.
5	Access Point shall support packet capture or equivalent or better, RF sensing capabilities or equivalent or better.
6	Access Point shall support encrypted traffic visibility or equivalent or better.
7	Access Point shall ship with metal-based mounting bracket or equivalent or better for wall and ceiling from day 1 using a pad lock or kensington lock or equivalent or better for safety durability and reliability.
8	Access Point shall support feature like BSS Coloring or equivalent or better, TWT(Target WakeTime) or equivalent or better, MU-MIMO(downlink & uplink) or equivalent or better.
10	Access Point should have minimum 1x 100/1000/2500 or higher Multigigabit Ethernet (RJ-45) - IEEE 802.3bz Port.
14	Must support AP enforced load-balance or equivalent or better between 2.4Ghz and 5Ghz band.
15	Must incorporate radio resource management or equivalent or better for power, channel and performance optimization.
30	Access points should be supplied along with required licenses, suitable power injectors/adaptors, suitable power cords, console cable and other accessories if any.

Read As

1. Wireless Access Point (AP) - 586 nos.

Sl. No.	General Specifications
2	Wireless Access Point shall support minimum 4x4:4 or higher MIMO on 2.4 Ghz and minimum 4x4:4 or higher MIMO on 5 Ghz or better.
4	Wireless Access Point shall be able to powered up using PoE 802.3af/at or higher.
5	Wireless Solution shall support packet capture or equivalent or better for comprehensive visibility into network traffic for diagnostics, troubleshooting etc. , RF sensing capabilities or equivalent or better for continuous monitoring of the radio frequency environment for interference detection, spectrum analysis etc.
6	Wireless Solution shall support encrypted traffic visibility or equivalent or better.

7	Wireless Access Point should be supplied with metal-based mounting bracket for superior strength, for wall/ceiling mount, using a pad lock or kensington lock for safety, durability and reliability from day one.
8	Wireless Access Point shall support feature like BSS Coloring or better, TWT(Target WakeTime) or better, MU-MIMO (downlink & uplink) or better on both 2.4 Ghz and 5 Ghz.
10	Wireless Access Point should have minimum 1x 2.5GBASE-T or higher.
14	Must support AP enforced load-balance or better between frequency bands.
15	Must incorporate Radio Resource Management (RRM) or equivalent or better for dynamic channel selection, transmit power adjustment, and performance optimization on all frequency bands from day one.
30	Wireless Access Points should be supplied along with required licenses and necessary accessories to ensure full operational functionality from day one.

For

2. Wireless Controller (WLC) - 01 nos.

Sl. No.	General Specifications
2	Wireless controller should support minimum 1,000 AP or higher and minimum 20,000 clients or higher from day 1 in single HW appliance.
3	Solution should have single centralized management system or equivalent or better for provisioning and configuration access points. It could be integrated with controller or additional hardware appliance for deployment, management, monitoring and entire access point related configuration or equivalent or better.
5	The controller should have minimum 4x 10 Gig SFP+ Ports or higher. Should be populated from day 1 with minimum 10 Gig compatible Dual Fiber Single Mode Fiber modules or higher.
14	Should support built-in web authentication or equivalent or better. Should also support web-based authentication with PAP/CHAP based back end or equivalent or better to provide a browser-based environment to authenticate clients that do not support the IEEE 802.1X supplicant. Should support built-in /URL redirection or equivalent or better for web authentication.
35	WLC should be supplied along with required licenses, suitable power cords, suitable indian straight plug [3 Pin Class-I 6AMP or 3 Pin Class-I 16AMP] or equivalent or better and other accessories if any.

Read As

2. Hardware based On-Premise Wireless Controller (WLC) - 01 nos.

Sl. No.	General Specifications
2	Wireless controller should support minimum 1,000 AP or higher and minimum 20,000 clients or higher from day 1 in a single Hardware appliance.
3	Wireless Solution should have single centralized system or equivalent or better for provisioning, configuration, registration, management, monitoring and entire access point related activities.
5	Wireless Controller should have minimum 4x 10G SFP+ uplink ports or higher. Should be populated from day one with minimum 10GBASE-SR SFP+ or higher in all the uplink ports only. For better interoperability and performance optimization, both the Wireless Controller and 10GBASE-SR SFP+ or higher Transceiver modules should be from same OEM.
14	Should support built-in browser-based environment or captive portal to

	authenticate clients that do not support the IEEE 802.1X supplicant.
35	Wireless Controller should be supplied along with required licenses, fully populated power supply units, suitable power cords with indian straight plug [3 Pin Class-I 6AMP or 3 Pin Class-I 16AMP] and necessary accessories to ensure full operational functionality from day one.

3. Distribution Switch – 06 nos.

For

Sl. No.	General Specifications
2	Switch should have minimum 24 x 1/10G SFP+ Ports or higher and minimum 2 x40G/100G QSFP+ Ports or higher.
6	Should have switching backplane of minimum 1.2 Tbps or higher and minimum 952 Mpps or higher.
10	Distribution switch should support minimum 90K MAC Addresses or higher and minimum 1K active VLANs (4K VLAN ID) or higher.
19	Switch should be supplied along with required licenses, suitable power cords, suitable indian straight plug[3 Pin Class-I 6AMP or 3 Pin Class-I 16AMP] or equivalent or better, compatible Dual Fiber Single Mode Fiber Modules and other accessories if any.

Read As

Sl. No.	General Specifications
2	Switch should have minimum 24 x 1/10G SFP+ Ports or higher and minimum 2x 40G/100G QSFP+ uplink ports or higher and should support both Long range & Short range SFP in all Ports.
6	Should have switching backplane of minimum 1 Tbps or higher and minimum 800 Mpps or higher.
10	Distribution switch should support minimum 80K MAC Addresses or higher and minimum 1K active VLANs (4K VLAN ID) or higher.
19	Switch should be supplied along with required licenses, fully populated power supply units, suitable power cords with indian straight plug [3 Pin Class-I 6AMP or 3 Pin Class-I 16AMP] and necessary accessories to ensure full operational functionality from day one. Further, the Switch should be populated from day one with minimum 40GBASE-LR QSFP+ or higher on all the uplink ports only. For better interoperability and performance optimization, both the Distribution Switch and 40GBASE-LR QSFP+ or higher Transceiver modules should be from same OEM.

4. 24 Port PoE Switches – 121 nos.

For

Sl. No.	General Specifications
1	**Architecture**
b.	Shall have minimum 8 nos. or higher of minimum 2.5G or higher Multigigabit Ethernet (RJ-45) - IEEE 802.3bz Ports and remaining Base-T Ports of minimum 1G or higher with additional minimum 4 nos. of 10G or higher SFP+ uplinks ports.
e.	Shall have switching capacity of minimum 440 Gbps or higher.

f.	Shall have switching throughput of minimum 320 Mpps or higher.
g.	The switch should support minimum 32000 or higher MAC address.
2	**Quality of Service (QoS)**
d.	The switch should support Rate limiting or equivalent or better to sets per-port ingress enforced maximums and per-port, per-queue minimums.
e.	The switch should provide graceful congestion management or equivalent or better.
5	**Security**
a.	The switch should support DHCPv6 protection or equivalent or better, IP Source Guard or equivalent or better, and Neighbor Spoofing or equivalent or better in IPv6.
8	**Management**
c.	Switch should be supplied along with required licenses, suitable power cords, suitable indian straight plug [3 Pin Class-I 6AMP or 3 Pin Class-I 16AMP] or equivalent or better, compatible Dual Fiber Single Mode Fiber Modules and other accessories if any.
9	**Manageability**
c.	Find-Fix-Inform or EAA or equivalent or better.
i.	The switch should support IP service level agreements (SLA) protocol or equivalent or better for voice traffic.
10	**Layer 2 switching**
a.	The switch should support IEEE 802.1Q or equivalent or better (minimum 4094 or higher VLAN IDs) and minimum 2K or higher VLANs simultaneously.

Read As

Sl. No.	General Specifications
1	**Architecture**
b.	Minimum 8 x 2.5G or higher RJ45 Ports and minimum 16 x 1G or higher RJ45 Ports with additional minimum 4 x 10G or higher SFP+ uplinks ports and should support both Long range & Short range SFP in all the uplinks ports.
e.	Shall have switching capacity of minimum 152 Gbps or higher.
f.	Shall have switching throughput of minimum 113 Mpps or higher.
g.	The switch should support minimum 16000 or higher MAC address.
2	**Quality of Service (QoS)**
d.	The switch should support Rate limiting or equivalent or better.
e.	The switch should provide graceful congestion management or equivalent or better to prioritize critical traffic during peak loads, thereby preventing latency spikes and packet loss.
5	**Other Features**
a.	Should support mechanisms to safeguard against IP and DHCP spoofing attacks for IPv4 and IPv6.
8	**Management**
c.	Switch should be supplied along with required licenses, suitable power cords with indian straight plug [3 Pin Class-I 6AMP or 3 Pin Class-I 16AMP] and necessary accessories to ensure full operational functionality from day one.
9	**Manageability**

c.	Find-Fix-Inform or EAA or equivalent or better to provide automated fault detection, isolation, and remediation.
i.	The switch should support IP service level agreements (SLA) protocol or equivalent or better for voice traffic for active monitoring of the voice traffic.
10	**Layer 2 switching**
a.	The switch should support IEEE 802.1Q or equivalent or better (minimum 4094 or higher VLAN IDs) and minimum 512 or higher VLANs simultaneously.

5. 24 Port Non-PoE Switches – 140 nos.

For

Sl. No.	General Specifications
1	**Architecture**
b.	Minimum 24 or higher RJ-45 autosensing 10/100/1000 ports and minimum 2 or higher SFP+ 10 GbE ports.
g.	The switch should support minimum 32000 or higher MAC address.
h.	The switch should have Routing table size of minimum 2000 entries or higher (IPv4), minimum 1000 entries or higher (IPv6).
2	**Quality of Service (QoS)**
d.	The switch should support Rate limiting or equivalent or better to sets per-port ingress enforced maximums and per-port, per-queue minimums.
e.	The switch should provide graceful congestion management or equivalent or better.
5	**Other Features**
a.	The switch should support DHCPv6 protection or equivalent or better, IP Source Guard or equivalent or better, and Neighbor Spoofing or equivalent or better in IPv6.
8	**Management**
c.	Switch should be supplied along with required licenses, suitable power cords, suitable indian straight plug [3 Pin Class-I 6AMP or 3 Pin Class-I 16AMP] or equivalent or better, compatible Dual Fiber Single Mode Fiber Modules and other accessories if any.
9	**Manageability**
c.	Find-Fix-Inform or EAA or equivalent or better.
i.	The switch should support IP service level agreements (SLA) protocol or equivalent or better for voice traffic.
10	**Layer 2 switching**
a.	The switch should support IEEE 802.1Q or equivalent or better (minimum 4094 or higher VLAN IDs) and minimum 2K or higher VLANs simultaneously.

Read As

Sl. No.	General Specifications
1	**Architecture**
b.	Minimum 24 x 10/100/1000 Base-T ports with additional minimum 4 x 10G or higher SFP+ uplinks ports and should support both Long range & Short range SFP

	in all the uplinks ports.
g.	The switch should support minimum 16000 or higher MAC address.
h.	The switch should have Routing table size of minimum 1000 entries or higher (IPv4), minimum 1000 entries or higher (IPv6).
2	**Quality of Service (QoS)**
d.	The switch should support Rate limiting or equivalent or better.
e.	The switch should provide graceful congestion management or equivalent or better to prioritize critical traffic during peak loads, thereby preventing latency spikes and packet loss.
5	**Other Features**
a.	Should support mechanisms to safeguard against IP and DHCP spoofing attacks for IPv4 and IPv6.
8	**Management**
c.	Switch should be supplied along with required licenses, suitable power cords with indian straight plug [3 Pin Class-I 6AMP or 3 Pin Class-I 16AMP] and necessary accessories to ensure full operational functionality from day one.
9	**Manageability**
c.	Find-Fix-Inform or EAA or equivalent or better to provide automated fault detection, isolation, and remediation.
i.	The switch should support IP service level agreements (SLA) protocol or equivalent or better for voice traffic for active monitoring of the voice traffic.
10	**Layer 2 switching**
a.	The switch should support IEEE 802.1Q or equivalent or better (minimum 4094 or higher VLAN IDs) and minimum 512 or higher VLANs simultaneously.

All other technical specifications, terms and conditions of Bid Number GEM/2025/B/6929723 dated 25.11.2025 remains same.

Sd/-
Assistant Registrar (S&P)

Additional Terms & Conditions

1. The Bidder shall deposit Bid Security (EMD) amount as mentioned in the Bid document in the form of an **Account Payee Demand Draft/FDR in Favour of Registrar IIT Bhubaneswar payable at Bhubaneswar** or **Direct Bank Transfer through NEFT/RTGS** to the Institute Account. No other form of Bid Security (EMD) Instrument is acceptable. Submission of Bid Security (EMD) is mandatory for all the bidders **failing which their bid will not be considered.** However, EMD is exempted for NSIC / SSI / SME units. Details are as follows:

   (a) NSIC/SSI/SME Units are exempted for submitting Bid Security/EMD as per Govt. Of India order, amended time to time. Such bidders must submit UAM /NSIC clearly mentioning nature of activity as per Bid requirement along with Bid Securing Declaration as per Annexure II. Non-compliance will result in Bid rejection for non-submission of EMD**.**

   (b) Original Bid Security (EMD) Instrument shall to send to Assistant Registrar, Stores & Purchase Section, 3rd Floor, Admin Building, IIT Bhubaneswar, Argul, Jatani, Dist. Khordha, Odisha – 752050, so as to reach before last date of Bid Submission and copy of the same instruments to be uploaded along with bid on GeM Portal in EMD details.

   (c) IIT Bhubaneswar Account Details for Online payment of Bid Security (EMD) as under:
   Name of Account Holder: Registrar, IIT Bhubaneswar
   Bank A/c No- 006101055198 (Saving A/c)
   IFSC code- ICIC0001985
   MICR Code- 751229009
   ICICI Bank Ltd., Jatani Branch.

   (d) Bid security of the successful bidder shall be adjusted against the Performance Security and for remaining amount of Performance Security separate BG/DD/FDR shall be collected from the successful bidder.

   (e) Bid Security shall be forfeited if the bidder withdraws his bid during the period of Tender validity.

   (f) Bid Security shall be forfeited if the successful bidder refuses or neglects to execute the Contract or fails to furnish the required Performance Security within the period specified by the Institute.

2. Bidders must submit previous Order copies/GeM Contracts for last Three Years or more as on bid submission end date of similar item supplied to reputed Government Organisations / Autonomous Institutions / PSUs / Centrally Funded Institutions / Centrally Funded Technical Institutions (CFTIs) like, IITs, NITs, IISERs, NISER, and Central Universities etc. Failure to submit the same, Bid may be rejected subject to submission of Tender Evaluation Committee recommendation.

3. Bidders must submit the Manufacture Authorization Form (MAF) failing which bid may be rejected. Format of MAF is as per attached Annexure-VI. Further, Sub Authorisation / Subletting shall not be considered for bid evaluation.

4. As per CVC guidelines, OEM and their authorised dealer/partner cannot be participated for the same item in the same tender. In such case, OEM Bid will be considered.

5. Declaration for Make in India (MII) Local content duly signed by OEM as per Annexure-I attached. Failure to submit the same Bid may be rejected.

6. Bidder must submit the following documents as per attached Annexures:

   a) **Bid Securing Declaration Form instead of EMD as per Annexure – II**
   b) **Bidder Information as per Annexure – III**
   c) **Acceptance for Bid Terms and Conditions as per Annexure – IV**
   d) **Vendor Master Form as per Annexure – V**
   e) **Performance Bank Guarantee for successful L1 Bidder as per Annexure – VIII**
   f) **Compliance of Technical Specification as per Annexure – IX**
   g) **Compliance of Techno-Commercial Terms & Conditions as per Annexure – X**
   h) **Checklist as per Annexure – XI**
   i) **Request Letter for release of EMD as per Annexure – XII**

   Failure to submit the above Annexures along with Bid document, their Bid may be rejected.

7. Bidder must submit the undertaking regarding land Border Sharing as per Office Memorandum dated 23.07.2020 issued by Dept. of Expenditure as per attached Annexure-VII. Failure to submit the same, Bid maybe rejected.

8. **After L1 decides, L1 bidder should be submitted a detailed price breakup (item wise) as and when insisted by the Institute before placement of the order without fail.**

9. **Warranty:** Warranty as mentioned in the Technical Specifications will start from the date of successful installation, configuration and final acceptance by the user.

10. **Payment Term:** Payment will be made after delivery, installation & satisfactory acceptance by the user subject to submission of all requisite clear documents i.e PBG 5% of total order Value with validity of Warranty Period plus 2 months from the date of installation, Delivery Challan certified with exact date of supply by the consignee, Original Tax invoice, Warranty Certificate, Installation Certificate etc. If the supplier fails to submit the PBG, Institute will release 95% payment and balance 5% will be released after completion of warranty period + 2 months only subject to submission of request letter by the supplier.

11. **Installation:** Wherever installation is required the same should be done by the supplier within 30 days of the supply of the equipment failing which the purchase order is liable to be cancelled/penalty may be imposed as per clause number 14 in page number 3. In case the item ordered for is a machine/equipment the same should be successfully installed and commissioned within 30 days from the actual date of delivery & acceptance by the user. For delay in commissioning beyond the 30 days scheduled period, liquidated damages as deemed appropriated may be deducted from the Bill / Agency Commission.

12. **Delivery with Insurance**: The date of delivery should be strictly adhered to failing which the purchase order is liable to be cancelled. Penalty may be imposed as per P.O. terms & conditions. Goods should be securely, safely and adequately packed, insured & dispatched at the risk of supplier and packing costs quoting this order reference should be kept in all package. Local firms are requested to deliver the goods in our stores before 3.00 PM on any working day.

13. All damaged or unapproved goods shall be returned at your cost & risk and the incidental expenses incurred thereon shall be recoverable from any of your bill. Availability of Service Centres: Bidder/OEM must have a Functional Service Centre in the State of each Consignee's Location in case of carry-in warranty. (Not applicable in case of goods having on-site warranty). If service centre is not already there at the time of bidding, successful bidder / OEM shall have to establish one within 30 days of award of contract. Payment shall be released only after submission of documentary evidence of having Functional Service Centre.

14. **Liquidated Damages:** As time is the essence of this order, the date of delivery & installation should be strictly adhered to, otherwise the delivery in full or in part may not be accepted and penalty for both late delivery & installation will be imposed @ 0.5% of the contract value per week subject to a maximum of 10% of the total value of supply order.

15. **Cancellation**: Printed conditions, if any, contained in or sent along with the quotation shall not be binding on us. IIT Bhubaneswar reserves all the rights cancel the Purchase Order at any stage without assigning any reason thereof.

16. **Jurisdiction:** This contract between the supplier and the buyer shall be governed by the LAWS of India and under this contract shall be taken by the parties only in Bhubaneswar, India to competent jurisdiction.

17. **EMD:** Supplier(s) is/are requested to submit the EMD release letter along with the bank mandate as per the letter attached (Annexure-XII) once the bid is finalized except the L1 bidder. L1 bidder should submit the request once the contract is awarded and PBG is furnished.

Annexure – I

FORMAT FOR SELF-CERTIFICATION ISSUED BY OEM UNDER PREFERENCE TO MAKE IN INDIA ORDER

CERTIFICATE FOR CLASS–I or CLASS- II LOCAL SUPPLIER

Date: ***[insert date (as day, month and year) of Bid Submission]***

GeM Bid No.: _____

To: **IIT Bhubaneswar, Argul – 752050, Odisha**

We hereby declare that the items under our Quotation No._____ _____ in the brand name of _____ & (equipment details) _____ are manufactured at (complete address) _____

Hence, its contains the local content of_____ in percent
(as per I. CALCULATION OF LOCAL CONTENT(LC) – GOODS)

a) More than 50% (Class I)

b) More than 20% and Less than 50% (Class II)
(*Strike out whichever is not applicable)*

as defined under the Make in India policy of the Department for Promotion of Industry & Internal Trade, DPIIT, Govt of India.

The value addition for the local content is done at (Name of the place& Address) _____.

The Country of Origin of the item(s) used in manufacturing of Equipment is/are _____

Further, it is declared that finished Equipment is not imported and local Content not calculated on the basis of Transportation, Insurance, Installation, Commissioning, and Training & after sales services. But Equipment is Manufactured/Assembled in India at out Factory address_____.

The false declaration will be in breach of the Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules of which a bidder or its successors can be debarred for up to two years as per Rule 151(iii) of the General Financial Rules along with such other actions as may be permissible under Law.

We also declare that the goods are not manufactured in a country that shares its land border with India nor the beneficial owner belong to those country.

We shall be held responsible if the certificate is found to be incorrect.

We shall be held responsible if the certificate is found to be incorrect.

The certificate may be prepared under letterhead of the vender and submitted duly signed by the authorized signatory.

Date:

Name, Sign & Seal of the OEM

Place:

Annexure – II

Bid-Securing Declaration Form

Date: ***[insert date (as day, month and year) of Bid Submission]***

GeM Bid No.:_____

To: **IIT Bhubaneswar, Argul – 752050, Odisha**

I/We. The undersigned, declare that:

I/We understand that, according to your conditions, bids must be supported by a Bid Securing Declaration.

I/We accept that I/We may be disqualified from bidding for any contract with you for a period of Two Year from the date of notification if I am /We are in a breach of any obligation under the bid conditions, because I/We

(a) have withdrawn/modified/amended, impairs or derogates from the GeM Bid, my/our Bid during the period of bid validity specified in the form of Bid; or

(b) having been notified of the acceptance of our Bid by the purchaser during the period of bid validity (i) fail or reuse to execute the contract, if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the Instructions to Bidders.

I/We understand this Bid Securing Declaration shall cease to be valid if I am/we are not the successful Bidder, upon the earlier of (i) the receipt of your notification of the name of the successful Bidder; or (ii) thirty days after the expiration of the validity of my/our Bid.

Signed: (insert signature of person whose name and capacity are shown) in the capacity of (insert legal capacity of person signing the Bid Securing Declaration).

Name: (insert complete name of person signing he Bid Securing Declaration)

Duly authorized to sign the bid for an on behalf of: (insert complete name of Bidder)

Dated on _____ day of _____ (insert date of signing)

Corporate Seal (where appropriate)

(Note: In case of a Joint Venture, the Bid Securing Declaration must be in the name of all partners to the Joint Venture that submits the bid).

Bidder Information Form

(a) The Bidder shall fill in this Form in accordance with the instructions indicated below. No alterations to its format shall be permitted and no substitutions shall be accepted. This should be done of the letter head of the firm]

Date: *[**insert date (as day, month and year) of Bid Submission***]
Bid No.: *[_____]*
Page 1 of_____ pages

01.	Bidder's Legal Name *[insert Bidder's legal name]*
02.	In case of JV, legal name of each party: *[insert legal name of each party in JV]*
03.	Bidder's actual or intended Country of Registration: *[insert actual or intended Country of Registration]*
04.	Bidder's Year of Registration: *[insert Bidder's year of registration]*
05.	Bidder's Legal Address in Country of Registration: *[insert Bidder's legal address in country of registration]*
06.	Bidder's Authorized Representative Information Name: *[insert Authorized Representative's name]* Address: *[insert Authorized Representative's Address]* Telephone/Fax numbers: *[insert Authorized Representative's telephone/fax numbers]* Email Address: *[insert Authorized Representative's email address]*
07.	Attached are copies of original documents of: *[check the box(es) of the attached original documents]* Articles of Incorporation or Registration of firm named in 1, above.
08.	**Whether firm is MSEs Unit: YES/ NO** **If YES then please Specify the category of ownership: SC/ST or Women:** **(Please Submit the Documentary Evidence for UAM and ownership details.)**
09.	**Whether firm is Local Supplier as per Make in India Order: YES/NO** **If Yes then Please Specify: Class I or Class II** **(Please Submit the Documentary Evidence for Local Content as per Annexure I)** **Country of Origin of quoted Goods:**
10	**Bidder Undertaking: "I certify that (Name of the Bidder) is not from such a country or, if from such country, has been registered with the Competent Authority. I hereby certify that this bidder fulfils all requirements in this regard and is eligible to be considered. (Where applicable, evidence of valid registration by the Competent Authority shall be attached.)"**

Signature & Seal of Bidder_____

Name _____

Business Address _____

Annexure –IV

(To be given on Company Letter Head)

Date:_____

To,
Registrar,
Indian Institute of Technology Bhubaneswar,
Argul, Jatani – 752050

Sub: Acceptance of Terms & Conditions of Bid.

Bid Reference No: _____

Name of Bid / Work: _____

Dear Sir,

1. I/ We have downloaded / obtained the Bid document(s) for the above mentioned 'Bid/Work' from the web site(s) namely: ……..
as per your advertisement, given in the above mentioned website(s).

2. I / We hereby certify that I / we have read the entire terms and conditions of the GeM Bid documents from Page No. _____ to _____ (including all documents like annexure(s), schedule(s), etc .,), which form part of the contract agreement and I / we shall abide hereby by the terms / conditions / clauses contained therein.

3. The corrigendum(s) issued from time to time by your department/ organisation too have also been taken into consideration, while submitting this acceptance letter.

4. I / We hereby unconditionally accept the GeM Bid conditions of above mentioned GeM Bid document(s) / corrigendum(s) in its totality / entirety.

5. I / We do hereby declare that our Firm has not been blacklisted/ debarred by any Govt. Department/Public sector undertaking.

6. I / We certify that all information furnished by the our Firm is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then your department/ organisation shall without giving any notice or reason therefore or summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including the forfeiture of the full said earnest money deposit absolutely.

Yours Faithfully,

(Signature of the Bidder, with Official Seal)

Annexure – V

VENDOR MASTER FORM

(To facilitate registration under PFMS and fund transfer through RTGS, NEFT/ INTRA BANK Transfer-One time information required on Bidder's letter head)

Sl No.	Information required	Data furnished
1	Name of the supplier company /firm	
2	CIN Number (in case of company)	
3	Complete contact address with PIN number	
4	Landline phone number	
5	Mobile number of contact person/ Finance Executive (for SMS on payment details)	
6	e-Mail ID (for receiving payment details)	
7	PAN Number	
8	GST Registration Number (with copy of GST registration certificate)	
9	TAN Number	
10	Bank account number (with a copy of cancelled cheque or Xerox copy of cheque leaf)	
11	Name of the Bank	
12	Name of the Bank Branch	
13	IFSC Code of Bank	
14	MICR Code of Bank	
15	Bank Account details where LC is to be opened in case of foreign suppliers (if applicable)	

I / We hereby declare that the particulars given above are correct and complete. If the transaction is delayed or credit is not effected at all for reason of incomplete or incorrect information, the Indian Institute of Technology, Bhubaneswar will not be responsible.

Authorised signatory with date and seal

Annexure –VI

MANUFACTURERS' AUTHORIZATION FORM

[The Bidder shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letterhead of the Manufacturer and should be signed by a person with the proper authority to sign documents that are binding on the Manufacturer.

Date: **[insert date (as day, month and year) of Bid Submission***]*

Bid No.: _____

To: **IIT Bhubaneswar, Argul – 752050, Odisha**

WHEREAS

We *[insert complete name of Manufacturer],* who are official manufacturers of *[insert type of goods manufactured],* having factories at [***insert full address of Manufacturer's factories & % of local content & Country of Origin***], do hereby authorize ***[*insert complete name of Bidder***]*** to submit a bid the purpose of which is to provide the following Goods, manufactured by us ***[*insert name and or brief description of the Goods***]*** , and to subsequently negotiate and sign the Contract.

We hereby extend our full guarantee and warranty in accordance with Bid of the General Conditions of Contract, with respect to the Goods offered by the above firm.

Signed:(*insert signature(s) of Original Equipment Manufacturer (s) of the Manufacturer)*

Name: *(insert complete name)*

Title: *(insert title)*

Duly authorized to sign this Authorization on behalf of: *[insert complete name of Bidder]*

Dated on _____ day of _____, _____ *[insert date of signing]*

Annexure –VII

Undertaking regarding restrictions under Rule 144(xi) of the GFR 2017 as per GoI, Ministry of Finance, Department of Expenditure letter No F.7/10/2021-PPD and F.7/10/2021-PPD all dt 23.02.2023.

1. **"I have read the clause regarding restrictions on Procurement from a bidder of a country which shares a land border with India, and on sub contracting to contractors from such countries ; I certify that _____(Name of the Bidder) is not from such a country or, if from such country, has been registered with the Competent Authority and will not sub-contract any work to a contractor from such countries unless such contractor is registered with the Competent Authority. I hereby certify that this bidder fulfils all requirements in this regard and is eligible to be considered. (Where applicable, evidence of valid registration by the Competent Authority shall be attached.)"**

2. **"I have read the clause regarding restrictions on Procurement from a bidder having Transfer of Technology (ToT) arrangement. I certify that _____(Name of the Bidder) does not have any TOT arrangement requiring registration with the Competent Authority."**

Or

"I have read the clause regarding restrictions on Procurement from a bidder having Transfer of Technology (ToT) arrangement. I certify that _____(Name of the Bidder) has valid registration to participate in this procurement."

(Signature of the OEM, with Official Seal)

Annexure –VIII

FORMAT FOR PERFORMANCE BANK GUARANTEE

(To be typed on Non-judicial stamp paper of the value of Indian Rupees of One Hundred) (TO BE ESTABLISHED THROUGH ANY OF THE NATIONAL BANKS (WHETHER SITUATED AT BHUBANESWAR OR OUTSTATION) WITH A CLAUSE TO ENFORCE THE SAME ON THEIR LOCAL BRANCH AT BHUBANESWAR OR ANY SCHEDULED BANK (OTHER THAN NATIONALISED BANK) SITUATED AT BHUBANESWAR. BONDS ISSUED BY CO-OPERATIVE BANKS ARE NOT ACCEPTED.)

To,
The Registrar,
Indian Institute of Technology Bhubaneswar,
Argul, Jatani – 752050

LETTER OF GUARANTEE

WHEREAS Indian Institute of Technology Bhubaneswar (Buyer) have invited Tenders vide GeM Bid No _____ and Purchase Order/GeM Contract No _____, for purchase of _____ AND WHEREAS the said tender document requires that any eligible successful tenderer (seller) wishing to supply the equipment /machinery etc. in response thereto shall establish an irrevocable Performance Guarantee Bond in favour of **"The Registrar, Indian Institute of Technology Bhubaneswar, Bhubaneswar"** in the form of Bank Guarantee for **Rs.**_____ and valid till _____ from the date of issue of Performance Bank Guarantee may be submitted within 30 (Thirty) days from the date of acceptance as a successful bidder.

NOW THIS BANK HEREBY GUARANTEES that in the event of the said tenderer (seller) failing to abide by any of the conditions referred in tender document / purchase order / performance of the equipment / machinery, etc. this bank shall pay to Indian Institute of Technology, Bhubaneswar on demand and without protest or demur Rs ..... (Rupees.....).

This bank further agrees that the decision of Indian Institute of Technology, Bhubaneswar (Buyer) as to whether the said Tenderer (Seller) has committed a breach of any of the conditions referred in tender document / purchase order shall be final and binding.

We, ... (name of the bank & branch) hereby further agree that the guarantee herein contained shall not be affected by any change in the constitution of the Tenderer (Seller) and/ or Indian Institute of Technology Bhubaneswar, Bhubaneswar(Buyer).

Notwithstanding anything contained herein:

1. Our liability under this Bank Guarantee shall not exceed Rs..... (Indian Rupees ..... only).

2. This Bank Guarantee shall be valid up to _____(date, ___ months from the date of Installation) and

3. We are liable to pay the guaranteed amount or any part thereof under this bank guarantee only and only if Institute serve upon us a written claim or demand on or before .....(date).

This Bank further agrees that the claims if any, against this Bank Guarantee shall be enforceable at our branch office at ..... situated at ..... (Address of local branch).

Yours truly,
Signature and seal of the guarantor:
Name of Bank:
Address:
Date:

Instruction to Bank: Bank should note that on expiry of Guarantee Period, the Original Guarantee will not be returned to the Bank. Bank is requested to take appropriate necessary action on or after expiry of bond period.

Annexure IX

COMPLIANCE STATEMENT OF TECHNICAL SPECIFICATION AND TERMS & CONDITIONS

Bidder Name & Address: _____

Offered product Make & Model: _____

Technical Specifications for Network Devices

Important Note:

Bidder needs to provide complete technical details of the offered components. **Only mentioning YES/NO in the compliance is not acceptable**. Cross references to proper technical datasheets / spec sheet / website links need to be **provided against each parameter for the quoted product.**

1. Wireless Access Point - 586 nos.

Sl. No.	General Specifications	Comply / Not Comply	Ref. Page No.
1	Access Point must be compliant with IEEE CAPWAP or equivalent or better to support controller-based Wireless SSIDs.		
2	Access Point shall support minimum 4x4 or higher MIMO on both radio interfaces.		
3	Access Point must be with internal antennas or equivalent or better and controller based or equivalent or better.		
4	Access Point shall be able to powered up using PoE 802.3af/at or equivalent or better.		
5	Access Point shall support packet capture or equivalent or better, RF sensing capabilities or equivalent or better.		
6	Access Point shall support encrypted traffic visibility or equivalent or better.		
7	Access Point shall ship with metal-based mounting bracket or equivalent or better for wall and ceiling from day 1 using a pad lock or kensington lock or equivalent or better for safety durability and reliability.		
8	Access Point shall support feature like BSS Coloring or equivalent or better, TWT(Target WakeTime) or equivalent or better, MU-MIMO(downlink & uplink) or equivalent or better.		
9	Access Point shall support Console port that uses Standard Port (RJ-45)/Serial type connection/USB Console or equivalent or better for out-of-band Management.		
10	Access Point should have minimum 1x 100/1000/2500 or higher Multigigabit Ethernet (RJ-45) - IEEE 802.3bz Port.		
11	Must have minimum 3 dBi or higher Antenna gain on each radios.		
12	Must Support minimum data rate 2.9 Gbps or higher (minimum 2.4 Gbps or higher in the 5GHz band and minimum 570 Mbps or higher in the 2.4GHz band).		
13	Must support minimum of 21dbm or higher of transmit power in both 2.4Ghz and 5Ghz radios. And should follow the local regulatory norms.		

14	Must support AP enforced load-balance or equivalent or better between 2.4Ghz and 5Ghz band.		
15	Must incorporate radio resource management or equivalent or better for power, channel and performance optimization.		
16	Must have minimum -96 dB or better Receiver Sensitivity.		
17	Must support Proactive Key Caching or equivalent or better for Fast Secure Roaming or equivalent or better.		
18	Must support Management Frame Protection or equivalent or better.		
19	Should support locally-significant certificates or equivalent or better on the APs using a Public Key Infrastructure (PKI) or equivalent or better.		
20	Must support the ability to serve clients or equivalent or better and monitor the RF environment or equivalent or better.		
21	Same model AP that serves clients must be able to monitor the RF environment or equivalent or better.		
22	Must support minimum 16 WLANs or higher per AP for SSID deployment flexibility.		
23	Must support telnet and/or SSH login or equivalent or better to APs directly for troubleshooting flexibility.		
24	Must support 802.11e or equivalent or better and WMM or equivalent or better.		
25	Must support QoS or equivalent or better and Video Call Admission Control capabilities or equivalent or better.		
26	Must support WPA2 and WPA3 Enterprise or equivalent or better.		
27	The Access point should support Transmit beam-forming (TxBF) or equivalent or better for increased signal.		
28	Should support minimum 0-50 degree centigrade operating temperature or higher.		
29	Access point should be Wi-Fi 6 or equivalent or better.		
30	Access points should be supplied along with required licenses, suitable power injectors/adaptors, suitable power cords, console cable and other accessories if any.		

2. Wireless Controller (WLC) - 01 nos.

Sl. No.	General Specifications	Comply / Not Comply	Ref. Page No.
1	AP should be able to tunnel traffic to remote location to WLC/tunnel aggregator device using protocols like VxLAN/EoGRE/L2TP/ CAPWAP/GRE or equivalent or better for both control and user data.		
2	Wireless controller should support minimum 1,000 AP or higher and minimum 20,000 clients or higher from day 1 in single HW appliance.		
3	Solution should have single centralized management system or equivalent or better for provisioning and configuration access points. It could be integrated with controller or additional hardware appliance for deployment, management, monitoring and entire access point related configuration or equivalent or better.		

4	Support for new Wi-Fi 6 (802.11ax) or equivalent or better, WPA3 or equivalent or better and Enhanced Open and existing standards or equivalent or better.		
5	The controller should have minimum 4x 10 Gig SFP+ or higher. Should be populated from day 1 with minimum 10 Gig Dual Fiber Single Mode SFP+ modules or higher.		
6	The controller shall support minimum 40 Gbps or higher.		
7	WLC must support an ability to dynamically adjust channel, power settings and airtime, or equivalent or better based on the RF environment. Radio coverage algorithm must allow adjacent WAPs to operate on different channels, in order to maximize available bandwidth and avoid interference or equivalent or better.		
8	Wireless Controller should support Access Control based on Identity/Role/ Device/Time or Application or equivalent or better.		
9	WLC should have minimum 4K VLANs or higher.		
10	Should support IPSec/SSL encryption standards or equivalent or better.		
11	Should support coverage hole detection and correction or equivalent or better that can be adjusted on a per WLAN basis.		
12	Should support RF Management with minimum 20, 40, 80 & 160 MHz channels or higher.		
13	Should support Access Control Lists (ACLs) or equivalent or better.		
14	Should support built-in web authentication or equivalent or better. Should also support web-based authentication with PAP/CHAP based back end or equivalent or better to provide a browser-based environment to authenticate clients that do not support the IEEE 802.1X supplicant. Should support built-in /URL redirection or equivalent or better for web authentication.		
15	Should be able to set a maximum per-user bandwidth limit or equivalent or better for web authentication on a per-SSID basis.		
16	Should provide Mesh capability for Mesh supported AP or equivalent or better.		
17	Should support spectrum analysis or equivalent or better and be able to classify different types of interference or equivalent or better.		
18	Should provide multiple real-time charts/log or equivalent or better showing interferers per access point, on a per-radio, per-channel basis or equivalent or better.		
19	Support for configuring media streams with different priority or equivalent or better to identify specific video streams for preferential QoS treatment or equivalent or better.		
20	To deliver optimal bandwidth usage, reliable multicast must use a single session between AP and Wireless Controller or equivalent or better.		
21	Should support IPv4 & IPv6.		
22	Solution should support application visibility and control (applications like Social Media, Video Streaming, Video Conferencing apps.) or equivalent or better.		

23	The solution should detect, classify and automatically prevent all types of Rogue (unauthorized APs connected to the network) APs from Day 1 or equivalent or better.		
24	WLC should support complete WIPS/WIDS support or equivalent or better, via integrated or through external appliance.		
25	The solution to support packet capture or equivalent or better in the event of a client failure or anomalous events.		
26	The WLAN solution should provide an easy GUI view dashboard or equivalent or better to use all the settings, configuration, logs, topology view, wireless coverage heatmap etc.		
27	The solution should highlight client connection failures or equivalent or better during association, authentication and network entry.		
28	The Solution shall support Hitless/rolling or equivalent or better, AP upgrade feature or equivalent or better.		
29	The solution must be able to detect and automatically prevent any ad hoc network/ all Wi-Fi enabled devices such as smartphones bridging / ICS when connected to the network or equivalent or better.		
30	Should adhere to the strictest level of security standards, including 802.11i Wi-Fi Protected Access 3 (WPA3),Wi-Fi Protected Access 2 (WPA2),WPA, 802.1X with multiple Extensible Authentication Protocol (EAP) types, including Protected EAP (PEAP), PEAP-MSCHAPV2, EAP with Transport Layer Security (EAP- TLS), EAP with Tunneled TLS (EAP-TTLS) or equivalent or better.		
31	Should be able to classify different types of interference or equivalent or better.		
32	Controller should support deep packet inspection or application inspection for all user traffic across Layer 4-7 network to analyses information about applications usage, peak network usage times for all access points or equivalent or better.		
33	For smooth, seamless and easy manageability, operation, interoperability and maintenance, the bidder should offer/quote Wireless Controller & Wireless Access Points of the same make (OEM).		
34	Should have redundant power supply or equivalent or better from day 1.		
35	WLC should be supplied along with required licenses, suitable power cords, suitable indian straight plug [3 Pin Class-I 6AMP or 3 Pin Class-I 16AMP] or equivalent or better and other accessories if any.		

3. Distribution Switch – 06 nos.

Sl. No.	General Specifications	Comply / Not Comply	Ref. Page No.
1	Switch architecture should be fixed form factor/ modular or equivalent or better.		
2	Switch should have minimum 24 x 1/10G SFP+ Ports or higher and minimum 2 x 40G/100G QSFP+ Ports or higher.		

3	Switch should have internal redundant power supplies or equivalent or better and fans from day one.		
4	Switch should have wire-speed for all the packet sizes or equivalent or better.		
5	The switching fabric /backplane shall be non-blocking supporting wire speed interface or equivalent or better.		
6	Should have switching backplane of minimum 1.2 Tbps or higher and minimum 952 Mpps or higher.		
7	All routing and Management features to be offered for both IPv4 and IPv6 from day one.		
8	Switch should have full Layer 2 and Layer 3 features or equivalent or better and support spanning tree protocol or equivalent or better standards from day one like STP (IEEE 802.1d), MSTP (IEEE 802.1s), RSTP (IEEE 802.1w) etc., LACP/IEEE 802.3ad, LLDP 802.1ab, ACL, QoS and IGMPv1/v2/v3, MLDv1/v2, ICMPv6, RIPv2, OSPF, BGP, VRF.		
9	Should support Unidirectional Link Detection Protocol (UDLD)/DLD protocol or equivalent or better to allow unidirectional links failure detection.		
10	Distribution switch should support minimum 90K MAC Addresses or higher and minimum 1K active VLANs (4K VLAN ID) or higher.		
11	Should have minimum 4K multicast routes or higher in IPv4 & IPv6 from day 1.		
12	The switch should be configured, from day1, to perform MLD snooping or equivalent or better and IGMP snooping or equivalent or better simultaneously.		
13	Should support minimum 1K IGMP Groups or higher.		
14	The Distribution Switch should support minimum of 3K ACLs (Access Control Lists) or higher.		
15	Should support minimum 8 queues per port or higher and security protocols like RADIUS, TACACS/TACACS+, AAA & SSH or equivalent or better.		
16	Support for non-disruptive software upgrades or equivalent or better.		
17	Support management using CLI, GUI, using web interface or equivalent or better.		
18	Support Console port that uses Standard Port (RJ- 45) or Serial type connection or USB Console or equivalent or better.		
19	Switch should be supplied along with required licenses, suitable power cords, suitable indian straight plug[3 Pin Class-I 6AMP or 3 Pin Class-I 16AMP] or equivalent or better, compatible Dual Fiber Single Mode Fiber Modules and other accessories if any.		
20	**Environmental Features**		
a.	Shall provide support for RoHS regulations or equivalent or better.		
b.	Shall be capable of supporting AC/DC Power inputs.		

c.	Operating temperature of minimum 0°C to 40°C or higher		
d.	Safety and Emission standards including IEC 60950-1 or 62368-1 or equivalent or better; EN 55022 Class A or EN55032 Class A or equivalent or better.		

4. 24 Port PoE Switches – 121 nos.

Sl. No.	General Specifications	Comply / Not Comply	Ref. Page No.
1	**Architecture**		
a.	Shall be 19" Rack Mountable.		
b.	Shall have minimum 8 nos. or higher of minimum 2.5G or higher Multigigabit Ethernet (RJ-45) - IEEE 802.3bz Ports and remaining Base-T Ports of minimum 1G or higher with additional minimum 4 nos. of 10G or higher SFP+ uplinks ports.		
c.	Shall have minimum 1 GB or higher RAM.		
d.	Shall have minimum 1 GB or higher Flash.		
e.	Shall have switching capacity of minimum 440 Gbps or higher.		
f	Shall have switching throughput of minimum 320 Mpps or higher.		
g.	The switch should support minimum 32000 or higher MAC address.		
h.	The switch should have Routing table size of minimum 2000 entries or higher (IPv4), minimum 1000 entries or higher (IPv6).		
i.	The switch should support minimum PoE 802.3af/at or higher RJ45 Ports with PoE budget of minimum 720W or higher from day 1.		
2	**Quality of Service (QoS)**		
a.	The switch should support Traffic prioritization (IEEE 802.1p) or equivalent or better to allow real-time traffic classification into minimum eight priority levels or higher mapped to minimum eight queues or higher.		
b.	The switch should support Layer-4 prioritization or equivalent or better to enable prioritization based on TCP/UDP port numbers or equivalent or better.		
c.	The switch should support Class of Service (CoS) or equivalent or better to sets the IEEE 802.1p priority tag based on IP address, IP Type of Service (ToS), Layer 3 protocol, TCP/UDP port number, source port, and DiffServ.		
d.	The switch should support Rate limiting or equivalent or better to sets per-port ingress enforced maximums and per-port, per-queue minimums.		

e	The switch should provide graceful congestion management or equivalent or better.		
3	**Connectivity**		
a.	The switch should support Auto-MDIX or equivalent or better to provide automatic adjustments for straight-through or crossover cables on all 10/100 and 10/100/1000 ports.		
4	**IPv6 Feature**		
a.	The switch should support IPv6 host or equivalent or better to enable switches to be managed in an IPv6 network.		
b.	The switch should support Dual stack (IPv4 and IPv6) or equivalent or better to transition from IPv4 to IPv6, supporting connectivity for both protocols.		
c.	The switch should support MLD snooping or equivalent or better to forward IPv6 multicast traffic to the appropriate interface.		
d.	The switch should support ACL or equivalent or better and QoS or equivalent or better for IPv6 network traffic.		
e.	The switch should support static or equivalent or better and RIPng or equivalent or better protocols for IPv6.		
5	**Security**		
a.	The switch should support DHCPv6 protection or equivalent or better, IP Source Guard or equivalent or better, and Neighbor Spoofing or equivalent or better in IPv6.		
b.	The switch should have Energy-efficient design or equivalent or better.		
c.	The switch should support Energy-efficient Ethernet (EEE) or equivalent or better to reduce power consumption in accordance with IEEE 802.3az or equivalent or better.		
d.	The switch should support very low latency or equivalent or better, increased packet buffering or equivalent or better, and adaptive power consumption or equivalent or better.		
e.	Selectable queue configurations or equivalent or better.		
f.	The switch should have facility to allow for increased performance or equivalent or better by selecting the number of queues and associated memory buffering that best meet the requirements of the network applications.		
6	**Convergence**		
a.	The switch should support IP multicast routing or equivalent or better and PIM Sparse and Dense modes or equivalent or better to route IP multicast traffic.		
b.	The switch should support IGMP snooping or equivalent or better.		
c.	The switch should support LLDP-MED (Media Endpoint Discovery) or equivalent or better.		
d.	The switch should support IEEE 802.1AB Link Layer Discovery Protocol(LLDP) or equivalent or better.		
e.	The switch should support Local MAC Authentication or equivalent or better.		

7	**Resiliency and high availability**		
a.	The switch should support Virtual Router Redundancy Protocol(VRRP) or equivalent or better.		
b.	The switch should support IEEE 802.1s Multiple Spanning Tree or equivalent or better.		
c.	The switch should support Link Aggregation or equivalent or better as per IEEE 802.3ad or equivalent or better to allow link resilience.		
d.	Load balancing or equivalent or better over IEEE 802.3ad or equivalent or better Aggregated Links shall also be supported.		
8	**Management**		
a.	The switch should support SNMPv1, v2, and v3 or equivalent or better.		
b.	The switch should support Console port that uses Standard Port (RJ-45) or Serial type connection or USB Console or equivalent or better.		
c.	Switch should be supplied along with required licenses, suitable power cords, suitable indian straight plug [3 Pin Class-I 6AMP or 3 Pin Class-I 16AMP] or equivalent or better, compatible Dual Fiber Single Mode Fiber Modules and other accessories if any.		
9	**Manageability**		
a.	The switch should support hot standby dual operating software image or equivalent or better for redundancy.		
b.	The switch should allow assignment of descriptive names to ports.		
c.	Find-Fix-Inform or EAA or equivalent or better.		
d.	The switch should allow multiple configuration files to be stored to a flash image or equivalent or better for redundancy.		
e.	The switch should support RMON or equivalent or better and sFlow or equivalent or better.		
f.	The switch should provide advanced monitoring or equivalent or better and reporting capabilities or equivalent or better for statistics, history, alarms, and events.		
g.	The switch should support port mirroring or equivalent or better for ingress and egress port monitoring or equivalent or better enable network problem solving.		
h.	The switch should support Unidirectional Link Detection Protocol (UDLD)/DLD protocol or equivalent or better to allow unidirectional links failure detection.		
i.	The switch should support IP service level agreements (SLA) protocol or equivalent or better for voice traffic.		
10	**Layer 2 switching**		
a.	The switch should support IEEE 802.1Q or equivalent or better (minimum 4094 or higher VLAN IDs)		

	and minimum 2K or higher VLANs simultaneously.		
b.	The switch should support Jumbo frames or equivalent or better.		
c.	The switch should support IEEE 802.1v or equivalent or better protocol VLANs.		
d.	The switch should support Rapid Spanning Tree (RSTP) 802.1w or equivalent or better.		
e.	The switch should support GVRP or equivalent or better.		
11	**Layer 3 services**		
a.	The switch should support DHCP or equivalent or better.		
12	**Layer 3 routing**		
a.	The switch should support static IP routing or equivalent or better.		
b.	The switch should support Policy-based routing or equivalent or better.		
13	**Security**		
a.	The switch should support IEEE 802.1X or equivalent or better.		
b.	The switch should support Web-based authentication or equivalent or better.		
c.	The switch should support MAC-based authentication or equivalent or better.		
d.	The switch should support Multiple IEEE 802.1X users per port or equivalent or better.		
e.	The switch should support Concurrent IEEE 802.1X or equivalent or better, Web authentication schemes or equivalent or better and MAC authentication schemes or equivalent or better per port and accept minimum 32 sessions or higher of IEEE 802.1X Web authentications and MAC authentications or equivalent or better.		
f.	The switch should support Access control lists (ACLs) or equivalent or better.		
g.	The switch should provide IP Layer 3 filtering or equivalent or better based on source/destination IP address/subnet and source/destination TCP/UDP port number.		
h.	The switch should support Source-port filtering or equivalent or better.		
i.	The switch should support RADIUS/TACACS+ or equivalent or better.		
j.	The switch should support Secure Shell or equivalent or better.		
k.	The switch should support Secure Sockets Layer (SSL) or equivalent or better.		
l.	The switch should support Port security or equivalent or better.		

m.	The switch should support MAC address lockout or equivalent or better.		
n.	The switch should support Secure FTP or equivalent or better.		
o.	The switch should support Switch management logon security or equivalent or better.		
p.	The switch should support STP BPDU port protection or equivalent or better.		
q.	The switch should support DHCP protection or equivalent or better.		
r.	The switch should support Dynamic ARP protection or equivalent or better.		
s.	The switch should support STP root guard or equivalent or better.		
t.	The switch should support Identity-driven ACL or equivalent or better.		
u.	The switch should support Per-port broadcast throttling or equivalent or better.		
v.	The switch should support Private VLAN or equivalent or better.		
14	**Environmental Features**		
a.	Shall support IEEE 802.3az Energy-efficient Ethernet (EEE) or equivalent or better to reduce power consumption.		
b.	Operating temperature of minimum 0°C to 45°C or higher.		
c.	Safety and Emission standards including IEC 60950-1 or 62368-1 or equivalent or better; EN 55022		
d.	Class A or EN55032 Class A or equivalent or better.		

5. 24 Port Non-PoE Switches – 140 nos.

Sl. No.	General Specifications	Comply / Not Comply	Ref. Page No.
1	**Architecture**		
a.	Shall be 19" Rack Mountable.		
b.	Minimum 24 or higher RJ-45 autosensing 10/100/1000 ports and minimum 2 or higher SFP+ 10 GbE ports.		
c.	Shall have minimum 1 GB or higher RAM.		
d.	Shall have minimum 1 GB or higher Flash.		
e.	Shall have switching capacity of minimum 128 Gbps or higher.		
f.	Shall have switching throughput of minimum 95 Mpps or higher.		
g.	The switch should support minimum 32000 or higher MAC address.		
h.	The switch should have Routing table size of minimum 2000 entries or higher (IPv4), minimum 1000 entries or higher (IPv6).		
2	**Quality of Service (QoS)**		

a.	The switch should support Traffic prioritization (IEEE 802.1p) or equivalent or better to allow real-time traffic classification into minimum eight priority levels or higher mapped to minimum eight queues or higher.		
b.	The switch should support Layer-4 prioritization or equivalent or better to enable prioritization based on TCP/UDP port numbers or equivalent or better.		
c.	The switch should support Class of Service (CoS) or equivalent or better to sets the IEEE 802.1p priority tag based on IP address, IP Type of Service (ToS), Layer 3 protocol, TCP/UDP port number, source port, and DiffServ.		
d.	The switch should support Rate limiting or equivalent or better to sets per-port ingress enforced maximums and per-port, per-queue minimums.		
e.	The switch should provide graceful congestion management or equivalent or better.		
3	**Connectivity**		
a.	The switch should support Auto-MDIX or equivalent or better to provide automatic adjustments for straight-through or crossover cables on all 10/100 and 10/100/1000 ports.		
4	**IPv6 Feature**		
a.	The switch should support IPv6 host or equivalent or better to enable switches to be managed in an IPv6 network.		
b.	The switch should support Dual stack (IPv4 and IPv6) or equivalent or better to transition from IPv4 to IPv6, supporting connectivity for both protocols.		
c.	The switch should support MLD snooping or equivalent or better to forward IPv6 multicast traffic to the appropriate interface.		
d.	The switch should support ACL or equivalent or better and QoS or equivalent or better for IPv6 network traffic.		
e.	The switch should support static or equivalent or better and RIPng or equivalent or better protocols for IPv6.		
5	**Security**		
a.	The switch should support DHCPv6 protection or equivalent or better, IP Source Guard or equivalent or better, and Neighbor Spoofing or equivalent or better in IPv6.		
b.	The switch should have Energy-efficient design or equivalent or better.		
c.	The switch should support Energy-efficient Ethernet (EEE) or equivalent or better to reduce power consumption in accordance with IEEE 802.3az or equivalent or better.		
d.	The switch should support very low latency or equivalent or better, increased packet buffering or equivalent or better, and adaptive power consumption or equivalent or better.		
e.	Selectable queue configurations or equivalent or better.		
f.	The switch should have facility to allow for increased performance or equivalent or better by selecting the number of queues and		

	associated memory buffering that best meet the requirements of the network.		
6	**Convergence**		
a.	The switch should support IP multicast routing or equivalent or better and PIM Sparse and Dense modes or equivalent or better to route IP multicast traffic.		
b.	The switch should support IGMP snooping or equivalent or better.		
c.	The switch should support LLDP-MED (Media Endpoint Discovery) or equivalent or better.		
d.	The switch should support IEEE 802.1AB Link Layer Discovery Protocol(LLDP) or equivalent or better.		
e.	The switch should support Local MAC Authentication or equivalent or better.		
7	**Resiliency and high availability**		
a.	The switch should support Virtual Router Redundancy Protocol(VRRP) or equivalent or better.		
b.	The switch should support IEEE 802.1s Multiple Spanning Tree or equivalent or better.		
c.	The switch should support Link Aggregation or equivalent or better as per IEEE 802.3ad or equivalent or better to allow link resilience.		
d.	Load balancing or equivalent or better over IEEE 802.3ad or equivalent or better Aggregated Links shall also be supported.		
8	**Management**		
a.	The switch should support SNMPv1, v2, and v3 or equivalent or better.		
b.	The switch should support Console port that uses Standard Port (RJ-45) or Serial type connection or USB Console or equivalent or better.		
c.	Switch should be supplied along with required licenses, suitable power cords, suitable indian straight plug [3 Pin Class-I 6AMP or 3 Pin Class-I 16AMP] or equivalent or better, compatible Dual Fiber Single Mode Fiber Modules and other accessories if any.		
9	**Manageability**		
a.	The switch should support hot standby dual operating software image or equivalent or better for redundancy.		
b.	The switch should allow assignment of descriptive names to ports.		
c.	Find-Fix-Inform or EAA or equivalent or better.		
d.	The switch should allow multiple configuration files to be stored to a flash image or equivalent or better for redundancy.		
e.	The switch should support RMON or equivalent or better and sFlow or equivalent or better.		
f.	The switch should provide advanced monitoring or equivalent or better and reporting capabilities or equivalent or better for statistics, history, alarms, and events.		
g.	The switch should support port mirroring or equivalent or better for ingress and egress port monitoring or		

	equivalent or better enable network problem solving.		
h.	The switch should support Unidirectional Link Detection Protocol (UDLD)/DLD protocol or equivalent or better to allow unidirectional links failure detection.		
i.	The switch should support IP service level agreements (SLA) protocol or equivalent or better for voice traffic.		
10	**Layer 2 switching**		
a.	The switch should support IEEE 802.1Q or equivalent or better (minimum 4094 or higher VLAN IDs) and minimum 2K or higher VLANs simultaneously.		
b.	The switch should support Jumbo frames or equivalent or better.		
c.	The switch should support IEEE 802.1v or equivalent or better protocol VLANs.		
d.	The switch should support Rapid Spanning Tree (RSTP) 802.1w or equivalent or better.		
e.	The switch should support GVRP or equivalent or better.		
11	**Layer 3 services**		
a.	The switch should support DHCP or equivalent or better.		
12	**Layer 3 routing**		
a.	The switch should support static IP routing or equivalent or better.		
b.	The switch should support Policy-based routing or equivalent or better.		
13	**Security**		
a.	The switch should support IEEE 802.1X or equivalent or better.		
b.	The switch should support Web-based authentication or equivalent or better.		
c.	The switch should support MAC-based authentication or equivalent or better.		
d.	The switch should support Multiple IEEE 802.1X users per port or equivalent or better.		
e.	The switch should support Concurrent IEEE 802.1X or equivalent or better, Web authentication schemes or equivalent or better and MAC authentication schemes or equivalent or better per port and accept minimum 32 sessions or higher of IEEE 802.1X Web authentications and MAC authentications or equivalent or better.		
f.	The switch should support Access control lists (ACLs) or equivalent or better.		
g.	The switch should provide IP Layer 3 filtering or equivalent or better based on source/destination IP address/subnet and source/destination TCP/UDP port number.		
h.	The switch should support Source-port filtering or equivalent or better.		
i.	The switch should support RADIUS/TACACS+ or equivalent or better.		
j.	The switch should support Secure Shell or equivalent or better.		

k.	The switch should support Secure Sockets Layer (SSL) or equivalent or better.		
l.	The switch should support Port security or equivalent or better.		
m.	The switch should support MAC address lockout or equivalent or better.		
n.	The switch should support Secure FTP or equivalent or better.		
o.	The switch should support Switch management logon security or equivalent or better.		
p.	The switch should support STP BPDU port protection or equivalent or better.		
q.	The switch should support DHCP protection or equivalent or better.		
r.	The switch should support Dynamic ARP protection or equivalent or better.		
s.	The switch should support STP root guard or equivalent or better.		
t.	The switch should support Identity-driven ACL or equivalent or better.		
u.	The switch should support Per-port broadcast throttling or equivalent or better.		
v.	The switch should support Private VLAN or equivalent or better.		
14	**Environmental Features**		
a.	Shall support IEEE 802.3az Energy-efficient Ethernet (EEE) or equivalent or better to reduce power.		
b.	Operating temperature of minimum 0°C to 45°C or higher.		
c.	Safety and Emission standards including IEC 60950-1 or 62368-1 or equivalent or better; EN 55022		

NOTE:- The specifications are indicative only. Products with equivalent or higher configuration will also be considered for technical evaluation subject to submission of documentation of equivalency or higher configuration.

Terms and Conditions for Warranty and Support

1. The product/equipment submitted by the bidder should not be end of life/end of support in the next 10 years from the date of successful installation, configuration and final acceptance by the user. Declaration from OEM must be submitted by the bidder along with the Offer/Bid.

2. Bidder/OEM should have Functional Technical Assistance/ Service Center in Odisha to ensure immediate onsite support during any kind of Network related issue. Local GST Registration Certificate of the Functional Technical Assistance / Service Center in Odisha should be submitted along with the Offer/Bid.

3. Access to OEM technical assistance centre, Software/Firmware update and upgrade assurance for all major and minor releases for a period of 5 years directly from the OEM from the date of successful installation, configuration and final acceptance by the user.

4. Five years NBD (Next Business Day) hardware replacement warranty, with the supply of all spares and accessories, directly from the OEM from the date of successful installation, configuration and final acceptance by the user.

5. Supply, Installation, Integration, testing, commissioning and training as per the requirements of IIT Bhubaneswar, shall be done by the bidder.

6. During Technical evaluations or Prior to Price bid open, Bidder need to do POC if asked. POC will be at IIT Bhubaneswar premises and during POC if found product is not complying with mentioned requirement then authorities have the right to reject the bid during technical evaluations.

General Terms and Conditions

1. Supply, Installation, Configuration, Commissioning and upgradation of network as per the requirements of IIT Bhubaneswar as and when required. Complete Network Infrastructure shall be provided with Five (5) years comprehensive onsite warranty along with operation and Maintenance (inclusive of Labour and Parts).

2. The scope of the work includes supply, installation, configuration, commissioning and integration of data, video, services over IP and voice infrastructure as per IIT Bhubaneswar requirement and maintenance of the same for a period of Five years in terms of onsite comprehensive warranty.

3. Complete delivery of the material has to be accomplished within four weeks of receipt of the purchase order, failing which Liquidation Damage (LD) will be imposed as per Institute purchase rules.

4. It will be the responsibility of the selected Bidder to integrate the proposed infrastructure with the existing lease line connectivity as well as if any further upgradation in Network bandwidth.

5. Integration with the existing network.

6. Upgradation of Institute wired network in access layer: Institute is having multiple access switches connected with multiple distribution switches in various departments and hostels over 1 &10 Gbps link by single mode / multimode optical fiber link and copper link. Successful bidder need to replace and upgrade the existing switches with the new ones as per the requirements of the Institute. All existing configuration must be present and working in the new switches in addition to new and modified configurations to be done.

7. The bidder will be liable for any hardware and software up-gradation for maintenance without any extra cost during entire warranty period. The technical bid must contain make, model and part number of all supplied components.

8. The bidder should provide 5 years onsite OEM Warranty on all network components from the date of successful installation and acceptance by the user. All products/items should have 5 years NBD (Next Business Day) hardware replacement and onsite support commitment with back-to-back agreement with OEM. In case of equipment failure, IIT Bhubaneswar should be able to log case with the OEM both through the bidder and directly without bidder intervention. Emergency response team should be available from OEM directly in case of any critical failures. OEM must have 24*7 TAC support to address and rectify the issue/problems occurring during the entire warranty period of 5 years. Latest software upgrade for all products should be available free without any additional cost during the warranty.

9. All the items (all Switches, Access Points, Wireless Controller and all Network Devices/Items) must be under OEM onsite warranty for 5 years. Installation, configuration and maintenance of all the items (all Switches, Access Points, Wireless Controller and all Network Devices/Items) will be done by the selected bidder/OEM free of cost during the entire warranty period of 5 years as per the requirements of IIT Bhubaneswar.

10. IP Address generations to be done by the Bidder.

11. In case of any future expansion / up-gradation within the warranty period, necessary changes in the configuration have to be done by the selected bidder for smooth integration / migration at no additional cost.

12. Replacement of defective equipment and shipment of the same should be the responsibility of the selected bidder/OEM without any financial commitment from IIT Bhubaneswar.

13. The bidder should provide support and assistance for resolution of major technical problems or technical issues with a highly qualified technical team at the backend to support the onsite team.

14. one dedicated onsite network support engineer and two dedicated onsite field technicians to be posted for 5 years to provide support for operation and maintenance services during the warranty period. The engineer should have either B.E/B.Tech with min 2-3 years' experience in networking/Diploma in engineering or B.Sc with minimum 4-5 years' experience in networking. The technician should have minimum 2-3 years of experience in field support for networking. The shift and timing of their posting need to be decided in consultation with the Institute during the start of
their deployment. This Manpower should be dedicated to the project and should not be engaged in any other project.

15. The bidder is responsible for all unpacking, assembling, wiring, installation, cabling between equipment and components and connection to power supplies. They will test all systems operations and perform all the necessary setup, configuration and customization for successful operation of the Network at site.

16. Selected bidder has to integrate the proposed networking systems over the existing fiber and copper system without disturbing the hierarchy and architecture of the existing campus network. All networking equipment should be upgraded with minimal downtime.

17. Selected bidder/OEM has to configure and install the active and passive networking equipment's without disturbing the operational network, if any, as and when required.

18. Proper Planning of VLAN interoperability and IP Configuration should be done by the bidder by considering current Network Infrastructure.

19. All the supplied Switches, Access Points, Wireless Controller and all Network Devices/Items supplied by the Bidder/OEM should be integrated with the existing Firewall, Core Switch, Distribution Switch, PoE Access Switch, Non PoE Access Switch and all Existing Network Infrastructure for smooth, seamless operations.

20. All the functionality, features and configuration shall be documented for all the equipment/components and shall be demonstrated with respect to the documentation prepared.

21. The bidder shall use their own sets of tools, tackles, etc. required for erection, testing, commissioning and warranty maintenance of the network.

22. All accessories required for installation and commissioning of the supplied Switches, Access Points, Wireless Controller and all Network Devices/Items to be provided by the bidder/OEM at their own cost.

23. The bidder shall bear for any damage occurring during supply, installation, testing, commissioning & activation of network components, computer hardware etc. The same has to be rectified by the bidder/OEM at their own cost.

24. All the work shall be done in a conscientious manner as per the OEM guidelines and best industry practices. The system shall be subjected to inspection at various stages. The bidder shall follow all safety regulations and practices.

25. The bidder shall prepare detailed acceptance testing plan (ATP) for each of the components i.e. Network in consultation with the Institute and submit the same.

26. The installation would be deemed as complete, after the delivery, self-testing, installation, integration of all equipment and final acceptance and certification by IIT Bhubaneswar. The warranty period will start after the final acceptance and certification by the user.

27. Institute has the right to inspect and/or to test the material to confirm their conformity with the contract and in case any inspected/tested goods fail to perform with respect to the specifications, Institute may reject them and the supplier shall either replace the rejected goods or make alteration necessary to meet the specifications free of cost to the Institute.

28. The upgradation process must be completed smoothly and in a seamless manner without affecting the running Institute network.

29. In case of any future expansion / up-gradation necessary changes in the configuration has to be done by the selected bidder for smooth integration / migration.

30. Selected bidder has to submit a pre-installation document. The scope of the pre-installation document will be decided by the Institute.

31. Bidder/OEM must provide free upgrade of software/firmware during warranty period.

32. The product/equipment submitted by the bidder should not be end of life/end of support in the next 10 years from the date of successful installation, configuration and final acceptance by the user. Declaration from OEM must be submitted by the bidder along with the bid.

33. All quoted active networking products should be from single OEM.

34. Any additional item required between the integration of the supplied items by the bidder with IIT Bhubaneswar network need to be supplied and installed by the bidder/OEM at no extra cost to IIT Bhubaneswar.

35. The warranty period will start after the self-testing of the entire network as whole, and final acceptance and certification by IIT Bhubaneswar.

36. In case of any future expansion/up-gradation necessary changes in the configuration has to be done by the selected vendor for smooth integration/migration.

37. All necessary documentation related to time-to-time changes in the configuration has to create by the selected bidder.

Technical Specifications for Network Devices

38. The bidder will be liable for any hardware and software up-gradation for maintenance without any extra cost during the entire warranty period of 5 years.

39. The bidder should supply all required hardware and software to meet the technical specifications. Part bids will not be entertained.

40. During the entire warranty period of 5 years, the Bidder should keep all the software, firmware up to date of all Switches, Access Points, Wireless Controller and all Network Devices/Items supplied.

41. Technical bid should contain all relevant technical details; printed technical leaflet of models quoted and other details, which may be necessary to ensure that offer is complete in all, respect e.g. technical specification, delivery period, guarantee period, validity, etc.

42. The turnover of the Bidder should be atleast 15 crores per annum over the last 3 financial years.

43. Bidder/OEM should have Functional Technical Assistance/ Service Center in Odisha to ensure immediate onsite support during any kind of Network related issue. Local GST Registration Certificate of the Functional Technical Assistance/ Service Center in Odisha should be submitted along with the Offer/Bid.

44. Should ensure service uptime of 99.9% on 24x7x365 basis for the Network Components during the Warranty Period.

45. Bidder need to submit similar Purchase Orders copies preferably from CFTI (Centrally Funded Technical Institute) / Government Organizations.

NOTE:- Submission of Annexure IX on Letterhead, with seal and signature, along with the offer/bid.

Annexure X

Compliance of Terms & Conditions			Comply / Not Comply	Ref. Page No.
EMD	As per clause No.1 of Additional Terms & Conditions.			
Delivery Period	Delivery Period should be completed within ***30 Days*** from the date of the issue of the GeM Contract.			
Installation, Commissioning Testing and demonstration Period	As per clause No.11 of Additional Terms & Conditions.			
Warranty	As mentioned Technical Specification.			
Local content declaration & Country of the origin of the equipment	Local content declaration and country of origin must be provided duly stamped and signature by OEM only as per annexure provided in GeM Bid.	Local Content % _____ Country of Origin _____		
Payment Term	As per clause No.10 of Additional Terms & Conditions.			
Performance Bank Guarantee (PBG):				
Past Performance	As per clause No.2 of Additional Terms & Conditions.			
Restriction on Land border sharing	As per clause No.7 of Additional Terms & Conditions.			
Submission of Annexures / Formats	As per clause No.6 of Additional Terms & Conditions.			
False declarations	False declarations will be in breach of the Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Finance Rules along with such other actions as may be permissible under law.			
Other terms & conditions	As per GeM Bid			

Annexure –XI

Check list

Sl. No.	Documents asked for	Documents submitted Yes/No	If Yes PDF Page No
1.	**Make & Model offered**		
2.	**Compliance statement of technical specification and terms and conditions as per annexure attached**	Yes/No	
3.	**MAF/OEM (If Authorized dealer, authorization certificate must be signed by the OEM). If OEM, registration of the firm with mentioning the brand of the equipment must be submitted.**	Yes/No	
4.	**Local content declaration as per annexure. Local Content % & Country of Origin must be signed by the OEM**	_____% , COO____ Yes/No	
5.	**Past Performance/Experience (Similar Purchase order must be submitted)**	Yes/No	
6.	**Bid Securing declaration as per tender annexure**	Yes/No	
7.	**Acceptance of Terms & conditions as per tender annexure**	Yes/No	
8.	**Bidder details as per annexure**	Yes/No	
9.	**MSME certificate (for preference purpose as per GoI and tender)**	Yes/No	
10.	**Firm Registration/ incorporation certificate, Firm GST Registration certificate & PAN of the firm**	Yes/No	
11.	**Any others**	Yes/No	

Note: Technical bid to be submitted as per above order with clearly mentioning the page number duly signed by Bidder.

(Signature of the bidder)
Name and Address (with seal)

(Please take the printout on your letterhead along with all details)

Annexure-XII

To,
The Registrar,
Indian Institute of Technology (IIT) Bhubaneswar,
Argul, Khordha, Odisha - 752050, India

Sub: Request for release of EMD

Ref: i) Tender/BID Ref. No.: _____Dated._____
ii) Participated in the procurement/services _____

Dear Sir,

We have deposited the EMD in the form of FD/BG/DD/online-mode of Rs. _____ vide Ref No._____Dated._____ from _____(Name of the Bank) against above mentioned tender/bid. Since our tender/bid has not been qualified/PBG has been submitted (As L1 bidder), we request your good office to release our EMD.

Thanking You,

Yours faithfully,

Signature of the Authorized Signatory
(With Company Seal)

Our Address is verified as below:

M/s._____
_____
_____
_____
_____Pin Code_____
Phone No:_____

Note:- Bank Mandate form (Annexure-V) is enclosed for the release of EMD.

(Please strike out where multiple choices are available for better clarity.)