

Bid Document

Bid Details	
Bid End Date/Time	27-07-2020 17:00:00
Bid Opening Date/Time	27-07-2020 17:30:00
Bid Life Cycle (From Publish Date)	90 (Days)
Bid Offer Validity (From End Date)	30 (Days)
Ministry/State Name	Ministry Of Railways
Department Name	Na
Organisation Name	N/a
Office Name	Western Railway
Total Quantity	1
Item Category	Layer 3 - Access Switch
MSE Exemption for Years of Experience and Turnover	No
Startup Exemption for Years of Experience and Turnover	No
Bid to RA enabled	No
Inspection Required	No

EMD Detail

Required	No
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ePBG Detail

Required	No
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Splitting

Bid splitting not applied.

Layer 3 - Access Switch (1 pieces)

Technical Specifications

[* As per GeM Category Specification](#)

Specification	Specification Name	Values	Bid Requirement (Allowed Values)
Specification	Maximum Number of Access /Downlink Ports	48	8, 12, 24, 48, 0, 2, 4, 16, 32 Or higher
	Type of Switch	PoE+	Non PoE, PoE, PoE+, UPoE, PoE++ Or higher

Number of 10/100/1000 Base-T Ports	48	24, 48, 32 Or higher
Number of Multi-Gigabit Ports	0	0, 4, 8, 12, 24, 48, 2, 16, 32 Or higher
Number of 1 G Base T Ports (Uplink)	0	0, 2, 4, 8, 12, 16, 24, 32, 48 Or higher
Number of 1 G SFP / Base X Port (Uplink)	4	4, 8, 12, 16, 24, 32, 48 Or higher
Number of 10 G Base T Port (Uplink)	0	0, 2, 4, 8, 12, 16, 24, 32, 48 Or higher
Number of 10 G SFP+ Port (Uplink)	4	0, 2, 4, 8, 12, 16, 24, 32, 48 Or higher
Number of 40 G QSFP+ Port (Uplink)	0	0, 2, 4, 8, 12, 16, 24, 32, 48 Or higher
Number of 100 G QSFP 28 Port (Uplink)	0	0, 1, 2, 4, 6, 8, 12, 16, 24, 48 Or higher
Management Port (RJ 45/RS 232/USB)	Yes	Yes Or higher
RAM (MB)	1024	*
Flash Memory (MB)	512	*
9K MTU Supported (Minimum)	Yes	*
Console Port	Yes	*
Redundant Power supply	Yes	Yes, No Or higher
Redundant Power Supply Type	Internal	*
Redundant Power Supply (Hot Swappable)	Yes	*
Redundant Fan	Yes	Yes Or higher
Redundant Fan (Hot Swappable)	Yes	*
Number of Open slot for additional Interface Card	0	*
Operating System	Yes	*
Dedicated Stacking	Yes	*
Stacking Bandwidth (Gbps)	320	*
Switching Capacity / Forwarding Bandwidth (Non Blocking / Line Rate /Wired Speed) 2x (Numbers of access ports + Number of Uplink Ports) (Gbps)	656	Any applicable numeric value
Throughput / Forwarding Performance (MPPS)	462	Any applicable numeric value
Layer 2 Protocols	802.1Q VLAN,LAG,LACP,STP, MSTP,RSTP,VxLAN,IEEE 802.3x,VLAN	*
Number of VLAN Supported	4000	*
Number of VLAN IDs Supported	4000	*

Number of IPV4 Routes	30000	*
Number of IPV6 Routes	5000	*
Number of Mac Address Supported (k)	128	*
Basic Layer-3 Protocol from day 1	Static Routing,RIPv1,RIPv2,BGP,OSPFv2,OSPFv3,RIPng	*
Advance Layer-3 Protocol from day 1	OSPFv2,OSPFv3,BGP,BGP4,PIM-SM,PIM-SSM	*
Premium Layer-3 Protocol from day 1	BGP,BGP4,IS-IS,PIM-SM,PIM-SSM,VRF Lite,VRF,VXLAN,VRP,VxLAN,DCBX	*
Security Feature	RA Guard,,DHCP Snooping,Dynamic ARP Inspection,ACL,802.1x,RADIUS/TACACS,Port Security,BPDU Guard,VRF Lite,IGMP snooping	*
Management Protocol	GUI,CLI,Telnet,TFTP,,SNMPv1,SNMPv2/V2C,SNMPv3,NTP,Openflow 1.3,RMON,SSHv2,Single IP Management,ISSU and hot patching,Hitless patch upgrades,DLDP/UDLD	*
QoS	802.1p,SP,Queues per port,WRED/ WTD,Sflow,SNTP,Shapincg,Policing / Rate Limiting,Strict Priority Queueing or Low Latency Queueing	*
PoE Power Budget (Watt)	720	*
Dimension / Form Factor (RU)	1	*
Certification	RoHS	*
MTBF (Year)	7	*
Minimum Operating Temperature (Degree C)	-5	*
Maximum Operating Temperature (Degree C)	55	*
Minimum Operating Humidity (%RH)	5	*
Maximum Operating Humidity (%RH)	95	*
IPv6 Ready from day 1	Yes	*
On Site OEM Warranty (Year)	5	5 Or higher

* Specifications highlighted in bold are the Golden Parameters.

* Bidders may note that In respect of non-golden Parameters, the specifications 'Values' chosen by Buyer will generally be preferred over 'Bid requirement (allowed Values) by the Buyer.

Additional Specification Documents

Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	Chandrashekhar Bhagwat Mahajan	400008,SENIOR SECTION ENGINEER, TELECOM STORE, RAJDHANI POH BUILDING, 3RD FLOOR, MUMBAI CENTRAL - E, NEAR DRM OFFICE, 400008	1	15

Bid Specific Additional Terms and Conditions

- 1.Scope of supply (Bid price to include all cost components) : Supply Installation Testing and Commissioning of Goods
- 2.Preference to Make In India products (For bids less than 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 50%. 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. In case Buyer has selected Purchase preference to Micro and Small Enterprises clause in the bid, the same will get precedence over this clause.

[This Bid is also governed by the General Terms and Conditions](#)

---Thank You---