



Bid Number/बोली क्रमांक (बिड संख्या):
GEM/2024/B/5444454
Dated/दिनांक : 26-09-2024

Bid Document/ बिड दस्तावेज़

Bid Details/बिड विवरण	
Bid End Date/Time/बिड बंद होने की तारीख/समय	17-10-2024 17:00:00
Bid Opening Date/Time/बिड खुलने की तारीख/समय	17-10-2024 17:30:00
Bid Offer Validity (From End Date)/बिड पेशकश वैधता (बंद होने की तारीख से)	120 (Days)
Ministry/State Name/मंत्रालय/राज्य का नाम	Ministry Of Education
Department Name/विभाग का नाम	Department Of Higher Education
Organisation Name/संगठन का नाम	National Institute Of Technology (nit)
Office Name/कार्यालय का नाम	Meghalaya
Total Quantity/कुल मात्रा	9130
Item Category/मद केटेगरी	Supply of Cat 6A UUTP STP 23 AWG Cable ETL verified , Supply of 24 port unloaded Modular Straight Jack Panel 1U , SITC of Cat. 6A UTP Modular Jack Outlet panel end , SITC of CAT6 CAT6A Field Termination Plug Toolless Type IP 20 , Supply of Cat6A UTP Patch Cord 3 feet at the Equipment Rack End , SITC of Equipment Rack , SITC of Rack mount power distribution unit , SITC of Fan module Mount on top Cover , SITC of 1U Horizontal Cable Organizer with Plastic Loops , SITC of Hardware Screws for mounting equipments pack of 20 Nos. , SITC of 24 Port Network Switch , SITC of 48 Port Network Switch , 10GBase SFPP SMF LC CONNECTOR , Switch management license for existing Ruckus SmartZone Wireless Controller , SITC of Wireless LAN Controller Appliance , Wireless AP Management License per Access Point , 10GBASE-LR,SFPP SMF LC CONNECTOR for WLC , SITC of Indoor Wireless AP WiFi 6 , SITC of Indoor Wireless AP WiFi 6 with dual-band , 3 years Warranty Support for Wireless AP , SITC of Outdoor Wireless Access Point with omni directional inbuilt antenna , 3 year Warranty Support for Outdoor AP , SITC of Outdoor Wireless Access Point , Advanced Hardware Replacement for Outdoor AP Typell for 3 years , Mounting Kit for Outdoor AP Type II , 100GbE QSFP28 to QSFP28 Direct Attached Passive Copper Cable , Laying Pulling of UTP Cat6A cable inside PVC GI Conduit Casing per meter , Installation of 24 Port Jack Panel , Supply and Fixing of 18 guage thickness Aluminium Galva nized, solid perforated channel , Supply and fixing of Metal OFC Route Marker
GeMARPTS में खोजी गई स्ट्रिंग / Searched Strings used in GeMARPTS	LAN Connection with wireless access controller

Bid Details/बिड विवरण	
GeMARPTS में खोजा गया परिणाम / Searched Result generated in GeMARPTS	Wireless Access Point (V2), Computer Printers
अधिसूचना के लिए चयनित प्रासंगिक श्रेणियाँ / Relevant Categories selected for notification	<ul style="list-style-type: none"> • Networking / Server Rack • Wireless Controller • Wireless Access Point (V2)
BOQ Title/बीओक्यू शीर्षक	LAN CONNECTION AND WIRELESS ACCESS CONTROLLER
Minimum Average Annual Turnover of the bidder (For 3 Years)/बिडर का न्यूनतम औसत वार्षिक टर्नओवर (3 वर्षों का)	47 Lakh (s)
OEM Average Turnover (Last 3 Years)/मूल उपकरण निर्माता का औसत टर्नओवर (गत 3 वर्षों का)	378 Lakh (s)
Years of Past Experience Required for same/similar service/उन्हीं/समान सेवाओं के लिए अपेक्षित विगत अनुभव के वर्ष	3 Year (s)
MSE Exemption for Years Of Experience/अनुभव के वर्षों से एमएसई छूट/	Yes
Startup Exemption for Years of Experience and Turnover/ अनुभव के वर्षों से स्टार्टअप छूट	No
Document required from seller/विक्रेता से मांगे गए दस्तावेज़	<p>Experience Criteria,Past Performance,Bidder Turnover,Certificate (Requested in ATC),OEM Authorization Certificate,OEM Annual Turnover,Additional Doc 1 (Requested in ATC),Compliance of BoQ specification and supporting document</p> <p>*In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer</p>
Do you want to show documents uploaded by bidders to all bidders participated in bid?/	Yes
Past Performance/विगत प्रदर्शन	50 %
Bid to RA enabled/बिड से रिवर्स नीलामी सक्रिय किया	No
Type of Bid/बिड का प्रकार	Two Packet Bid
Primary product category	Supply of Cat 6A UUTP STP 23 AWG Cable ETL verified
Time allowed for Technical Clarifications during technical evaluation/तकनीकी मूल्यांकन के दौरान तकनीकी स्पष्टीकरण हेतु अनुमत समय	2 Days
Inspection Required (By Empanelled Inspection Authority / Agencies pre-registered with GeM)	No
Estimated Bid Value/अनुमानित बिड मूल्य	9462352
Evaluation Method/मूल्यांकन पद्धति	Total value wise evaluation

Bid Details/बिड विवरण

Arbitration Clause	No
Mediation Clause	No

EMD Detail/ईएमडी विवरण

Advisory Bank/एडवाइजरी बैंक	State Bank of India
EMD Amount/ईएमडी राशि	237000

ePBG Detail/ईपीबीजी विवरण

Advisory Bank/एडवाइजरी बैंक	State Bank of India
ePBG Percentage(%) / ईपीबीजी प्रतिशत (%)	5.00
Duration of ePBG required (Months) / ईपीबीजी की अपेक्षित अवधि (महीने).	38

(a). EMD EXEMPTION: The bidder seeking EMD exemption, must submit the valid supporting document for the relevant category as per GeM GTC with the bid. Under MSE category, only manufacturers for goods and Service Providers for Services are eligible for exemption from EMD. Traders are excluded from the purview of this Policy./जेम की शर्तों के अनुसार ईएमडी छूट के इच्छुक बिडर को संबंधित केटेगरी के लिए बिड के साथ वैध समर्थित दस्तावेज प्रस्तुत करने हैं। एमएसई केटेगरी के अंतर्गत केवल वस्तुओं के लिए विनिर्माता तथा सेवाओं के लिए सेवा प्रदाता ईएमडी से छूट के पात्र हैं। व्यापारियों को इस नीति के दायरे से बाहर रखा गया है।

(b). EMD & Performance security should be in favour of Beneficiary, wherever it is applicable./ईएमडी और संपादन जमानत राशि, जहां यह लागू होती है, लाभार्थी के पक्ष में होनी चाहिए।

Beneficiary/लाभार्थी :

Director

National Institute of Technology (NIT), Meghalaya, Department of Higher Education, Ministry of Education
(Prof. P. Mahanta)**MII Purchase Preference/एमआईआई खरीद वरीयता**

MII Purchase Preference/एमआईआई खरीद वरीयता	Yes
--	-----

MSE Purchase Preference/एमएसई खरीद वरीयता

MSE Purchase Preference/एमएसई खरीद वरीयता	Yes
---	-----

1. If the bidder is a Micro or Small Enterprise as per latest definitions under MSME rules, the bidder shall be exempted from the requirement of "Bidder Turnover" criteria and "Experience Criteria" subject to meeting of quality and technical specifications. If the bidder is OEM of the offered products, it would be exempted from the

"OEM Average Turnover" criteria also subject to meeting of quality and technical specifications. In case any bidder is seeking exemption from Turnover / Experience Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer.

2. The minimum average annual financial turnover of the bidder during the last three years, ending on 31st March of the previous financial year, should be as indicated above in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the bidder is less than 3-year-old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.

3. Experience Criteria: In respect of the filter applied for experience criteria, the Bidder or its OEM {themselves or through reseller(s)} should have regularly, manufactured and supplied same or similar Category Products to any Central / State Govt Organization / PSU for number of Financial years as indicated above in the bid document before the bid opening date. Copies of relevant contracts to be submitted along with bid in support of having supplied some quantity during each of the Financial year. In case of bunch bids, the category of primary product having highest value should meet this criterion.

4. OEM Turn Over Criteria: The minimum average annual financial turnover of the OEM of the offered product during the last three years, ending on 31st March of the previous financial year, should be as indicated in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the OEM is less than 3 year old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.

5. Preference to Make In India products (For bids < 200 Crore): Preference shall be given to Class 1 local supplier as defined in public procurement (Preference to Make in India), Order 2017 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products. The minimum local content to qualify as a Class 1 local supplier is denoted in the bid document. If the bidder wants to avail the Purchase preference, the bidder must upload a certificate from the OEM regarding the percentage of the local content and the details of locations at which the local value addition is made along with their bid, failing which no purchase preference shall be granted. In case the bid value is more than Rs 10 Crore, the declaration relating to percentage of local content shall be certified by the statutory auditor or cost auditor, if the OEM is a company and by a practicing cost accountant or a chartered accountant for OEMs other than companies as per the Public Procurement (preference to Make-in -India) order 2017 dated 04.06.2020. Only Class-I and Class-II Local suppliers as per MII order dated 4.6.2020 will be eligible to bid. Non - Local suppliers as per MII order dated 04.06.2020 are not eligible to participate. However, eligible micro and small enterprises will be allowed to participate. The buyers are advised to refer the OM No.F.1/4/2021-PPD dated 18.05.2023.

[OM No.1 4 2021 PPD dated 18.05.2023](#) for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017.

6. Purchase preference will be given to MSEs having valid Udyam Registration and whose credentials are validated online through Udyam Registration portal 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 themselves of the Purchase preference, the bidder must be the manufacturer / OEM of the offered product on GeM. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises and hence resellers offering products manufactured by some other OEM are not eligible for any purchase preference. 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 and Buyer will decide eligibility for purchase preference based on documentary evidence submitted, while evaluating the bid. If L-1 is not an MSE and MSE Seller (s) has / have quoted price within L-1+ 15% (Selected by Buyer) of margin of purchase preference /price band defined in relevant policy, such MSE Seller shall be given opportunity to match L-1 price and contract will be awarded for 25% (selected by Buyer) percentage of total quantity. The buyers are advised to refer the OM No. F.1/4/2021-PPD dated 18.05.2023 [OM No.1 4 2021 PPD dated 18.05.2023](#) for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017. Benefits of MSE will be allowed only if seller is validated on-line in GeM profile as well as validated and approved by Buyer after evaluation of documents submitted.

7. Estimated Bid Value indicated above is being declared solely for the purpose of guidance on EMD amount and for determining the Eligibility Criteria related to Turn Over, Past Performance and Project / Past Experience etc. This has no relevance or bearing on the price to be quoted by the bidders and is also not going to have any impact on bid participation. Also this is not going to be used as a criteria in determining reasonableness of quoted prices which would be determined by the buyer based on its own assessment of reasonableness and based on competitive prices received in Bid / RA process.

8. Past Performance: The Bidder or its OEM {themselves or through re-seller(s)} should have supplied same or similar Category Products for 50% of bid quantity, in at least one of the last three Financial years before the bid

opening date to any Central / State Govt Organization / PSU. Copies of relevant contracts (proving supply of cumulative order quantity in any one financial year) to be submitted along with bid in support of quantity supplied in the relevant Financial year. In case of bunch bids, the category related to primary product having highest bid value should meet this criterion.

Supply Of Cat 6A UUTP STP 23 AWG Cable ETL Verified

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

Technical Specifications/तकनीकी विशिष्टियाँ

Specification Document	View File
BOQ Detail Document	View File

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्रा

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्रा	Delivery Days/डिलीवरी के दिन
1	Keshav Tamang	793003,NIT MEGHALAYA BIJNI COMPLEX LAITUMKHRAH, SHILLONG	25	42

Supply Of 24 Port Unloaded Modular Straight Jack Panel 1U

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

Technical Specifications/तकनीकी विशिष्टियाँ

Specification Document	View File
BOQ Detail Document	View File

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्र

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्र	Delivery Days/डिलीवरी के दिन
1	Keshav Tamang	793003,NIT MEGHALAYA BIJNI COMPLEX LAITUMKHRAH, SHILLONG	6	42

SITC Of Cat. 6A UTP Modular Jack Outlet Panel End

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

Technical Specifications/तकनीकी विशिष्टियाँ

Specification Document	View File
BOQ Detail Document	View File

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्र

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्र	Delivery Days/डिलीवरी के दिन
1	Keshav Tamang	793003,NIT MEGHALAYA BIJNI COMPLEX LAITUMKHRAH, SHILLONG	130	42

SITC Of CAT6 CAT6A Field Termination Plug Toolless Type IP 20

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

Technical Specifications/तकनीकी विशिष्टियाँ

Specification Document	View File
------------------------	---------------------------

BOQ Detail Document[View File](#)

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्र

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्र	Delivery Days/डिलीवरी के दिन
1	Keshav Tamang	793003,NIT MEGHALAYA BIJNI COMPLEX LAITUMKHRAH, SHILLONG	500	42

Supply Of Cat6A UTP Patch Cord 3 Feet At The Equipment Rack End

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

Technical Specifications/तकनीकी विशिष्टियाँ**Specification Document**[View File](#)**BOQ Detail Document**[View File](#)

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्र

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्र	Delivery Days/डिलीवरी के दिन
1	Keshav Tamang	793003,NIT MEGHALAYA BIJNI COMPLEX LAITUMKHRAH, SHILLONG	260	42

SITC Of Equipment Rack

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

Technical Specifications/तकनीकी विशिष्टियाँ

Specification Document	View File
BOQ Detail Document	View File

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्र

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्र	Delivery Days/डिलीवरी के दिन
1	Keshav Tamang	793003,NIT MEGHALAYA BIJNI COMPLEX LAITUMKHRAH, SHILLONG	1	42

SITC Of Rack Mount Power Distribution Unit

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

Technical Specifications/तकनीकी विशिष्टियाँ

Specification Document	View File
BOQ Detail Document	View File

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्र

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्रा	Delivery Days/डिलीवरी के दिन
1	Keshav Tamang	793003,NIT MEGHALAYA BIJNI COMPLEX LAITUMKHRAH, SHILLONG	1	42

SITC Of Fan Module Mount On Top Cover

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

Technical Specifications/तकनीकी विशिष्टियाँ

Specification Document	View File
BOQ Detail Document	View File

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्रा

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्रा	Delivery Days/डिलीवरी के दिन
1	Keshav Tamang	793003,NIT MEGHALAYA BIJNI COMPLEX LAITUMKHRAH, SHILLONG	1	42

SITC Of 1U Horizontal Cable Organizer With Plastic Loops

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

Technical Specifications/तकनीकी विशिष्टियाँ

Specification Document	View File
BOQ Detail Document	View File

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्र

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्र	Delivery Days/डिलीवरी के दिन
1	Keshav Tamang	793003,NIT MEGHALAYA BIJNI COMPLEX LAITUMKHRAH, SHILLONG	1	42

SITC Of Hardware Screws For Mounting Equipments Pack Of 20 Nos.

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

Technical Specifications/तकनीकी विशिष्टियाँ

Specification Document	View File
BOQ Detail Document	View File

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्र

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्र	Delivery Days/डिलीवरी के दिन
1	Keshav Tamang	793003,NIT MEGHALAYA BIJNI COMPLEX LAITUMKHRAH, SHILLONG	1	42

SITC Of 24 Port Network Switch

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

Technical Specifications/तकनीकी विशिष्टियाँ

Specification Document	View File
BOQ Detail Document	View File

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्र

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्र	Delivery Days/डिलीवरी के दिन
1	Keshav Tamang	793003,NIT MEGHALAYA BIJNI COMPLEX LAITUMKHRAH, SHILLONG	2	42

SITC Of 48 Port Network Switch

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

Technical Specifications/तकनीकी विशिष्टियाँ

Specification Document	View File
BOQ Detail Document	View File

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्र

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्रा	Delivery Days/डिलीवरी के दिन
1	Keshav Tamang	793003,NIT MEGHALAYA BIJNI COMPLEX LAITUMKHRAH, SHILLONG	2	42

10GBase SFPP SMF LC CONNECTOR

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

Technical Specifications/तकनीकी विशिष्टियाँ

Specification Document	View File
BOQ Detail Document	View File

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्रा

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्रा	Delivery Days/डिलीवरी के दिन
1	Keshav Tamang	793003,NIT MEGHALAYA BIJNI COMPLEX LAITUMKHRAH, SHILLONG	8	42

Switch Management License For Existing Ruckus SmartZone Wireless Controller

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

Technical Specifications/तकनीकी विशिष्टियाँ

Specification Document	View File
BOQ Detail Document	View File

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्र

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्र	Delivery Days/डिलीवरी के दिन
1	Keshav Tamang	793003,NIT MEGHALAYA BIJNI COMPLEX LAITUMKHRAH, SHILLONG	4	42

SITC Of Wireless LAN Controller Appliance

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

Technical Specifications/तकनीकी विशिष्टियाँ

Specification Document	View File
BOQ Detail Document	View File

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्र

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्र	Delivery Days/डिलीवरी के दिन
1	Keshav Tamang	793003,NIT MEGHALAYA BIJNI COMPLEX LAITUMKHRAH, SHILLONG	1	42

Wireless AP Management License Per Access Point

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

Technical Specifications/तकनीकी विशिष्टियाँ

Specification Document	View File
BOQ Detail Document	View File

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्र

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्र	Delivery Days/डिलीवरी के दिन
1	Keshav Tamang	793003,NIT MEGHALAYA BIJNI COMPLEX LAITUMKHRAH, SHILLONG	127	42

10GBASE-LR,SFPP SMF LC CONNECTOR For WLC

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

Technical Specifications/तकनीकी विशिष्टियाँ

Specification Document	View File
BOQ Detail Document	View File

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्र

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्रा	Delivery Days/डिलीवरी के दिन
1	Keshav Tamang	793003,NIT MEGHALAYA BIJNI COMPLEX LAITUMKHRAH, SHILLONG	2	42

SITC Of Indoor Wireless AP WiFi 6

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

Technical Specifications/तकनीकी विशिष्टियाँ

Specification Document	View File
BOQ Detail Document	View File

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्रा

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्रा	Delivery Days/डिलीवरी के दिन
1	Keshav Tamang	793003,NIT MEGHALAYA BIJNI COMPLEX LAITUMKHRAH, SHILLONG	50	42

SITC Of Indoor Wireless AP WiFi 6 With Dual-band

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

Technical Specifications/तकनीकी विशिष्टियाँ

Specification Document	View File
BOQ Detail Document	View File

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्र

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्र	Delivery Days/डिलीवरी के दिन
1	Keshav Tamang	793003,NIT MEGHALAYA BIJNI COMPLEX LAITUMKHRAH, SHILLONG	5	42

3 Years Warranty Support For Wireless AP

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

Technical Specifications/तकनीकी विशिष्टियाँ

Specification Document	View File
BOQ Detail Document	View File

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्र

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्र	Delivery Days/डिलीवरी के दिन
1	Keshav Tamang	793003,NIT MEGHALAYA BIJNI COMPLEX LAITUMKHRAH, SHILLONG	55	42

SITC Of Outdoor Wireless Access Point With Omni Directional Inbuilt Antenna

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

Technical Specifications/तकनीकी विशिष्टियाँ

Specification Document	View File
BOQ Detail Document	View File

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्र

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्र	Delivery Days/डिलीवरी के दिन
1	Keshav Tamang	793003,NIT MEGHALAYA BIJNI COMPLEX LAITUMKHRAH, SHILLONG	3	42

3 Year Warranty Support For Outdoor AP

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

Technical Specifications/तकनीकी विशिष्टियाँ

Specification Document	View File
BOQ Detail Document	View File

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्र

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्रा	Delivery Days/डिलीवरी के दिन
1	Keshav Tamang	793003,NIT MEGHALAYA BIJNI COMPLEX LAITUMKHRAH, SHILLONG	3	42

SITC Of Outdoor Wireless Access Point

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

Technical Specifications/तकनीकी विशिष्टियाँ

Specification Document	View File
BOQ Detail Document	View File

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्रा

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्रा	Delivery Days/डिलीवरी के दिन
1	Keshav Tamang	793003,NIT MEGHALAYA BIJNI COMPLEX LAITUMKHRAH, SHILLONG	3	42

Advanced Hardware Replacement For Outdoor AP Typell For 3 Years

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

Technical Specifications/तकनीकी विशिष्टियाँ

Specification Document	View File
BOQ Detail Document	View File

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्र

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्र	Delivery Days/डिलीवरी के दिन
1	Keshav Tamang	793003,NIT MEGHALAYA BIJNI COMPLEX LAITUMKHRAH, SHILLONG	3	42

Mounting Kit For Outdoor AP Type II

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

Technical Specifications/तकनीकी विशिष्टियाँ

Specification Document	View File
BOQ Detail Document	View File

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्र

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्र	Delivery Days/डिलीवरी के दिन
1	Keshav Tamang	793003,NIT MEGHALAYA BIJNI COMPLEX LAITUMKHRAH, SHILLONG	3	42

100GbE QSFP28 To QSFP28 Direct Attached Passive Copper Cable

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

Technical Specifications/तकनीकी विशिष्टियाँ

Specification Document	View File
BOQ Detail Document	View File

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्र

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्र	Delivery Days/डिलीवरी के दिन
1	Keshav Tamang	793003,NIT MEGHALAYA BIJNI COMPLEX LAITUMKHRAH, SHILLONG	2	42

Laying Pulling Of UTP Cat6A Cable Inside PVC GI Conduit Casing Per Meter

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

Technical Specifications/तकनीकी विशिष्टियाँ

Specification Document	View File
BOQ Detail Document	View File

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्र

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्रा	Delivery Days/डिलीवरी के दिन
1	Keshav Tamang	793003,NIT MEGHALAYA BIJNI COMPLEX LAITUMKHRAH, SHILLONG	7625	42

Installation Of 24 Port Jack Panel

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

Technical Specifications/तकनीकी विशिष्टियाँ

Specification Document	View File
BOQ Detail Document	View File

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्रा

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्रा	Delivery Days/डिलीवरी के दिन
1	Keshav Tamang	793003,NIT MEGHALAYA BIJNI COMPLEX LAITUMKHRAH, SHILLONG	6	42

Supply And Fixing Of 18 Guage Thickness Aluminium Galva Nized, Solid Perforated Channel

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

Technical Specifications/तकनीकी विशिष्टियाँ

Specification Document	View File
BOQ Detail Document	View File

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्र

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्र	Delivery Days/डिलीवरी के दिन
1	Keshav Tamang	793003,NIT MEGHALAYA BIJNI COMPLEX LAITUMKHRAH, SHILLONG	250	42

Supply And Fixing Of Metal OFC Route Marker

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

Technical Specifications/तकनीकी विशिष्टियाँ

Specification Document	View File
BOQ Detail Document	View File

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्र

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्र	Delivery Days/डिलीवरी के दिन
1	Keshav Tamang	793003,NIT MEGHALAYA BIJNI COMPLEX LAITUMKHRAH, SHILLONG	50	42

Buyer Added Bid Specific Terms and Conditions/क्रेता द्वारा जोड़ी गई बिड की विशेष शर्तें

1. **Generic**

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 by up to 25% of the contracted quantity during the currency of the contract at the contracted rates. Bidders are bound to accept the orders accordingly.

2. **Scope of Supply**

Scope of supply (Bid price to include all cost components) : Supply Installation Testing and Commissioning of Goods

3. **Warranty**

Warranty period of the supplied products shall be 3 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.

Disclaimer/अस्वीकरण

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.

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 Bid is also governed by the General Terms and Conditions/ यह बिड सामान्य शर्तों के अंतर्गत भी शासित है](#)

In terms of GeM GTC clause 26 regarding Restrictions on procurement from a bidder of a country which shares a land border with India, any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. While participating in bid, Bidder has to undertake compliance of this and any false declaration and non-compliance of this would be a ground for immediate termination of the contract and further legal action in accordance with the laws./जेम की सामान्य शर्तों के खंड 26 के संदर्भ में भारत के साथ भूमि सीमा साझा करने वाले देश के बिडर से खरीद पर प्रतिबंध के संबंध में भारत के साथ भूमि सीमा साझा करने वाले देश का कोई भी बिडर इस निविदा में बिड देने के लिए तभी पात्र होगा जब वह बिड देने वाला सक्षम प्राधिकारी के पास पंजीकृत हो। बिड में भाग लेते समय बिडर को इसका अनुपालन करना होगा और कोई भी गलत घोषणा किए जाने व इसका अनुपालन न करने पर अनुबंध को तत्काल समाप्त करने और कानून के अनुसार आगे की कानूनी कार्रवाई का आधार होगा।

---Thank You/धन्यवाद---



राष्ट्रीय प्रौद्योगिकी संस्थान मेघालय
NATIONAL INSTITUTE OF TECHNOLOGY MEGHALAYA
Bijni Complex, Laitumkhrah, Shillong-793003

Phone : 0364-2501215
Fax : 0364-2501113
Web: <http://nitm.ac.in>

NOTICE INVITING QUOTATION (NIQ) FOR LAN CONNECTION AND WIRELESS ACCESS CONTROLLER AT NIT MEGHALAYA, SOHRA CAMPUS

NIT Meghalaya invites tenders in a two-bid system through GeM Portal <https://gem.gov.in/> from eligible Bidders for “LAN CONNECTION AND WIRELESS ACCESS CONTROLLER AT NIT MEGHALAYA, SOHRA CAMPUS”, as per details at ANNEXURE-IV & V. The first part is the **Technical Bid** which consists of technical requirements and general terms & conditions and the second part is the **Financial Bid**.

Prescribed Tender document, detailed fees and specifications, bid instructions and Terms & Conditions can be downloaded from the GeM Portal https://gem.gov.in. The bidding process (submission and finalization) will be done in online mode at GeM Portal https://gem.gov.in. The bidders may submit their bid only through uploading in the GeM Portal <https://gem.gov.in/>

BID INSTRUCTIONS:

1. After evaluation of technical bids, financial bids of the successful bidders will be opened on a later date which will be duly notified.
2. **Submission of Compliance Certificate:** Duly filled and signed Compliance Certificates (as per formats at Annexure-I & II) are must with the technical bid.
3. **Bid not transferable:** The bid documents are not transferable and the seal and signature of the authorized official of the firms must appear on all the papers and envelopes submitted.
4. The quantity mentioned for each item in the Annexure-V may increase/decrease depending on requirements.
5. GST Registration Certificate should be enclosed along with the tender documents.
6. Relevant catalogue of the items (if any) must be enclosed.
7. **Interested vendors may interact with Dr. A.P. Singh, Assistant Prof. PIC, CC, for any queries.**
8. For e-waybill the successful vendor has to apply online via <https://ewaybill.nic.in/ewb.html>.

SIGNATURE OF BIDDER

BID INSTRUCTIONS:

1. After evaluation of technical bids, the financial bids of the successful bidders will be opened on a later date which will be duly notified.
- 2. Submission of Compliance Certificate:** Duly filled and signed Compliance Certificates (as per formats at **Annexure-I & II**) are must with the technical bid.
- 3. Bid not transferable:** The bid documents are not transferable and the seal and signature of the authorized official of the firms must appear on all the papers and envelopes submitted.
4. The quantity mentioned for each item in the Annexure-V may increase/decrease depending on requirements.
5. GST Registration Certificate should be enclosed along with the tender documents.
6. Relevant catalogue of the items (if any) must be enclosed.
7. Interested vendors may interact with Dr. A.P. Singh, Assistant Professor, Computer Engineering, Department & PIC Computer Centre NIT Meghalaya akhilendra.singh@nitm.ac.in for any queries.
8. For e-waybill the successful vendor has to apply online via <https://ewaybill.nic.in/ewb.html>.

Bidder's Eligibility Criteria

1. Bidder should submit an OEM Authorization Letter from the respective manufacturer to be issued and signed by authorized signatory of the OEM for the cabling and networking products.
2. The Bidder should be in IT Business for the last 10 Years in India and supporting documents must be submitted.
3. Bidder must have their Office in North East region, India for on-site support and GST no, Trade License and Copy of the GST Registration and must be enclosed.
4. Copy of PAN card, Trade License, GST Registration Certificate & MSME Registration certificate must be enclosed along with the Technical BID.
5. Details if any (Address, Email ID and telephone nos) of Support Engineer in Northeast India).
6. The Bidder should have valid ISO 9001:2015, ISO/IEC 27001:2013 and ISO/IEC 20000-1:2018 certificates.
7. The bidder should have executed similar work which must include SITC work of UTP Cabling, Networking Switches, Wireless Controller and Wireless Access Points, etc. with single work order value of not less than Rupees Two Hundred Fifty Lakh (Rs. 250 Lakhs) in any reputed Govt. Institute/ Organization/ PSU in all over India. Copy of Purchase Order or Letter from End customer (preferably Central Govt/ State Govt / PSU) organization must be enclosed as a proof.
8. The Bidder should not have been blacklisted anywhere in India at any point of time. Undertaking from the Bidder from the Director/Proprietor of the Bidding company on their letter head should be submitted along with technical bid.

NIQ TERMS & CONDITIONS:

1. Rates: Rates quoted in the Price Bid should be on DOOR DELIVERY of NIT Meghalaya Sohra Campus , as per details below:

Group:	Item Sl. No.	Item name	
Sl. No.	Particulars		Rate
I	Basic Price (per unit)		
	Discount if any		
	Total		
	GST (pl. break up CGST/SGST/IGST)		
	Total (per unit)		
	Grand total for the items		
II	Transportation charge up to NIT Meghalaya premises (if applicable)		
III	Transit Insurance covering all risk up to 10 days after delivery (if applicable)		
	Grand total on door delivery at NIT Meghalaya Sohra		
IV	Annual Maintenance Contract rate (after expiry of warranty period)		

Note: Vague terms like “packing, forwarding, transportation etc. extra” without mentioning the specific amount will not be accepted. Such offers shall be treated as incomplete and rejected.

Bidders shall indicate their rates in clear/visible figures as well as in words and shall not alter/overwrite/make cutting in the quotation. In case of a mismatch, the rates written in words will prevail. Usage of “White ink” to erase and then rewrite the rates will not be accepted.

Bidders are advised to strike out wrong entries and rewrite clearly beside them. In such cases, the bidder shall have to sign and place their official seal for every corrected entry.

2. Basic price of the items and the taxes must be quoted separately by the vendors.

Tax - inclusive price or as applicable is not acceptable. The basic price and GST must be clearly stated.

3. Quotations have to be submitted in Indian Rupees only. If goods are to be imported, the quotations shall include all charges for customs clearance, clearing agent fees, landing port handling charges, insurance etc. and onward transportation of the goods from the port/airport of landing for door delivery up to NIT Meghalaya, Sohra Campus, Meghalaya.

NIT Meghalaya has a valid registration with the Department of Scientific and Industrial Research (DSIR), Ministry of Science & Technology, Government of India for availing Customs/Central Excise Duty exemption. NIT Meghalaya will provide all necessary certificates, authorizations and documents required for clearing the consignment and for onward transportation upto Shillong.

4. All documents submitted should be self-attested with the seal of the bidder.

5. Bidder must unconditionally accept all terms and conditions stipulated in the tender document and all pages of the bid including all enclosures should be numbered and must be duly filled in, signed and stamped by the bidder or his authorized representative. Offers received without signature and seal on all pages are liable to be rejected.

6. Validity of Quotation: *Quoted rates must be valid for 120 days from the date of quotation.*

7. Warranty: The quoted equipment and components must be warranted for a minimum of **three (03) years** from the date of successful installation and training.

8. Literature must: All the quotations must be supported by the printed technical data sheet/ literature and the specifications mentioned in the quotation must be reflected/ supported by such printed technical data sheet/ literature. The model no. and specifications quoted should invariably be highlighted in the data sheets/ literature for easy reference.

9. Details of supply of similar items to Institutes of National Importance (preferably those located in the Northeastern region) must be provided.

SIGNATURE OF BIDDER

10. **Presentation:** Technically qualified bidders may be called upon to give full presentation of the quoted equipment at NIT Meghalaya campus before opening of Price bid as a support of their Technical Quotations and for any clarifications.

11. **Equipment breakdown:** Any Equipment breakdown must be attended to within 72 hours during the warranty period of the equipment free of cost.

12. **Training:** If required, free training is to be provided to NIT Meghalaya personnel on the operation, installation, training, maintenance and troubleshooting of the supplied items.

13. **After Sales Service: Vendor should clearly state the available nearest after sales service facilities in the North Eastern region, preferably in Meghalaya without which the offer will be rejected.**

14. **Dealership Certificate:** The bidder/tenderer should be either a manufacturer or authorized agent of the foreign/Indian manufacturer. Dealers or Agents quoting on behalf of the Manufacturer must enclose a valid dealership certificate.

15. **Earnest Money:** Refundable Earnest Money Deposit (EMD) of ₹ 2,37,000/- (**Rupees Two Lakh Thirty Seven Thousand**) only through demand draft drawn in favour of National Institute of Technology Meghalaya, payable at Shillong, will have to accompany the technical Bid.

The EMD of unsuccessful bidders shall be returned without any interest after award of contract. EMD of the successful bidder will be released without interest on submission of the Performance Bank Guarantee or delivery of the ordered items, as applicable.

In case of firms registered under NSIC/ MSME, EMD exemption will be given to the permissible extent, as indicated in their Certificate. All vendors claiming exemption must submit copies of their valid NSIC/ MSME registration Certificate duly attested with the seal of the organization (along with the Technical Bid in case of two bid systems). Offers received without Earnest Money or valid Certificate shall be summarily rejected.

16. **Performance Bank Guarantee (PBG):** The successful bidder shall furnish an unconditional PBG (as per format at Annexure III) for 5 % of the Purchase Order value from a Nationalized/Scheduled Bank of India, before release of the payment. Else 5 % of the billed amount will be deducted as security deposit. Where the PBG is obtained by a foreign bank, it shall be endorsed by a Nationalized/Scheduled Indian bank and shall be governed by Indian Laws and be subject to the jurisdiction of courts at Shillong. The PBG shall guarantee that,

- a) The Vendor guarantees satisfactory operation of the Equipment & components against poor workmanship, bad quality of materials used, faulty designs and poor performance.
- b) The Vendor shall, at his own cost, rectify the defects/replace the items supplied, for defects identified during the period of guarantee/warranty.

The PBG shall remain valid for period of sixty days beyond the date of completion of all contractual obligations of the supplier including warranty obligations.

17. Delivery:

a. Time Limit: *Maximum within 4 to 6 weeks from the date of issue of purchase order.*

b. Safe Delivery: All aspects of safe delivery shall be the exclusive responsibility of the vendor. At the destination site, the package will be opened only in the presence of NIT user/representative and vendor's representative. The intact condition of the package and the seal/indicators for not being tampered with, shall form the basis for certifying the receipt in good condition.

c. Insurance: The supplier is to establish 'All Risk Transit Insurance' coverage till door delivery at NIT Meghalaya.

d. Part Delivery: As far as possible no part delivery shall be entertained. However, in extreme cases, acceptance of part delivery shall be a prerogative of the Institute.

e. Penalty for delay in delivery: The date of delivery should be strictly adhered to otherwise the Director, NIT Meghalaya reserves the right not to accept delivery in part or

SIGNATURE OF BIDDER

full. The Director, NIT Meghalaya also reserves the right to impose penalty, as deemed fit, for delay in delivery of the equipment including imposition of Liquidated Damages (LD). The decision of the Director shall be final and binding to all.

18. Genuine Pricing: Vendor is to ensure that quoted price for the particular item is not more than the price quoted to any other customer in India, particularly to IITs/NITs and other Government Organizations. Copy of the latest price list for the quoted item, applicable in India, must be enclosed with the offer.

19. Conditional tenders not acceptable: All the terms and conditions mentioned herein must be strictly adhered to by all the vendors. Conditional tenders shall not be accepted on any ground and shall be rejected straightway. Conditions mentioned in the tender bids submitted by vendors will not be binding on NIT Meghalaya.

20. Payment: 100% payment within 30 (thirty) days from date of delivery, installation, training and acceptance.

21. Enquiry during the course of evaluation not allowed: After opening the Technical Bid, no enquiry from the bidder(s) shall be entertained during the course of evaluation of the tender till final decision is conveyed to the successful bidder(s). However, the Purchase Committee or its authorized representative may make enquiries/seek clarification from the bidders. In such a case, the bidder must extend full cooperation. The bidders may also be asked to arrange demonstration of the offered items, in a short period of notice.

22. At any time prior to the date of submission of bid, NIT Meghalaya may, for any reason, either of its own or in response to a clarification from a prospective bidder, modify the bidding documents by an amendment / corrigendum. **Any such amendment / corrigendum will be duly notified through GeM Portal only.** Prospective bidders are advised to check the GeM website every now and then for any amendment / corrigendum. In order to provide reasonable time to take the amendment into account in preparing the bid, NIT Meghalaya may extend the date and time for submission of bids.

23. The bidders may seek clarification within two (02) days after publishing the tender after which the same shall not be entertained.

24. The acceptance of the quotation will rest solely with the Director, NIT Meghalaya, who in the interest of the Institute is not bound to accept the lowest quotation and reserves the right to himself to reject or partially accept any or all the quotations received without assigning any reasons.

25. Force Majeure:

If the performance of the obligation of either party is rendered commercially impossible by any of the events hereafter mentioned that party shall be under no obligation to perform the agreement under order after giving notice of 15 days from the date of such an event in writing to the other party, and the events referred to are as follows:

- a. Any law, statute or ordinance, order action or regulations of the Government of India,
- b. Any kind of natural disaster, and
- c. Strikes, acts of the Public enemy, war, insurrections, riots, lockouts, sabotage.

26. Termination for default: Default is said to have occurred

- a. If the equipment or any of its components is found having poor workmanship, faulty designs, poor performance and bad quality of materials used.
- b. If the supplier fails to deliver any or all of the services within the time period(s) specified in the purchase order or any extension thereof granted by NIT Meghalaya.
- c. If the supplier fails to perform any other obligation(s) under the contract.

Under the above circumstances NIT Meghalaya may terminate the contract / purchase order in whole or in part and forfeit the EMD/PBG as applicable. In addition to above, NIT

SIGNATURE OF BIDDER

Meghalaya may at its discretion also take the following actions: NIT Meghalaya may procure, upon such terms and in such manner, as it deems appropriate, goods similar to the undelivered items/products and the defaulting supplier shall be liable to compensate NIT Meghalaya for any extra expenditure involved towards goods and services obtained.

27. Applicable Law:

- a. The contract shall be governed by the laws and procedures established by Govt. of India and subject to exclusive jurisdiction of Competent Court and Forum in Shillong / India only.
- b. Any dispute arising out of this purchase shall be referred to the Director, NIT Meghalaya, and if either of the parties hereto is dissatisfied with the decision, the dispute shall be referred to the decision of an Arbitrator, who should be acceptable to both the parties, to be appointed by the Director of the Institute. The decision of such Arbitrator shall be final and binding on both the parties.

Sd/-
Registrar

Encl.: ANNEXURE-I, ANNEXURE-II, ANNEXURE-III, ANNEXURE – IV, ANNEXURE - V

Annexure –I

COMPLIANCE CERTIFICATE FOR NIQ TERMS

(To be enclosed in the Technical bid)

Sl. No.	NIQ Terms and Conditions	Yes/No
01	<u>Bidder's Eligibility Criteria</u> complied?	
02	OEM CREDENTIALS complied?	
03	Rate quoted as per instruction	
04	AMC rate after warranty provided	
05	Validity of quoted rate for 120 days agreed	
06	EMD submitted / appropriate certificate enclosed	
07	PBG term agreed	
08	Payment term agreed	
09	Delivery terms agreed	
10	Warranty period agreed	
11	Literature: Printed Literature provided	
12	Dealership / distributorship certificate (in case of dealers/agents) provided	
13	Details of supply to other Institutes of National Importance provided	
14	Equipment breakdown clause agreed	
15	After Sales Service: address of nearest after Sales Service centre in the region provided	
16	Manufacturer certificate provided	
17	Applicable law terms agreed	

Signature with Seal:.....

Vendor: M/s.....

Annexure -II

COMPLIANCE CERTIFICATE FOR SPECIFICATIONS
(One for each item, must to be enclosed in the Technical bid)

Item Sl. No.		Item Name:	
Quoted Product:	Make:	Model No:	
Specifications as per Annexure-IV		Quoted Item Specifications*	Complied/ Deviation
Parameter	Specification		

Signature with Seal:
Vendor: M/S

*** Vendor must quote the parameter specification of the quoted product in this column and not just copy the specification from the tender call document. Failure to do so will lead to rejection of the tender.**

Annexure -III

PERFORMANCE BANK GUARANTEE

To:
The Director,
National Institute of Technology
Meghalaya Bijni Complex, Laitumkhrah,
Shillong-793 003 Meghalaya

WHEREAS (Name of Supplier)
hereinafter called "the Supplier" has undertaken, in pursuance of Contract No..... dated,..... 20...
to supply. (Description of Goods and Services) hereinafter
called "the order".

AND WHEREAS it has been stipulated by you in the said order that the Supplier shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with the Supplier's performance obligations in accordance with the order.

AND WHEREAS we have agreed to give the Supplier a Guarantee:
THEREFORE, WE hereby affirm that we are Guarantors and responsible to you, on behalf of the Supplier, up to a total of (Amount of the Guarantee in Words and Figures) and we undertake to pay you, upon your first written demand declaring the Supplier to be in default under the order and without cavil or argument, any sum or sums within the limit of
(Amount of Guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until theday of.....20.....

Signature and Seal of Guarantors

.....
.....
.....

Date.....20....

Address:.....

.....
.....

All correspondence with reference to this guarantee shall be made at the following address:

The Director,
National Institute of Technology
Meghalaya Bijni Complex, Laitumkhrah,
Shillong-793 003 Meghalaya

ANNEXURE-IV
(DETAILED TECHNICAL SPECIFICATIONS)

**TECHNICAL SPECIFICATIONS AND COMPLIANCE STATEMENT
FOR THE UTP CABLING & NETWORKING PRODUCTS AS REQUIRED NIT MEGHALAYA**

Bidder must submit required document to support OEM Eligibility and product datasheet for each of the products proposed and mention the reference page numbers to support compliance /variance against each of the line items of technical specifications in the Technical BID. Failure to do so will lead to rejection of the tender

NAME OF THE BIDDER				
1		<u>OEM ELIGIBILITY CRITERIA FOR UTP CABLING PRODUCT :</u>		
		Eligibility Criteria	Compliance (Yes/No)	Cross reference
a		Passive OEM offered must be registered and operating in India for more than at-least 15 years. Copy of Registration in India must be enclosed.		
b		OEM should have members participating in Telecommunications Industry Association (TIA) committee. Membership shall be available for validation at www.tiaonline.org		
c		OEM shall have RCDD certified technical staff based in India.		
d		OEM must have ISO 9001:2015 and ISO 14001 certified manufacturing unit in India, functioning for min. 5 years.		
e		The CAT6A SCS must be tested by globally accredited 3rd Party test facility to the following standards: - ANSI/TIA 568-C.2: Category 6A Channel – 4 connector 3rd Party verification for both 100m Long channel & Short Channel (15m) testing must be provided as part of the bid response. Copies of test reports should be appended to this RFP.		
		TECHNICAL SPECIFICATIONS FOR UTP PRODUCTS & EQUIPMENT RACKS		
1	CAT 6A U/UTP 23 AWG Cable			
		Product Description	Make	
1.1	Mention Details	-		
	Parameter	Specification	Compliance (Yes/No)	Cross Reference
1.2	General	CAT6A U/UTP 23 AWG Cable should meet and exceed ANSI/TIA 568.2-D Category 6A and ISO/IEC 11801 Class EA Specifications.		
1.3		Shall be certified for IEEE 802.3bt Type 4 requirement (4PPoE) upto 60 Deg C under 4 connector channel configuration.		
1.4		Cable shall be constructed with pair separator as well as individual conductor separator.		
1.5		The cable shall have U/UTP jacket construction, without any metallic barrier, to mitigate A-NEXT challenges in CAT6A channel.		
1.6	Outside diameter	The nominal Outside diameter should be within 7.0 - 7.4mm.		

SIGNATURE OF BIDDER

1.7	Electrical properties	Max DC Resistance: <7.61 Ohms/100m		
1.8		Max. Operating voltage: 80 V		
1.9		Frequency: upto 550 Mhz		
1.10		Mutual Capacitance: 6.0 nF/100m @ 1kHz		
1.11	Environmental & Safety features	Operating temperature of -20 to 60 °C		
1.12		ROHS compliant		
1.13		The cable shall have Low-Smoke, Zero Halogen (LSZH) jacketing and must comply with the following Fire Safety standards:		
1.14		1) ISO/IEC 60332-3-22: Vertical Flame Spread		
1.15		2) ISO/IEC 60754-2: Acidity		
1.16		3) ISO/IEC 61034-2: Smoke Density		
1.17		Cable shall be compliant to EN50575 CPR Cable EuroClass and certified for Dca, s2, d2, a1 standards. Certificate should be submitted with bid.		
1.18	Certifications and Test Reports	Category 6A cable along with offered channel components should be certified by Intertek lab under 4 connector channel configuration to the requirement of ANSI/TIA 568-C.2 for long channel (100m) as well as short links (<15m). Test Certificates to be provided with bid.		
1.19		Cable shall be ETL verified as per ANSI/TIA 568.2-D and ISO/IEC 11801 for CAT6A requirements.		
1.20		Factory test reports for CAT6A cable must be available for verification of authenticity, at OEM website with unique print string on individual cable jacket.		
2	24 Port Unloaded Modular Jack Panel			
		Product Description	Make	Model/Part Code
2.1	Mention Details	-	CommScope	CPP-UDDM-M-1U
	Parameter	Specification	Compliance (Yes/No)	Cross Reference
2.2	Type	Modular type Panel to accept upto 24 individual CAT6A jacks		
2.3		Panel shall be available in Straight or angled versions of 24 port (1U) or 48 port (2U)		
2.4		The panel shall be equipped with a removable rear mounted cable management bar and front and rear labels		
2.5	Material	Material shall be Powder coated steel with thermoplastic flame retardant housing		
2.6	UL Listed	The panel shall be UL Listed		
2.7	Operating Temperature	Operating Temperature Range = -10°C to 60°C		
2.8	Humidity	Humidity = 95% (noncondensing)		
2.9	Current Rating	Current Rating – 1.5 A @ 20 °C		
2.10	Dielectric Withstand Voltage	Dielectric Withstand Voltage, RMS – 1500 Vac @ 60 Hz		

SIGNATURE OF BIDDER

2.11	Resistance	Insulation Resistance, minimum – 500 Mohm		
3	Category 6A U/UTP Modular Jack			
		Product Description	Make	Model/Part Code
3.1	Mention Details	-	CommScope	MGS600
	Parameter	Specification	Compliance (Yes/No)	Cross Reference
3.2	General	The CAT6A UTP 8-pin modular (RJ-45) jacks shall have be compliant to ISO/IEC 11801 Class EA and ANSI/TIA-568.2-D Category 6A.		
3.3		Shall support network line speeds up to at least 10 gigabits per second		
3.4		Information outlet shall have IDC connector terminations on rear of base allow quick and easy installation of 22 to 24 AWG cable		
3.5		Each outlet shall be supplied with rear protective strain relief cap to protect against contamination and securing the termination.		
3.6	Electrical properties	The information outlet shall have a Current Rating of 1.5 A at 20°C		
3.7		Insulation Resistance, minimum: 500 Mohm		
3.8		Dielectric Withstand Voltage, RMS, conductive surface: 1,500 Vac @ 60 Hz		
3.9		Dielectric Withstand Voltage, RMS, contact-to-contact : 1,000 Vac @ 60 Hz		
3.10	Mechanical performance:	Material: High-impact, flame retardant, thermoplastic, UL 94V-0 rated		
3.11		Shall be Intertek certified for IEC 60603-7 plug performance.		
3.12		Plug insertion life, Min: 750 cycles		
3.13		Plug retention force, min: 130N		
3.14		Should be UL listed		
4	CAT6/CAT6A Field Termination Plug Toolless Type-IP 20			
		Product Description	Make	Model/Part Code
4.1	Mention Details	-		
	Parameter	Specification	Compliance (Yes/No)	Cross Reference
4.2	Performance	confirms to ANSI / TIA / EIA568C.2-1, ISO / IEC11801, EN50173		
4.3	Support	PoE/PoE+/4PPoE (IEEE 802.3af, 3at, 3bt) 100 watts		
4.4	Built-in PCB	Built-in PCB, to provide excellent connection and low attenuation		
4.5	Features	Confirm to UL-1863		
4.6		Cable installation via IDC strips, color coded according to EIA / TIA568A & B		
4.7		360° shield coverage, cable fixation by srewable boot		
4.8		Accept: 23 ~ 24 AWG stranded & solid cables(copper wire, round type)		
4.9	Body	Full shielded Zinc-alloy diecasting with Nickel-plated		

4.1	Contact Bracket	PC,UL 94V-2		
4.11	PCB Material	FR-4, UL 94V-0		
4.12	Contact Material	Phosphor bronze with Nickel-plated		
4.13	Contact Finishing	15u gold-plated on contact surface		
4.14	IDC Terminal	Phosphor bronze with Tin-plated		
4.15	Cap	PC, UL 94V-2, printed with 568A&B color codes		
4.16	Operating Temperature	-40°C to +70°C (ISO/IEC11801, ANSI/TIA 568C.2)		
4.17	Storage Temperature	-40°C to +60°C		
4.18	Mating Cycles(with RJ45 jack)	750 min.(ISO/EC 11801IEC 60603-7-5)		
4.19	Insertion Force	30N Max.(IEC 60603-7-5)		
4.20	Retention strength	7.7 kg between jack and plug		
4.21	Clamp/Re-Termination	> 200 acc. to ISO/IEC 11801, IEC 60603-7-5		
5	CAT 6A U/UTP RJ45 Patch Cords, 3 ft			
		Product Description	Make	Model/Part Code
5.1	Mention Details	-		
	Parameter	Specification	Compliance (Yes/No)	Cross Reference
5.2	General	CAT6A U/UTP Patch Cord, shall be of 4 pair solid construction, with pair separator.		
5.3		Cords shall be factory terminated with 8-pin modular plugs on each end.		
5.4		Plugs shall be designed with an anti-snag latch to facilitate easy removal during move, add and change processes.		
5.5		The cordage shall be UTP components that do not include internal or external shields, screened components or drain wires.		
5.6	Jacket Safety	Patch Cord shall have LSZH jacket complying with the following Fire Safety standards:		
5.7		ISO/IEC 60332-3-22: Vertical Flame Spread		
5.8		ISO/IEC 60754-2: Acid Gas Emission		
5.9		ISO/IEC 61034-2: Smoke Density		
5.10	plug insertion life	Patch Cord shall have min plug insertion life of 750 cycles.		
5.11	Plug retention force	Min Plug retention force: 130N		
5.12		Shall be ETL certified.		
5.13	Resistance	Patch Cords shall have maximum dc Resistance:0.30 Ohm		
5.14	Safety voltage	Safety voltage rating: 300 V		

5.15	Standard	Must be compliant with the channel specifications of ANSI/TIA 568-C.2.		
5.16		ROHS compliant and EN 50575 compliant.		
6	15U Wall Mount Double Section RACK (600mm D x 700 mm W) :			
		Product Description	Make	Model/Part Code
6.1	Mention Details	-	-	
	Parameter	Specification	Compliance (Yes/No)	Cross Reference
6.2	Material	Racks manufactured out of steel sheet punched, formed, welded and Powder coated		
6.3		Powder coated finish with seven Tanks pre-treatment process meeting IS		
6.4	ISO	Rack should be from ISO 14001 ,27000 Certified Company		
6.5	Side Panel & Top Cover	Standard for Racks configuration will be welded frame with Integrated side panel and vented top cover		
6.6	Front Door	Rack should have Front tinted Glass door		
6.7	Wall Mount	Rack should have provision to mount racks on Wall		
6.8	Dimension	Rack should be 15U(1U = 44.45 mm) in Height.		
6.9		It should be minimum 600MM Wide & 700MM Overall Deep i.e. 600mm Front section and 100mm Rear section		
6.10	Dual Section	Rack should Two Sections and front Section to be Bolted to back section and Back section Fixed to Wall		
6.11	Mounting flexibility	Rack should have Adjustable mounting depth,		
6.12		Rack 4 No Adjustable, 19" verticals with Punched 10mm Square Hole and Universal 12.7mm-15.875mm-15.875mm alternating hole pattern offers greater mounting flexibility, maximizes usable mounting space.		
6.13	U Position	Rack should have Numbered U positions,		
6.14	Industrial standard	Rack should Conform to DIN 41494 or Equivalent EIA /ISO / EN/CEA Standard		
6.15		Rack should have 100% assured compatibility with all equipment conforming to DIN 41494 (General industrial standard for equipment)		
6.16	FAN	Rack should have Fan module Mount Provision on top Cover with minimum 1 no. 90 CFM Fan		
6.17	Power Distribution unit	Rack should have one Server /IT Rack mount power distribution unit, 1Ph, 230V, 16A, 50/60Hz, 2U standard with 6 X Indian Round Pin 5/15A, Inlet Plug type 16A Indian Round Pin, 16A MCB - PDU Rating 3.6KVA/Side feed-1.5Mt/ Black		
6.18	General	Rack should have one Hoz. Cable Manager Loop 1U.		
6.19		Rack should have one Cantilever shelf.		
6.20		Rack should have provision for cable entry Exit from Both top & Bottom.		
6.21		Rack should have 1 Packet of mounting hardware, Pack of 20.		

SIGNATURE OF BIDDER

B		OEM ELIGIBILITY CRITERIA FOR FOR NETWORKING SWITCHES & WIRELESS PRODUCTS			
		Eligibility Criteria	Compliance (Yes/No)	Cross Reference	
a		OEM should have a 24 x 7, Support Center based in India (Details of Support center to be provided by the OEM)			
b		OEM should have local Spare Depot and RMA Facility in India (OEM to provide list of RMA Depots in India)			
c		NBD Shipment & Replacement of Critical Core Network Devices to be facilitated by the OEM			
d		The OEM should be TL9000 certified.			
e		The Quoted Products should be EAL/NDcPP certified			
f		The OEM should have presence in India for more than Ten Years			
g		The Quoted Products, which are part of the solution, namely – Network Switches, Transceivers, Wi-Fi Controllers, Wi-Fi Access Points should be from the same OEM.			
h		The Solution should have a Common Web Based EMS for Wi-Fi and LAN Switching			
i		None of the quoted components should have been announced End of Sale at the time of Bid submission			
j		The OEM should provide Three (3) year support and replacement warranty of the product; a certificate should be provided on the OEM's letter head.			
7	<u>Access Switch Type-I : 24-Port Switch with 24 x 1G Ethernet Port and 4 x 1G/10G/25G SFP28 Slots</u>		-	-	
7.1	Mention Details	-	-		
	Parameter	Specification	Compliance (Yes/No)	Cross Reference	
7.2		The Switch should offer Wire-Speed Non-Blocking Switching & Routing Performance at Layer 2 & Layer 3.			
7.3		The Switch should have minimum Twenty Four (24) 1G RJ45 ports and should have Four (4) 1G/10G/25G SFP28 Slots, from Day 1.			
7.4		The Switch should support Stacking up to 12 Switches with than 100Gbps stacking bandwidth per Switch.			
7.5		The Switch should be able to stack with different models of same switch series of gigabit and multigigabit access switch for future scalability			
7.6		The Switch should provide USB-C serial Port,RJ45 Serial port and RJ45 OOB access for management, it should also provide USB-A Port for remote updates and backup			
7.7		Stacking ports support upto 4x25 GbE SFP28			
7.8		Switching Bandwidth: Should provide Non-Blocking switch fabric capacity of 248 Gbps or more.			
7.9		Forwarding Capacity: Should provide wire-speed packet forwarding of 184 Mpps or more.			
7.10		Should shall have 4Gb DRAM and 8Gb FLASH with 4Mb Packet buffer			

SIGNATURE OF BIDDER

7.11		Should shall aggregated stacking bandwidth of 1.2Tbps		
7.12		Should support for VXLAN for advanced network segmentation and data confidentiality		
7.13		Should support 32K MAC addresses or more.		
7.14		Shall support IP multicast snooping with support for IGMP v1, v2, v3 and MLD v1 & v2		
7.15		Should support Jumbo Frames (up to 9K bytes)		
7.16		Should support Remote Fault Notification (RFN), Link Fault Signaling (LFS), Q-in-Q and selective Q-in-Q, Fast Port Span		
7.17		Should support minimum 16K IPv4 routes or more and 16K Multicast routes or more		
7.18		Should support Basic IPv4 and IPv6 Static Routing, ECMP, Host Routes, Virtual Interfaces, Routed Interfaces, Route Only and Routing between directly connected subnets from day 1.		
7.19		Should support Dynamic IPv4 & IPv6 Routing protocols (OSPFv2 and OSPFv3) and Multicast Routing Protocols.		
7.20		Switch should support RADIUS, TACACS/TACACS+ and username/password for Authentication, Authorization and Accounting (AAA)		
7.21		Should support secure communications to the management interface and system through SSL, Secure Shell (SSHv2), Secure Copy and SNMPv3		
7.22		Should support IP Source Guard, DHCP snooping, DHCPv4, DHCPv6 and Dynamic ARP Inspection.		
7.23		Should support IPv4 and IPv6 ACLs, Trusted Platform Module, RADSEC (RFC 6614), Secure Copy (SCP)		
7.24		Should support Byte and packet based broadcast, multicast, and unknown-unicast limits with suppression port dampening.		
7.25		Should support IPv6 Router Advertisement (RA) Guard.		
7.26		Should support Flexible Authentication with 802.1x Authentication and MAC Authentication.		
7.27		Should support Encrypted Syslog (RFC 5425), Protection against Denial of Service (DoS) attacks, Neighbor Discovery (ND) Inspection		
7.28		Should support manageability using Centralized Management platform using Web based Graphical User Interface (GUI)		
7.29		Should support cloud based management		
7.30		Integrated Standard based Command Line Interface (CLI), Telnet, TFTP, HTTP access to switch management/monitoring		
7.31		Should support SDN features in native as well as hybrid modes		
7.32		Should support Digital Optical Monitoring and Virtual Cable Tester (VCT)		
7.33		Mounting Option: The Switch should be configured with 19" Universal rack mount kit.		
7.34		PoE Power Budget: The PoE Switch should provide a minimum of 370 watts of PoE+ power.		
7.35		All categories of Switches, Transceivers & Switch OS should be from same OEM		

SIGNATURE OF BIDDER

7.36		All Switch should be certified by NDcPP/ TEC (TELECOMMUNICATION ENGINEERING CENTRE) of DOT as notified vide Indian Telegraph (Amendment) Rules, 2017		
7.37		The switch should have MTBF of >1.5 Million Hours at 25° C		
7.38		The Switch should be quoted with remote TAC Support for 3 years		
7.39		The Switch should be provided with Lifetime Warranty and 3 Years NBD support		
8	<u>Access Switch Type-II : 48-Port Switch with 48 x 1G Ethernet Port and 4 x 1G/10G/25G SFP28 Slots</u>		-	-
		Product Description	Make	Model/Part Code
8.1	Mention Details	-	-	
	Parameter	Specification	Compliance (Yes/No)	Cross Reference
8.2		The Switch should offer Wire-Speed Non-Blocking Switching & Routing Performance at Layer 2 & Layer 3.		
8.3		The Switch should have minimum Fourty Eight (48) 1G RJ45 ports and should have Four (4) 1G/10G/25G SFP28 Slots, from Day 1.		
8.4		The Switch should support Stacking up to 12 Switches with than 100Gbps stacking bandwidth per Switch.		
8.5		The Switch should be able to stack with different models of same switch series of gigabit and multigigabit access switch for future scalability		
8.6		The Switch should provide USB-C serial Port,RJ45 Serial port and RJ45 OOB access for management, it shoould also provide USB-A Port for remote updates and backup		
8.7		Stacking ports support upto 4x25 GbE SFP28		
8.8		Switching Bandwidth: Should provide Non-Blocking switch fabric capacity of 296 Gbps or more.		
8.9		Forwarding Capacity: Should provide wire-speed packet forwarding of 220 Mpps or more.		
8.10		Should shall have 4Gb DRAM and 8Gb FLASH with 4Mb Packet buffer		
8.11		Should shall aggregated stacking bandwidth of 1.2Tbps		
8.12		Should support for VXLAN for advanced network segmentation and data confidentiality		
8.13		Should support 32K MAC addresses or more.		
8.14		Shall support IP multicast snooping with support for IGMP v1, v2, v3 and MLD v1 & v2		
8.15		Should support Jumbo Frames (up to 9K bytes)		
8.16		Should support Remote Fault Notification (RFN), Link Fault Signaling (LFS), Q-in-Q and selective Q-in-Q, Fast Port Span		
8.17		Should support minimum 16K IPv4 routes or more and 16K Multicast routes or more		

8.18		Should support Basic IPv4 and IPv6 Static Routing, ECMP, Host Routes, Virtual Interfaces, Routed Interfaces, Route Only and Routing between directly connected subnets from day 1.		
8.19		Should support Dynamic IPv4 & IPv6 Routing protocols (OSPFv2 and OSPFv3) and Multicast Routing Protocols.		
8.20		Switch should support RADIUS, TACACS/TACACS+ and username/password for Authentication, Authorization and Accounting (AAA)		
8.21		Should support secure communications to the management interface and system through SSL, Secure Shell (SSHv2), Secure Copy and SNMPv3		
8.22		Should support IP Source Guard, DHCP snooping, DHCPv4, DHCPv6 and Dynamic ARP Inspection.		
8.23		Should support IPv4 and IPv6 ACLs, Trusted Platform Module, RADSEC (RFC 6614), Secure Copy (SCP)		
8.24		Should support Byte and packet based broadcast, multicast, and unknown-unicast limits with suppression port dampening.		
8.25		Should support IPv6 Router Advertisement (RA) Guard.		
8.26		Should support Flexible Authentication with 802.1x Authentication and MAC Authentication.		
8.27		Should support Encrypted Syslog (RFC 5425), Protection against Denial of Service (DoS) attacks, Neighbor Discovery (ND) Inspection		
8.28		Should support manageability using Centralized Management platform using Web based Graphical User Interface (GUI)		
8.29		Should support cloud based management		
8.30		Integrated Standard based Command Line Interface (CLI), Telnet, TFTP, HTTP access to switch management/monitoring		
8.31		Should support SDN features in native as well as hybrid modes		
8.32		Should support Digital Optical Monitoring and Virtual Cable Tester (VCT)		
8.33		Mounting Option: The Switch should be configured with 19" Universal rack mount kit.		
8.34		PoE Power Budget: The PoE Switch should provide a minimum of 370 watts of PoE+ power.		
8.35		All categories of Switches, Transceivers & Switch OS should be from same OEM		
8.36		All Switch should be certified by NDcPP/ TEC (TELECOMMUNICATION ENGINEERING CENTRE) of DOT as notified vide Indian Telegraph (Amendment) Rules, 2017		
8.37		The switch should have MTBF of >1.2 Million Hours at 25° C		
8.38		The Switch should be quoted with remote TAC Support for 3 years		
8.39		The Switch should be provided with Lifetime Warranty and 3 Years NBD support		
9	Wireless LAN Controller with 4 x 10G SFP+ ports with Redundant Power Supply and Redundant FAN			
		Product Description	Make	Model/Part Code

9.1	Mention Details	-	-	
	Parameter	Specification	Compliance (Yes/No)	Cross Reference
9.2	Essential Features	The WLC Management can be in physical appliance/virtual appliance or Cloud based management platform.		
9.3		WLC should have Easy Setup through UPnP Network Discovery and Installation Wizard.		
9.4		Controller should support 400 AP from day one and should be scalable up to 6000 APs in single hardware/in clustered configuration. OEM/Bidder should provide hardware controller only. Virtual or Cloud controller should not be taken in to consideration as per the project guideline.		
9.5		Each Controller should have capacity to handle minimum 20,000 or more Concurrent devices.		
9.6		each controller should support integrated user authentication capability of minimum 20,000 users without the need for any external database servers (AD/LDAP).		
9.7		Redundancy Features: WLC Must support Active: Active with N+1 redundancy. The proposed WLC must have Redundant Power Supply from day 1.		
9.8		Controller should support minimum 1000 WLAN's.		
9.9		Controller should provide air-time fairness between these different speed clients – slower clients should not be starved by the faster clients and faster clients should not adversely affected by slower clients.		
9.10		Ability to map SSID to VLAN and dynamic VLAN support for same SSID.		
9.11		support automatic channel selection for interference avoidance.		
9.12		The WLAN solution should support client troubleshooting feature that allows an administrator to focus on a specific client device and its connectivity status. The tool should track the step-by-step progress of the client's connection, through 802.11 stages, RADIUS, EAP authentication, captive portal redirects, encryption key setup, DHCP, roaming, and more (depending on WLAN type).		
9.13		The WLAN solution should support in built spectrum analysis feature.		
9.14		The controller should support the ability to create different zones in which AP can be grouped logically or physically based on location eg different buildings in a campus can be configured as different zones so that each zone will have different configuration and policies.		
9.15		External Captive Portal Integration - Web-services based API for external web-portals to integrate with the controller		
9.16		should have the capability to limit/prevent clients from using static IP addresses thereby enhancing network efficiency and preventing network conflicts.		
9.17		WLC should support Hotspot 2.0 (passpoint).		
9.18	Auto Deployment of AP's at different locations	Access points can discover controllers on the same L2 domain without requiring any configuration on the access point.		
9.19		Access points can discover controllers across Layer-3 network through DHCP or DNS option		

9.20	Security Monitoring &	Controller should support following for security & Authentication:		
9.21		WIRELESS SECURITY & Authentication: Open, 802.1x/EAP, PSK, WISPr, WPA, WPA2-AES, WPA-TKIP, WEP,EAP-SIM, EAP-AKA over WLAN for 802.1x, Authentication through external Radius /Directory services.		
9.22		WLC should support WIDS/WIPS for security including Rogue AP detection and prevention, Evil-twin/AP spoofing detection and Ad-Hoc detection.		
9.23		WLC Should support L2 Client Isolation so User cannot access each other's devices. Isolation should have option to apply on AP or SSID's.		
9.24		Support for Walled garden "Walled Garden" functionality to allow restricted access to select destinations by unauthorized wireless users.		
9.25		The proposed architecture should be based on controller based Architecture with thick AP deployment. While Encryption / decryption of 802.11 packets should be able to perform at the AP.		
9.26		WLC should support OS/Device finger printing, Bandwidth rate limit, VLAN mapping.		
9.27		WLC should support Mesh.		
9.28		WLC should be able to present a customizable dashboard with information on the status of the WLAN network.		
9.29		WLC should be able to raise critical alarms by sending an email. The email client on the controller should support SMTP outbound authentication and TLS encryption.		
9.30		WLC or integrated solution should provide customized reporting with minimum 15 days of historical WLAN information.		
9.31		Filtering of Alarms and event Log based on APs, SSID or Zones		
9.32		Syslog support towards external syslog server		
9.33	QoS features	per SSID or dynamic Per user bandwidth Rate Limiting		
9.34		Self-healing (on detection of RF interference or loss of RF coverage) and vendor should provide their Interference mitigation techniques.		
9.35		System must support Band Steering where 5 Ghz clients are forced to connect over 5Ghz Radio to provide better load balancing among 2.4Ghz and 5Ghz Radios.		
9.36		WLC shall support Quality of Service features like 802.11e based QoS enhancements, WMM or equivalent and U-APSD to provide best performance on Video applications.		
9.37	Client/Guest Management	WLC should provide a Guest Login portal in order to authenticate users that are not part of the organization.		
9.38		WLC should be able to provide a web-based application that allows non-technical staff to create Guest accounts with validity for fixed duration like hours or days.		
9.39		Social Login Support: OAuth 2.0 WLAN allows end-user to access the Internet if its authentication by the OAuth 2.0 provider (Facebook, Google, LinkedIn, Microsoft		
9.40	Other Requirements	Controller should be FCC certified. Should comply to certifications EN55022, EN61000, EN60950, LVD.		

10	INDOOR WIRELESS ACCESS POINT- TYPE-I		-	-
		Product Description	Make	Model/Part Code
10.1	Mention Details	-	-	
	Parameter	Specification	Compliance (Yes/No)	Cross Reference
10.2		The APs should support the IEEE 802/11 a/b/g/n/ac/ax with dual radio capabilities conforming to Wi-Fi 6 standard.		
10.3		The AP should support 2x2:2 MIMO on both the bands. It should support minimum 1200 Mbps data rates on 5 GHz and minimum 570 Mbps data rates on 2.4GHz.		
10.4		The AP shall have one 1Gbps Ethernet port. Additionally, it should have an USB port for hosting Internet-of-Things (IoT) devices such as Bluetooth Low Energy (BLE) smart beacons.		
10.5		The access points should manage as standalone, Hardware/virtual controller/Controller less and Cloud based.		
10.6		The access point should be able to operate in full MIMO mode and the necessary power POE/POE+ should be provided.		
10.7		Security mechanisms should be in place to protect the communication between the Access Point controller and the Access Points.		
10.8		The AP should have an option to be powered up through DC power in addition to POE.		
10.9		The AP should have a receive sensitivity of -96dBm.		
10.10		The AP should provide an antenna gain of minimum 3dBi on both the bands.		
10.11		The AP should support 20, 40,80 MHz channelization.		
10.12		The access point should be able to detect clients that have dual band capability and automatically steer those clients to use the 5GHz band instead of the 2.4GHz band.		
10.13		The AP should provide minimum Tx Power of 22dBm on both the bands		
10.14		The access point should support 802.1q VLAN tagging		
10.15		The access point should support WPA-PSK, WPA-TKIP, WPA2 AES, WPA3, 802.11i security.		
10.16		The Access Point should provide for concurrent support for high definition IP Video, Voice and Data application without needing any configuration change. This feature should be demonstrable.		
10.17		The Access Point should support WMM, Power Save, Tx Beamforming, LDPC, STBC,		
10.18		802.11r/k/v.		
10.19		The AP should have the capability to support minimum 15 BSSID		
10.20		Should support 250 or more clients per AP.		
10.21		Should support IPv6 dual stack from day one		
10.22		The Access Point should support mesh configuration either directly or through the controller.		
10.23		The Access Point should support rate limiting, application recognition and control, Access Control lists and device fingerprinting.		

10.24		Operating Temperature: 0°C to 40°C. Operating Humidity: up to 95% non-condensing.		
10.25		Should be plenum rated and comply to RoHS		
10.26		Should be WI-FI certified and WPC approved.		
10.27		Mechanism for physical device locking using padlock /Kensington lock / equivalent		
10.28		Should have OEM TAC support and hardware replacement warranty for 3 Years.		
11	<u>INDOOR WIRELESS ACCESS POINT - TYPE - II</u>		-	-
		Product Description	Make	Model/Part Code
11.1	Mention Details	-	-	
	Parameter	Specification	Compliance (Yes/No)	Cross Reference
11.2		The APs should support the IEEE 802/11a/b/g/n/ac/ax with dual radio capabilities conforming to Wi-Fi 6 standard.		
11.3		The AP should support 4x4:4 MIMO on 5 GHz and 2x2:2 on 2.4 GHz bands. It should support minimum 2400 Mbps data rates on 5 GHz and minimum 570 Mbps data rates on 2.4GHz.		
11.4		The AP shall have One 2.5Gbps Ethernet port and one 1Gbps Ethernet port. Additionally it should have an USB port for hosting Internet-of-Things (IoT) devices such as Bluetooth Low Energy (BLE) smart beacons.		
11.5		The access points should manage as standalone, Hardware/virtual controller/Controller less and Cloud based.		
11.6		The access point should be able to operate in full MIMO mode and the necessary power POE/POE+ should be provided.		
11.7		Security mechanisms should be in place to protect the communication between the Access Point controller and the Access Points.		
11.8		The AP should have an option to be powered up through DC power in addition to POE.		
11.9		The AP should have a receive sensitivity of -96dBm.		
11.10		The AP should provide an antenna gain of minimum 3dBi on both the bands.		
11.11		The AP should support 20, 40, 80, 160 MHz channelization.		
11.12		The access point should be able to detect clients that have dual band capability and automatically steer those client to use the 5GHz band instead of the 2.4GHz band.		
11.13		The AP should provide minimum Tx Power of 23dBm on both the bands		
11.14		The access point should support 802.1q VLAN tagging		
11.15		The access point should support WPA-PSK, WPA-TKIP, WPA2 AES, WPA3, 802.11i security.		

11.16		The Access Point should provide for concurrent support for high definition IP Video, Voice and Data application without needing any configuration change. This feature should be demonstrable.		
11.17		The Access Point should support WMM, Power Save, Tx Beamforming, LDPC, STBC,		
11.18		802.11r/k/v.		
11.19		Should support 500 or more clients per AP.		
11.20		Should support IPv6 dual stack from day one		
11.21		The Access Point should support mesh configuration either directly or through the controller.		
22.22		The Access Point should support rate limiting, application recognition and control, Access Control lists and device fingerprinting.		
11.23		Operating Temperature: 0 °C to +40 °C (+32 °F to +104 °F). Operating Humidity: up to 95% non-condensing.		
11.24		Should be plenum rated and comply to RoHS		
11.25		Should be WiFi certified and WPC approved.		
11.26		Mechanism for physical device locking using padlock /Kensington lock / equivalent		
11.27		Should have OEM TAC support and hardware replacement warranty for 3 Years.		
12	<u>OUTDOOR WIRELESS ACCESS POINT - TYPE-I</u>		-	-
		Product Description	Make	Model/Part Code
12.1	Mention Details	-	-	
	Parameter	Specification	Compliance (Yes/No)	Cross Reference
12.2		The APs should support IEEE 802/11a/b/g/n/ac/ax standards with Dual Band Concurrent 2x2:2 streams (2.4GHz) + 2x2:2 streams (5GHz)		
12.3		The proposed access point should be 802.11ax (Wi-Fi 6) and Operate in dual band radio.		
12.4		The AP Should supports on both bands for the capacity of 2.4GHz 802.11b/g/n/ac/ax 574 Mbps and 5 GHz 802.11b/g/n/ac/ax 1200 Mbps		
12.5		The AP shall have 1 ports, auto MDX, auto-sensing 10/100/1000 Mbps, RJ-45 port and 1 USB 2.0 port		
12.6		The access points should manage as standalone, Hardware/virtual controller/Controller less and Cloud based.		
12.7		The Outdoor AP should support 40 MHz channelization on 2.4GHz and 20/40/80 MHz channelization on 5 GHz. It should also support MU-MIMO.		
12.8		The access point should be able to operate in full MIMO mode with 802.3af/at POE.		
12.9		Security mechanisms should be in place to protect the communication between the Access Point controller and the Access Points.		

12.10		Since most radio interference come from the WLAN network itself the vendor should specify what mechanisms such as beam steering/ adaptive antenna technology/ beamforming are available in combination to focus the energy on the destination STA and minimize radio interference with the surrounding of the AP. The vendor should specify if the activation of such feature is still compatible with 802.11n spatial multiplexing.		
12.11		Since the WLAN network will be using an unlicensed band, the solution should have mechanisms that reduce the impact of interference generated by other radio equipment operating in the same band. Please Describe techniques supported.		
12.12		The access point should be able to detect clients that have dual band capability and automatically steer those clients to use the 5GHz band instead of the 2.4GHz band.		
12.13		The antennas to be dual polarised and should be integrated inside the access point enclosure to minimize damage and create a low-profile unit that does not stand out visually. The antennas could be omnidirectional or directional as per the requirement or site survey done by the vendor.		
12.14		The access point should support 802.1q VLAN tagging		
12.15		The access point should support WPA2/3 enterprise authentication. AP should support Authentication via 802.1X and Active Directory.		
12.16		Implement Wi-Fi alliance standards WMM, 802.11d, 802.11h and 802.11e		
12.17		The Access Point should provide for concurrent support for high definition IP Video, Voice and Data application without needing any configuration change. This feature should be demonstrable.		
12.18		Channel selection based on measuring throughput capacity in real time and switching to another channel should the capacity fall below the statistical average of all channels without using background scanning as a method.		
12.19		Should support Transmit power tuning in 1dB increments in order to reduce interference and RF hazards		
12.20		Device antenna gain (integrated) must be at least 3dBi.		
12.21		Up to 161BSSIDs on 2.4G radio and 5G radio for multiple differentiated user services (e.g. voice).		
12.22		Should support 500 or more clients per AP and SSID up to 31 per AP		
12.24		Should support IPv6 from day one		
12.25		For troubleshooting purposes, the administrator should have the ability to remotely capture 802.11 and / or 802.3 frames from an access point without disrupting client access.		
12.26		Operating Temperature		
12.27		-20°C to 65°C		
12.28		. Operating Humidity: up to 95% non-condensing.		
12.29		The Outdoor AP should be IP67 rated & Wind Survivability Up to 266km/h (165 mph)		
12.30		Should be WiFi certified and WPC approved; ETA certificate to be enclosed		
12.31		Mechanism for physical device locking using padlock /Kensington lock / equivalent		

12.32		Should have OEM TAC support and hardware replacement warranty for 3 Years.		
13	<u>OUTDOOR WIRELESS ACCESS POINT - Type II</u>		-	-
		Product Description	Make	Model/Part Code
13.1	Mention Details	-	-	
	Parameter	Specification	Compliance (Yes/No)	Cross Reference
13.2		The APs should support IEEE 802/11a/b/g/n/ac/ax standards with Dual Band Concurrent 4x4:4 streams (2.4GHz) + 4x4:4 streams (5GHz)		
13.3		The proposed access point should be 802.11ax (Wi-Fi 6) and Operate in dual band radio.		
13.4		The AP Should supports eight spatial streams on both bands for the capacity of 2.4GHz 802.11b/g/n/ac/ax 1148 Mbps and 5 GHz 802.11b/g/n/ac/ax 2400 Mbps		
13.5		The AP shall have 2 ports, auto MDX, auto-sensing 10/100/1000 Mbps, RJ-45 and 100/1000/2500 Mbps RJ-45. It should also have a SFP+ Interface – alternate to Ethernet, providing an integrated high speed backhaul. The second Ethernet port can be used for PoE Output to daisy chain and power APs (ideal for a mesh AP).		
13.6		The access points should be centrally managed capacity as well to work as standalone.		
13.7		The access point shall support Link Aggregation (LACP) to maximize the backhaul bandwidth using both Ethernet ports.		
13.8		The Outdoor AP should support 40 MHz channelization on 2.4GHz and 20/40/80+80/160 MHz channelization on 5 GHz. It should also support MU-MIMO and OFDMA		
13.9		The access point should be able to operate in full MIMO mode with 802.3af/at POE. Alternatively, the AP should also support AC Input: 100-240 Vac.		
13.10		Security mechanisms should be in place to protect the communication between the Access Point controller and the Access Points.		
13.11		Since most radio interference come from the WLAN network itself the vendor should specify what mechanisms such as beam steering/ adaptive antenna technology/ beamforming are available in combination to focus the energy on the destination STA and minimize radio interference with the surrounding of the AP. The vendor should specify if the activation of such feature is still compatible with 802.11n spatial multiplexing.		
13.12		Since the WLAN network will be using an unlicensed band the solution should have mechanisms that reduce the impact of interference generated by other radio equipment operating in the same band. Please Describe techniques supported.		
13.13		The access point should be able to detect clients that have dual band capability and automatically steer those client to use the 5GHz band instead of the 2.4GHz band.		
13.14		The antennas to be dual polarised and should be integrated inside the access point enclosure to minimize damage and create a low profile unit that does not stand out visually. The antennas could be omnidirectional or directional as per the requirement or site survey done by the vendor.		

13.15		The access point should support 802.1q VLAN tagging		
13.16		The access point should support WPA2/3 enterprise authentication. AP should support Authentication via 802.1X and Active Directory.		
13.17		Implement Wi-Fi alliance standards WMM, 802.11d, 802.11h and 802.11e		
13.18		The Access Point should provide for concurrent support for high definition IP Video, Voice and Data application without needing any configuration change. This feature should be demonstrable.		
13.19		Channel selection based on measuring throughput capacity in real time and switching to another channel should the capacity fall below the statistical average of all channels without using background scanning as a method.		
13.20		Should support Transmit power tuning in 1dB increments in order to reduce interference and RF hazards		
13.21		Device antenna gain (integrated) must be at least 3dBi.		
13.22		Up to 31BSSIDs on 2.4G radio and 5G radio for multiple differentiated user services (e.g. voice).		
13.23		Should support UPTO 1024 clients per AP.		
13.24		Should support 50 Concurrent VoIP Clients		
13.25		Should support IPv6 from day one		
13.26		For troubleshooting purposes, the administrator should have the ability to remotely capture 802.11 and / or 802.3 frames from an access point without disrupting client access.		
13.27		Operating Temperature		
13.28		-40°F (-40°C) to 149°F (65°C)		
13.29		. Operating Humidity: up to 95% non-condensing.		
13.30		The Outdoor AP should be IP67 rated.		
13.31		Should be WiFi certified and WPC approved; ETA certificate to be enclosed		
13.32		EN 62311:2008, FCC OET-65 (Annex A, Table 1), ICNIRP:2010 (address RF Exposure below 10MHz)		
13.33		Mechanism for physical device locking using padlock /Kensington lock / equivalent		

SIGNATURE OF BIDDER

ANNEXURE – V

Sl. No	Item Description	Qty	UOM
1	Supply of Cat 6A U/UTP/STP 23 AWG Cable, ETL verified, LSZH 332-3 - Roll of 305 Mtrs	25	boxes
2	Supply of 24-port unloaded Modular Straight Jack Panel 1U, with rear cable management	6	Nos
3	SITC of Cat. 6A UTP Modular Jack Outlet, panel end	130	nos
4	SITC of CAT6/CAT6A Field Termination Plug Toolless Type-IP 20	500	nos
5	Supply of Cat6A UTP Patch Cord - 3 feet at the Equipment Rack End	260	nos
	EQUIPMENT RACKS-Additional Requirement		
6	SITC of Equipment Rack - 15 U Wall Mount Rack (600mmD x 700mmW) DUAL SECTION : with front section - 15U x 600 mm x 600 mm and rear section - 15U x 600mm x 100 mm, lockable Glass door, side panel with hinges and slam latches and following accessories:	1	nos
7	SITC of Rack mount power distribution unit, 1Ph, 230V, 8A, 50/60Hz, 2U standard with 6 X Universal Pin 5A/15A, Inlet Plug type 6A/16A Universal / Round Pin, 8A Fuse - PDU Rating 1.8KVA/Side feed-1.5Mt/ Black	1	no
8	SITC of Fan module Mount on top Cover with 1 fan 230VAC 90 CFM	1	no
9	SITC of 1U Horizontal Cable Organizer with Plastic Loops	1	no
10	SITC of Hardware Screws for mounting equipments pack of 20 Nos.	1	pkts
B	Networking Switches, Wireless Controller and Wireless Access Points		
11	SITC of 24-Port Network Switch - 24 with 24× 10/100/1000 Mbps RJ-45 ports and 4× 1/10/25 GbE uplink/stacking SFP28 ports	2	nos
12	SITC of 48-Port Network Switch - 48 with 48 x 10/100/1000 BaseT Ethernet Ports and 4 x 1/10/25 GbE uplink/Stacking SFP28 Ports	2	nos
13	10GBase SFPP SMF LC CONNECTOR-for connecting Network Switch on uplink on 10G	8	nos
14	Switch management license for existing Ruckus SmartZone Wireless Controller, SZ-100/vSZ 5.X/SZ300, 1 per Ruckus ICX switch.	4	nos
15	SITC of Wireless LAN Controller Appliance with with 4x10GigE and 4 GigE ports, with redundant Power Supply, Redundant FAN and 3 years Warranty.	1	no
16	Wireless AP Management License per Access Point	127	nos
17	10GBASE-LR,SFPP SMF LC CONNECTOR-for WLC	2	nos
18	Indoor AP - Wi-Fi6 : Type-I SITC of Indoor Wireless AP WiFi 6 : dual-band 802.11abgn/ac/ax Wireless Access Points, 2x2:2 streams (2.4GHz/5GHz) OFDMA, MU-MIMO, 802.3af PoE support. 1 USB 2.0 Port, Type A, two 1G RJ 45 interface Includes Mounting Bracket	50	nos

SIGNATURE OF BIDDER

19	Indoor AP Wi-Fi-6 : Type-II : SITC of Indoor Wireless AP WiFi 6 with dual-band 802.11abgn/ac/ax Wireless Access Point with Multi-Gigabit Ethernet backhaul, 4x4:4 + 2x2:2 streams, OFDMA, MU-MIMO, dual ports, PoH/uPoE/802.3at PoE support. Includes Secure Mounting Bracket.	5	nos
20	3 years Warranty Support for Wireless AP	55	nos
21	Outdoor AP- Wi-Fi 6 - Type I : SITC of Outdoor Wireless Access Point with omni directional in-built antenna, Wi-Fi 6, 802.11ax 2x2:2, dual band concurrent. One Ethernet port, PoE input. -20°C to 65°C Operating Temperature. Includes mounting bracket.	3	nos
22	3 year Warranty Support for Outdoor AP	3	nos
23	Outdoor AP Wi-Fi 6 - Type-II : SITC of Outdoor Wireless Access Point, 4x4:4 Stream, Omnidirectional coverage, 2.4GHz and 5GHz concurrent dual band, (1x) 2.5G Ethernet port, (1x) 10/100/1000 Ethernet port, 100-240 Vac, POE in and PSE out, Fiber SFP/SFP+, GPS, IP-67 Outdoor enclosure, -40 to 65C Operating Temperature.	3	nos
24	Advanced Hardware Replacement for Outdoor AP Type-II for 3 years	3	nos
25	Mounting Kit for Outdoor AP Type-II	3	nos
26	100GbE QSFP28 to QSFP28 Direct Attached, Passive Copper Cable, 3 m for connecting Existing Ruckus Core Switch ICX 7850 on HA with 100Gbps Link	2	nos
27	Laying/Pulling of UTP Cat6A cable inside PVC / GI Conduit/Casing per meter	7625	mtrs
28	Installation of 24-Port Jack Panel	6	nos
29	Supply & Fixing of 18 gauge thickness Aluminium / Galvanized, solid/perforated channel with top cover having dimensions as 100 mm width, 25 mm height -to be used with required accessories for floor surface cabling in the computer LABs	250	mtrs
30	Supply and fixing of Metal OFC Route Marker- 3 feet length with 1.5 feet fixed under the ground using Cement & Mortar	50	nos

Signature with Seal:

Vendor: M/S

*** Vendor must quote the parameter specification of the quoted product in this column and not just copy the specification from the tender call document. Failure to do so will lead to rejection of the tender.**
