

POWER GRID COMPANY OF BANGLADESH LTD

Project Name: Supply and installation for upgradation/modernization of NLDC's SCADA/EMS system (Telecommunication system and RTU/Gateways) Package-3, Lot-4

Memo No: 27.21.0000.101.07.422.23.5755, Date: November 23, 2023

RFB Reference No.: PGCB/WB/BPSREIP/P-3/LOT-4

CLARIFICATION-01

Issued on 24.12.2023

Pre-bid meeting was held on December 12, 2023 as per clause 7.1 of Instruction to Bidders of Volume 1 of 2 of the Bidding documents. Some queries were received from the prospective Bidders regarding the Bidding Documents prior the Pre-bid meeting as well as some of the bidders have submitted queries after pre-bid meeting. Clarifications on the above queries are given below, which will form part of the bidding documents.

CLARIFICATION-01

Sl. No.	Volume / Section / Clause / Item / Page / Reference	Description and Queries of Prospective Bidders	Reply from PGCB
1	Vol 2 of 2, P3-Lot4, page 47	Bidder's Query: For the router datasheet column 45, function< L3 ATM support on RSP2 and ASR920>, RSP 2 and ASR920 is the CISCO router type, should be deleted this item. Please delete it.	Your understanding is correct, an addendum is issued regarding this. Please refer to the addendum 01 and Bid document.

2	Vol 2 of 2, P3-Lot4, Page 57	Bidder's Query: The item 12, IP Phone model CISCO 8841, the IP Phone type should not be limited to CISCO 8841. Please change it.	To integrate the IP phones in the existing Cisco call manager there is license issue. PGCB has Cisco 88XX series license in the existing Cisco call manager. So, any Cisco 88XX Series model is acceptable.
3	Vol 2 of 2, P3-Lot4, page 49	Bidder's Query: The line speed of the new platform only required 1GE, which is for less than the requirement. The existing SDH platform built years before is STM-64 (10G). This is a waste of the existing OPGW fiber. Please clarify.	please follow the Bid document
4	Vol 2 of 2, P3-Lot4, page 46	Bidder's Query: The main equipment should not only give the function or protocol requirement, but also the detail capacity requirement. Take example, for the IP/MPLS with MPLS-TP function, should indicate the detail number of transit LSP, terminating (protected) tunnels, VPLS instances, VPWS instances, Number of supported VLANs, MAC address table size and so on. Please provide details.	Please follow the Bid document
5	Vol 2 of 2, P3-Lot4, page 6	Bidder's Query: It is said the IP/MPLS with MPLS-TP capability, there is no any indication requirement of the MPLS-TP function, as this function is critical for the mission critical services tele-protection in the power utility. Please provide details.	please follow the Bid document

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6	General	Bidder's Query: This being a World Bank funded Tender, we hope that in line with fair practices and World Bank rules there will be more than one supplier that will meet the specifications prepared by the learned consultant and it is not one vendor specific technical specification and technology that is being described in the specification. Please confirm if our understanding is correct.	It is not one vendor specific technical specification. The bid document is prepared as per World Bank guidelines and regulations.												
7	General	Bidder's Query: We understand that the Telecommunication equipment will be installed in utility environment. Therefore, with the ambient temperature in Bangladesh rising to 45 Degrees and with the heat dissipation inside the cubicle rising to up to 55 Deg C the equipment should be able to withstand a temperature of 55 Deg C. Please see a copy of PGCB requirements. <table border="1"> <thead> <tr> <th>Description</th><th>Unit</th><th>PGCB's requirements</th><th>Guaranteed</th></tr> </thead> <tbody> <tr> <td>12.1.1 Operation</td><td>C</td><td>-10 to +55</td><td>Yes</td></tr> <tr> <td>12.1.2 Storage and Transport</td><td>C</td><td>-40 to +85</td><td>Yes</td></tr> </tbody> </table> Please Confirm our understanding is correct.	Description	Unit	PGCB's requirements	Guaranteed	12.1.1 Operation	C	-10 to +55	Yes	12.1.2 Storage and Transport	C	-40 to +85	Yes	An addendum is issued regarding this. Please refer the Addendum-01, SI-05.
Description	Unit	PGCB's requirements	Guaranteed												
12.1.1 Operation	C	-10 to +55	Yes												
12.1.2 Storage and Transport	C	-40 to +85	Yes												

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8	General	Bidder's Query: Today, reducing the carbon footprint and global warming are two main concerns that are being addressed and Bangladesh is one of the countries that will suffer most from the effects of global warming. In this context, please confirm that the Specific Requirement for Telecom Routers in Page No. 11 of Tender Technical Specifications "Minimum capacity of 64 Gbps for Aggregation Routers and 32 Gbps for Access Routers" can be met using existing installed base by upgrading the existing equipment or by offering new equipment meeting this functional requirement reducing the carbon footprint. Please Confirm.	This specification is for the design of a communication network to meet the present and future needs of PGCB and there is no impact as you mentioned.
9	Section III - Evaluation and Qualification Criteria: 1.1 Qualification Criteria (ITB 32.1) [In Volume 1 of 2, at Page 52 & 54]	(b) Specific Experience: The Bidder shall furnish documentary evidence from the end users of satisfactory service to demonstrate that it meets the following experience requirement(s): (i) The Bidder must have Experience under contracts in the role of prime contractor/ management contractor/ sub-contractor for at least 10 (ten) years prior to the bid submission deadline. (ii) The Bidder shall have a minimum of five (5) years of overall experience in the supply of similar goods prior to the bid submission deadline. (iii) The Bidder shall have participation as a contractor/ sub-contractor in at least three similar contracts (at least one in Power Sector) that have been successfully completed between January 01, 2013 and the date of Bid submission where the minimum one contract exceeds USD 1,500,000.00 (One Million Five Hundred Thousand US Dollar) and with a total aggregated value of at least USD 2,500,000.00 (Two Million Five Hundred Thousand US Dollar). Similar goods mean goods with similar functional/technical characteristics, as mentioned in Section VII. For a joint venture, this requirement must be met by all members combined and each member must have working experience in telecommunication system including supply and related service within last five years Remarks: Experience should be fully complied with that as stated in ranking method at Page 54 of Volume 1 of 2.	Having the mentioned experiences, which are not very strict, is a must for all bidders, according to the issued bid document. Please follow the bid document.

10	Section III - Evaluation and Qualification Criteria: 1.1 Qualification Criteria (ITB 32.1) [In Volume 1 of 2, at Page 54 & 57]	d. Evidence for bidder's experiences: Bidders shall furnish evidences of all related experiences in the same projects. Minimum requirement of evidences for technical evaluation are mandatory and any extra has more points based on below table. i. Required evidence for List of Clients (where managed SDH/ MPLS-TP/ IP-MPLS has been performed) terminated projects from 2013 and afterwards. Images of award letter, the pages of the contract and any other documents showing project price and volume of the project. (No. of implemented telecom nodes shall be identified); The clients' contact information should be clear in any evidence. ii. Required evidence for Satisfactory Services Certificate by Clients (Mentioned clients in the above item); The bidder whose total project volume is the highest will be taken as the base figure of maximum point. The point of other bidders will be normalized accordingly. iii. skills, qualifications, knowledge and experiences are critical to the performance of the Services under the Contract and Curricula Vitae (CV) will be taken into account in the technical evaluation of the Consultant's proposal Remarks: Evidence for bidder's experiences should be fully complied with that as stated in ranking method at Page 54 of Volume 1 of 2.	Please follow the Bid document.
11	Section III - Evaluation and Qualification Criteria: 1.1 Qualification Criteria (ITB 32.1) [In Volume 1 of 2, at Page 54 & 57]	d. Evidence for bidder's experiences: Bidders shall furnish evidences of all related experiences in the same projects. Minimum requirement of evidences for technical evaluation are mandatory and any extra has more points based on below table. i. Required evidence for List of Clients (where managed SDH/ MPLS-TP/ IP-MPLS has been performed) terminated projects from 2013 and afterwards. Images of award letter, the pages of the contract and any other documents showing project price and volume of the project. (No. of implemented telecom nodes shall be identified); The clients' contact information should be clear in any evidence. ii. Required evidence for Satisfactory Services Certificate by Clients (Mentioned clients in the above item); The bidder whose total project volume is the highest will be taken as the base figure of maximum point. The point of other bidders will be normalized accordingly.	Having the mentioned experiences, which are not very strict, is a must for all bidders, according to the issued bid document. Please follow the bid document.

		iii. skills, qualifications, knowledge and experiences are critical to the performance of the Services under the Contract and Curricula Vitae (CV) will be taken into account in the technical evaluation of the Consultant's proposal	
		Remarks: Evidence for bidder's experiences should be complied with the requirement as stated in ranking method at Page 54 of Volume 1 of 2	
12	3.1.1 MPLS Router Specification [In Volume 2 of 2, at Page 19] Considering Minimum throughput 64Gbps for Aggregation routers and Minimum throughput 32Gbps for Access routers are mandatory.	Request to change it Minimum throughput 60Gbps for Aggregation routers and Minimum throughput 30Gbps for Access routers.it will not impact the feature and performance of router and it will allow wider participation of OEM/ Supplier/ Bidder.	Your understanding is not correct. Please follow the bid document.
13	6. Proposed Telecom Network Links [In Volume 2 of 2, at Page 43 & 44] Ashuganj - Sirajganj 230 KV- 149.1 Km Distance	Existing optical Transceiver will not cover this distance, please confirm. Do we need to consider optical amplification to cover this distance?	You need to consider any needed device to meet the link budget requirements.
14	8. Technical Data Schedules. Router Datasheet. [In Volume 2 of 2, at Page 47] Clause 67: Unicast Reverse Path Forwarding (uRPF)	Request to make it optional.as this can be achieved using alternate method.	Please follow the bid document.
15	8. Technical Data Schedules. Router Datasheet. [In Volume 2 of 2, at Page 47] Clause 68: Unicast Reverse Path Forwarding (uRPF) Loose mode	Request to make it optional.as this can be achieved using alternate method.	Please follow the bid document.
16	8. Technical Data Schedules. Router Datasheet. [In Volume 2 of 2, at Page 47] Clause 51: MPLS TP: IP-less configuration of MPLS TP tunnels	Request to make it optional. This can be achieved using IP-MPLS Tunnel.	Please follow the bid document.
17	8. Technical Data Schedules. Router Datasheet. [In Volume 2 of 2, at Page 47]	Request to make it optional. This can be achieved using IP-MPLS.	Please follow the bid document.

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	Clause 48: MPLS -TP: IP Less trace support (Nodeid, Linkid)		
18	8. Technical Data Schedules: Router Datasheet [In Volume 2 of 2, at Page 47] Clause 45: L3 ATM support on RSP2 and ASR920	Request to make it optional. OEM specific.	An addendum is issued regarding this. Please refer the Addendum-01, SI-05
19	Vol. 1 of 2 GCC 24.1 Third Party Liability Insurance: a minimum coverage in accordance with the applicable law in the Bangladesh....	Please mentioned the percentage (%) of Contract Price	Third Party Liability Insurance: BDT 20,000,000.00 (Twenty Million BDT) only
20	Vol. 2 of 2 Clause 1.1 The duration of this project is 10 months from the contract effective date. The contract effective date shall be counted from the date of contract signing	The Contract effective date shall be counted from the date of advance receive.	Please follow the Bid document. The contract effective date shall be counted from the date of contract signing.
21	Vol. 2 of 2 Clause 1.1 After site survey in place without sufficient dark fiber and/or other preparation required in substations/stations (Nodes), the contractor should inform PGCB officially	Our Understanding is that PGCB will give alternet fiber or network connections to complete the project. Please confirm.	Your understanding is correct.
22	Vol. 2 of 2 Clause 1.1 In order to provide IP/MPLS with MPLS-TP capability transport network for monitoring and control facilities of 37 substations/stations at the National Load Dispatch Center (NLDC) and Back up NLDC (BNLDC) the following provisions shall be made under the contract.	Our Understanding is that MPLS based Transport Network can be either IP/MPLS or MPLS-TP on the Line side. And to get better OAM of the network, we are proposing MPLS-TP on the Line side on each node of this network and IP/MPLS at drop side on each node of this network. Please confirm.	Please follow the Bid document.

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23	Vol. 2 of 2 Clause 3.1.1 Routers should have interface for tele-protection (distance & differential) per circuits and 1+1 redundancy must be available	Is it card redundancy, means two card C37.94 in protection into the chassis, or 1+1 protection on WAN side (LSP). Please confirm.	Interface redundancy in channel is needed.
24	Vol. 2 of 2 Clause 3.1.1 Routers should have electrical interface for distance tele-protection & IEEE C 37.94 interface (optical) for differential protection..... For distance protection required number of commands per circuit in different voltage levels: • 132 kV system >> 4 commands/circuit • 230 kV system >> 8 commands/circuit • 400 kV system >> 8 commands/circuit	Our Understanding is "Electrical interface for distance teleprotection" means Transfer Trip Interface. For single circuit 132 KV Voltage Level distance protection we need to supply 4 number of "Transfer trip interface". Please Confirm.	Your understanding regarding "Electrical Interface for Distance Teleprotection" is correct.
25	Appendix 5 Proposed Physical Topology MPLS	Our understanding is that we need more than 2 core in the following fiber links. 1) Meghnaghat 230 - Cornilla North : 4 Core 2) Meghnaghat 230 - Haripur : 4 Core 3) Haripur - BNLDK : 4 Core 4) Meghnaghat 400 - Meghnaghat 230 : 8 Core. Please confirm.	Each link requires Two cores.
26	Appendix 6 Power Supply for New Panel in existing sites	Our understanding is that PGCB will provide /arrange AC-DC Dual Power Source in each site. Please confirm.	Your understanding is correct.
27	Volume 1 of 2 Section IV Bidding Forms Form of Curriculum Vitae (CV)	We did not find anything named TECH-5 in the bidding document. Please clarify.	An addendum is issued regarding this. Please refer the Addendum-01, SI-01

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	List all deliverables/tasks as in TECH- 5 in which the Expert will be involved.		
28	Volume 1 of 2 Section II - Bid Data Sheet ITB 22.1 Bid Submission Deadline The Bid Submission Deadline is January 08, 2024.	As you know that for Christmas Holiday and New Year Holiday, manufacturers will not respond upto 15th January, 2024. For this reason manufacturers are requesting us to provide them some more time to prepare the required tender documents precisely. Moreover, Our National Election will be held on 07th January, 2024. Therefore, it is becoming difficult for us to get the tender security from bank due to overall political situation. In this situation we are going to lag far behind while submitting the tender on time. Thus, we need One Month extension of the tender submission time.	Please follow the existing bid submission deadline as per bid document.
29	Volume 2 of 2 1.1 Description of the Overall Project It is needed to establish a Communication Infrastructure in five regions of Dhaka1, Dhaka2, Chattogram, Khulna and Bogura, as depicted	Today, reducing the carbon footprint and global warming are two main concerns that are being addressed and Bangladesh is one of the countries that will suffer most from the effects of global warming. In view of this please confirm Bidder can use existing Communication Infrastructure meeting or exceeding functional requirements of the Project Specification using Proven MPLS-TP Technology for Transmission Utilities for Distance and Differential Protection Application.	This specification is to design a communication network to meet the present and future needs of PGCB and there is no impact as you mentioned.
30	Volume 2 of 2 1.1 Description of the Overall Project After site survey in place without sufficient dark fiber and/or other preparation required in substations / stations (nodes), the contractor should inform PGCB Officially.	Kind note that Optical Fiber is a important Resource allocating separate fiber without any tangible benefits to PGCB will be real waste of resource. In view of this we request you to allow Bidder to offer MPLS-TP Technology using existing Infrastructure	Our goal is to have a communication network that could be considered part of PGCB's future network. So, it is expected this network to be extendable, considering both geographical extension and capacity extension for the future. Please follow the bid document.
31	Volume 2 of 2 1.1 Description of the Overall Project	Current Technical Specification is drafted considering only 1 or 2 OEMs Meeting IP-MPLS with MPLS-TP Technology. Currently Specification is keeping all Utility Specific Suppliers	Please follow the Bid document

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	The Services including SCADA, VOIP Teleoone and Teleprotection (both Distance and Differential) shall be considered for every station.	
32	Volume 2 of 2 1.1 Description of the Overall Project C. Supply of required equipment in accordance with the specification and meeting point requirements regarding respective substation automation system (Routers , Gateways, Switches, Firewalls , VOIP Phones , NMS, Passice Equipment and spare Parts	Following are Key Features required for Substation Automation System 1. Routers, Gateways and Ethernet Switches must comply to IEC 61850 for substation automation system 2. Please confirm suitable Type Test Reports from Reputes Agencies required along with the Offer. 1. Switches and routers should comply and support IEC 61850. SCADA gateways should at least support IEC 61850 and IEC 60870-5-104 and should be able to work as protocol converter between DCS substations and SCADA control centers. 2. All type tests of proposed SCADA gateways, switches and routers should be delivered with tenderer's offer. It should

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			be noted that for complying IEC 61850 and IEC 60870-5-104 standards for gateways, test certificates from the original manufacturer is needed. Test and certificate body should be accredited body and a member of ILAC (International Laboratory Accreditation Corporation)
33	Volume 2 of 2 2.1.1 Environmental Conditions Equipment shall be capable of operating continuously with no degradation of performance when the ambient temperature ranging from -5 degrees C° to +45 degrees C° with relative humidity 95 percent non-condensing;	PGCB Standard Technical Specification for Gateways is asking Operating Temperature. "12.1.1 Operation - Unit (C) , PGCB's requirements (-10 to +55C)"	An addendum is issued regarding this. Please refer the Addendum-01, SI-05

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34	Volume 2 of 2 2.2.1 Quality Control and Quality Assurance As a means of ensuring these objectives the vendor shall maintain a documented quality control and quality assurance which shall be generally in accordance with ISO standard ISO 9001 or approved equivalent. The vendor shall ensure that the same requirements are applied to products, systems and service supplied by sub-vendors and suppliers	ISO 9001, ISO 140001 and ISO450001 are asked in PGCB Tender Technical Specification. Please confirm requirements for subject Project Bidders and Sub vendors need to comply.	Please follow the Bid document.
35	Volume 2 of 2 2.2.3 Interchangeability To limit the required stock of spare parts all equipment and parts thereof performing similar duties shall be interchangeable.	Please confirm which all functionalities PGCB want in subject tender to be Interchangeable.	Processors, Line and Access cards should be interchangeable
36	Volume 2 of 2 2.2.4 Mechanical Construction PCB shall be fabricated from glass-epoxy or better material and shall be at least 1.58mm thick.	Please Clarify.	Please follow the Bid document
37	Volume 2 of 2 5 Network Management System Network Management System (NMS) is used to manage the entire network from NLDC and/or BNLD as there is a full database	Please confirm "the user could have integrated monitoring on all equipment and can implement end-to-end services, in addition the user has the overall view of the network". Our Understanding of all equipment means Routers, Distance and Differential Protection Couplers including end to end services must be controlled and monitored from Network Management System. Please confirm our understanding is correct.	All telecom equipment proposed by bidder should be managed by an integrated network Management system.

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	synchronization between these two sites. Therefore, by using this system, the user could have integrated monitoring on all equipment and can implement end-to-end services, in addition the user has the overall view of the network.			
38	Volume 2 of 2 7 Redundancy Network availability goal is five nines so vendor should propose with accommodable MTBF and MTTR to achieve required high There is no Alternative path and/or additional link between two connectivity, so redundancy should be seen in equipment according - Full Redundancy (Processor, Power, Card Lines, Access - Redundancy in Processor, Power for Access Routers	Redundancy is important for Mission Critical Communication Network. Please confirm Redundancy Offered using Distributed Power Supply Concept offered will be acceptable. Redundancy for Protection application should be Hitless please confirm our understanding is correct.	1+1 redundancy for power and processor cards in all equipment and 1+1 line cards redundancy for aggregation/core nodes are mandatory	
39	Volume 2 of 2 8 Technical Data Schedules Router Datasheet Auto IP	Automatic Private IP Addressing is also known as APIPA or Auto IP, is a Method of automatically assigning IP addresses to networked computers and printers. A networked device configured to use Auto IP first makes a request to a DHCP server for an address. If the device does not receive an IP address, which happens when there is no DHCP server on the network or when the DHCP server is not responding, the device assigns itself an address. Auto IP addresses always follow this pattern: 169.254.x.y, where x and y are any two numbers between 0 and 255. Unlike DHCP, Auto IP does not require a router or a separate server to assign an IP address. If a network is configured with IP addresses for a different network than 169.254.x.y, devices with Auto IP addresses will not be able to communicate properly. Unless a network is intentionally configured using Auto IP addresses, a device with an Auto IP address is a sign that there is a problem with the network. Most networks using automatic IP address	Please propose based on the Bid document	

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		configuration for new devices use DHCP, not Auto IP. Devices with Auto IP addresses that should not have them can be a sign that there is an issue with the router or DHCP server, or with cabling. On a wireless network, Auto IP addresses can also indicate that interference or an obstacle is preventing normal network communications. There is no application in the Subject Tender for Assigning Automatic IPs hence this requirement is not mandatory requirement please confirm	
40	Volume 2 of 2 8 Technical Data Schedules Router Datasheet Any Transport over MPLS (AtoM): Ethernet over MPLS (EOMPLS)	We request you to confirm Any Transport over MPLS-TP as well as Ethernet Transport over MPLS-TP will be accepted if it meets PGCB Functional Requirements	Only, EoMPLS is not enough, it should support transport PPP and HDLC as well
41	Volume 2 of 2 8 Technical Data Schedules Router Datasheet ATM/IMA/PPP/MLPPP Support on OC3 Interface Module	ATM/IMA - Inverse Multiplexing for ATM is a standardized technology used to transport ATM traffic over a bundle of T1 or E1 Lines. PPP/MLPPP on OC3 - OC3 is Module of One Specific OEM who can meet this Functionality using only their Router with Model No. ASR 900 Router. This is completely Against World Bank Transparency Rules and Against any Functional Requirement of PGCB. PGCB Does not have any functional requirement of Transport of E1 Network of Analog Voice which is being replaced with VOIP Technology. There is no application or requirement for subject Technology and subject feature for PGCB application	More than one vendor supports these functions however ATM/IMA is not mandatory and will be updated in the Technical Tender doc. So please follow the Bid document and addendum 01.
42	Volume 2 of 2 8 Technical Data Schedules Router Datasheet BGP-Accumulated IGP BHP - iBGP NSR BGP GSHUT Enhancement BGP GSHUT enhancement BGP Monitoring Protocol BGP PIC (edge & core) - for RFC 3107 labeled iBGP BGP PIC edge for IP/ MPLS	BGP is Border Gateway Protocol and used only by Large Public Networks for their Internet Backbone. BGP is designed to quickly route traffic from source to destination across the entire internet. BGP is an example of Example of an exterior gateway protocol. External gateway Protocol connects large autonomous systems. Globally All Power Transmission Companies are using MPLS-TP Protocol and Nobody have implemented Mission Critical Communication Network using BGP Protocol. This is included in Tender Specification to benefit only 1 or 2 OEMs offered IP-MPLS Solution.	Please propose based on the Bid document

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43	Volume 2 of 2 8 Technical Data Schedules Router Datasheet BX Optics	This Specialised SFPs work only with One Vendor Router and not proven to used using Open Transference Standards hence can not be confirmed. Please clearly specify the functionality	Your understanding is not correct.
44	Volume 2 of 2 8 Technical Data Schedules Router Datasheet EVC Local Connect	This Specialised Function work only with One Vendor Router . Please clearly specify the Functionality	Your understanding is not correct.
45	Volume 2 of 2 8 Technical Data Schedules Router Datasheet EVPN VPWS	This can be also achieved using MPLS-TP VPWS - Please confirm if achieved using MPLS-VPWS. This will be acceptable	Please propose based on the Bid document
46	Volume 2 of 2 8 Technical Data Schedules Router Datasheet Egress QoS Support on MLPPP Bundle (Strict Priority Queuing) Egress Shaping on MLPPP Bundle	MLPPP is Multilink Point to Point Protocol bundles multiple serial wide area network into a logical Bundle. There is no application of Bundling Multiple Serial WAN in PGCB. Please highlight special functionalities where MLPPP is used in PGCB Network	Please propose based on the Bid document
47	Volume 2 of 2 8 Technical Data Schedules Router Datasheet Ethernet Data Plane Loopback	The Ethernet Data Plane Loopback functionality is provided by only One Vendor Router. This Functionality can be provided by any MPLS-TP router using Ethernet Loopback Facility in Ethernet L2 Module. We request you to please clearly specify the requirement to confirm compliance.	please refer to the addendum 01 and the Bid document
48	Volume 2 of 2 8 Technical Data Schedules Router Datasheet Ethernet Fault Detection	This is required only in pure Telecom Networks working without any redundancy and Ring Network. This is also clearly specified functionality by One Router Vendor. We can achieve this using Network Management System with Service Down feature whenever Ethernet Port of the Module is not active. This Alarm will come in the Module as well as in Network Management System. Please confirm if this will be acceptable.	please refer to the addendum 01 and the Bid document
49	Volume 2 of 2 8 Technical Data Schedules Router Datasheet	Please confirm VPLS Redundant Tunnel using MPLS-TP Technology will be acceptable	Your understanding is not correct.

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	H-VPLS N-PE Redundancy for MPLS Access		
50	Volume 2 of 2 8 Technical Data Schedules Router Datasheet IGMP State Limit	IGMP - Internet Group Management Protocol is a protocol that allows several devices to share one IP address so that all devices can receive same data. There is no application of PGCB where All Devices with same IP address and same data required. Please specify Functions where IGMP compliance is required.	Your understanding is not correct.
51	Volume 2 of 2 8 Technical Data Schedules Router Datasheet IOS VRF Multicast Multi-Topology Support	Multitopology Routing Configuration is supported by one or Two router Vendors. Please specific PGCB functionality for support requirement.	Please propose based on the Bid document and addendum 01.
52	Volume 2 of 2 8 Technical Data Schedules Router Datasheet IP FRR over BDI IP FRR / Remote LFA FRR with L2VPN	IP Fast Re Route is required when using IP-MPLS for bringing Deterministic Behaviour. This can be achieved using MPLS-TP Technology without IP-FRR Over BDI. We request you to confirm if offered using MPLS-TP Technology will be accepted.	Your understanding is not correct.
53	Volume 2 of 2 8 Technical Data Schedules Router Datasheet IPv6 MVPN with MLDP IPv4 unicast routing support. IPv6 Multicast: PIM Source. Specific Multicast (PIM-SSM) IPv6 Routing: IS-IS Support for IPv6 IPv6 Routing: OSPF for IPv6 (OSPFv3) IPv6 Routing: Static Routing IPv6 Services: Extended Access Control Lists	IPv6 and ISIS are required in Very Large Public IP-MPLS Network. It does not bring any technical Advantages to PGCB for Mission Critical Communication application requirements.	Your understanding is not correct.

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	IPv6 Switching: CEF/dCEF Support IPv6 VPN over MPLS (6VPE) IS-IS - MPLS LDP Autoconfiguration ISIS IPv4 - link TLFA FRR protection		
54	Volume 2 of 2 8 Technical Data Schedules Router Datasheet Interfaces MIB: SNMP context-based access L2VPN Protocol Base CLIs L2VPN Protocol Based CLI L2VPN: PW Status for Static PWs L3 ATM support on RSP2 and ASR920 L3 Security ACL for EVC support Label Switched Multicast (LSM) Multicast Label Distribution Protocol (MLDP) based Multicast VPN (MV/PN) support MPLS -TP: IP Less trace support (NodeId, LinkId) MPLS LDP Auto config TE Tunnels (ISIS only) MPLS TE - Bundled Interface Support (EtherChannel and MLP) MPLS TP: IP-less configuration of MPLS TP tunnels MPLS Traffic Engineering (TE) - Fast Reroute (FRR) Link and Node	GTP of Specific Vendor Router and Features are copy and pasted in PGCB Tender Specification. We request you to clearly highlight specific functional requirement standard compliance as One Vendor Specific Requirements with mentioned vendor router number is against world bank transparent tendering rules and regulation.	Please propose based on the Bid document and addendum 01.

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55	Protection Volume 2 of 2 8 Technical Data Schedules Router Datasheet Model Based AAA Multi-protocol BGP (MP-BGP) - MPLS VPN OSPFv2 link-protection Topology Independent Loop Free Alternate Fast ReRoute E29 PPP PPP MLP MRRU negotiation configuration Policy-Based Routing (PBR) QoS Priority Propagation in Multi-level Scheduler RSVP - Resource Reservation Protocol Remote LFA FRR and labeled BGP FRR integration Routed Pseudo-Wire and Routed VPLS Smart Licensing Client Support for IEEE 1588-2008 Precision Clock Synchronization Protocol Synchronous Ethernet (SyncE): ESMC & SSM Uni Directional Link Detection Protocol Unicast Reverse Path Forwarding (uRPF) Unicast Reverse Path Forwarding (uRPF) Loose mode	GTP of Specific Vendor Router and Features are copy and pasted in PGCB Tender Specification. We request you to clearly highlight specific functional requirement standard compliance as One Vendor Specific Requirements with mentioned vendor router number is against world bank transparent tendering rules and regulation.	Please propose based on the Bid document and addendum 01.
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	VPLS BGP Signaling Virtual Private LAN Services (VPLS) WAN mode support		
56		01.ROUTERS: ALLOWING SINGLE MANUFACTURER BY BYPASSING WORLD BANK REGULATION & PPR 2008 & CIGRE World Bank at the Forward of its Procurement Regulations clearly mentioned that "Core Procurement Principle" shall be, among others, "Fit for Purpose". And to corroborate this Principle, World Bank stipulated in clear terms at Clause 5.26 of page 19 that: "5.26 Standards and technical specifications in applicable Procurement Documents shall promote the broadest possible competition, while ensuring performance or other requirements for the procurement. To the extent possible, in international competitive procurement, the Borrower shall specify internationally accepted standards with which the equipment, materials or workmanship shall comply."	Your understanding is not correct. please follow the Bid document
57		02. GATEWAY: CONFUSION BY ALLOWING SOME PARTICULAR MANUFACTURERS Only 4 (four) Gateways will be procured. In the Datasheet (similar to usual Guaranteed Technical Particulars-GTP) Bidders have been asked to Guarantee some features, outlined in 7 (seven) items. These items have been superseded by 21 (twenty one) "Mandatory facilities" with a Cautionary NOTE at Page 19 of Volume 2, that any bidder who does not meet even a PART of any of these Mandatory Facilities, the "whole proposal" will be rejected.	Your understanding is not correct. please follow the Bid document
58		03.REQUEST FOR BID (RFB): RATED-TYPE EVALUATION CRITERIA Unlike "Request for Proposal (RFP)", Request of Bid, as stated by World Bank in Clause 6.5 and 6.6, "is a competitive method for the solicitation of Bids" where "the Borrower is able to specify detailed requirements to which Bidders respond in offering Bids" and hence "Rated-type evaluation criteria are normally not used with RFB".	Your understanding is not correct. please follow the Bid document

59		In accordance with above, we appeal to you to kindly amend by deleting "subjective" Qualification Criteria at Point 3 (i) and (iv) at Page 54 of Volume 1 of Bid Documents. 04.SITE SURVEY: PROTECTION RELAY Integrating Protection Relays, is the vital requirement for this Project and we need to have exact Make, Model, Type of Protection Relays that needs to be connected. This will save huge amount of time in implementation. In this respect, kindly note that this Project is a Nationwide Implementation Project involving all SPMC Zones, 4 (four) TRTUC Zones and GMDs. For a Bidder to visit and make site survey by coordinating all involved sites (40 plus) will require, at least two months as per our modest experience working in PGCB. Finally, we earnestly request you to make this Bid a truly "open", "competitive" bid allowing all to offer the bids in a level playing field. However, the Qualification Criteria specified is Restrictive in Quantity (proportional to quantity of procurement) and Application thereof. This will restrict the bid for "one or scanty number of bidders", which is forbidden also in PPR 2008. For example: While only 37 Routers will be purchased, the highest score is for 400 (four hundred) or more nodes and application is limited to "utility" or in "Power" sector whereas there are other Mission Critical Applications exists. Therefore, we humbly request to change the quantity to be "100 (one hundred) Nodes" for highest score and in applications/sector to amend as "Utility/Power/Mission Critical Sector" instead of "Utility Sector" or "Power Sector" only by merging Factor (1) and (2). (Section III - Subsection 1.1 - Qualification Criteria (ITB 32.1) - Ranking Method)	Please Consider 74 Contact Multiplier Relays. Refer to addendum 01	
60			Your understanding is not correct. please follow the Bid document	

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61		This Project Bid is "RFB (Request for Bid)". According to World Bank Procurement Regulation, for RFB, only QUANTIFIABLE Evaluation Criteria is to be followed. According to the Procurement Regulation, had this been a RFP (Request for Proposal), Evaluation Criteria such as "Conceptualisation of Methodology" could be a criteria of judgement. We, therefore, request you to delete such criteria from this Request for Bid and Factor Criteria Number 3 be amended, keeping 3 (ii) and 3 (iii) only.	Your understanding is not correct. please follow the Bid document
62		Router With our experiences of about three decades in Routers in particular, we can assert that Router Specifications can be fulfilled by a SINGLE manufacturer ONLY, thus stifling competition. Many (about 50%) items (features) of Router Datasheet are legacy, no more used and not appropriate for Power Utility.	Your understanding is not correct. please follow the Bid document
63		Only 4 (four) Gateways will be procured. The specifications given are confusing. Gateway Datasheet (where Guarantee is needed), specifies 7 (seven) numbers of requirements. On the other hand, we found a highly "unusual" statement in an Open Competitive Bid, as given below:	Your understanding is not correct. please follow the Bid document
64		In the Request for Bids "Goods" under Volume II of 2 "section 11 list of Goods and delivery schedule line Item No: 14 " there is a requirement for " Contact Multiplier Relay (CMR) as required by the site survey". Here the complexity comes with this requirement as the site visit will be conducted after awarding the NOA and while quoting the price the exact number of relays that might need to change is unknown yet.	Please Consider 74 Contact Multiplier Relays. Refer to addendum 01.

JKS