



INDRADHANUSH GAS GRID LIMITED

(Joint Venture of IOCL, ONGC, GAIL, OIL and NRL)

GUWAHATI, ASSAM

2nd REPLY TO PRE BID QUERIES

FOR

**TELECOMMUNICATION SYSTEM FOR PIPELINE
SECTIONS (1,2,3,4,5,6,7,8,9,12,13&14) UNDER NORTH EAST
GAS GRID PIPELINE PROJET OF M/s IGGL**

OPEN DOMESTIC COMPETITIVE BIDDING

Tender no.: 05/51/23VC/IGGL/097

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PREPARED AND ISSUED BY

MECON LIMITED

(A Govt. of India Undertaking)

Delhi, India



2nd REPLY TO BIDDERS QUERIES
TELECOMMUNICATION SYSTEM FOR PIPELINE SECTIONS (1,2,3,4,5,6,7,8,9,12,13&14) UNDER NORTH EAST GAS GRID
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| S.N. | Section/ Page | Section Detail/Description | Clarification / Deviation | MECON's Reply |
|----------|---|--|--|---|
| 1 | General | | | |
| 1 | Doc. Name: Technical Specification for Telecommunication Systems Doc No: MEC/05/E5/T/TS-097M Rev.: 0, Clause No. 2.3 Design Guidelines for Optical Link Budget Calculations Page 4 of 85 | MPLS-TP (10G)(O) [1+1] link in layer-1 connecting to MPLS-TP (10G) (O) [1+0] link in layer-2 under NEGG MPLS-TP network in line with Telecommunication Network. As per Pre-Bid query response, Bidder to plan the network architecture minimizing the requirement of amplifier and the max link distance for Tier-1 link (interconnecting all IP, DT, RT stations) shall be 65 Kms. | To achieve, MPLS-TP Tier-1 (1+1) network topology interconnecting DT/RT/IP with max up to 65kms distance, we will have to move SV stations (14 Nos. approx.) in Tier-1 links which will lead to multipoint failures and an additional requirement of 10GbE SFP+ transceivers. Bidder proposes MPLS-TP network with Tier-1 (1+0) and Tier-2 (1+0) ring topology, forming a ring between DT/ RT/ IP stations by interconnecting every alternate SV/TOP/IP/DT/RT stations. With this proposed network layout, the max. hop distance will be 49.6km approx. <u>Bidder requests to accept the proposed solution</u> However, as per PJ's Page 10 of 33 Clause 2.2.8, For NAS storage, following shall be provided- The Storage of Cameras shall be distributed among three sets of redundant CCTV servers. The Camera License, for each set of redundant server shall be provided as per following philosophy- (Total No. of CCTV Cameras as per MR)/3 + all Mandatory spares (of the MR quantity of each type of camera for each state)+ 10 + 25% of (MR Quantity+ total Mandatory spares +10). Please confirm and clarify, the philosophy for camera licenses and NAS storage capacity. | MPLS-TP (10G)(O) Tier-1 network shall be [1+0] link in layer-1 connecting to MPLS-TP (10G) (O) [1+0] link in layer-2 under NEGG MPLS-TP network. Rest Tender Conditions Prevail. |
| 2 | Doc. Name: Particular Job Specification for Telecommunication System PJS No: MEC/05/E5/T/23VC/PJS-097 Rev.: 0, Clause No.2.2.8 CCTV NVR NAS Storage capacity Page 9 & of 33 | As per PJ's, Page 9 of 33, Clause No. 2.2.8, Network Added storage (NAS) minimum 150 TB at each location (or higher suitable for at least 90 days backup data of all cameras (cameras as per MR + 10+ Mandatory spare + 25% of (MR + mandatory spare+10)) and finalized during detail engineering). | However, as per PJ's Page 10 of 33 Clause 2.2.8, For NAS storage, following shall be provided- The Storage of Cameras shall be distributed among three sets of redundant CCTV servers. The Camera License, for each set of redundant server shall be provided as per following philosophy- (Total No. of CCTV Cameras as per MR)/3 + all Mandatory spares (of the MR quantity of each type of camera for each state)+ 10 + 25% of (MR Quantity+ total Mandatory spares +10). Please confirm and clarify, the philosophy for camera licenses and NAS storage capacity. | The NAS storage of CCTV system shall be provided as per the following philosophy - At MMS location - Network Added storage (NAS) of minimum 150 TB (or higher suitable for at least 90 days backup data of all cameras (cameras as per MR + 10+ Mandatory spare + 25% of (MR + mandatory spare+10)) and finalized during detail engineering). At each BMS-1 and BMS-2 location - Network Added storage (NAS) minimum 75 TB at each BMS-1 and BMS-2 (or higher suitable for at least 90 days backup data of [(1/2*cameras as per MR + 10+ Mandatory spare + 25% of (1/2*MR + mandatory spare+10))] and finalized during detail engineering). At MMS location, storage and Camera license shall be provided for all cameras (Total No. of CCTV Cameras as per MR) + all Mandatory spares (of the MR quantity of each type of camera for each state)+ 10 + 25% of (MR Quantity+ total Mandatory spares +10) At each BMS-1 and BMS-2 location, storage and camera license shall be provided for (1/2*cameras as per MR + 10+ Mandatory spare + 25% of (1/2*MR + mandatory spare+10)) The location of MMS, BMS-1 and BMS-2 shall be finalized during detail engineering. Rest Tender Conditions Prevail. |
| 3 | Doc. Name: Particular Job Specification for Telecommunication System PJS No: MEC/05/E5/T/23VC/PJS-097 Rev.: 0, Clause No. 2.2.15 Integration with PACS & VHF system Page 11 of 33 | Integration with the PACS (Public Address and Control System) system and VHF system with bidder supplied EPABX system at Guwahati compressor station of IGGL is included in scope of the bidder. All materials (hardware and software) required at bidder's end for integration purpose shall be provided by the bidder. | Bidders understanding is that PACS & VHF systems shall be provided by others. However, PACS & VHF shall be integrated/interfaced with the proposed IP EPABX system. Please confirm, whether Bidder's understanding is correct. | Bidder's understanding is correct. All hardware and software required at EPABX for integration as per tender is included in scope of the bidder. Rest Tender Conditions Prevail. |
| 4 | Doc. Name: Material Requisition for Telecommunication System MR No: 05/51/23VC/IGGL/097 Rev.: 0, Item No. T.E.3 Leased Lines (10Mbps) Page 7 of 9 | Leased lines (10 Mbps) with end to end solution (Hardware & software as required) a) Guwahati to Numaligarh E1/Ethernet for Exchange b) Guwahati to Numaligarh for MPLS-TP NMS c) Guwahati to SV-08 cum DT for Silchar E1/Ethernet for Exchange d) Guwahati to SV-08 cum DT for Silchar for MPLS-TP NMS e) Numaligarh to SV-08 cum DT for Silchar E1/Ethernet for Exchange f) Numaligarh to SV-08 cum DT for Silchar for MPLS-TP NMS | As per PJ's MPLS-TP NMS, IP EPABX system shall be provided at RT Silchar CGD. However, As per MR Item NO. T.E.3 leased lines are specified for SV-08 cum DT for Silchar. Bidders understanding is that leased line are required for RT Silchar CGD instead of SV-08 cum DT for Silchar. Please confirm, whether Bidders understanding is correct. | The location of MPLS-TP NMS , IP-EPABX NMS shall be finalised during detail engineering. Rest Tender Conditions prevail. |

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| 5 | <p>Doc. Name: Material Requisition for Telecommunication System MR No: 05/51/23VC/IGGL/097 Rev.: 0, Item No. T.E.4, Leased Lines (10Mbps) Page 7 of 9</p> | <p>Leased lines (10 Mbps) required for SCADA server FEP/ Centralised server telecom connectivity to meet SCADA requirement, a)) Guwahati to Numaligarh b) Guwahati to SV-08 cum DT for Silchar c) Numaligarh to SV-08 cum DT for Silchar d) Guwahati to All RWS locations (Protection path for RTU polling; vendor to ensure that only active link is to be extended to RTU. Necessary provision of hardware and configuration to be done by vendor.)</p> | <p>Bidders understanding is that leased line are required for RT Silchar CGD instead of SV-08 cum DT for Silchar. Please confirm, whether Bidders understanding is correct. Please specify the RWS locations wherein leased lines shall be provided.</p> | <p>The leased line shall be provided tentatively at RT, Silchar instead of SV-08 cum DT, Silchar. However, the location of leased line shall be finalised during detail engineering and bidder shall provide leased line as per the location finalized during detail engineering. Rest Tender Conditions Prevail.</p> |
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