

Supply and ETC of Remote Terminal Units (RTUs) and Integration to SLDC (ULDC Scheme)
Tender Enquiry No. : RVPN/EHV/TN-272
Pre-Bid Queries

Annexure-I

S.No.	Clause No.	Page No.	Description	Queries	RVPN Reply
Volume II, Part-I : Project					
1.	2.5 b	4	Specific exclusion-Earthing system	We assume that earthing pit etc. is already available. We need to connect RTU to existing earthing system. Please confirm.	Separate earthing for RTU is required, it being an electronic item. However earthmat connection of body may also be done.
2.	2.7	4	Maintenance The bidder must specifically note that the addition of the future bays i.e. cable/termination scheduling. Installation of transducers, cable laying and termination, re-configuration of RTU and date mapping/integration to sub SLDC/SLDC etc. as	Please clarify : 1. Addition of bay involves only supply of extra number of I/o modules. The spare space available in RTU rack shall be utilized for this expansion. No RTU rack need to be supplied. Please confirm. 2. Please specify the I/O count for each bay for expansion	RTU capacity and expansion requirements are clearly defined in clause 1.10
Volume-II, Part-III, Section I :RTU and SIC panel.					
3	1.1.1	3	Redundancy in CPU, Power and Communication with RCC. The RTU shall have capability for redundant CPU, power supply so that.....	We understand that RTU shall support redundant CPU, Power Supply. However redundant CPU and power supply are not required to be supplied in the present scope. Please confirm.	Yes, to be provided also.
4.	1.1.2 d	4	At least two serial ports for communicating with IED/PLC.....	Please provide the made and model of existing IED/PLC need with IOT to be integrated with RTU.	You may consider IEC-60870-5-103 for numerical Relays/IEDs and MODBUS for Multifunction Meters/Transducers
5.	1.1.4	5	LDMS shall store all real time telemetered data.....	Please specify the details of RDBMS software to be included for IS&R functionality.	Yes, storage is required.
6.	1.7	14		Please specify the IP class of the RTU/SIC panel.	Defined in clause 1.7.2
Volume II, Part-III, Section II : Auxiliary Items and Transducers					
7.	3.1	3	Chassis type	Please clarify that whether 19" 4U rack mounted MB (Mother Board) chassis in place of BP (Black plane)chasis is acceptable.	Please adhere to specification requirements.
8.	3.3	4	Printer	Printer with spec. like 16ppm, 600x600	Available. Please adhere

				dpi resolution, 125 sheet try etc. does not come with 64 MB memory. Please confirm that whether memory of 8 MB is acceptable for printer.	to specification requirement
9.	3.5.2	ii	Multifunction transducer/meter	Please clarify whether self powered multifunction transducers are acceptable.	Not acceptable. DC to be connected.
10.	S-I, 1&2		Critical RTU and Non Critical RTU	Please clarify if there is any difference of configuration between critical RTU and Non critical RTU other than no. of PLCC modem required.	Please refer clause 1.1.1 where in an RTU with redundant communication shall be called Critical RTU and with non-redundant communication it will be called Non-Critical RTU.
11.	S-I 3&S-II 3		SIC panel compete with 40 nos of 2 No., 2 NC non latching CMR, 10 nos. of interposing relay control relay etc completely wired. Contact Multiplier relay	Please clarify whether both wired CMR in SIC and Loose CMR are required to be supplied.	Yes
12.	S-I : 7-iii		Earthing material for effective earthing of equipments/items under supply	Please elaborate on the scope of earthing	Scope is well defined
Volume I, Part-III : GCC					
13.	5	18	Effectiveness of the contract	We request that contract shall considered as having come into force from the date of execution of the contract	Please adhere to specifications
14.	9.7	21	Terms of payment	We request to provide the interest free advance to the successful bidder.	Please adhere to specifications
15.	10.2.3	30	If it becomes necessary for the contractor to replace or renew any defective portions of the works, the provision of this clause shall apply to portion of the works so replaced or renewed until the expiry of twelve(12) months from the date of such replacement or renewal for all equipments. If any defects are not remedied within a reasonable time, the Engineer may proceed to do the work at the contractor's risk and cost, but without prejudice to any other rights which the owner may have against the contractor in respect of such defects.	Please elaborate on "renewal for all equipment". We assume that this clause is applicable for the replacement part only.	Please adhere to specifications
16.	10.2.9	31	The provisions contained.....	We request to accept addition of addition of following in this clause" c, designs, specifications and manufacturing techniques provided or used by Owner.	Please adhere to specifications

				<p>d. misuse, errors, neglect, failure by Owner or any person other than the Contractor to comply with Contractor's instructions or documentation and good engineering practice in respect of installation, commissioning, operation or maintenance of the work.</p> <p>e. repairs of modification to the work which have been made without Contractor's approval."</p>	
17.	35.0	51	Liabilities	<p>We request to accept addition of following in this clause :</p> <p>"Notwithstanding anything to the contrary in the contract documents, bidder shall not in any circumstances under any legal theory, whether based on contract , warranty, tort (including negligence) strictly liability, indemnity, professional liability or otherwise, be liable to indemnify the contracts, loss of production, loss of profits, loss of contracts, loss of data, cost of capital, replacement power, claims of customer's customers, or any other financial or economic loss or any special incidental, punitive indirect or consequential loss or damage whatsoever whether suffered by Purchase or by any third party and in no case the aggregate liability under the contract shall exceed the price of the contract."</p>	Please adhere to specifications
18.	43	57	Suspension of Work	<p>We request that Suspension rights should be provided to the contractor as below :</p> <p>If the Client has failed to pay any sum due under the Contract within the specified period, or failed to approve any invoice or supporting documents, or commits a substantial breach of the Contract, then the Contractor may suspend the performance of all or any or</p>	Please adhere to specifications

				its obligations under the contract, or reduce the rate of progress. The Time for Completion shall be extended any any and all additional costs or expenses incurred by the We request that suspension Contractor as a result of such suspension or reduction shall be paid by the Client in addition to the Contract Price, except in the case of Suspension order or reduction by reason of the Contractor's default or breach of the Contract.	
19.	44	58	Termination	We request that notice period of 30 days shall be given to the Contract. Please confirm.	Please adhere to specifications
20.			Kindly clarify which party is responsible for getting any permits, licenses, approvals etc that are required under the Contract.	We assume that RRVPNL shall take all permits, licenses, approvals etc that are required under the Contract from govt. agencies. Please confirm.	Please adhere to specifications
21.			Extension of time	We request RRVPNL to provide suitable extension in execution of the project in case of force majeure conditions/unfavorable conditions/delay on part of customer. Please confirm.	Please adhere to specifications
Volume I, Part IV : SCC					
22.	8	7	Supplementing of clause 24 Inspection/Testing and Training Charges in India: The bidder is required to indicate only training charges in the price schedule for mentioned indigenous items for which.....these charges should include Advance training : 2 Engineers, accommodation (boarding & lodging), food, local transportation etc.	1. Please confirm that these training charges are as required in Schedule B5, Sl.No.1.1. The duration of this training shall be for 5 days. 2. As per clause 24.2 Page no. 47 of GCC, all traveling and living expenses for engineers personnel to be trained during the total period of training will be borne by the owner. Please clarify, whether accommodation, food, local transportation for 5 days during training need to be considered.	Please adhere to the specification requirements
23.	9	8	48.2 The general terms and conditions of the AMC contract shall be as under :- 3. The contractor shall maintain the inventory of spares used in the offered equipment up to	We request RRVPNL to buy recommended spares for use in the AMC period.	Please adhere to specification requirements.

			the expiry of contract.		
24.	9	9	48.2 The general terms and conditions of the AMC contract shall be as under:- 4. Charging of spares: if the spares such as modules/relays/items etc. used in the installed equipment(s) are to be replaced by the spares, the annual maintenance charges includes the services rendered for it.....in the schedule 'B1' or agreed upon during finalization of contract with successful bidder.	Please clarify that the AMC charges does not include supply of any spare. Payment of spares shall be made by RRVPNL separately based on the spare price agreed between bidder and RRVPNL.	Yes
Volume I, Part V : ECC					
25	29	15	Unfavorable working conditions "Unfavorable conditions does not relieve the contractor from his responsibility to perform the work as per schedule"	We request RRVPNL to provide suitable Extension of time for performance of work in case of unfavorable conditions. Please confirm.	Please adhere to specifications
26	Schedule B1 Schedule B1	S-II-2 S-II-3	Auxiliary relays (Control applications)-700 Nos. 4 NO 4 NC latching type CMR-140 Nos. 2 NO 2 NC latching type CMR-700 Nos. 4 NO 4 NC Non- latching type CMR-700 Nos. 2NO 2NC Non- latching type CMR-1400 Nos.	Pl. confirm if these relays are to be mounted in existing C&R panels	These are required to be installed for interfacing purpose and its installation shall be as per requirement of signal marshalling in C&R/SAS/Other panels using suitable mounting accessories
27	Schedule B1	S-II-2-i)	Interposing Auxiliary relays-700 Nos.	Pl. confirm if these relays for control application are to be mounted in existing C&R panels	Yes
28	Schedule B1	S-II-1-iii)	Multifunction Transducer/Meter-1750 Nos.	Pl. confirm if Multifunction Transducer/Meterscan be mounted in existing C&R panels	Yes
29	Vol.II PartIII	Sec-I P-13	The RTU shall be provided with suitable hardware and software for accepting time synchronization-----GPS shall also be supplied by the contractor	Kindly provide the make & model of existing GPS clock available at site which are to be used for time synchronization of RTUs. As well as how many numbers of IRIG-B ports are in use.	RTUs shall be synchronized through message from Master. Facility for interfacing with GPS is required.