Reply of Pre-Bid queries held on March 22, 2024 for "Appointment of system Integrator (SI) for setting up the National SCADA Resource Centre (NSRC) under RDSS scheme through domestic Competitive Bidding"

Sl. No.	RFP Clause / Section No.	Page No.	RFP clause	Request for Modification	PFC Remarks
1	17.0 Introduction	105	To achieve the desired Service Levels, the Contractor may need to interact, coordinate and collaborate with the other Service Providers as required. The Contractor will act as the Single Point of Contact for all issues relating to the Service Levels. The Contractor will have the responsibility to deal with the other vendors (during warranty period) /other vendors as selected by PFC (after warranty period) as the case maybe, to provide the services at agreed service levels. However, the prime responsibility of providing desired services shall be that of lead Contractor during warranty period. The role of SIA as FMS Contractor (shall start immediately after systems are installed, commissioned and handed over to the owner after Operational acceptance (S.A.T) of the System.	We understand that the PFC/respective DISCOMs will bear the cost for the SCADA with defined modules and DTS. The Selected bidder for this particular tender is only responsible for the integration. The necessary and required APIs/Web Services/other integration method will be facilitated by the respective vendors of each DISCOMs	As mentioned in the document the first system (DTS software and associated software) need to be implemented by the bidder. The remaining 5 system will be sourced from the ongoing project of RDSS. Hence the 1st software shall be included in the offered solution without any additional cost.

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2	Section-VI: Payment Terms and Conditions	122	Annexure I of SCC – Payment terms of NSRC *Payment will be released subject to realization of Grant.	We request the authority to amend the Payment terms as below: **1. Hardware Components:** - 20% on submission of Project Inception Report & Detailed Implementation Plan - 50% on supply of the Hardware (Pro-rata basis) - 20% on Installation at site (Pro-rata basis) - 10% on Go-live (Pro-rata basis) **2. Software Components:** - 20% on submission of SRS - 50% on Software delivery (Pro-rata basis) - 20% on User Acceptance Test (UAT) (Pro-rata basis) - 10% on successful commissioning/ Go-Live (Pro-rata basis) **3. Services Components:** - 90% on Service completion (Pro-rata basis) - 10% on successful commissioning/ Go-Live (Pro-rata basis) **4. O&M and Manpower Support:** - Will be paid in equal quarterly instalments after the end of each quarter	Payment terms will be as per the SBD hence, no further amendment will be done in the payment terms.
3	Appendix A & Appendix B Details for setting up NSRC under RDSS	194	A vendor-neutral plug and learn interface platform will be developed along with switching capabilities between modules available from multiple technology providers. This will enable the training participants to get hands-on training on a vendor-neutral platform and understand the difference in the technology modules of leading OEMs.	We understand that the PFC/respective DISCOMs will bear the cost for the SCADA with defined modules and DTS. The Selected bidder for this particular tender is only responsible for the integration. The necessary and required APIs/Web Services/other integration method will be facilitated by the respective vendors of each DISCOMs	As mentioned in the document the first system (DTS software and associated software) need to be implemented by the bidder. The remaining 5 system will be sourced from the ongoing project of RDSS. Hence the 1st software shall be included in the offered solution without any additional cost.

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4	1.3.1.1.2 Components of Group- A towns	204	Secured Communication using VPN/SSL i. MPLS network for connecting all S/S RTUs to Main & DR centre ii. Secured GPRS/MPLS-4G/DLC etc. for communicating of FRTUs /FPIs with control centres	Please suggest on the number and bandwidth of MPLS links required at central command control server	The description is of RDSS project hence, not relevant here. However there should be MPLS links that can be used to connect any data centre/control centre on requirement basis in future.
5	3.1 DMS functions	240	PFC shall specify availability of updated GIS based asset /network database and GIS application software In case of non-availability of the same, PFC shall be provided through sanctioned scope of IT/AMISP etc or on their own funds. For NSRC, if existing database of electrical assets is not up to date or incorrect. Bidder may consider, the scope of survey, data entry, updation in their scope. Further, if license is not upto date or bidder assess complex to integrate, then bidder may include GIS software as part "any other items required to meet functional and performance requirement" in the BOQ or else to be provided with out additional cost to employer cost to employer. The details of software, available interface and state of data to be specified in the legacy section (i.e. chapter 1 of RFP).	Please share details of existing GIS based asset /network database and GIS application software if available or share the estimated details of location and scale of survey.	GIS software need to be provided as the part of project delivery under the line item GIS adaptor and asset network data base will be shared during the implementation of the project. Bidder/contractor will have to coordinate with the respective utility for fetching data and do survey on its own.
6	6.2.9 Furniture	303	PFC shall provide necessary furniture & shall look aesthetically pleasing. It is not in the scope of contractor.	We understand that the furniture will be provided by PFC but there are line items related to supply & Installation of furniture in the BOQ provided, please clarify.	Furniture needs to be provided by the bidder itself. In clause no. 6.2.9 it is inadvertently placed that furniture in not is scope of contractor.
7	15.1.2 Scope of Work / Design Parameter	372	RMU shall be a transparent flexi glass functional model (actual field working model) in order to demonstrate and train	We understand that the front doors shall have flexi glass for visibility, could you please provide a brief overview of the design for clarity?	The entire casing of the RMU has to be transparent for training purpose
8	17.1.2.1 Service Delivery Management	420	The FMS Contractor shall ensure that all the relevant data is transferred from	Please suggest on the frequency at which the relevant data is to be transferred from control centre to Data Recovery Centre (DR)	Not relevant. It is meant for actual SCADA/DMS projects under RDSS and hence for information only.

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			control centre at regular frequency to Data Recovery Centre (DR)		
9	Appendix A & Appendix B Details for setting up NSRC under RDSS	160	A vendor-neutral plug and learn interface platform will be developed along with switching capabilities between modules available from multiple technology providers. This will enable the training participants to get hands-on training on a vendor-neutral platform and understand the difference in the technology modules of leading OEMs.	We understand that the data centre hardware will be sized such that user will be able to run different OEM platforms as per OEM software standard access control and interface.	Yes, the understanding is OK
10	Make of RTU	General	Make of RTU	RTU - 2 make, MFT - 2 make, FRTU -3 nos mentioned , whether we shall follow the specifications of as per RDSS scheme ? Whether RTU will control any existing equipment. If yes please provide details	Yes, the specification is to be followed for particular make of RTU. RTU/FRTU for training purpose shall has simulator switches for input and control relays for supervisory control for training purpose as prescribed in the BoQ
11	Detailed Scope of Work		The scope of work shall include field survey, mapping of electrical system complete engineering and system design, manufacture, testing and supply of all the required material on EXW basis including civil work, transportation, insurance, storage, erection, testing and commissioning & integration.	Any kind of Civil work (Major / Minor) shall not considered in Bidder scope.	Yes, any civil work has to be done by bidder and same has been detailed in the SBD
12	section 4, I.7	106	Scope of Work of NSRC :- Data for the GIS	What is the provision for data collection from identified town? Whether it will be from GIS software from the identified town to new GIS software or any other method please clarify. At least one town data is require for DTS to function, so that it will be effectively shown in the training. Also, Please share the details and quantity of assets that are to be mapped i.e no. of RTU, RMU, DT etc.	GIS software needs to be provided as the part of project delivery under the line item GIS adaptor and asset network data base will be shared during the implementation of the project. Bidder/contractor will have to coordinate with the respective utility for fetching data and do survey on its own.

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			Any other work not mentioned here explicitly but required for successful completion of the project	Existing system can only be dismantled and shifted to designated location as per Tender. Re-Commission or any damage rectification or warranty related to the existing system is NOT in Bidder scope.	The concerned is not relevant to the referred clause. The referred clause only specify that bidder shall asses the total requirement w.r.t to BOQ , functional performance availability / SLA requirement of the project and if bidder feels any additional component not listed in BOQ but required as per there solution shall be included under this clause
13	1. Simulator	160	NSRC Details Simulators1 :- Vendor Neutral simulator	Please clarify the meaning of vendor neutral simulator. Whether the SCADA shown in the architecture is also a part of scope or just integration with existing SCADA.	Vendor neutral simulator means it should have open interfaces as specified in the SBD
			FMS Period	Manpower to be provided during FMS period is for 24X7X365days. Please clarify whether manpower will be deployed for all the shifts?	The manpower during the FMS period shall not be in the shifts but to support successful execution of training / demonstration. Hence, they shall be available during normal working hours (Monday - Saturday, 9AM-6PM) and may be required in the extended hours or off -days to meet the requirement of successful training without any additional cost. Hence there is no requirement of manpower in the shifts
			DTS software (SCADA DMS OMS)	Whether DTS software has to integrate with any other software like AMI / Call centre	DTS software shall have the open interfaces as per the SBD and needs to be integrated with minimal sample call centre for field force automation or OMS.
			DTS software (SCADA DMS OMS)	Whether DTS software will also cover Low voltage network so as to show the simulation of smart meter outage prediction.	Not envisaged. However open interfaces should be available as per SBD so that future integration can be done with AMI solution.

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			DTS software (SCADA DMS OMS)	Whether all the DMS functions also to be demonstrated for Low voltage network (415V)	Not envisaged.
14	Section 2. Qualifying Requirement/ Eligibility criteria	Page 113	SCADA PROJECT OF at least 20 RTUs/FRTUs/ PLCs/Intelligent Electronic Devices/ Data Concentrator (DC or distributed RTUs) or Bay controller Unit (BCU or in combination of these items. In case of multiple projects, each project shall have minimum 5 above items or in combination of these items.	SCADA PROJECT OF at least 10 RTUs/FRTUs/ PLCs/Intelligent Electronic Devices/ Data Concentrator (DC or distributed RTUs) or Bay controller Unit (BCU or in combination of these items. In case of multiple projects, each project shall have minimum 5 above items or in combination of these items.	Requirement cannot be minimised, further as sufficient alternate options are also given like PLC, IED etc.
15	Section 2. Qualifying Requirement/ Eligibility criteria	Page 113	setting up of at least one simulators or control centres of Electrical / Railways/ Oil and gas /WATER / IT /Telecom/Process Automation	setting up of at least one simulators or control centres of Power Discoms/ Electrical / Railways/ Oil and gas /WATER / IT /Telecom/Process Automation	Electrical means Power Discoms/TRANSCOs/GENCOs
16	Architecture and Components of Simulator	Page 198	Software (1st set shall be provided by bidder without any cost) Remaining 5 to be Sourced from OEM/SIs in projects under RDSS	All 6 sets of software shall be on paid basis	It shall be as per the SBD
17	Clause 2.2.4.3 For data exchange between NSRC control centres & DR centres, optional (SLDC):	Page: 221	If opted & requirement specified by PFC in this RFP, then NSRC control centres shall also exchange data using ICCP with State Load Dispatch Centre (SLDC) of the state.	Whether separate ICCP server required or not kindly specify	Communication server hosting ICCP needs to be provided
18	10.2 Communication ports	Page 326	FRTU shall have required number of RS 485 ports for communication with	Specify the numbers of RS485 ports	Please refer SBD for the same.
19	10.2 Communication ports	Page 326	FRTU shall have one port for connecting the portable configuration and maintenance tool for FRTU.	How many total communication ports (IEC 60870-5-104/101 protocol) are required in FRTU	Please refer SBD for the same.
20			Integration with legacy applications & Data Migration	1. Bidder understands the existing legacy SCADA systems details are provided in RFP. Kindly confirm if Bidder should keep the legacy systems intact, implement and deploy	Not relevant. SBD does not belong to HPSEBL

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				the new system or Bidder should replace the existing system. 2. The bidder requests HPSEBL to provide the available protocols for integration between the existing and new SCADA/DMS systems.	
21			RTUs/FRTUs/FPIs shall be connected to CFE through IEC 60870-5-104/101 link	1. The bidder requests HPSEBL to provide the total number of RTUs using IEC-101 protocol. 2. The bidder requests HPSEBL to provide the total number of RTUs using IEC-104 protocol. 3. Kindly confirm the bidder's assumption that HPSEBL will provide all necessary hardware interfaces including splitters, terminal servers, etc. for serial communication.	Not relevant. SBD does not belong to HPSEBL
22			TABLE 3 - DESIGN PARAMETERS FOR DMS/OMS FUNCTIONS	Bidder requests HPSEBL to confirm the Total No. of Consumers (meters) on Distribution Network.	Not relevant. SBD does not belong to HPSEBL
23			The same shall be replica of SCADA DMS Control centre for Group A and with secured permission and upon non availability of main SCADA/DMS Control centre, the operation of that town shall be possible from DRR. However, system shall remain in sync for data on daily basis and shall be suitable interlocks to avoid any accidental command.	1. Bidder requests HPSEBL to confirm if section -"Common Disaster Replica Recovery Centre (DRR)" is applicable for HPSEBL current requirement as a Group A Town. 2. 2. Bidder requests HPSEBL to confirm the MCC, BCC & DR locations.	Not relevant. SBD does not belong to HPSEBL
24			The DR function is a repository of system build up software of all towns Group B & Group C towns.	Bidder understands the present RFP is only for Group A towns. Kindly confirm.	Not relevant.
25			An interface with the already existing Geographical Information Systems shall be developed using interoperability features between the DMS and the installed GIS.	Bidder requests HPSEBL to share the GIS sample data for POC.	Not relevant. SBD does not belong to HPSEBL

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26	Section 2: Eligibility Requirements. III. Qualifying Requirement/ Eligibility criteria	Page: 112 & 113	Minimum CMMI level-3 certification	Withdrawal of CMMI level-3 Certification.	No, it shall be as per the SBD
27	Section 2. Eligibility Requirement	7 (Page 106)	7) Integration Scope: SIA should ensure that legacy systems and the new solutions lined up by them are tightly integrated and do not remain stand-alone and shall perform on real time basis as envisaged in specifications, All required external systems shall be integrated using an integration middleware layer. The scope of integration of external systems includes, legacy NSRC system, RTU/FRTU, IT systems, Numerical relays etc. including billing, customer care , GIS etc. already existing and functional in the PFC	As SI shall be responsible for any existing system and their integration so it means utilizing existing Geographic Information System licenses with the most recent supported version, bidders can prevent data migration difficulties, operational disruptions, and potential application compatibility problems?	As per the SBD

Note: The other Terms sand Conditions of the Bid document remains unchanged.