

Clarification No.-VI to Bidding Document for Package – I : Unified Network Management System (U-NMS) for Central Sector & State Sector Communication in NER under Establishment of State of Art Unified Network Management System (U-NMS) for ISTS & State Utility Communication network in North Eastern Region (NER); Specification No.: CC-CS/1057-NER/CommEqp-4167/3/G4

S.No	Page Reference	Clause Reference	Clause Description	Query Request with Justification	PGCIL response
1	Page 2 of 5 (PDF Doc Page No.277)	Appendix-E - SYSTEM DESIGN PARAMETERS - TABLE 2 – DESIGN PARAMETERS FOR U-NMS FUNCTIONS	Data exchange with other/Offline system application: Historical data; Design Capacity: No. of Parameter specified in Appendix-G; Execution Rate: Scan Rate or by exception; Response Time: 5 Sec	Historical data trend can not be limited for a specific timeline. Kindly suggest/confirm.	Bidder to comply TS.
2	Page 3 of 5 (PDF Doc Page No.278)	Appendix-E - SYSTEM DESIGN PARAMETERS - TABLE 3 – Design Parameters for ISR/Historian System FUNCTIONS	Storage of U-NMS system statistics: SOE Data; Design Capacity: 1 Year; Execution Rate: Every 15 minutes; Response Time: 1 Minute	You are requested to kindly specify the size of Storage Files and details about the Save Cases, Archival of data which need to be considered for storage sizing evaluation. Further referring your response to query that "Data storage shall be finalized during detail engineering" in Clarification No.V Dated: 16-Feb-2021:	Bidder to plan data storage size as per sizing mentioned in TS.
3	Page 18 of 21 (PDF Doc Page No.272)	Vol-II - Appendix D	Tape Library (NAS) Point 3. Function:- Archival of Data on SAN and NAS.	1. Kindly suggest how the bidder will evaluate the storage size and propose the product which can accomodate the PGCIL requirement. 2. We understand that PGCIL will take care of additional commercials, if there any additional requirement of storage, etc. basis on detailed engineering result.	
4	Page 3 of 5 (PDF Doc Page No.278)	Appendix-E - SYSTEM DESIGN PARAMETERS - TABLE 3 – Design Parameters for ISR/Historian System FUNCTIONS	Storage of U-NMS system statistics: Historical information - Storage of files and save cases; Design Capacity: 20 save cases and 20 output results of U-NMS Application; Execution Rate: As per spec; Response Time: 5 Minute;	Historical data trend can not be limited for a specific timeline. Kindly suggest/confirm.	Bidder to comply TS.
5	Page 1 of 1 (PDF Doc Page No.285)	Appendix-G - System Sizing	Domain: Performance Management Sizing Parameter: Performance monitoring file size per hour each existing NMS; Sizing Input:	Performance monitoring file size per hour each existing NMS is not defined. Kindly specify the size. It's not possible for the bidder to collect this information on its own as the system are within jurisdiction of PGCIL.	As clarified earlier, Performance monitoring file size per hour each existing NMS is vendor specific. In order to collect the same, bidder to tie up with respective OEMs which is part of scope.
6	Page 9 of 21 (PDF Doc Page No.13)	1.7.C	Integration of existing NMS and Network Elements (NE) with Main and Back up UNMS System. One channel of each NMS/NE to Main and Back up UNMS center shall be used for redundancy of respective UNMS Centers. The splitter required for redundant channels integration of NEs shall be in the scope of the contractor.	Please clarify about the use splitter in asked solution as UNMS fetch details over the provided media/network on standard protocols. Our understanding is that "channel" will be provided by PGCIL to integrate the underlying network, NMS/EMS, NE's, etc. with UNMS platform. Kindly confirm.	Splitter shall be required to transmit NMS/NE data through redundant channels in case of no port redundancy in NMS/NE.
7	Page 10 of 21 (PDF Doc Page No.14)	1.7.I	Technical and Commercial tie-ups with existing vendors for NMS/NEs and OEM's of UNMS modules.	1. PGCIL shall facilitate the commercial tie up with existing OEM's/Vendors. 2. We also understand that NBI details with standard protocols must be available for each proposed component (NMS/EMS/NE's/etc.) integration with UNMS. In case of non-availability of required interfaces then it shall be excluded from scope of bidder. You are requested to kindly facilitate the above requirements to successful bidder.	Bidder to comply TS.
8	Page 10 of 21 (PDF Doc Page No.14)	1.7.V	Contractor shall supply necessary interface (Hardware and software) for sniffing/tapping the existing NMS/EMS/NEs for parallel operation of new system with existing system.	Kindly define the scope of sniffing/tapping required. What kind of sniffing/tapping required. Please clarify.	Bidder to provide necessary interface, if required, in order to commission the new system without any disturbance on existing system.
9	Page 5 of 20 (PDF Doc Page No.128)	3.2	General Requirements: Identity Manager shall manage to automatically Load and Reconcile Account Data.	Kindly share the detailed requirement of this feature.	Bidder to comply TS.

10	Page 5 of 20 (PDF Doc Page No.128)	3.2	General Requirements: ☑ Manager to identify and eliminate orphan, dormant and ghost accounts automatically.	Kindly share the detailed requirement of this feature.	Bidder to comply TS.
11	Page 6 of 20 (PDF Doc Page No.129)	3.4	User Interface (UI) Environment: A common User Interface shall be provided across applications. It shall provide a common look and feel across all system functions and environments (excluding Historian Systems) including the real time system, backup system.	Each application have own look and feel with respect to OEM. Backup system may be COTS so it is not possible for Common UI. Kindly suggest.	A common User Interface shall be provided across all system functions as per TS.
12	Page 3 of 14 (PDF Doc Page No.146)	4.1	The source codes /web-services based open APIs of the proposed U-NMS shall be provided to the Employer to allow integration with upper-layer or same layer management systems via WSDL or XML/SOAP/HTTPS etc.	Source code cannot be shared , but WSDL can be shared. Kindly confirm on the same.	Bidder to comply TS.
13	Page 6 of 14 (PDF Doc Page No.149)	4.4.4	Facility of data export and import from and to U-NMS system to external system shall be provided as detailed below: - Through OPC Server; Through ODBC; Injection of external values	Why this facility required to access platform DB as UNMS is capable to provide you the desired output/reports from web portal and thorough API's. Kindly clarify.	Bidder to comply TS.
14	Page 11 of 38 (PDF Doc Page No.96)	2.3.3	45) The system shall provide Network planning & capacity optimization tool to study the following in study/ planning mode of the application: i. Present network scenario for network understanding ii. Planning tool shall have provisions for creating scenarios & creating savecases with version provisioning for State/ Area & Regional networks.	Shall the bidder have to provide Network planning & capacity optimization tool for mentioned technologies SDH, PDH, DWDM, CWDM, ASON, OTN, PTN, MPLS, VSAT, Radio etc. which are deployed by multiple vendors for PGCIL? If yes, Please add the same in BOQ, so that bidder can propose the commercials accordingly. Also suggest if these tools have to integrate with UNMS platform.	This is part of UNMS functionality for Network Configuration and Planning management. Bidder to comply TS.
15	Page 1 of 21 (PDF Doc Page No.255)	Vol-II - Appendix D	1 . Servers for Network Resource Management, Design, Activation, Planning & Configuration, Fault Management, Performance Management, Trouble Ticking, Reporting & Dash boarding, Data Historian, PDS Cum Test Bench, Data Replica, Web etc. - (Please fill for each server as per BOQ)	The servers have been asked with RAM of 512GB for different servers. Based on the industry standards of the Computing power required for UNMS requirement, these RAM requirement are very high; almost 4 (four) times. We request you to modify the DRS specifying 8 GB per Core rather than 512 GB, regardless of the number of Cores. The Software OEMs who have optimized their Software to work on lower HW platform would be at a disadvantage by making it mandatory to supply high end servers. The Software OEMs should be given the option to size the Hardware, within certain Indsutry standards like , mimumim 8 Cores or minimum 8 GB per Core etc. This has the potential to reduce the cost of the solution, without impacting the quality of the Solution. This is the practice followed in the Industry for NMS/OSS.	Bidder to quote as per Bid Price Schedule.
16	Page 1 of 21 (PDF Doc Page No.255)	Volume II - Part B - 1	1 . Servers for Network Resource Management, Design, Activation, Planning & Configuration, Fault Management, Performance Management, Trouble Ticking, Reporting & Dash boarding, Data Historian, PDS Cum Test Bench, Data Replica, Web etc. - (Please fill for each server as per BOQ)	The servers have been asked with RAM of 512GB for different servers. Based on the industry standards of the Computing power required for UNMS requirement, these RAM requirement are very high; almost 4 (four) times. We request you to modify the DRS specifying 8 GB per Core rather than 512 GB, regardless of the number of Cores. The Software OEMs who have optimized their Software to work on lower HW platform would be at a disadvantage by making it mandatory to supply high end servers. The Software OEMs should be given the option to size the Hardware, within certain Indsutry standards like , mimumim 8 Cores or minimum 8 GB per Core etc. This has the potential to reduce the cost of the solution, without impacting the quality of the Solution. This is the practice followed in the Industry for NMS/OSS.	Bidder to quote as per Bid Price Schedule.
17	Page 1 of 21 (PDF Doc Page No.255)	Volume II - Part B - 1	1 . Servers for Network Resource Management, Design, Activation, Planning & Configuration, Fault Management, Performance Management, Trouble Ticking, Reporting & Dash boarding, Data Historian, PDS Cum Test Bench, Data Replica, Web etc. - (Please fill for each server as per BOQ)	The BOQ specifies a quantity of 2 Servers for each module of UNMS application in the BOQ. However certain vendors having optimized solution where they are running multiple modules on single servers will be having disadvantage by supplying multiple servers. Bidder should be allowed to size hardware as per the requirement of technical specification. Kindly consider.	Bidder to quote as per Bid Price Schedule.

18	Page 2 of 21 (PDF Doc Page No.256)	Volume II - Part B - 2	2. Servers for Configuration Management Cum CMC, Antivirus, Identity & Patch Management etc. (Please fill for each server as per BOQ)	The servers have been asked with RAM of 256GB for different servers. Based on the industry standards of the Computing power required for UNMS requirement, these RAM requirement are very high; almost 4 (four) times. We request you to modify the DRS specifying 4 GB per Core rather than 256 GB, regardless of the number of Cores. The Software OEMs who have optimized their Software to work on lower HW platform would be at a disadvantage by making it mandatory to supply high end servers. The Software OEMs should be given the option to size the Hardware, within certain Industry standards like , minimum 8 Cores or minimum 4 GB per Core etc. This has the potential to reduce the cost of the solution, without impacting the quality of the Solution. This is the practice followed in the Industry for NMS/OSS.	Bidder to quote as per Bid Price Schedule.
19	Page 6 of 15 (PDF Doc Page No.163)	Volume II - Part B - 5.3	The servers shall be sized such that its processing capacity utilization should not exceed 25% of total processing capacity at peak load.	As per Industry Standards, sizing the Hardware Platform keeping the idle capacity at 75%, is a waste of Computing power. The Tender also asks for sizing the Hardware sizing for additional 200% Network Expansion; or total 300% Capacity. 200% Additional Network Expansion has the potential to call for atleast doubling the computing power. Which in other words mean that, with the ask of 25% utilization, the utilization in the initial years would be as low as 12.5%. You would appreciate that 12.5% Utilization is too low a capacity utilization by any standards. We, therefore, request you to change 25% Utilization to 50% Utilization. Bidder should be allowed to size hardware as per the requirement of technical specification. Kindly consider.	Bidder to comply TS.
20	Page 32 of 38 (PDF Doc Page No.117)	Volume II - Part B - 2.5.3.1	The existing Communication nodes & EMS/NMS shall be integrated with AAA/RADIUS server being supplied under this contract.	AAA/Radius Server not in BoQ. Since these contribute significantly to the cost of the Project it should be a Line item in the Commercial Price schedule, for fair commercial evaluation of the Tender. Commercial evaluation may be impacted considering the bidder's different proposed solutions (commercial or open source). We request you to kindly specifications of required products/solutions.	Bidder to comply TS.
21	Page 35 of 38 (PDF Doc Page No.120)	Volume II - Part B - 2.6.1	Reverse proxy: To publish portal and applications on internet using reverse proxy server is to be supplied	Reverse Proxy not in BoQ. Since this contributes significantly to the cost of the Project it should be a Line item in the Commercial Price schedule, for fair commercial evaluation of the Tender.	Bidder to comply TS.
22	Page 11 of 15 (PDF Doc Page No.168)	Volume II - Part B - 5.6.1	SAN Switches: The switch shall be provided with fibre cables/ cat 5e/6 cables of appropriate lengths for all active ports / switch ports as to connect to servers and SAN storage	SAN switch is not in the BoQ. This is a commercially expensive item; has the potential to be as high as 4-5% of the overall Project Cost. However, it finds no mention neither in the BOQ nor in the DRS for Hardware. 1. Please provide the specification in the DRS. 2. Please confirm if the SAN Switches have to conform to TEC GR No. 3. Please provide a separate line item in BoQ/Price schedule	1. Bidder to propose SAN as a system as per requirement of TS including SAN switch as required. 2. Bidder to comply the industry standards mentioned in TS. 3. Bidder to comply TS.
23	Page 6 of 14 (PDF Doc Page No.149)	Volume II - Part B - 4.4.3	Document Management System	Document Management System not in the BoQ. Since this contributes significantly to the cost of the Project it should be a Line item in the Commercial Price schedule, for fair commercial evaluation of the Tender.	Delivered system shall meet the functionalities as per requirement of TS. Bidder to comply TS.
24	Page 6 of 14 (PDF Doc Page No.149)	Volume II - Part B - 4.4.4	Through OPC Server: A full OPC server compliant to the latest standard shall be provided in order to export real time data, alarms, historical data etc. to the external system. OPC clients for WINDOWS and Linux shall also be supplied.	OPC Server is not in the BoQ. Since this contributes significantly to the cost of the Project it should be a Line item in the Commercial Price schedule, for fair commercial evaluation of the Tender.	Servers compliant to OPC protocol to be supplied as per requirement of TS.