

**Pre-Bid Queries for NIT No. RECPDCL/TECH/NETWORKING-GED/e-Tender/2014-15/2225 dated 26.02.2015**

S. No.	Item	Page No. / Clause	Parameter	Technical Specifications as per RFP	Queries / Modifications / Changes Suggested	TPDDL Remarks
1	Central / Internet Router	16	Common Requirement	The Routers shall be compatible with Owners existing Wide Area Network. The Wide Area Links are planned for 2Mbps or higher Bandwidth capacity on leased circuits from ISPs (BSNL, MTNL etc.)	Please specify the details of existing WAN	At present there is no WAN connecton
2	Central / Internet Router	17	WAN Port Expandibility	<p>WAN Ports : 32 Serial ports with synchronous speed up to 2Mbps and with interface support for V.35, V.24 Ports (to be interfaced to leased circuits or SCPC / MCPC available on Multiplexer). 2x 4nos. of G.703 Ports 75 Ohm. 2x 4port ISDN PRI E1 / channelised E1 interfaces for 120 Ohm G.703 I/f (ISDN PRI can be given internal or external to core router).</p> <p>Expandability: The offered Router configuration shall have sufficient free slots to accommodate additional 16 (min.) Serial Ports by way of putting additional Line Modules.</p>	All the Service Providers including BSNL provide hand-off on ethernet. Using so many serial interfaces at the core router level for link termination would introduce modems for each link thereby increasing the number of devices and the points of failures. Having ethernet hand-off would reduce the complexity by great deal. Request you to allow the SIs to include the interfaces as per the design	On the basis of feasibility, MPLS/ VPN WAN connectivity will be terminated on ethernet on core router, in case of non feasibility of MPLS at any location, point to point dedicated lease will be required on serial ports. Accordingly bid will be evaluated as per clause mentioned in the RFP.
3	Central / Internet Router	20	Router for Internet Gateway	The specification of Router at Internet gateway should be similar to central router but this router shall have features of firewall and IDS, The specification of firewall and IDS shall be similar to those specified for core switch. The firewall features may be provided integral to Router or through a dedicated external appliance.	<p>There are no specifications provided for IPS/IDS module required in the core router. Request you to provide the same. Also, we are assuming that we can provide an external appliance to meet the functionality. Please confirm.</p> <p>Also it is recommended to go for an external appliance rather than internal because the service modules can sometimes limit your entire switch/router backplane to the lower speed cards.</p>	Bidder may consider minimum industry standards of IPS/IDS module to run on a core switch. As per the tender, bidder may provide an external appliance to meet the functionality.
4	Switches (Core, Access and Distribution Switches)	25	Distribution Switch	Should have minimum 24 port as per the desired specifications.	Please specify the speed of ports (Gig/10G etc)	Speed of ports is mentioned on the page no. 25. Please refer point no. B1, B2, B3
5	Switches (Core, Access and Distribution Switches)	26	Access Switch (Core Switch for Internet Gateway)		We already have a very high performance Internet Router with all the feature functionalities required. Putting an access switch with specifications similar to that of Core switch would over-size the solution. Request you to have a re-look at the specifications.	Specification requirements shall remain same as mentioned in the NIT document
6	Switches (Core, Access and Distribution Switches)	27	Access Switch (Core Switch for Internet Gateway)	Should have minimum 24 port as per the desired specifications.	Please specify the speed of ports (Gig/10G etc)	speed of ports is mentioned on the page no. 26. Please refer point no. C2

7	Switches (Core, Access and Distribution Switches)	33	Core Switches	The switches shall support for Multi-service application platform to enable advanced Security application such as Firewall, IDS and IPS, WLAN security, SSL VPN access and MPLS baseline capabilities for VPN tunneling at layer 2.	SSL VPN feature functionality will be required at the internet level where in the users will enter the enterprise network through SSL VPN. A dedicated appliance with SSL VPN functionality should be placed at the internet level for this purpose. Request you to remove SSL VPN access form Core switch.	SSL VPN will be configured on security appliance on the internet level but our business requirement is for configuration of SSL VPN on core switch also.
8	Routers (MPLS/VPN Router at Utility offices)	34	LAN Port	LAN Port: <ul style="list-style-type: none"> <li>● Two fixed 10/100M high speed Ethernet ports</li> <li>● Two fixed high-speed synchronous ports □ Two fixed low speed synchronous or asynchronous ports</li> <li>● One Port ISDN BRI-S/T interface</li> <li>● One Port ISDN PRI interface</li> <li>● 2 additional 10/100 M ports.</li> <li>● One AUX</li> </ul> Scalability: Should additionally support 6 sync or async ports or more for future scalability	All the Service Providers including BSNL provide hand-off on ethernet. Using so many serial interfaces at the core router level for link termination would introduce modems for each link thereby increasing the number of devices and the points of failures. Having ethernet hand-off would reduce the complexity by great deal. Request you to allow the SIs to include the interfaces as per the design.	On the basis of feasibility, MPLS/ VPN WAN connectivity will be terminated on ethernet on core router. In case of non feasibility of MPLS at any location, point to point dedicated lease will be required on serial ports. Accordingly the bid will be evaluated as per clause mentioned in the RFP.
9	General	-	-	-	The specifications/design is based on the APDRP RFPs released 5-6 years back. The technology has now evolved a lot bringing in lot of innovations which dramatically affect the business outcomes. FCOE, unified fabric in Data centre, Virtualization and Cloud computing are some of things to mention. It becomes imperative that Goa Electricity board looks at these technologies seriously which are not only cost effective but would also allow you to build a sustainable network for next 7 years atleast. Request you to reconsider the design and specifications.	Specification requirements shall remain same as mentioned in the NIT document
10	Scope of Work	7	Scope of Work for Routers and Switches	Receipt, storage, preservation and conservation of equipment at the site	Please clarify if there would be a provision at each site of secured room for storage during the implementation stage	No. Bidder needs to make suitable arrangements at his end for such purposes.
11	Scope of Work	8	Scope of Work for Routers and Switches	Insurance of all equipment from manufacturer's site till installation, commissioning, handing over and user acceptance will be borne by the bidder	Please clarify if the user acceptance would be given by the individual office or the 4 regional offices. What are the parameters for acceptance? What are the documents to be submitted?	The handing over and user acceptance shall be provided by the individual offices on successful testing of installed equipments and cabling as per the scope of work. However, a detailed user acceptance form shall be provided with the release order.

12	Scope of Work	9	Scope of Work for Routers and Switches	Maintain the mandatory and recommended spares during warranty and AMC period and provide the list of the same.	We understand that storage of spares have to be done at the bidders facility or depot. Will GED or Tata Power provide space in their 4 regional offices for keeping the spares. Please clarify	No. Bidder needs to make suitable arrangements at his end for such purposes.
13	Timelines for Delivery and Installation	48	-	Bidder is required to deliver the equipment at the specified locations / offices within 4 weeks from the date of the Release order. Locations/offices would be as specified in the Release Order.	Since this is a rate contract. We request to extend this delivery timeline to 6 weeks for delivery at the location.  To optimize the delivery timelines, it would help if we can be given an estimate of the requirements every quarter. Please clarify	The delivery terms shall remain same as per the NIT document.
14	Timelines for Delivery and Installation	48	-	Installation shall be completed within 1 week of delivery date.	Since this requires cabling and non IT set up as well, we request to increase the implementation timelines to 2 weeks.	The installation timelines shall remain same as per the NIT document.
15	Payment Criteria	48	For Supply & Installation	b) 50% payment shall be released against successful completion of deliveries at the delivery location specified in the release order.	We request you to increase the payment terms to 70% on delivery.	The clause shall remain same as mentioned in the NIT document
16	Payment Criteria	48	For AMC Period	Payment shall be released on yearly basis in arrears, i.e. at the end of every twelve months.	We request you to give out the payment in quarterly arrears to avoid finance charges.	The clause shall remain same as mentioned in the NIT document
17	Service Level Agreement	49	Uptime Guarantee	The agreement stipulates that bidder shall maintain cabling, switches, routers with an uptime of 98%. The uptime will be calculated on monthly basis.	Please clarify if there would be a tool to measure the SLA or will it be done on call logging basis. Moreover, the bidder will receive calls from individual users or from a centralized IT team (at the CCC) in case of fault.	Tool will be used for monitoring the SLA. Centralized IT team will lodge the calls.
18	Eligibility Criteria	53	Pre-Qualification for OEM	The OEM vendor shall have at least one service center within the Goa state with sufficient infrastructure.	Please clarify this requirement. Normally a hardware OEM (router & switch) might not have service centers. Although the bidder might have an office or support centre in the state.	Refer Amendment-1.
19	Scope of Work	7	Scope of Work for Routers and Switches	Receipt, storage, preservation and conservation of equipment at the site	It is assumed that secure space for staging/storing the equipment at site will be provided by the customer. Kindly confirm	No. Bidder needs to make suitable arrangements at his end for such purposes.

20	Central / Internet Router	17 18	WAN Port Expandibility	B.9 Each one Module/modules for 8 port of various interface types as spare B.11 - Expandibility	Kindly elaborate on this spare requirement, and please suggest if this spare to be provisioned inside the router or kept externally. Additionally, kindly also suggest if these many types and numbers of traditional WAN ports required at site as mentioned, since most of the service providers nowadays can provision more flexible and scalable options based on ethernet last mile connectivity.	8 ports of various interface types as spare will be kept externally. For reference of interfaces, please consider point no. B9
21	Central / Internet Router	16	-	-	Bill of material does not mention this router. Pls suggest	BOM is mentioned on page no. 47
22	Central / Internet Router	20	E- Other Requirements	-	Kindly suggest to which router these specifications are related to. We also suggest to provide separate specifications for each type of router and switches mentioned in the bill of material rather than a consolidated sheet, to avoid any confusion and ambiguity in offerings	The clause is self explanatory
23	Switches (Core, Access and Distribution Switches)	21	Technical Specifications	-	Suggest to provide separate specifications for each type of switches mentioned in the bill of material rather than a consolidated sheet, to avoid any confusion and ambiguity in offerings.	The clause is self explanatory
24	Switches (Core, Access and Distribution Switches)	26, 27, 33	Distribution Switch Access Switch Core Switch	B.6 Should have minimum 24 port as per the desired specifications C.3 Should have minimum 24 port as per the desired specifications D.6 Should have minimum 96 port as per the desired specifications	Kindly suggest desired speed, type and media type of the ports	Speed of ports is mentioned on the page no. 25, 26. Please refer point no. B1, B2, B3, no. C2
25	Switches (Layer - II Switches)	38		3. The following type of interfaces	Kindly suggest speed, type and media type of the ports	For speed, type and media please consider page no. 38 point no. 1of RFP.
26	Routers (MPLS/VPN Router at Utility offices)	32	Technical Specifications	Routers shall be equipped with Redundant Power Supply Unit (RPSU).	Please remove this point. (At the branch level there is no need of redundant power supply as it consume extra rack space and power along with additional TCO. For managing the SLA, SI will have the spare routers to manage the required SLA)	The clause shall remain same as mentioned in the NIT document

27	Routers (MPLS/VPN Router at Utility offices)	36	Optimization Feature	Data Compression for both header and payload to be supported for X.25, Frame Relay and Leased/Dial-up WAN Links. Dial restoration on lease link failure Dial on demand or congestion, Load Balancing. Support for S/W downloads and quick boot from onboard Flash. Online software re-configuration to implement changes without rebooting. Should support Network Time Protocol for easy and fast synchronization of all Routers.	Please remove X.25 and frame relay protocol support (X.25 and frame relay is old technology. Now every ISP is using MPLS. our request is to remove this point)	Please consider optimization feature on router for these protocols or equivalent protocols.  The clause shall remain same as mentioned in the NIT document
28	Switches (Layer - II Switches)	39	Redundancy Feature	<ul style="list-style-type: none"> <li>● Link Aggregation</li> <li>● Spanning Tree (802.1 d) with support for spanning tree per VLAN or equivalent</li> <li>● The switch should have power supply redundancy solution</li> </ul>	Please remove the power supply redundancy solution point from access switch (At the access level there is no need of redundant power supply as it consume rack space and power along with additional TCO. For managing the SLA, SI will have the spare router to manage the required SLA)	The clause shall remain same as mentioned in the NIT document
29	Eligibility Criteria	53	Pre-Quaifying Criteria for Bidder	The bidder must have successfully executed at-least 3 similar projects (covering at-least 20 Locations in each project) in the last 3 financial years (FY 2011-12, 2012-13 and 2013-14). The details need to be submitted in the following format along with the copy of the completion Certificate.	The bidder must have successfully executed at-least 3 similar projects (covering at-least 20 Locations in each project) in the last 3 years as on the date of Bidding. The details need to be submitted in the following format along with the copy of the completion Certificate	Refer Amendment-1.