

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-02

Issued on 10.01.2024

All comments, queries and requests for clarification, regarding the Bid documents, received from prospective Bidders, and relevant replies and clarifications prepared by PGCB, and associated addendums (if any), are part of Bid documents.

Sl. No.	Volume / Section / Clause / Item / Page / Reference	Description and Queries of Prospective Bidders	Reply from PGCB
1	Addendum-01	From the Addendum we understood that the telecom router technology required by the employer is IP/MPLS, not MPLS-TP thus the text "IP/MPLS with MPLS-TP Capability" is replaced by "IP/MPLS". While in the Volume-2, Section III – Evaluation and Qualification Criteria, d. Evidence for bidder's experiences, The requirement text is as follows "i. Required evidence for List of Clients (where managed MPLS-TP has been performed) terminated projects from 2013 and afterwards." Please clarify whether the text would be interpreted as	Following addendum-01, In the Volume-1, at page 57, d. i. the word "MPLS-TP" shall be read as "IP/MPLS".





Clarification-02

PGCB/WB/BPSREIP/P-3/LOT-4

		"i. Required evidence for List of Clients (where IP/MPLS with tele-protection, PMU has been performed) terminated projects from 2013 and afterwards."		
2	Volume 1, Section III – Evaluation and Qualification Criteria, 1. Qualification Criteria, 1.1 Qualification Criteria (ITB 32.1), (b) Specific Experience	In Volume 1, Section III – Evaluation and Qualification Criteria, 1. Qualification Criteria, 1.1 Qualification Criteria (ITB 32.1), (b) Specific Experience, it is mentioned that "(iii) The Bidder shall have participation as a contractor in at least three similar contracts 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." There has been no definition of "similar contracts" instead there is a definition of "Similar Goods". Our understanding is that "Similar contracts are those contracts where similar goods are used together i.e. IP/MPLS router with SCADA communication, Distance Protection and Differential protection, NMS, Gateway, RTU." If those similar goods were not used together those contracts are not to be considered as "Similar Contracts"; for example, if a project of SCADA integration is completed with RTU and Gateways only, that project won't be considered as "similar Project". Please confirm our understanding.	Please follow the bid document.	
3	volume 2, 1. Scope of Works 1.1 Description of Overall Project	3. In volume 2, 1. Scope of Works 1.1 Description of Overall Project, it is stated that "The scope of the project is to transmit all data that is received from 37 nominated substations/stations of the PGCB transmission network (through gateways that are connected to their DCS systems) to main and backup control centers (NLDC and BNLD). We understand that we need to collect all data from 37 nominated substations/stations of the PGCB and transmit to NLDC and BNLD. Please confirm us whether our understanding is correct or not.	Your understanding is correct	
4	General	We understand that the technology with IP/MPLS router that includes tele-protection is not very common. We are bit surprised to see that there is no requirement for documentary evidence from the bidder where this technology is successfully performing for a number of years from the end user. Moreover, there's no clause of disqualification of failing to provide the type	For type test please follow the reply Sl. 32 of Clarification-01, For failure bidder shall not be disqualified whereas equipment shall not be accepted.	

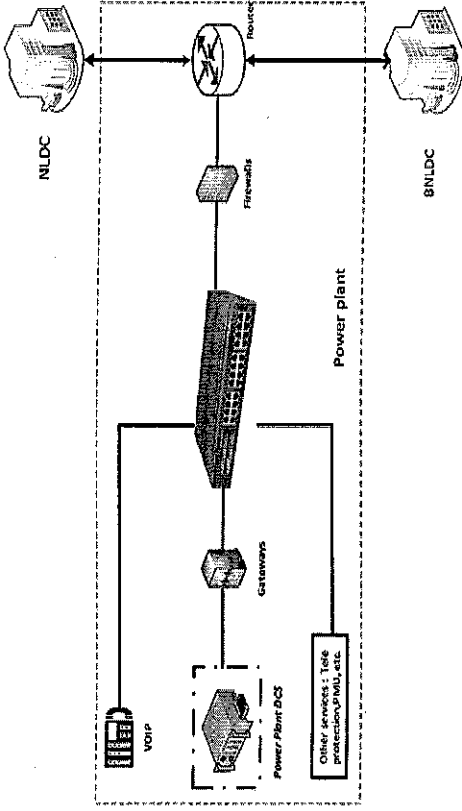




		test report of anything.	
5	Clarification-01	We understand that this project is an experimental project for PGCB. In the clarification, it is mentioned that this project is meant to be for the future needs of PGCB as there are telecom equipment everywhere in the network of PGCB. But we don't find anything in the tender documents for the future applications of PGCB using such technology. We request the employer to describe the future applications and plans of PGCB using the telecom system so that bidders like us can design accordingly. (Application may include the bandwidth, reliability and other requirements) In Volume 2, 3. Active Equipment Specification, 3.1 IP/MPLS Equipment Specification, 3.1.1 MPLS Router Specification it is mentioned that "Certification of tele-protection functionality from renowned test lab is advised to be confirmed for proposed Router" The work "Advised" does not make any good understanding. If it is required, we understand that failing to provide these certificates will reject the proposal. And also please specify the list of labs. In Volume 2, 3. Active Equipment Specification, 3.1 IP/MPLS Equipment Specification, 3.1.1 MPLS Router Specification it is mentioned that "Routers should support all MPLS protocols and especially MPLS-TP." It is contradictory to the addendum. In Volume 2, 3. Active Equipment Specification, 3.1 IP/MPLS Equipment Specification, 3.1.1 MPLS Router Specification it is mentioned that "Routers should have electrical interface for distance tele-protection & IEEE C 37.94 interface (optical) for differential protection." We understand that the router itself would have the electrical interface for distance tele-protection & IEEE C 37.94 interface (optical) for differential protection, not by any 3rd party external device.	All of services for future PGCB's communication network are mentioned in Vol 2 of Bid document Please follow the reply of Sl. 04 of Clarification-02 Your understanding is not correct. The router should have MPLS protocols where MPLS-TP one of them. Integrated tele-protection solution with ubiquitous management system is mandatory, no matter it is a built-in line-card on router or a separate module, provided that in later case should be monitored in the same NMS.
6	Volume 2, 3. Active Equipment Specification, 3.1 IP/MPLS Equipment Specification, 3.1.1 MPLS Router Specification		
7	Volume 2, 3. Active Equipment Specification, 3.1 IP/MPLS Equipment Specification, 3.1.1 MPLS Router Specification		
8	Volume 2, 3. Active Equipment Specification, 3.1 IP/MPLS Equipment Specification, 3.1.1 MPLS Router Specification		

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9	Clarification-01	In case of the previous clarification to be opened to 3rd party external devices, please mention the requirement of the test report requirements for those equipment. Also, let us know whether the employer requires standalone test for those equipment or requires integrated test report from a renowned laboratory.	Generally, any type tests certificate should be issued by approved test and certificate laboratories like Kema, Ofgem, ... all of them are under ILAC. It is the responsibility of the original manufacturer to provide it, and the bidder should only request them to share that certificate in this Tender. (with no imposed cost to the bidder)
10	General	 Please refer to the diagram below provided in tender documents it is understood that the IP/MPLS router would also be used for PMU. For the PMU C37.118 communication protocol has to be used. If the C37.118 protocol has to be used, there has to be a requirement in type test report.	If you as a solution provider are going to use a device that its original manufacturer claims that, protocol C37.118 is supported by this device, then they should share the image of that license without imposing any cost to you, the bidder. (solution Provider)

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11	Volume-2, 8. Documentation	In Volume-2, 8. Documentation, the requirements of documents are as follows "Documentation shall be comprised of below principal elements: 1. Equipment should have a complete set of manuals for installation, operation, maintenance, block diagrams, schematics and implemented software documentation (including operating system, etc.); 2. Manuals shall describe in detail the function, design and construction of each section of equipment (software and hardware) and the recommended procedure for operation, 3. servicing, maintenance and Upgrade equipment to meet the future needs on paper and CD/DVDs; 4. All the equipment internal connections should be given in detail; 5. All the schematic drawings for the printed circuits boards and part locators should be given in detail; 6. Software documents for all the firmware should be given; 7. Configuration and test software manuals and documents should be provided both in electronic format and hard copies; 8. All the documents, configuration and test software tools should be in English." There has been no requirements of 1. Test reports of offered items 2. End User satisfaction report for a. NMS in any utilities that is used with IP/MPLS (it is to mention that NMS concept is not very popular in IP/MPLS) b. IP/MPLS end user satisfaction report for a certain period of time. (It is to mention that IP/MPLS is not common for Tele-protection and PMUC. Gateway / RTU etc. Please clarify the requirement on above.	Please refer to the Bid document
12	Volume 2, Section III (Evaluation and Qualification Criteria)	<u>"FIT for PURPOSE" as per World Bank & CIGRE (International Council on Large Electrical System)</u> In Volume 2, Section III (Evaluation and Qualification Criteria), PGCB sought in point (d)i., for evidence from Bidder, List of Clients, where managed MPLS-TP has been performed. This requirement is in line with recommendations of CIGRE. Whereas, in Addendum 01, requirement of MPLS-TP is deleted. Please clarify above contradiction.	Please follow the reply of SI 01 of Clarification-02.
13	Volume 1, Section III – Evaluation and Qualification Criteria, 1. Qualification (ITB)	<u>Clarification for the word "similar" as used in "similar contract" & "similar goods".</u> In view of above, we also request you to clarify the generic word "similar" where "similar contract" and "similar goods" have been mentioned (Please	Please follow the bid document.

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	32), 1.1 Qualification Criteria (ITB 32.1), (b) Specific Experience.)	refer to Volume 1, Section III – Evaluation and Qualification Criteria, 1. Qualification (ITB 32), 1.1 Qualification Criteria (ITB 32.1), (b) Specific Experience.).	
14	Clarification Serial 29	This has now become very pertinent and absolutely relevant, as we are not certain what PGCB has in mind by the word “similar”. Clarification needed about “FUTURE NEEDS” In Clarification Serial 29, PGCB mentioned: “This specification is to design a communication network to meet the present and future needs of PGCB” However, we have gone through the bidding documents and do not find any mention of “future needs” with indication of applications as PGCB’s “future needs”. Without such details and descriptions, no design is possible just based on guess-work. Kindly clarify what are the “future needs” of PGCB relevant to such design. NMS in IP/MPLS by any power utility One of the main reasons for developing MPLS-TP is anti-concept of IP/MPLS for using NMS for static and deterministic routing. Power Utilities around the world is transforming its networks to MPLS-TP. Therefore, please confirm End-User Certificate from Power Utility using MPLS-TP would be sufficient to qualify, as PGCB envisaged in Volume 2, Section III, Evidence for Qualification that “MPLS-TP has been performed”. Our research deducted that IP/MPLS router that includes tele-protection is rare. Successfully running of such router in Power Utility for many years is hard to locate.	All of services for future PGCB's communication network are mentioned in Vol 2 of Bid document
15	Volume 2, Section III, Evidence for Qualification		Please refer to reply SI No. 01 & SI No. 08 of clarification-02.

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16	Volume 2, 3. Active Equipment Specification, 3.1 IP/MPLS Equipment Specification, 3.1.1 MPLS Router Specification, 3.1.1 MPLS Router Specification	<u>Contradiction of Addendum with Specifications</u> Please refer to Volume 2, 3. Active Equipment Specification, 3.1 IP/MPLS Equipment Specification, 3.1.1 MPLS Router Specification, specifies that: "Routers should support all MPLS protocols and especially MPLS-TP." The Addendum is contradictory to above specifications. Kindly clarify.	Please follow the reply of Sl. 07 of Clarification-02
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