

Tender no. RailTel/Tender/OT/CO/P/2022-23/LIMS/003 dated:13.06.2022

A. Commercial terms & conditions:

SN	Clause No. & Chapter No.	Page No.	Sub Clause no./Point no.	Description of clause	Revised clause
1	4.A.4 of Chapter-4A	21		The materials as per SOR-A are required to be delivered, installed, tested, commissioned & Integrated within 120 days from the issue of LOA/Purchase Order. The bidder is required to submit the PERT chart showing the various activities which are required for supply, installation, testing, commissioning and integration of the equipment. The materials shall be delivered to the site as given in clause 1.4.3 of chapter-3. Consignee address and details will be provided to the successful bidder.	The materials as per SOR-A are required to be delivered, installed, tested, commissioned & Integrated within 180 days from the issue of LOA/Purchase Order. The bidder is required to submit the PERT chart showing the various activities which are required for supply, installation, testing, commissioning and integration of the equipment. The materials shall be delivered to the site as given in clause 1.4.3 of chapter-3. Consignee address and details will be provided to the successful bidder.
2	Chapter-1	6		Offer letter	120 days in the sentence "I/We offer to supply various equipment at the rates quoted in the attached schedules and hereby bind myself/ourselves to complete the work within 120 days from the date of issue of Purchase Order/LOA" shall be read as 180 days.
3	Chapter-5 (BDS)	54	Clause 4.A.4, Chapter-4A	Delivery, installation, Commissioning & Integration period: 120 days from date of issue of LOA/Purchase Order.	Delivery, installation, Commissioning & Integration period: 180 days from date of issue of LOA/Purchase Order.
4	4.A.12.2, Chapter-4A	25	1	Legal Entity: The bidder should be a Company registered in India under the Companies Act (India) with their registered office in India for the last three years.	Legal Entity: The bidder should be a Company registered in India under the Companies Act (India) with their registered office in India for the last three years. For all Startups: The bidder should be a Company registered in India under the Companies act (India) with their registered office in India. the supporting documents to prove his eligibility for exemption must be uploaded by the bidder.

5	4.A.2.A, Chapter-4A	19	4.A.2.A.1	4.A.2.4.1 Material for repair during Warranty Period shall be handed over /taken over to contractor's engineer/representative at RailTel's regional NOC locations or sites where equipments are installed. During the warranty period, the contractor shall remain responsible to arrange replacement within 30 days and for setting right at his own cost any equipment installed by him which is of defective manufacture or design or becomes unworkable due to any cause whatsoever. The decision of the RailTel's representative in this regard to direct the contractor to attend to any damage or defect in work shall be final and binding on the Contractor. In case contractor fails to replace any faulty part within 30 days period, penalties will be imposed as per clause 7.5.2 of Chapter-7.	4.A.2.4.1 Material for repair during Warranty Period shall be handed over /taken over to contractor's engineer/representative at sites where equipments are installed. During the warranty period, the contractor shall remain responsible to arrange replacement within 3 days and for setting right at his own cost any equipment installed by him which is of defective manufacture or design or becomes unworkable due to any cause whatsoever. The decision of the RailTel's representative in this regard to direct the contractor to attend to any damage or defect in work shall be final and binding on the Contractor. In case contractor fails to replace any faulty part within 3 days period, penalties will be imposed as per clause 7.4.1.1 of Chapter-7.
6	7.4.1, Chapter-7	79	7.4.1.1	Delivery Period: The received defective part will be got repaired by the contractor within 30 days from the date of receiving and will be installed/handed over to RailTel authorized representative at NOC/site. The contractor will also give probable reason for repeated failure of cards/ modules.	The replacement for defective part will be arranged by the contractor on next business day support at the Fault site/location and the faulty equipment/cards/accessories will be handed over to him. If the contractor fails to complete service / rectification within 3 days, a penalty of 0.5% of Unit Price of the product shall be charged as penalty for each week of delay from the contractor & upto max. of 100% of Unit Price of the product. Contractor can deposit the penalty with RailTel directly else RailTel shall have a right to recover all such penalty amount from the Performance Security (PBG) or from the running bills. The contractor will also give probable reason for repeated failure of cards/ modules.

7	7.4.1, Chapter-7	79	7.4.1.1	Uninterrupted network: 2. If contractor fails to return the repaired card within stipulated time of 30 days from the date of receipt then the OK (good conditioned) cards/SFPs/parts etc will be provided by the contractor for the subsequent in this period free of cost till replacement with the repaired card.	Deleted
8	7.5.0, Chapter-7	80	7.5.2 Repair and Return services	If the contractor fails to return the card with 30 days, the following penalties will be imposed:	Deleted
9	4.A.12.1, Chapter-4A	24 & 25	4.A.12.2 (2) Financial Capability	The bidder should have received a minimum cumulative contract of Rs. 12.08 Crs from the operations in the last three financial years plus current year upto the date of opening of tender. For Startups* (recognized by Department of Industrial policy and promotion, Ministry of Commerce and Industry) a minimum cumulative contract of Rs. 4.03 Crs is required.	The bidder should have minimum turnover from operation of Rs. 12.08 Crs in the last three financial years plus current year upto the date of opening of tender. For Startups* (recognized by Department of Industrial policy and promotion, Ministry of Commerce and Industry) a minimum turnover from operation of Rs. 4.03 Crs is required.
10	4.A.12.1, Chapter-4A	24 & 25	4.A.12.2 (4 & 5)	Supporting documents required- 4. Self-Declaration by the Bidder on Company's letter head 5. Undertaking to be submitted by the Bidder	Supporting documents required- 4. Self-Declaration by the Bidder (in case of consortium/JV, all members/partners) on Company's letter head. 5. Undertaking to be submitted by the Bidder (in case of consortium/JV, all members/partners) on Company's letter head .

B. Technical Specifications, Chapter-3

SN	Clause No. & Chapter No.	Page No.	Sub Clause no./Point no.	Description of clause	Revised clause
1	1.2	14	2. Memory	512 GB, DDR4-2933 (32x16 GB) , expandable to 1TB	512 GB, DDR4-2933 (16x32 GB) , expandable to minimum 1TB without replacing the existing modules
2	1.2	14	4. Hard Disk Controller	SAS RAID Controller (RAID 5/6) up to 12 Gbps with 2 GB Cache	SAS RAID Controller (RAID 5/6) up to 12 Gbps with min. 2 GB Cache

3	1.2	14	6. Graphics	Integrated SVGA graphics interface	Integrated SVGA graphics interface OR Integrated VGA graphics interface
4	1.2	15	8. PCI slots	8x PCIe Gen 3.0 (x16) I/O expansion slots (at least 4 Nos. PCIe x8 or above and at least 4 Nos. of PCIe x16 full length, Full Height)	6x PCIe Gen 3.0 (x16) I/O expansion slots with at least 4 Nos. of PCIe x16 full length, Full Height
5	1.1	14	5 (a)	Traffic received on input ports should be aggregated and load balanced to the multiple groups of Minimum 16 destination ports in each group on the following basis- <ul style="list-style-type: none"> • Session/Flow based (Source IP, Destination IP, Src port, Dest port) • Port addresses/Protocol • MAC addresses • VLAN 	Traffic received on input ports should be aggregated and load balanced to the multiple groups of Minimum 16 destination ports in each group on the following basis- <ul style="list-style-type: none"> • Session/Flow based (Source IP, Destination IP, Src port, Dest port) • Port addresses/Protocol • MAC addresses
6	1.1	14	5 (d)	Load balancing of all types of IP packets (IPv4 & 6) with different headers or encapsulations like MPLS, VLAN and etc. Load balancing of GTP headers should also support in case required in future by upgrading of Software/License/Hardware	Load balancing of all types of IP packets (IPv4 & 6) with different headers or encapsulations like MPLS etc. Load balancing of GTP headers should also support in case required in future by upgrading of Software/License/Hardware
7	1.1	14	5 (e)	De-encapsulation or Striping of Labels/Headers for the protocols like MPLS, VLAN for entire input or output traffic and this feature should be part of the same box. De- encapsulation or Striping of Labels/Headers of GTP headers should also support in case required in future by upgrading of Software/License/Hardware	De-encapsulation or Striping of Labels/Headers for the protocols like MPLS for entire input or output traffic and this feature should be part of the same box. De- encapsulation or Striping of Labels/Headers of GTP headers should also support in case required in future by upgrading of Software/License/Hardware
8	1.3	15	6	VLAN support for <ul style="list-style-type: none"> • 802.1Q tag-based VLANs and trunking • Protocol-based VLAN • Management VLAN 	VLAN support for <ul style="list-style-type: none"> • 802.1Q tag-based VLANs and trunking • Protocol-based VLAN/Dynamic VLAN • Management VLAN
9	1.4	16	1. viii.	Switch should comply to Operating Temperature range 0°C to 40 °C	Switch should comply to Operating Temperature range 0°C to 40 °C. However under the use of ZR/ZR+ optics, operating temperature range can be 0°C to 35 °C.

10	1.4	16	2. ii.	IPv6 RIB/FIB: 2M/500K	IPv6 RIB/FIB: 2M/400K
11	1.4	16	2. vi.	Firewall Filters: >4K	Firewall/ACL filters: >4K
12	1.4	16	3. i.	Device should support Minimum 256K mac address	Device should support Minimum 200K mac address
13	1.4	16	3. vii.	Device should support L2TP	Device should support L2VPN/EVPN
14	1.4	16	3. xiii.	Specifications for ISP Monitoring solution for RAILTEL ISP Gateways	Read as "deleted"
15	1.4	17	4. xiii.	Device should support CFM & LFM	Device should support CFM/LFM
16	1.2 & 1.4.3	12 & 13			Locations shall be read as "Mumbai, Delhi, Chennai, Hawrah(Kolkata) & Ernakulam"
17	1.2	15	9	Minimum 4xUSB2.0, Keyboard, Optical Mouse	Minimum 3xUSB2.0/ 3.1 , Keyboard, Optical Mouse, One VGA port
18	1.2	15	13	Red Hat® Linux® Enterprise v7 (Latest Version) (64 bit) Advanced Platform	Red Hat® Linux® Enterprise v8.0 (Latest Version) (64 bit)Advanced Platform or higher
19	1.2	14 & 15	14	Red Hat Enterprise V7 (Latest version) (64 bits) Linux ServerStandard (up to 1 guest) 4 Sockets	Red Hat Enterprise V8.0 (Latest version) (64 bits) Linux ServerStandard (up to 1 guest) 4 Sockets
20	1.2	14	1	Intel® Xeon®-Platinum Processors – 4 Nos Intel Xeon-Platinum 8260 (2.4GHz/24-core/48 Thread, 36 MB cache, Turbo HT, 165W) or higher in terms of all parameter	Intel Xeon-Platinum processors-4 Nos Intel Xeon-Platinum 8260 (2.4GHZ\24-core\48 Theard,35.75 MB cache,Turbo Ht,165W) or higher in terms of all parameter
21	Note no. V of Chapter-2	9	vii	Passive TAPs 10/100 Gigabit optical - 2 Nos. of quantity. Vendor may quote individual TAPs or group TAPs (e.g. 4 in One or more)	Passive TAPs 10/100 Gigabit optical - 2 Nos. of quantity, Vendor may quote individual TAPs (should be mountable in 19 inch Rack) or Group TAPs (Chassis can house at least 4 No. TAPs Modules per site)