

Dated :

## AMENDMENTS

S. No.	Page No.	Section/ Item	Technical Specifications as per RFP	Amendment
1	202-235	Vol-I_Section-VII_Scope of works	Scope of work	Document revised and uploaded as Vol-I_Section-VII_Scope of works v2.0 uploaded herwith as amendment and shall supercede the original document in all respect.
2	35-42	3a. Anex-A to BDS_Vol-I_Section-III	Eligibility Criteria	Document revised and uploaded as 3a. Anex-A to BDS_Vol-I_Section-III v 2.0 uploaded herwith as amendment and shall supercede the original document in all respect.
3	317-318	-	Financial Bid	Financial Bid revised and uploaded as Revised Financial Bid AMI_JKPDD
4	252-253	-	BoQ	Revised BoQ document uploaded as BoQ v2.0_JKPDD 2 Lac Smart Metering and shall supercede the original document in all respect
5	204	17	It would be the responsibility of the bidder to integrate their communication module with at least two different OEM's meter, working with JKPDD. Bidder should be in a position to supply meters from both these meter OEMs during this project as per approval of JKPDD. In future, it would be bidders' responsibility to integrate new meters or any other application/equipment as decided by JKPDD without any additional cost burden on JKPDD.	In future, it would be bidders' responsibility to extend the support to integrate new meters or any other application/equipment as decided by JKPDD in the project area without any additional cost burden on JKPDD during the contract period.
6	205	31	Proof of Concept: All the technically qualified bidders based on the criteria mentioned in SBD will be required to do a proof of concept for 10 meters each in Jammu & Srinagar region for cases specified by JKPDD. The bidders whose proof of concept is successfully achieved will be judged finally technically qualified bidder & considered successful for financial bid opening	Deleted & Incorporated in Vol. I, Annexure A of Section-III Qualification of bidder v2.0 uploaded herwith as amendment and shall supercede the original document in all respect..
7	39	Section No Vol-I, Annex-A of Sec-III Para No / Clause No 1.01.3	Quality Certification – Partner shall have ISO 9001:2015 certifications	Refer to the revised document , Vol. I, Annexure A of Section-III Qualification of bidder v2.0 uploaded herwith as amendment and shall supercede the original document in all respect.
8		1.01.3	Network and Communication Solution Provider  Interoperability of the System – The Network and Communication Solution Provider should have Implemented the communication network with at-least 3-meter manufacturers in a single project within last 07 Financial years immediately preceding FY from the bid submission date .  Qualified Project should have meters of two different make and minimum quantity for each make should not be less than 5%.	Refer to the revised document , Vol. I, Annexure A of Section-III Qualification of bidder v2.0 uploaded herwith as amendment and shall supercede the original document in all respect.
9	213	Scope of Work "C"	Service Level Agreement	SLA revised as per CEA guidelines. Refer to the revised document , Vol. I, Section-VII Scope of Work v2.0 uploaded herwith as amendment and shall supercede the original document in all respect.
10	211	1.3 -HES	Power Quality Monitor (PQM) Power quality related information such as voltage, frequency and harmonics can be visualized device wise/ area wise with the help of this module.	Deleted from HES Scope. Refer to the revised document , Vol. I, Section-VII Scope of Work v2.0 uploaded herwith as amendment and shall supercede the original document in all respect.
11	463	HES Spec	19. Pre-Payment/Prepaid Functions The Head End System should support pre-payment capabilities.	Deleted from HES Scope. Refer to the revised document , Vol. I, Section-VII Scope of Work v2.0 uploaded herwith as amendment and shall supercede the original document in all respect.
12		1.01.3/Eligibility Criteria for Other Components – Common to all Proposed Technology/OEM / Service Providers/Page 5	Meter Data Management (MDM) The proposed MDM solution should have been implemented for more than 5,00,000 nos. of Smart Meters in a single project in any power distribution utility within last 07 Financial years immediately preceding FY from the bid submission date.	Refer to the revised document , Vol. I, Annexure A of Section-III Qualification of bidder v2.0 uploaded herwith as amendment and shall supercede the original document in all respect.

13	Page 2/ 1.01.1	Volume-I : Annexure-A of Section-III QUALIFICATION OF THE BIDDER	Eligibility Criteria for System Integrator: System Integrator should have implemented at least two (2) Projects having scope of Supply, Installation, Commissioning, Customization and integration of HES/MDAS and Billing/CRM, <b>with a commercial off-the-shelf (COTS) Meter Data Management (MDM)</b> system for minimum 200,000 AMR/DLMS meters commutatively in Power Distribution utility within last 07 Financial years immediately preceding FY from the bid submission date.	Refer to the revised document , Vol. I, Annexure A of Section-III Qualification of bidder v2.0 uploaded herewith as amendment and shall supercede the original document in all respect.
14	Page 6	1.02.1/Commercial/Volume-I : Annexure-A of Section-III QUALIFICATION OF THE BIDDER	Single Completed Project having scope of but not limited to complete Detailed Engineering,Project Management, Erection, Installation, Testing, Commissioning & specifically includingintegration of MDAS / AMI Head End System with a commercial off-the-shelf (COTS) <b>MeterData Management (MDM) and Utility IT systems (Billing and CRM) costing not less than the amount equal to 80% of the estimated amount of the project.</b>	Refer to the revised document , Vol. I, Annexure A of Section-III Qualification of bidder v2.0 uploaded herewith as amendment and shall supercede the original document in all respect.
15	Page 10	Volume-I : Section-VII Scope of Works/Functional Requirements	SAN based storage for storing Smart Meter data, data from MDMS for 5 years with 100%expansion capability to cater 2,00,000 Nos of meters data requirement.	Refer to the revised document & detailed BoQ, uploaded herewith as amendment and shall supercede the original document in all respect.
16		Volume-I : Section-VII/Scope of work	RECPDCL envisages engaging an AMI Implementing Agency (AIA) with sufficient experience, technicalcompetence & expertise, financial strength and related infrastructure facilities for carrying out engineering, design, supply, replacement/installation, commissioning, integration, operation and 5years maintenance/FMS support of Advanced metering infrastructure (AMI) solution for 2.0 lakh smart electricity meters with communication module	The new backend IT infrastruture to be hosted into exisiting DC and DR at Srinagar & Jammu respectively. The space for the same shall be provided by JKPDD. The proposed AMI solution shall be for 11.25 Lakhs consumers scalable upto 20 lac consumers.
17	Page 2	Volume-I : Section-VII/Scope of work	JKPDD is in the process of deployment of approx. 2,00,000 Smart Meters in the city of Jammu & Srinagar, for its service area. Bidder to provide detailed solution document along with sizing sheet and all proposed hardware required to implement the solution during evaluation. The proposal will be studied in detail.	RFP is now envisaged to host meter data for 11.25 Lacs meters scalable to 20 Lacs smart meters in 5 years. Refer to the revised document & detailed BoQ, uploaded herewith as amendment
18	14	VOLUME-I: SECTION – II INSTRUCTION TO BIDDERS (ITB)	x. A firm can be a partner in only one joint venture; bids submitted by joint ventures or consortia including the same firm as partner will be rejected.	x. A firm can not be a JV or consoritum partner in more than one joint venture or consortium and any such bids submitted by bidder will be rejected.  In this tender either the Indian agent on behalf of the Principle OEM or Principle OEM itself can bid but both cannot bid simultaneously for the same item/product. If an agent submits bid on behalf of the principal /OEM, the same agent shall not submit a bid on behalf of another principal /OEM in the same tender for the same item/product.
19	24	VOLUME-I: SECTION – II INSTRUCTION TO BIDDERS (ITB)	Proof of Concept: Technically qualified bidders shall carry out PoC for 20 single phase consumers in areas of JKPDD for any location within the city as specified by JKPDD for showcasing their GPRS & RF network, HES and MDMS solution. Checklist for the same is attached below:	<del>Deleted &amp; Incorporated in Vol. I, Annexure A of Section-III Qualification of bidder v2.0 uploaded herewith as amendment and shall supercede the original document in all respect..</del>
20	205	Volume-I : Section-VII Scope of Works	23. The bidder shall guarantee for providing service & expansion support in the aforesaid area for at least 10 years.	Refer to the revised document , Vol. I, Section-VII Scope of Work v2.0 uploaded herewith as amendment and shall supercede the original document in all respect.
21	205	Volume-I : Section-VII Scope of Works	24. The offered solution including (H/w, s/w, OS, licenses & others) shall have life cycle of 10 years from post-Go-Live date.	Refer to the revised document , Vol. I, Section-VII Scope of Work v2.0 uploaded herewith as amendment and shall supercede the original document in all respect.
22	205	Volume-I : Section-VII Scope of Works	31. Proof of Concept: All the technically qualified bidders, based on the criteria mentioned in SBD, will be required to do a proof of concept for 20 meters each of Single Phase and Three Phase in Urban & Rural region for cases specified by JKPDD. The bidders whose proof of concept is successfully achieved will be judged as technically qualified bidders & will be considered for financial bid opening.	<del>Deleted &amp; Incorporated in Vol. I, Annexure A of Section-III Qualification of bidder v2.0 uploaded herewith as amendment and shall supercede the original document in all respect..</del>
23	38	1.01.1 Eligibility Criteria for Meter Manufacturer:	Client's PO/ WO/ LOA/ Contract Agreement and Completion Certification on client Letter head along with satisfactory Performance certificate of 01 year within last 07 Financial years immediately preceding FY from the bid submission date with contact details of clients for verification. JKPDD reserves the right to contact / visit such client before award of contract.	Please refer Vol. I, Annexure A of Section-III Qualification of bidder v2.0 uploaded herewith as amendment and shall supercede the original document in all respect.

24	39	1.01.3 Eligibility Criteria for Other Components – Common to all Proposed Technology/ OEM / Service Providers	Network and Communication Solution Provider 2. Interoperability of the System – The Network and Communication Solution Provider should have Implemented the communication network with at-least 3-meter manufacturers in a single project within last 07 Financial years immediately preceding FY from the bid submission date . Qualified Project should have meters of two different make and minimum quantity for each make should not be less than 5%.	Please refer Vol. I, Annexure A of Section-III Qualification of bidder v2.0 uploaded herwith as amendment and shall supercede the original document in all respect.
25	Page No - 2	of Qualification of Bidder	System Integrator should have implemented at least two (2) Projects having scope of Supply, Installation, Commissioning, Customization and integration of HES/MDAS and Billing/CRM, with a commercial off-the-shelf (COTS) Meter Data Management (MDM) system for minimum 200,000 AMR/DLMS meters commutatively in Power Distribution utility within last 07 Financial years immediately preceding FY from the bid submission date. The scope of “Qualifying Projects” should include but not limited to complete Detailed Engineering, Project Management, Erection, Installation, Testing, Commissioning & specifically including integration of MDAS / AMI Head End System with Meter Data Management (MDM) and Utility IT systems (Billing and CRM).	Please refer Vol. I, Annexure A of Section-III Qualification of bidder v2.0 uploaded herwith as amendment and shall supercede the original document in all respect.
26	Page No - 2	of Qualification of Bidder	System Integrator must have implemented at least three (2) turnkey IT implementation projects in power distribution utilities in India/Globally within last 07 Financial years immediately preceding FY from the bid submission date comprising atleast any three(3) of the following IT Application and Infrastructure: -	Refer amendment
27	Page No - 3	of Qualification of Bidder	System Integrator must have following Quality Certifications – 1. CMMI Level 3 2. ISO 9001:2015 or latest 3. ISO 27001:2015	System Integrator must have following Quality Certifications – 1. CMMI Level 3 or higher 2. ISO 9001:2008 or higher 3. ISO 27001:2008 or higher
28	Page No - 4	of Qualification of Bidder	Bidder(s) should have experience of manufacturing and supply of electricity meters with Cumulative quantity of 5,00,000 electricity meters as per relevant and latest IS/IEC/ANSI standards within last 07 Financial years immediately preceding FY from the bid submission date.	Refer amendment
29	Page No - 5	of Qualification of Bidder	Network and Communication Solution Provider must have successfully executed AMI projects with cumulative installation base of Minimum 2,00,000 end points within last 07 Financial years immediately preceding FY from the bid submission date. The Qualifying project should consist of Network Interface Card (NIC), Network component (Router/ DCU / Gateway / Access Point with backhaul) and Head End System. Project should have been operational for at least 1 year within last 07 Financial years immediately preceding FY from the bid submission date.	Refer to the revised document , Vol. I, Annexure A of Section-III Qualification of bidder v2.0 uploaded herwith as amendment and shall supercede the original document in all respect.
30	Page No - 5	of Qualification of Bidder	Interoperability of the System – The Network and Communication Solution Provider should have Implemented the communication network with at-least 3-meter manufacturers in a single project within last 07 Financial years immediately preceding FY from the bid submission date. Qualified Project should have meters of two different make and minimum quantity for each make should not be less than 5%.	Refer to the revised document , Vol. I, Annexure A of Section-III Qualification of bidder v2.0 uploaded herwith as amendment and shall supercede the original document in all respect.
31	Page No - 5	of Qualification of Bidder	The proposed MDM solution should have been implemented for more than 5,00,000 nos. of Smart Meters in a single project in any power distribution utility within last 07 Financial years immediately preceding FY from the bid submission date.	Refer to the revised document , Vol. I, Annexure A of Section-III Qualification of bidder v2.0 uploaded herwith as amendment and shall supercede the original document in all respect.
32	Page No - 5	of Qualification of Bidder	The Proposed MDM should have been Integrated with minimum 2 different Head End Systems / MDAS system and different Globally accepted enterprise Billing & CRM/CIS system in a Single Project in any power distribution utility within last 07 Financial years immediately preceding FY from the bid submission date.	
33	Page No - 5	of Qualification of Bidder	The Proposed MDM OEM should submit certificate of the proposed solution for scalability up to minimum 3 million meters and support 15 min interval read data delivered daily.	

34	Page No - 6	of Qualification of Bidder	Proposed MDM should have been integrated with at least 2 different globally accepted enterprise Billing System in any power distribution utility within last 07 Financial years immediately preceding FY from the bid submission date.	
35	Page No - 6	of Qualification of Bidder	<p>Single Completed Project having scope of but not limited to complete Detailed Engineering, Project Management, Erection, Installation, Testing, Commissioning &amp; specifically including integration of MDAS / AMI Head End System with a commercial off-the-shelf (COTS) Meter Data Management (MDM) and Utility IT systems (Billing and CRM) costing not less than the amount equal to 80% of the estimated amount of the project.</p> <p>or</p> <p>Two Completed Projects having scope of but not limited to complete Detailed Engineering, Project Management, Erection, Installation, Testing, Commissioning &amp; specifically including integration of MDAS / AMI Head End System with a commercial off-the-shelf (COTS) Meter Data Management (MDM) and Utility IT systems (Billing and CRM) costing not less than the amount equal to 50% of the estimated amount of each project.</p> <p>or</p> <p>Three Completed Projects having scope of but not limited to complete Detailed Engineering, Project Management, Erection, Installation, Testing, Commissioning &amp; specifically including integration of MDAS / AMI Head End System with a commercial off-the-shelf (COTS) Meter Data Management (MDM) and Utility IT systems (Billing and CRM) costing not less than the amount equal to 40% of the estimated amount of the each project.</p>	Refer to the revised document , Vol. I, Annexure A of Section-III Qualification of bidder v2.0 uploaded herwith as amendment and shall supercede the original document in all respect.
36	Page No - 7	of Qualification of Bidder	Bidder shall have liquid assets (LA) and/ or evidence of access to or availability of fund based credit facilities of not less than INR 12.50 Crs. and the Banker should confirm that the Credit facility is earmarked for the Work specified under Bid on receipt of the Bid.	Refer to the revised document , Vol. I, Annexure A of Section-III Qualification of bidder v2.0 uploaded herwith as amendment and shall supercede the original document in all respect.
37	Page No - 7	of Qualification of Bidder	In case a bid is submitted by a Joint Venture (JV), all the partners of the JV shall meet, individually, the qualification set forth at para 1.02.1 & 1.02.2 above and collectively the requirement of para 1.02.3 & 1.02.4 above. The figures for each of the partner of the joint venture shall be added together to determine the bidder's compliance with the minimum qualifying criteria set out in para 1.02.3 & 1.02.4 above; however in order for a joint venture to qualify, the partner(s) of joint venture must meet the following minimum criteria:	Refer to the revised document , Vol. I, Annexure A of Section-III Qualification of bidder v2.0 uploaded herwith as amendment and shall supercede the original document in all respect.
38	Page No - 434		2.4.3. Basic Current (Ib) & rated Maximum current (Imax) (a) Ib = 20 Amp; (b) Imax = 80 Amps; (Three Phase Meter)	2.4.3. Basic Current (Ib) & rated Maximum current (Imax) (a) Ib = 20 Amp; (b) Imax = 100 Amps;
39		33. INTEGRATION SCOPE	Integration with other existing Applications	Please refer to the revised document , Vol. I, Section-VII Scope of Work v2.0 uploaded herwith with details of existing applications as amendment and shall supercede the original document in all respect
40		Cl 2.1	This specification covers the technical requirements of design, manufacturing, testing & integration with network integration card (NIC) of RF communication to be used at JKPDD for three phase four Wire, 3x230 voltage, 20-80A, whole current static smart meters of accuracy class 1.0 (here after referred as meters) complete with all accessories for efficient and trouble free operation.	This specification covers the technical requirements of design, manufacturing, testing & integration with network integration card (NIC) of RF communication to be used at JKPDD for three phase four Wire, 20-100A, whole current static smart meters of accuracy class 1.0 (here after referred as meters) complete with all accessories for efficient and trouble free operation.
41		Cl 2.4.36	Utilization Categories : UC2 or better	Utilization Categories : UC1 or better
42		Cl 2.14.4	b) Temperature rise of terminal block with 150% Imax for 6 hours.	Temperature rise of terminal block with 105% Imax for 6 hours as per IS16444
43		Technical spec Cl 4.0	10. Preferred Size of the box HxLxD in mm : 300x250x120 subject to change based on Meter	Size of the meter box should be based on type of meter considering all clearnances mentioned in the specificaiton. Bidders to ensure that all type of meters can be accomodated in the same meter box in future.
44		Technical spec Cl 5.0	5.13 The box size should be such that it should accommodate the smart meter with size of approx. 263x149x98mm	Size of the meter box should be based on type of meter considering all clearnances mentioned in the specificaiton. Bidders to ensure that all type of meters can be accomodated in the same meter box in future.

45		Clause No. 1.01.3 srl 1 Eligibility Criteria for Other Components, Page 39	Network and Communication Solution Provider must have successfully executed AMI projects with cumulative installation base of Minimum 2,00,000 end points within last 07 Financial years immediately preceding FY from the bid submission date. The Qualifying project should consist of Network Interface Card (NIC), Network component (Router/ DCU / Gateway / Access Point with backhaul) and Head End System. Project should have been operational for at least 1 year within last 07 Financial years immediately preceding FY from the bid submission date Client's PO/ WO/ LOA/ Contract Agreement and Completion Certification on client Letter head along with satisfactory Performance certificate of 01 year within last 07 Financial years immediately preceding FY from the bid submission date with contact details of clients for verification.	Refer to the revised document , Vol. I, Annexure A of Section-III Qualification of bidder v2.0 uploaded herewith as amendment and shall supercede the original document in all respect.
46		Clause 1.01.3 Srl 2 Eligibility Criteria for Other Components, Page 39	Interoperability of the System – The Network and Communication Solution Provider should have Implemented the communication network with at-least 3-meter manufacturers in a single project within last 07 Financial years immediately preceding FY from the bid submission date . Qualified Project should have meters of two different make and minimum quantity for each make should not be less than 5%. A client Certificate mentioning use of three different make of Meters on single communication Network.	Refer to the revised document , Vol. I, Annexure A of Section-III Qualification of bidder v2.0 uploaded herewith as amendment and shall supercede the original document in all respect.
47		Section-VII, Scope of Work, clause A.13, pg 204	It would be the responsibility of the bidder to integrate their communication module with at least two different OEM's meter, working with JKPDD	Please refer to the revised document , Vol. I, Section-VII Scope of Work v2.0 uploaded herewith as amendment and shall supercede the original document in all respect
48		Volume 1 Section 1 ITB Page No. 1 of 2 Serial No. 10	Rs. 17,15,400/- (Rupees Seventeen Lakh Fifteen Thousand Four Hundred only)	As per he Public Procurement Policy effective from 1st April 2012 (Gazette notification on 26th March 2012), registered MSMEs are exempted from Earnest Money Deposit and Tender cost, if any. The bidder shall submit their MSME / NSIC registration certificate valid on the date of submission of bid.
49		REC RFP	System Integrator should have implemented at least two (2) Projects having scope of Supply, Installation, Commissioning, Customization and integration of HES/MDAS and Billing/CRM, with a commercial off-the-shelf (COTS) Meter Data Management (MDM) system for minimum 200,000 AMR/DLMS meters commutatively in Power Distribution utility within last 07 Financial years immediately preceding FY from the bid submission date.	Refer to the revised document , Vol. I, Annexure A of Section-III Qualification of bidder v2.0 uploaded herewith as amendment and shall supercede the original document in all respect.
50		REC RFP 1.01.1. Eligibility Criteria for System Integrator	System Integrator must have implemented at least three (2) turnkey IT implementation projects in power distribution utilities in India/Globally within last 07 Financial years immediately preceding FY from the bid submission date comprising atleast any three(3) of the following IT Application and Infrastructure: - 1. Meter Reading, Billing, Collections 2. CRM/CIS 3. Portal, Web Self Service 4. Business Intelligence/Reporting/MIS/Dashboard 5. Backend Infra Hardware i.e. Servers, Storage, Security, Network Component like switch, router, firewall NMS etc. The total consumer base covered by the Bidder for such Project in any Utility should not be less than five (05) Lakh Consumers.	Refer to the revised document , Vol. I, Annexure A of Section-III Qualification of bidder v2.0 uploaded herewith as amendment and shall supercede the original document in all respect.
51		REC RFP 1.01.1. Eligibility Criteria for System Integrator	System Integrator must have set up at least one (1) Data Centre / Control Centre including supply, Installation & Commissioning of Server, Storage, network, security and Data Centre should be currently in Operation for at least for last one (1) year within last 07 Financial years immediately preceding FY from the bid submission date.	Refer to the revised document , Vol. I, Annexure A of Section-III Qualification of bidder v2.0 uploaded herewith as amendment and shall supercede the original document in all respect.

52		REC RFP 1.01.1. Eligibility Criteria for System Integrator	FMS Experience for Bidder or Consortium Member: The System Integrator must have experience of Facility Management services for at least One (1) Power Distribution utilities across India/globally within last 07 Financial years immediately preceding FY from the bid submission date comprising of the following: - 1. IT Applications 2. Infrastructure- Data Centre with Server, Network Components & Storage Infrastructure The total consumer base covered by the Bidder for such Project in any Utility should not be less than five (5) Lakh Consumers.	Refer to the revised document , Vol. I, Annexure A of Section-III Qualification of bidder v2.0 uploaded herewith as amendment and shall supercede the original document in all respect.
53		REC RFP 1.01.1. Eligibility Criteria for Meter Data Management	The Proposed MDM should have been Integrated with minimum 2 different Head End Systems / MDAS system and different Globally accepted enterprise Billing & CRM/CIS system in a Single Project in any power distribution utility within last 07 Financial years immediately preceding FY from the bid submission date.	Refer to the revised document , Vol. I, Annexure A of Section-III Qualification of bidder v2.0 uploaded herewith as amendment and shall supercede the original document in all respect.
54		REC RFP 1.01.1. Eligibility Criteria for Meter Data Management	Proposed MDM should have been integrated with at least 2 different globally accepted enterprise Billing System in any power distribution utility within last 07 Financial years immediately preceding FY from the bid submission date.	Refer to the revised document , Vol. I, Annexure A of Section-III Qualification of bidder v2.0 uploaded herewith as amendment and shall supercede the original document in all respect.
55	Page No. 36 of 602	clause no. 1.01.1, Eligibility Criteria for Meter Manufacturer of Volume-I: Annexure-A of Section-III QUALIFICATION OF THE BIDDER	Requirement: Meter Manufacturer must have successfully Supplied Meters with Cellular/RF Modem in AMR/ AMI projects in Global Power Distribution Utility within last 07 Financial years immediately preceding FY from the bid submission date The Cumulative quantities should be more than 2,00,000 AMR/AMI meters.  Documents to be provided: Client's PO/ WO/ LOA/ Contract Agreement and Completion Certification on client Letter head along with satisfactory Performance certificate of 01 year within last 07 Financial years immediately preceding FY from the bid submission date with contact details of clients for verification. JKPDD reserves the right to contact / visit such client before award of contract.	Refer to the revised document , Vol. I, Annexure A of Section-III Qualification of bidder v2.0 uploaded herewith as amendment and shall supercede the original document in all respect.
56	Page No. 38 of 478	clause no. 1.01.2, Eligibility Criteria for Meter Manufacturer of Volume-I: Annexure-A of Section-III QUALIFICATION OF THE BIDDER	Requirement To establish the experience of Smart Systems, bidder must have supplied/Implemented/Implementing Smart Energy meter with connect/Dissconnect facility and cellular/RF communication in india/Global within last 07 Financial years immediately preceding FY from the bid submission date..  Documents to be Provided Client's PO/WO/LOA Contract Agreement and Completion Certification on client Letter head along with satisfactory Performance certificate of 01 year within last 07 Financial years immediately preceding FY from the bid submission date with contact details of clients for verification. JKPDD reserves the right to contact / visit such client before award of contract.	Refer to the revised document , Vol. I, Annexure A of Section-III Qualification of bidder v2.0 uploaded herewith as amendment and shall supercede the original document in all respect.
57	Page No. 38 of 478	clause no. 1.01.2, Eligibility Criteria for Meter Manufacturer of : Volume-I: Annexure-A of Section-III QUALIFICATION OF THE BIDDER	Requirement The meter manufacturer should have 10 experienced manpower in the field of AMR/AMI on its rolls with experience of minimum 5 years in AMR/AMI Configuration or integration with web site MDAMand billing Applications.  Documents to be Provided Self certified Profiles of Resources	Refer to the revised document , Vol. I, Annexure A of Section-III Qualification of bidder v2.0 uploaded herewith as amendment and shall supercede the original document in all respect.
58	Page No. 37 of 602	clause no. 1.02.1 (i) Commercial of Volume-I: Annexure-A of Section- III QUALIFICATION OF THE BIDDER	Single Completed Project having scope of but not limited to complete Detailed Engineering, Project Management, Erection, Installation, Testing, Commissioning & specifically including integration of MDAS / AMI Head End System with a commercial off-the-shelf (COTS) Meter Data Management (MDM) and Utility IT systems (Billing and CRM) costing not less than the amount equal to 80% of the estimated amount of the project.	Refer to the revised document , Vol. I, Annexure A of Section-III Qualification of bidder v2.0 uploaded herewith as amendment and shall supercede the original document in all respect.

59	Page No. 30 of 478	clause no. 1.02.1 (i) Commercial of Volume-I: Annexure-A of Section-III QUALIFICATION OF THE BIDDER	<p>Single Completed Project having scope of but not limited to complete Detailed Engineering, Project Management, Erection, Installation, Testing, Commissioning &amp; specifically including integration of MDAS / AMI Head End System with a commercial off-the-shelf (COTS) Meter Data Management (MDM) and Utility IT systems (Billing and CRM) costing not less than the amount equal to 80% of the estimated amount of the project.</p> <p>Or</p> <p>Two Completed Projects having scope of but not limited to complete Detailed Engineering, Project Management, Erection, Installation, Testing, Commissioning &amp; specifically including integration of MDAS / AMI Head End System with a commercial off-the-shelf (COTS) Meter Data Management (MDM) and Utility IT systems (Billing and CRM) costing not less than the amount equal to 50% of the estimated amount of the project. Or Three Completed Projects having scope of but not limited to complete Detailed Engineering, Project Management, Erection, Installation, Testing, Commissioning &amp; specifically including integration of MDAS / AMI Head End System with a commercial off-the-shelf (COTS) Meter Data Management (MDM) and Utility IT systems (Billing and CRM) costing not less than the amount equal to 40% of the estimated amount of the project.</p>	Refer to the revised document , Vol. I, Annexure A of Section-III Qualification of bidder v2.0 uploaded herwith as amendment and shall supercede the original document in all respect.
60	Page No. 18 of 478	clause no. 13.2, BID Security of Volume-I: Section-II Instruction to Bidders (ITB)	where it is mentioned that: The bid security shall, at the bidder's option, be in the form of a crossed bank draft/pay orders/bank guarantee in favour of Employer from a reputed	For EMD-Bank Guarantee (BG) preparation, the RECPDCL Bank details are as follows: Acc. Name: REC Power Distribution Company Limited. Acc No: 10000697415 IFSC Code: IDFB0020101 IDFC Bank Barakhamba Road Soodh & Birla Towers New Delhi - 110001
61	Page No. 24 of 478	clause no. 24.1(k), Proof of Concept of Volume-I: Section-II Instruction to Bidders (ITB)	where it is mentioned that: Technically qualified bidders shall carry out PoC for 20 single phase consumers in areas of JKPDD for any location within the city as specified by JKPDD for showcasing their GPRS & RF network, HES and MDMS solution.	Deleted. Refer to the revised document , Vol. I, Section-VII Scope of Work v2.0 uploaded herwith as amendment and shall supercede the original document in all respect.
62	Page No. 33 of 478	clause no. 7. Bid Data Details of Volume-I: Section-III Bid Data Sheets (BDS)	where it is mentioned that: The Diploma Engineer can be considered for positions 5.6 and 7 provide they have experience of more than 3 years as compared to degree holders for the relevant position.	(v) The bidder shall furnish CV of following key personnel having experience in AMR / AMI on its rolls with experience of minimum 5 years in AMR/AMI Configuration, Integration with Web Site and Billing Applications : 1.Project Managers – Degree in Elect. Engg with 10 years experience 2.Project Engineers – Degree in Elect./Instrum./Electronic & Comm. Engg. with 7 years experience 3.Quality Control Engineers – Degree in Elect. Engg. with 5 years experience 4.Material Managers – Degree in Elect. Engg. with 5 years experience 5.Safety Engineers – Degree in Elect. Engg with 5 years experience The Diploma Engineer can be considered for positions 2 and 5 provide they have addnl. experience of 3 years as compared to degree holders for the relevant position.

63	(Page No. 34 of 602)	<p>clause no. 11. Bid Data Details of Volume-I: Section-III Bud Data Sheets (BDS)</p> <p>clause no. 1.01 (iv), Pre-qualification criteria-Part A of Volume-I: Annexure-A of Section-III QUALIFICATION OF THE BIDDER (Page No. 35 of 602)</p>	<p>The Time for implementation shall be 18( Eighteen Months)</p> <p>Please refer clause no. 1.01 (vii), Pre-qualification criteria-Part A Technical: of Volume-I: Annexure-A of Section-III QUALIFICATION OF THE BIDDER (Page No. 35 of 478) where it is mentioned that: The bidder should be an authorized implementation partner of OEM products proposed in the bid and should possess all the necessary authorizations from OEM to supply, customize, implement and support their OEM solutions at least for five years from the date of Go live of Project.</p> <p>Where as in clause no. 2.5 (a), Final Installment (10%)of Volume-I: Volume-I: Section-VI Sample Forms and Procedures (Page No. 144 of 602) where it is mentioned that: The balance ten percent (10%) of payment shall be done reimbursable on Completion of 1 year warranty + 5 years FMS period.</p>	<p>Clause 2.5 a) The balance ten percent (10%) of payment shall be done reimbursable on Completion of 5 year warranty period. The payment may be released earlier provided the supplier submits the Bank Guarantee (BG) for an amount equivalent to 10% of contract value.</p> <p>This BG shall remain in force up to and including 6 months after warranty period.</p>
64	Page No. 69 of 478	<p>clause no. 17.4.3, Materials Handling and Storage of Volume-I: Section-IV General Conditions of Contract (GCC)</p>	<p>where it is mentioned that: JKPDD officials shall prepare documentation as per meter change Protocol of JKPDD including taking photographs of the reading of old meter while changing of meters. Also dismantled meters shall be deposited at Central Store of JKPDD by the bidder.</p>	<p>Bidder has to co-ordinate for all required documentation under the monitoring and guidance of JKPDD officials.</p> <p>Refer to the revised document , Vol. I, Section-VII Scope of Work v2.0 uploaded herwith as amendment and shall supercede the original document in all respect.</p>
65	Page No. 211 of 478	<p>clause 1.3 (b), Functional requirement of Volume-I: Section-VII Scope of Works</p>	<p>List of preferable hardware / software is listed below for reference.</p> <ul style="list-style-type: none"> <li>☑ Meter Data Management (MDM) ..</li> <li>☑ Data archiving and SAN management software ☑ Centralized network management software along with patch management &amp; identity Management.</li> <li>☑ Antivirus software for all machines in control center.</li> <li>☑ Application and database Server suitable for HES, MDMS, along with operating system.</li> <li>☑ Application server with minimum 8GB RAM for development, quality and testing.</li> <li>☑ Web Server for accessing Head End System</li> </ul>	<p>Please refer to the revised BoQ and Financial Bid uploaded herewith.</p>
66	Page No. 210 of 602	<p>clause(B) 1.3 (b), Read Performance &amp; Penalty clause C of Volume-I: Section-VII Scope of Works</p>	<p>Scheduled Data Performance / Latency Monthly Billable Read (3 days billing window) Register Read 99.9% of readings from total installed base; HES to flag for non-compliance cases</p>	<p>Refer to the revised document , Vol. I, Section-VII Scope of Work v2.0 uploaded herwith as amendment and shall supercede the original document in all respect.</p>
67	Page No. 214 of 478	<p>clause C (B) 1.3 (b), Read Performance &amp; Penalty clause of Volume-I: Section-VII Scope of Works</p>	<p>where it is mentioned that: All %ages of SLA are to be calculated over calendar month.</p>	<p>Refer to the revised document , Vol. I, Section-VII Scope of Work v2.0 uploaded herwith as amendment and shall supercede the original document in all respect.</p>
68	Page No. 216 of 478	<p>clause (B) Read Performance of (C) Service Level Agreement(SLA) Volume-I: Section-VII Scope of Works</p>	<p>There will be penalty of Rs 100 /AMI NIC Card/ Day for noncommunicating for more than 15 days .</p>	<p>Refer to the revised document , Vol. I, Section-VII Scope of Work v2.0 uploaded herwith as amendment and shall supercede the original document in all respect.</p>
69	410/411 of 478	<p>clause no. 1.4.7 (b)</p>	<p>Current Circuit: Max 4VA.</p>	<p>current circuit power consumption as per IS 16444.</p>
70	412 of 478	<p>clause no. 1.4.31</p>	<p>Size /form factor of NIC card should be approved by JKPDD and bidder should make necessary arrangement for integration of the same.</p>	<p>NIC card should be compatible with different meter manufacturer, The same shall be verified during PoC and Technical Evaluation stage.</p>
71	416 of 478	<p>clause no. 1.4.38 (f)</p>	<p>Current mismatch - Meter should log CM event as per thresholds in Table 4 - Tamper Event Details for Single Phase Smart Meters. Priority of logging this event in memory of meter is higher than earth tamper and earth LED shall glow as per its own logic Irrespective of this logic.</p>	<p>LED/ LCD icons for earth tamper indication</p>
72	416/417 of 478	<p>clause no. 1.4.39 (c)</p>	<p>Tamper event logging along with values of intensity &amp; snapshot of occurrences &amp; restorations Table 4 - Tamper Event Details for Single Phase Smart Meters.</p>	<p>Tamper logging details shall be in-line with IS 15959.</p>
73	416 of 478	<p>clause no. 1.4.39 (d)</p>	<p>All tamper logging thresholds values shall be configurable from remotes.</p>	<p>Deleted</p>



74	417 of 478	refer Table-4	Threshold value for restoration of events - Frequency > 47 Hz OR Frequency < 52 Hz.	Threshold value for restoration of events - Frequency > 47 Hz AND Frequency < 52 Hz.
75	425 of 478	refer clause no. 1.8.10 (a)	Pulse Rate: The meters shall have a suitable test output device. Red color blinking LED(marked as imp/kWh) shall be provided in the front. This device shall be suitable for using with sensing probe used with test benches or reference standard meters. The test output device shall have constant pulse rate of (preferred value- 3200) pulse / kWh. Meter constant shall be indelibly printed on the name plate as (preferred value- 3200) imp / kWh.	The Pulse rate shall be as per manufacture type test report and manufacturer specific.
76	320 OF 478	Volume-III: Section-I	where letter to The Development Commissioner (Power) ref. REC/PO/JK/DDUGJY/17-18/232 dtd. 18.07.2017 letter is attached.	Deleted
77		Volume-II: Section-III	Price schedules, the BOQ are mentioned 1. SMART PREPAID METER BOQ & 2. NORMAL PREPAID METER BOQ. In there at S. No.(B) "Meter Box supply" it is mentioned Meter box 1:1, 2:1 & 4:1 for 1Ph meter is required.	Indicative drawing of single phase Deep Drawn metal meter box is given along with Specs of meter box. Based on the same, the revised drawing for PC boxes to be submitted by bidder d for finalization of meter box of configuration 2:1 and 4:1 boxes for approval at the stage of detailed engineering.
78		Volume-III: Section-I, Page No. 519, Clause No.7.1	„TYPE TEST (S. No. 6), of the Single Phase Smart Prepaid Meter Box technical Specification it is mentioned that: Resistance to Abnormal heat and fire/ Glow wire test (IS: 14772-2000): Parts of insulating materials which might be exposed to thermal stresses due to electric effects shall not be affected by abnormal heat and by fire. The compliance shall be checked by means of the glow wire test performed at 960 deg C.	The compliance shall be checked by means of the glow wire test performed at 650 deg C as per IS 14772
79		Volume-III: Section-I, Clause No.4, S.No.8	of the Three Phase Smart Prepaid Meter Box technical Specification (Page No.334 OF 478) it is mentioned that Glow wire tested at: 960°C.  Similarly, in Clause No.7.1, „TYPE TEST," S. No. 6, of the Three Phase Smart Prepaid Meter Box technical Specification (Page No. 531 of 602) it is mentioned that Resistance to Abnormal heat and fire/ Glow wire test (IS: 14772-2000): Parts of insulating materials which might be exposed to thermal stresses due to electric effects shall not be affected by abnormal heat and by fire. The compliance shall be checked by means of the glow wire test performed at 960 deg C.	The compliance shall be checked by means of the glow wire test performed at 650 deg C as per IS 14772
80	113	Vol I, Sec V, Special Conditions of contract, Sl. No 12		Deleted
81	113	Vol I, Sec V, Special Conditions of contract, Sl. No 10	At all places in the clause, replace the word "Employer" with "Employer/Owner/State Distribution Utility in case employer is a Central Public Undertaking'.	At all places in the clause, replace the word "Employer" with "Employer/RECPDCL in case employer is a Central Public Undertaking'.
82	112	Vol I, Sec V, Special Conditions of contract, Sl. No 5	All the payments of project cost of infrastructure to the Contractor shall be made by JKPDD strictly out of the funds received from PFC on behalf of the Owner	All the payments of project cost of infrastructure to the Contractor shall be made by RECPDCL on behalf of JKPDD strictly out of the funds received from PMDP on behalf of the Owner. All invoices shall be raised to JKPDD with complete address and GST of JKPDD with C/o REC PDCL. RECPDCL shall make the payment to bidder on behalf of JKPDD.
83	410	1.4.5. Operating Voltage	Meter shall be operational with required accuracy from 0.6 Vref to 1.2 Vref. However, meter shall withstand the maximum system Voltage of 440V (for minimum 5 min)	Meter shall be operational with required accuracy from 0.4 Vref to 1.2 Vref. However, meter shall withstand the maximum system Voltage of 440V (for minimum 5 min)
84	434	2.4.5. Operating Voltage	Meter shall be operational with required accuracy from 0.6 Vref to 1.2 Vref. However, meter shall withstand the maximum system Voltage of 440V (for minimum 5 min)	Meter shall be operational with required accuracy from 0.4 Vref to 1.2 Vref. However, meter shall withstand the maximum system Voltage of 440V (for minimum 5 min)
85		General		The reference volatveg to be read as 240V in place of 230 V at all places wherever mentioned.

86		General	<p>The climatic conditions shall be as follows for all equipments and shall supersede wherever mentioned in the RFP documents:</p> <p>Maximum altitude above sea level -&gt; 5000m  Maximum ambient air temperature - &gt; 50° C  Maximum daily average ambient air temperature -&gt; 40° C  minimum ambient air temperature -&gt; (-)30° C  maximum temperature attainable by an object exposed to the sun &gt; 60° C  maximum yearly weighted average ambient temperature-&gt; 32° C  maximum relative humidity -&gt; 100%  average number of thunderstorm days per annum (isokeraunic level)- &gt;70  average number of rainy days per annum -&gt; 120 mm  average annual rainfall -&gt; 1500 mm  maximum wind pressure - &gt; 260Kg/m<sup>2</sup></p> <p>Equipment supplied shall be suitable for working in such type of environmental conditions and shall have requisite type test certificate specially required for such type of environmental conditions. The offered items shall be designed to operate in varying environments. Adequate measures shall be taken to provide protection against contaminants, pollutants, water &amp; moisture, high altitude, ice loading, lightning &amp; short circuit, vibration and electro-magnetic interference etc.</p>
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