

1. Corrigendum - GEM/2020/B/747664
2. The item/items in this bid should be quoted as per the Technical Specifications given in Annexure-I.
3. In the specification wherever support for a feature has been asked for it will mean that the feature should be available without RailTel requiring any other hardware/software/licenses. Thus all hardware/software/licenses required for enabling the support/feature shall be included in the offer.
4. OEM or Authorized distributor/Partner of OEM should have a registered office in India to provide sales and 24x7 support in India. The certificate to this effect should be submitted. The bidder should be either OEM or his authorized dealer/distributor.
5. In case of the authorized distributor/partner certificate from the OEM to this effect should be submitted. If OEM is quoting then OEM should submit the certificate.
6. Equipment offered shall have complete data sheets and detailed description on OEM web sites.
7. Bidder shall submit the detailed BOM of the equipment offered duly verified and certified by the respective OEM.
8. GSTIN ID of vendor should be provided from where goods will be supplied.
9. Inspection : Pre- Shipment/Pre-dispatch inspection shall be carried out at manufacturer's/supplier's works by RailTel's authorized representative.
10. Eligibility Criteria for OEM:
 - a. The Equipment offered by the OEM or equipment of the same series/family from the same OEM should have been satisfactorily working in Government/PSUs/Telecom Service Providers network for at least 12 months as on opening of bid in India or Abroad. The certificates from the actual users will have to be submitted online.
 - b. The OEM should have supplied at least 35% of the tendered quantity of the equipment offered or equipment of the same series/family during last preceding 3 financial years (i.e. current year and three previous financial years) as on opening of bid to Government/PSUs/Telecom Service Providers. OEM should submit self-certificate with proper contact detail of clients along with quantities supplied (Firm Name Contact person Designation Telephone Number Fax Official mail id etc.). The same should be issued by authorized signatory. (bidder has to submit the certificate to this effect from the OEM.)
 - c. The OEM should have proven facilities for Engineering manufacture assembly integration and testing of Switches and SFPs and basic facilities with respect to space Engineering Personnel Test equipment Manufacture Training Repair Service Center Supports for at least past three years in the country from where the proposed equipment are planned to be supplied. In case OEM is located outside India it should have training repair and service center facilities in India also. The certificates/Undertaking for the same will have to be submitted online.(The bidder will have to submit the proof of establishment for the facility)
11. Eligibility Criteria for Bidder:
 - a. The tenderer should have executed order of supply/ provision of Router /Switches/Wi-Fi System equipment/SFPs/XFPs during last preceding 3 financial years (i.e. current year and three previous financial years) as on opening of bid Single order of at least 35% of tendered value.Satisfactory Performance certificate issued by customer/s for the Purchase Orders/ Work Orders should be enclosed.
 - b. The bidder should have annual turnover of minimum 50% of tendered value during the last 3 financial years (i.e. current year and three previous financial years). The bidder should provide Audited Balance Sheets and annual reports as documentary evidence and for current year the statutory Auditor's certificate for turnover for current year up to the date of bid opening for which Balance sheet may not be available or other such documents so as to

- establish the financial soundness of their company for the preceding three financial years.
- 12.SLA:After having been notified of the defects / service requirement during warrantee period Seller has to complete the required Service / Rectification within time limit of max. 7 days. If the Seller fails to complete service / rectification with in defined time limit a penalty of 0.5% of Unit Price of the product shall be charged as penalty for each week of delay from the seller & upto max. of 100% of Unit Price of the product.Seller can deposit the penalty with the Buyer directly else the Buyer shall have a right to recover all such penalty amount from the running bills.
- 13.Payment Conditions :-
- 100% payment against full supply
 - 80% payment against part supply
- 14.The following documents are to be submitted for payment:
- Original Tax Invoice
 - Delivery Challan
 - Original Consignee receipt
 - Original Inspection Certificate
 - Insurance Certificate.
 - Warranty Certificate of OEM
- 15.Bill passing Authority : Jt.GM/ BhubaneswarBill Paying Authority : Jt.GM/Fin./ER
- 16.Online Submissions: The bidder is required to upload and submit the following documents online before bid end date & time of bid. The bid end date & time is 02 .09.2020 at 15:00 Hrs. and the bid will be opened at 15:30 Hrs of 02.09.2020.
- BOQ of offered equipment.
 - Clause wise compliance along with all mentioned documents/annexures for all clauses of GeM Bid and ATC documents.
 - Data Sheet of offered equipment.
 - Financial (Certified copies of audited balance sheets/annual reports of last three preceding financial years) and Technical Eligibility Criteria documents.
 - Technical Compliance of all Specification of items as per GeM Bid and ATC documents.
 - Certificate from the End user against the Eligibility criteria for OEM para 9.
 - Proof of document required against Eligibility criteria of Bidder vide para 10.
 - MAF/OEM Authorization as per Annexure-II.
- 17.Note:
- Non submission of above document online within the prescribed time will make the summarily rejected.
 - The bidder is required to give acceptance of all the clauses mentioned in the “Information to the Bidders” document is mandatory. Any deviation / non-acceptance may lead to rejection of the bid.
 - This bid is governed by the Specific Additional Terms & Conditions and General Terms & Conditions laid down by the GeM against GeM Bid No. GEM/2020/B/747664 Dated 13.08.2020.
- 18.Annexure-ITechnical Specifications :
- Equipment & Module should be:
 - With 3 years warranty. The product should not be declared EOL or EoS by OEM for next 8 Years.
 - Equipped with necessary hardware/software to comply all above required / support features.
 - Back to Back warranty with respective OEMs for both Hardware and Software. The certificates/Undertaking for the same will have to be submitted along with bid from respective OEM.
 - OEM should have its Service Centre at min 04 locations in major cities in India. Service center details to be shared along with address and contact no. and person.

v. ULCE and FCC Certification is not required for PMA. However they have to produce certificate from standard lab approved/ authorized by Govt. of India that their product are equivalent to ULCE and FCC and meets all standard and specification of ULCE and FCC.
2.SOR wise details are as follows : SOR Item Description Unit Qty.SOR-1 Switch (24 ports SFP & 4 ports SFP+) as per Technical specifications of SOR-1 of Information to Bidder. Nos.7
SOR-2 SFP 10G BIDI SFP+ 40 KM as per Technical specifications of SOR-2 of Information to Bidder. Nos.16

19.SOR-

- 1 : Switch A : S No. Description1.Should have support for 24 ports SFP Gigabit ports.
- 2.Should have support for 4 ports SFP+ Based Gigabit ports.
- 3.Should have at least 120 Gbps switching fabric.
- 4.Packet forwarding rates 90 million PPS.
- 5.Should support at least 16Kentries in the MAC table.
- 6.Should Support 255 minimum VLANs.
- 7.Should have AC and DC power supply arrangement as given below in chassis without any external adaptors :
 - i) AC Power Supply 100 to 240 V AC with 50 to 60 Hz
 - ii) -48V DC supply DC power supply should work as a redundant power supply to power-on the switch in case failure of AC power supply.
- 8.Should support Dual Images.
- 9.Should support Optical Transceiver Digital Diagnostic Monitoring for All SFP ports of 1G and 10G.
- 10.Should support port mirroring and jumbo frame.
- 11.Should support following for min. 64 Groups :
 - i)IGMP Snooping
 - ii)IGMP v1/v2/v3 awareness Snooping
 - iii)IGMP Snooping Queried.Should support spanning-tree root guard Port Fast and BPDU Guard/Filter or similar functionalities.
- 12.Should support following security features viz.:
 - i) Web Management (HTTPS)
 - ii)Broadcast/Multicast/Unicast Storm Control
 - iii) DoS Attack Prevention
- 13.Switch should support following SNMP traps:
 - i) Interface UP & Down
 - ii) Optical power SFP threshold alarms
 - iii) STP Topology Changes and New root bridge
 - iv) LLDP table changes
 - v) Threshold alarms for Temperature.
 - vi) Ethernet OAM SNMP alarms.
- 14.Switch should comply to following Temperature performance parameters :
 - i) Operating Temperature - min -0 to 50 °C (23 to 122 °F)
 - ii)Storage Temperature - min -0 to 70 °C (-40 to 158 °F)
- 15.It shall support MAC address notification to allow administrators to be notified of users added to or removed from the network.
- 16.The switch shall be designed for continuous operations.
- 17.IPv6/v4-L3 and IPv6-Multicast functionalities/features for Switches are desired but not mandatory.
- 18.Safety Requirement :- Switch should have safety compliance of UL.
- 19.Electromagnetic Compatibility (EMC) Requirements:- Switch should have EMC compliance of CE and FCC.
- 20.The LAN switch shall support a console port or auxiliary/Ethernet port for the purpose of

local and remote configuration and diagnostics.

21. The LAN switch shall support built in power diagnostics system to detect hardware failures.

22. IPv6 feature should be ready from day 1.

23. Qualitative Requirements:-

i. The equipment shall be manufactured in accordance with the international standards ISO 9000:2008 or later for which the manufacturer shall be duly accredited. A quality plan describing the quality assurance system followed by the manufacturer shall be required to be submitted.

ii. The MTBF (Mean Time Between Failure) and MTTR (Mean Time To Repair) predicted and observed values shall be furnished along with calculations by the manufacturer.

24. Switch should support following Metro Ethernet Features:

i. Q in Q Double VLAN (Q-in-Q) Port-based Q-in-Q and VLAN Translation

ii. IEEE 802.1ag Ethernet OAM: Connectivity Fault Management

iii. Ethernet OAM compliant with IEEE 802.3ah/Y.1731

iv. ITU-T G.8032 Ethernet Ring Protection designed for loop protection and fast convergence times (sub 50 ms) in ring topologies.

v. L2 Protocol Tunneling.

vi. Loopback Detection The operating system of the Switches category/series/family should be MEF-9/14 or CE (Carrier Ethernet) Certified/compliant.

20. SOR-2 : SFP+ 10G 40 Km. (BIDI): S No. Description

1. Should be compatible with OEM equipment's like Cisco Juniper D Link Zyxel Edge Core Extreme etc.

2. Should support 20-40 kms optical distance on single fiber

3. Should have LC type connector.

4. Should provide the cost in pair (BX U & D).

5. Should have 10 Gigabit Ethernet capacity on single mode fiber.

6. Should support Digital Diagnostic Monitoring feature.

7. OEM should be having valid ISO 9000 & ISO 14000 certification on the date of opening of bid.

8. Should have CE and FCC and UL regulatory compliances.

9. Operating temperature of the SFP should be minimum 0 to 65 °C (23 to 149 °F)