

**Pre-Bid Queries for Engagement of Agency for Supply, Implementation and Maintenance of AMI System for JKPDD, Tendor No.- RECPDCL/TECH/JKPDD/e-Tender/2018-19/2832 Dated: 30.10.2018**

S. No.	Page No.	Section/ Item	Technical Specifications as per RFP	Vendor's Queries/ Changes/ Modification Suggested	Clarifications/amendment	Remarks Type
1	203	3	Further, 100% of meters shall be covered through RF Communication network, however considering the hilly terrain area, upto a total of 10% meters may be allowed on GPRS/3G/4G subject to approval from RECPDCL/JKPDD.	The backhaul connectivity for the RF based AMI system works on the GPRS network and hence clarity needs to be provided on the consistency of network connection in the operational areas in order to ensure SLA requirements of the project	JKPDD will provide the required SIM for GPRS/3G/4G Connectivity. Vendor to provide their specific requirement . This is also to be noted that for Backhaul Connectivity , GPRS/3G/4G will be used as backup communication and MPLS/FOC will be used as Primary Connectivity to DC through Secured VPN/APN.	clarification
2	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.	1. For the purpose of integraton of communication module different makes, kindly provide the details about the OEM's meter working with JKPDD 2. In order to ensure interoperability, we understand your idea of integration of communication module with multiple makes of meter. However, we would stress that quantity of second make/other make shall be restricted to 10% of the tendered quantity. Please confirm.	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.	Amendment
3	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	1. Carrying out the POC at 2 locations ie one in Jammu and one in Srinagar would require additional time, resources and cost . Hence kindly request you to restrict the PoC to one location to speed up the decision making process 2. Kindly clarify the deliverables or the test cases to be demonstrated for the POC . For eg A. RF Communication B. Connect Disconnect etc This would help in evaluating all the bidders along the same lines	Deleted & 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..	Amendment
4	143	2.1	Sixty percent (60%) payments against various items of price schedule including 100% Excise Duty, Taxes etc shall be paid on Sign off of SRS, design document and Data model and Factory Acceptance test (FAT) and Delivery of 2,00,000 Smart Meters along with related Hardware, Software and equipments at Project site (Payment will be made on Prorata basis considering lots of 10,000 each.)	1. Request to modify the payment terms as below: 80% against delivery of smart meters on pro rata basis & 20% against Installation and Commissioning of the meters . For the IT Hardware and Software the payments shall be made as that of meters. 2. Request to reduce the lot size to 2000 nos for the payment purposes.	No Change	clarification
5	35	Section No Vol-I, Annex-A of Sec-III Para No / Clause No QR	Subcontractors' technical experience and financial resources shall not be taken into account in determining the Bidder's compliance with the qualifying criteria	It is requested to consider credentials of OEM partner	No Change	clarification

6	36,42	Section No Vol-I, Annex-A of Sec-III Para No / Clause No xii of QR , 2.01.31, 2.01.32	xiii. Eligibility & Qualifying Requirements / Criteria (regarding Holding Company): In case a bidder does not satisfy the financial / technical / experience criteria stipulated in this RFP, at QR and Marking scheme on its own, the Holding Company would be required to meet the stipulated respective criteria  2.01.3.1 In the event the bidder is not able to furnish the information of its own (i.e. separate), being a subsidiary company and its accounts are being consolidated with its group/holding/parent company, the bidder should submit the audited balance sheets, income statements, other information pertaining to it only (not of its group/Holding/Parent Company) duly certified by any one of the authority	Both the statement contradicts each other	The first clause clarifies that in case the bidder is submitting details of holding company, it should also provide the following documents: . In such an event, the bidder would be required to furnish along with its bid, a letter of undertaking from the Holding Company, supported by Board resolution, extending support for the execution of the contract by the bidder in case of award.  In second para, it highlights that is the bidder was not able to submit its details as it is a subsidiary and accounts are being consolidated by the holding company, it has to submit the required declaration. However, it need not submit the Board resolution and other required documents as it is submitting its own details for eligibility and not the holding company details.	clarification
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	ISO 9001:2008 should also be allowed	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.	amendment
8	147	Section No Vol-I, Sec-VI Para No / Clause No 2.5	Payment Terms 2.5. Final Installment (10%):	It is requested to amend this clause as already 10% PBG will be deposited against this project, this payment to be made with second installment i.e. second installment to be made 20%	No Change	clarification
9		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%.	Kindly change the minimum quantity to 2.5%	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.	Amendment
10	213	Scope of Work "C"	Service Level Agreement	We propose to change SLA requirements as per CEA guideline.	As per CEA guidelines agreed. 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.	Amendment

11	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.	Ideally HES shouldn't have this functionality. This should be part of MDMS or any 3rd party module integrated with MDMS	Deleted. 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.	Amendment
12	463	HES Spec	19. Pre-Payment/Prepaid Functions The Head End System should support pre-payment capabilities.	Can't be part of HES. Should be part of MDMS or any 3rd Pary Application Integrated with MDMS.	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.	Amendment
13		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 <b>Smart Meters</b> in a single project in any power distribution utility within last 07 Financial years immediately preceding FY from the bid submission date.	The scale of Smart Grid /AMI projects executed in the country is for small circles/regions where the requirement has not been for more than 30,000 smart meter/ Consumers. Request you to kindly amend this clause as: The proposed MDM solution should have been implemented for more than 5,00,000 nos. of <b>Meters</b> in a single project in any power distribution utility in India 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.	Amendment
14	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.	The current tender is called for a proven MDM system as a part of overall AMI system which may or may not be COTS MDM. Also the QR should ensure that the bidder should have sufficient experience in integrating with various external applications irrespective o COTS or Non- COTS. Hence we believe that the experience for HES integration with any MDM should be sufficient. Also, having "COTS" in the QR will hinder many capable bidders with successfull experience in similar projects. Request you to modify the clause as: System Integrator should have implemented at least two (2) Projects having scope of Supply, Installation, Commissioning, Customization and integration of <b>HES/MDAS and Billing/CRM, with a 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.</b>	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.	Amendment

15	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 including integration 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>	The current tender is called for a proven MDM system as a part of overall AMI system which may or may not be COTS MDM. Also the QR should ensure that the bidder should have sufficient experience in integrating with various external applications irrespective of COTS or Non- COTS. Hence we believe that the experience for HES integration with any MDM should be sufficient. Also having "COTS" in the QR will hinder many capable bidders with successful experience in similar projects. Request you to modify the clause as: 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 <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.	Amendment
16	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.	Based on our Smart Grid experience, we understand that Load survey, Billing data and Events data needs to be stored for 5 years. However IP data storage is required for 1 month only. Please confirm.	Refer to the revised document & detailed BoQ, uploaded herewith as amendment and shall supercede the original document in all respect.	Amendment
17		Volume-I : Section-VII/Scope of work	RECPDCL envisages engaging an AMI Implementing Agency (AIA) with sufficient experience, technical competence & expertise, financial strength and related infrastructure facilities for carrying out engineering, design, supply, replacement/installation, commissioning, integration, operation and 5 years maintenance/FMS support of Advanced metering infrastructure (AMI) solution for 2.0 lakh smart electricity meters with communication module	Please confirm if it is a single DC required for 2lac meters. Also please confirm the proposed Control/Data Center location.	The new backend IT Infrastructure to be hosted into existing 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.	Amendment
18	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.	Please confirm if the MDM license and sizing is required for 2,00,000 Lacs meters with 100% expansion i.e for 4,00,000 meters without additional cost to JKPDD	RFP is now envisaged to host meter data for 20 Lacs smart meters in 5 years. Refer to the revised document & detailed BoQ, uploaded herewith as amendment	Amendment
19	Page 11	Volume-I : Section-VII/Scope of work	This RFP also include installation, commissioning and testing of the MDMS along with integration of MDMS with other application of JKPDD as asked for in this RFP.	Please confirm what all existing applications of JKPDD are required to be integrated with the MDMS along with their details.	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.	clarification

20	Page 2	Volume-I : Section-VII/Scope of work	Bidder is required to provide set up in active passive DC-DR setup (where DC & DR will have same capacity).	We assume Disaster Recovery(DR) be a complete replica of primary DC. Please Confirm	Yes	clarification
21	Page 10	Volume-I : Section-VII Scope of Works/Clause No.1.4.	METER DATA MANAGEMENT SYSTEM (MDMS) EV CHARGING MODULE	Based on our Smart Grid experience we understand EV Charging is altogether a different module and its not a part of MDMS functional requirement.Please confirm if only the EV Module integration with MDMS is required. Request you to please provide additional details on the EV ModuleRequirement.	MDMS functional as per CEA guidelines. 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.	clarification
22		General	General	What is the amount/value put to the tender	The estimated project cost is Rs.126.54 Crs	clarification
23		General	Polling frequency of Instantaneous Parameters (IP) data to MDMS	Please confirm if the Instantaneous Parameters (IP) data frequency for 1PH WC meter, 3PH WC meters is 60 min	Shall be informed during detailed engineering.	clarification
24		General	Polling frequency of Load Survey data to MDMS	Please confirm Load Survey (LS) data frequency for 1PH WC meter, 3PH WC meters. 15min or 30 min	Shall be informed during detailed engineering.	clarification
25		General	Polling frequency of Billing data data to MDMS	Please confirm if the Billing data frequency for 1PH WC meter, 3PH WC meters is one record on daily basis (including all TODs)	Shall be informed during detailed engineering.	clarification
26		General	Polling frequency of Load Profile data to MDMS	Please confirm if the Load Profile data frequency for 1PH WC meter, 3PH WC meters is one record on daily basis (including all TODs)	Shall be informed during detailed engineering.	clarification
27	17	VOLUME-I: SECTION – II INSTRUCTION TO BIDDERS (ITB)	11.0 Bid Prices Imported goods shall not be acceptable. Only indigenous goods shall be acceptable in the contract.	Type-Delete As per pg.no. 9 point C.xi) (ii) have been duly authorized by the manufacturer or producer of the related plant and equipment or component as per proforma in attachment 8 to supply and/or install that item in the Employer's country; we understand that if bidders do not have any particular item then it can be implemented with Manufacturer Authorization Form(MAF) .Hence goods/item from outside India which the bidder do not manufacture should be permitted.  Request to delete this clause.	The equipments has to be preferrably indigenous. However incase the bidder needs to procure equipment outside Employer's country, then the bidder must take approval from the employer.	clarification
28	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.	Type-Amendment 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.Also Consortium partner should not be vendor to any other consortium	x. A firm can not be a JV or consortum 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.	Amendment

29	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:	Type-Delete In the recent past smart meter has been deployed in several parts of India, RECPDCL is requested to visit those sites to judge the best communication network (RF/GPRS) & solution. RECPDCL is requested to delete the clause	Deleted & 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..	Amendment
30	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.	Many of the 3rd Party components/ applications are governed by OEM Lifecycle management and therefore Bidder can have no control on the same. In case there is any obsolescence of any of the components JKPDD have to procure the upgraded version/ equipment with their own cost  23. The bidder shall guarantee for providing service & expansion support in the aforesaid area for at least 60/66 months	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.	Amendment
31	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.	Many of the 3rd Party components/ applications are governed by OEM Lifecycle management and therefore Bidder can have no control on the same. In case there is any obsolescence of any of the components JKPDD have to procure the upgraded version/ equipment with their own cost  24. The offered solution including (H/w, s/w, OS, licenses & others) shall have life cycle of 60/66 months from post-Go-Live date.	23. The bidder shall guarantee for life cycle in the aforesaid area for at least 5 years after completion of FMS period. In case there is any obsolescence of any of the components JKPDD have to procure the upgraded version/ equipment with their own cost. However, the bidder shall meet the requirement free of cost in case the support on said equipment is withdrawn by respective OEM during this period i.e. declared as End of support by OEM.	Amendment
32	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.	In the recent past smart meter has been deployed in several parts of India, RECPDCL is requested to visit those sites to judge the best communication network (RF/GPRS) & solution. RECPDCL is requested to delete the clause	Deleted & 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..	Amendment
33	205	Volume-I : Section-VII Scope of Works	29. For all devices which are proposed to be installed in open should have IP67 class. All proposed Meters and Meter Boxes should with stand extreme weather conditions as applicable to J&K. Devices should be immune to stray Electric Fields and surges.	JKPDD is requested to consider IP 65 as it will be sufficient for J&K weather conditions  RECPDCL is requested to delete the clause	For all devices which are proposed to be installed in open should have IP55 class or higher as per CEA guidelines.	Amendment

34	207	Volume-I : Section-VII Scope of Works	42. Less than 1.5% failure rate per annum for all network communications equipment (Modems) over the extended operating life of the system. (Operating life and extended life of the equipment is typically defined by contract between the utility and the communication equipment supplier.) Bidder to replace all equipment free of cost and an additional penalty of 1% of AMC per month for every subsequent 1% increase in failure rate over and above 1.5% shall be deducted.	The maximum limit of the penalty should be defined .....Bidder to replace all equipment free of cost and an additional penalty of 1% of AMC per month for every 1% increase in failure rate over and above 1.5% should be deducted upto a max limit of 5% overall	No change	clarification
35	144	Appendix-1: TERMS AND PROCEDURES OF PAYMENT	2.2. Second Installment (10%): Ten percent (10%) payments against various items of price schedule shall be paid on Installation, commissioning and integration of all AMI Hardware, Software, field material in Project Area and Site Acceptance test (SAT) and meeting following conditions:	Type-Amendment Installation payment should be done on lot basis 2.2. Second Installment (10%): Ten percent (10%) payments against various items of price schedule shall be paid on Installation, commissioning and integration of all Hardware, Software, field material in Project Area and Site Acceptance test (SAT) and meeting following conditions:	No change	clarification
36	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.	Type-Amendment  Client's PO/ WO/ LOA/ Contract Agreement/Completion Certification/ satisfactory Performance certificate of 01 year within last 07 Financial years on client Letter head 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 herwith as amendment and shall supercede the original document in all respect.	Amendment
37	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 bidsubmission date . Qualified Project should have meters of two different make and minimum quantity for each make should not be less than 5%.	Type-Amendment 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 one of them 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.	Amendment

38	100	GCC 35. Suspension	35.1 The Employer may request the Project Manager, by notice to the Contractor, to order the Contractor to suspend performance of any or all of its obligations under the Contract. Such notice shall specify the obligation of which performance is to be suspended, the effective date of the suspension and the reasons therefor. The Contractor shall thereupon suspend performance of such obligation (except those obligations necessary for the care or preservation of the Facilities) until ordered in writing to resume such performance by the Project Manager.	Type-Amendment The suspension period should start after Ninety days of notice by employer to contractor. RECPDCL is requested to amend the clause suitably.	No change	clarification
39	101	GCC 36.1 Termination for Employer's Convenience	36.1.1 The Employer may at any time terminate the Contract for any reason by giving the Contractor a notice of termination that refers to this GCC Sub-Clause 36.1.	Type-Delete Since any contract is a legal agreement between purchaser and bidder, hence neither parties can terminate the contract as per their own convenience Please delete the clause	No change	clarification
40	437	1.1.37 Communication capabilities and software feasibilities	n) There should not be any reservation of bidder on a particular frequency band to be used for communication.	Type-Amendment All wireless solution is based on reserved frequency like RF mesh is based on RF 865-867MHz , GPRS based on GSM 850, 900,1800,1900MHz etc  Bidders to choose frequencies which are approved globally/ accepted by WPC	As per CEA, CBIP and WPC guidelines applicable in India	clarification
41	Page No - 1	of Qualification of Bidder	Lead bidder of this consortium (if any) needs to be either a System Integrator or a meter manufacturer and should meet their respective Eligibility criteria	<p>The Sole Bidder/Lead member/Member of Consortium shall be a Company incorporated under the Companies Act 1956/ 2013.</p> <p>a) Registration / License for Business/Transaction - The Bidder shall be a registered individual/ Organization/ Company with the Central Government or any of the States/ Government and shall have a valid license/ authority for supply of the goods &amp; services indicated in this tender document.</p> <p>b) In case of Lead Bidder and Consortium, the lead bidder and all consortium members need to satisfy this condition.</p> <p>The Bidder / Lead Bidder of Consortium shall be a Meter Manufacturer / Distribution Franchisee / System Integrator in business operation in India / globally for the last five years commencing as of 22nd March 2014 at the time of Bid Submission date.</p> <p>The Sole Bidder/Lead member/Member of Consortium shall not be disqualified by any Central/ State Govt/ PSU or an entity controlled by them for providing a similar services to any State or Central Government Department or Ministry / PSU as on bid submission date. In case of Consortium both, the lead bidder</p>	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.	clarification
42	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).	<p>Bidder shall be an experienced System Integrator for at least more than last five years, in the field of Power, Information Technology, Communication / Electronic Component Mfg for metering, communication systems and supplier of goods and services for any Govt. Institution / PSU / Department / Utility in India. Bidder / consortium must have must have valid Authorization (IMF) of the Meter Manufacturer (DEM) for the supply of similar metered goods &amp; services.</p>	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.	Amendment



43	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: -	<p>The bidder and Authorized OEM Meter manufacturers, shall submit the requisite copy of purchase orders / audited certifications and completion of supply documents for any of the similar goods and services for projects in the Power / Telecommunication / IT&amp;C Sector of any Central Government/State/UT Government/ PSU institutions/ department / Distribution Franchisee or Utility in India.</p> <p>Bidder shall submit along with copy of supply orders and/or sanction orders &amp; work completion certificate issued by such institution (over the last 5 Years ending 31-March-2018) shall also be submitted along with the bid documents. Individual Client's PO/ WO / LO/ LDA/ Contract/ Performance certificate and contact details of client's needs to be submitted, Auditor Certificates, for Manufacturing and Supply quantity / Services shall be submitted alongwith BD.</p>	Refer amendment	Amendment
44	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	Bidder / Consortium must have valid standards certification as of date of: 1. CMMI Level 3 / 5 2. ISO 9001:2015 , ISO 14001; , ISO 27001:2015 / 13	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	Amendment
45	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.	The Bidder/ Consortium must have successfully manufactured or implemented Static Electrical Meter / Smart Meters/ AMI/ AMR projects (meeting any of the below criteria) in India in the last 5 years (i.e. FY 2013-14 to till the date of publication of this tender). a) Manufactured and Supplied. at least 500,000 Meters for Utilities in India. OR b) Supplied at Least 100,000 AMI/AMR units for Electrical Meters / Prepayment Meters with RF/GPRS communication for Projects in India. OR c). Manufactured and Supplied at least 40,000 Smart Meters with AMI and remote switch facility in India.		Amendment
46	Page No - 4	of Qualification of Bidder	Meter Manufacturer must have successfully Supplied Meters (Smart or with Cellular/RF Modem) in AMR/ AMI projects in Indian/ Global Power Distribution Utility within last 07 Financial years immediately preceding FY from the bid submission date.		Refer amendment	Amendment
47			The Cumulative quantities should be more than 2,00,000 meters.			
48	Page No - 4	of Qualification of Bidder	Meter Manufacturer should have in-house NABL Accredited Meter Test Laboratory since last 2 years.	Meter Manufacturer should have in-house NABL Accredited Meter Test Laboratory or Lifetime Membership of a NABL Lab.	No change	Amendment
49	Page No - 5	of Qualification of Bidder	Partner shall be a private/public Firm/Company registered under Companies Act 1956 since last two years from the date of Publication of Tender.	Bidder and all Consortium Member Partner(s) shall be a private/public Firm/Company registered under Companies Act 1956 since last 5 (Five) years from the date of Publication of Tender. Copy of valid Certificates	No change	Amendment

50	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.	Communication System shall be offered in full Compliance as per CEA Guidelines for AMI Functionality for Smart Metering system 2016 or latest. Bidder to submit complete compliance statement along with 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.	Amendment
51	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.	Amendment
52	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.	Bidder / Consortium must submit OEM Authorisation Certificate for any out-sourced MDM / HES offered for the project as per RFP and Compliance to CEA Guidelines (2016 and latest) . Bidder / Consortium must have Implemented / supplied to SI Implementation Agency for at least 2 Projects ifor utilities / department / Institutions for Power Electricity Metering Projects including at least one (1) Project for State Utility Metering Project in India.	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.	Amendment
53	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.	Copy of Authorization of OEM for support of product(s) for duration of complete project as per RFP. Copy of certificates / PO / Auditor Certications as documentary evidence to be submitted.		Amendment
54	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.			amendment
55	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.			amendment

56	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>	<p>Bidder / Consortium must submit documentary evidence to have sufficient capability for execution of large project and must have executed ICT / meter manufacturing / supply / system integration for project(s) more than the proposed project value being bid by Bidder / Consortium as per RFP, documentary evidence / certificates to be submitted along with Bid. Copies of Work order executions &amp; performance certificate/ work order completion certificate/ Auditor Certificates to be submitted.</p>	<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.</p>	Amendment
57	Page No - 7	of Qualification of Bidder	<p>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.</p>	<p>Bidder shall have liquid assets (LA) and/ or evidence of access to or availability of fund based credit facilities of not less than INR 100 Crs. and the Banker / Auditor should confirm that the liquid Assets and /or Credit facility is available for Bidder / Consortium Member for the works.</p>	<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.</p>	Amendment
58	Page No - 7	of Qualification of Bidder	<p>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 &amp; 1.02.2 above and collectively the requirement of para 1.02.3 &amp; 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 &amp; 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:</p>	<p>Bidder / Consortium must submit documentary evidence to have sufficient capability for execution of large project and must have executed ICT / meter manufacturing / supply / system integration for project(s) more than the proposed project value being bid by Bidder / Consortium as per RFP, documentary evidence / certificates to be submitted along with Bid.</p>	<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.</p>	Amendment

59			At least one partner shall meet, not less than 50% of the minimum criteria given at Para 1.02.3 & 1.02.4 above and Each of the other partner(s) shall meet not less than 25% of the criteria given at Para 1.02.3 & 1.02.4 above	The Bidder / Lead Bidder of Consortium must have at least 50% of the criterion at Para 1.02 & 1.02.4 above.	No Change	clarification
60	Page No - 415+E77:E86		Permanent Magnet: Immune up to 0.5T and Event logging >0.5T. In all above conditions the Recording to shift on I max and logging in events. The thresh hold values as mentioned in Table 15 - Tamper event details for 3 phase meters. (Single Phase Meter)	Permanent Magnet: Immune up to 0.5T and Event logging . Logging of magnetic strength is not possible.	No changes	clarification
61	Page No - 415		Electrostatic Discharge (ESD) Meter shall be immune up to 8 kV and shall record accurate energy as per IS- 13779:1999/CBIP-325. Meter shall log the event into memory as 'ESD' with date & time stamp for any ESD greater than 8 kV with snap shot of Voltage, Phase current, Neutral current, Energy KWh, KVAh and Instant PF. However, in case of ESD application, the meter shall perform as per the following features: i. Meter shall log the event in its memory as" ESD" with date and time stamp threshold values as per Table 4 - Tamper Event Details for Single Phase Smart Meters ii. The shielding around the meter shall be such that it does not get affected by high Voltage and high energy or low energy impulse when comes in contact with meter from any side. Meter should immune to jammer. iii. Meter shall latch & store all the tampers events which have occurred/stored in memory of meter from the date of energization till life of meter. Total tamper storage should be as per Table 4 - Tamper Event Details for Single Phase Smart Meters. (Single Phase Meter)	Electrostatic Discharge (ESD) Meter shall be immune up to 35 kV and shall record accurate energy as per IS- 13779:1999/CBIP-325. i. The shielding around the meter shall be such that it does not get affected by high Voltage and high energy or low energy impulse when comes in contact with meter from any side. Meter should immune to jammer. Logging of ESD event is not possible.	No changes	clarification
62	Page No - 416		If either of Phase or Neutral is missing, Load switch should open. (Single Phase Meter)		No changes	clarification
63	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 = 10 Amp; (b) Imax = 60 Amps;	2.4.3. Basic Current (Ib) & rated Maximum current (Imax) (a) Ib = 20 Amp; (b) Imax = 100 Amps;	Amendment
64	Page No - 439		Permanent Magnet: Immune up to 0.5T and Event logging >0.5T. In all above conditions the Recording to shift on I max and logging in events. The thresh hold values as mentioned in Table 15 - Tamper event details for 3 phase meters. (Three Phase Meter)	Permanent Magnet: Immune up to 0.5T and Event logging .	No changes accepted	clarification

65	Page No - 439	<p><b>Electrostatic Discharge (ESD)</b> Meter shall be immune up to 8 kV and shall record accurate energy as per IS- 13779:1999/CBIP-325. Meter shall log the event into memory as 'ESD' with date &amp; time stamp for any ESD greater than 8 kV with snap shot of Voltage, Phase current, Neutral current, Energy KWh, KVAh and Instant PF. However, in case of ESD application, the meter shall perform as per the following features:</p> <p>i. Meter shall log the event in its memory as" ESD" with date and time stamp threshold values as per Table 4 - Tamper Event Details for Single Phase Smart Meters</p> <p>ii. The shielding around the meter shall be such that it does not get affected by high Voltage and high energy or low energy impulse when comes in contact with meter from any side. Meter should immune to jammer.</p> <p>iii. Meter shall latch &amp; store all the tampers events which have occurred/stored in memory of meter from the date of energization till life of meter. Total tamper storage should be as per Table 4 - Tamper Event Details for Single Phase Smart Meters. (Three Phase Meter)</p>	<p><b>Electrostatic Discharge (ESD)</b> Meter shall be immune up to 35 kV and shall record accurate energy as per IS- 13779:1999/CBIP-325.</p> <p>i. The shielding around the meter shall be such that it does not get affected by high Voltage and high energy or low energy impulse when comes in contact with meter from any side. Meter should immune to jammer.</p> <p>Logging of ESD event is not possible.</p>	No changes accepted	clarification
66	417	<p>1)Immunity up to 8 KV with NIC and logging of value from 1 KV to 50 KV 2)&gt; 50 mT (permanent magnet) OR DC magnetic induction &gt; 200 mT OR AC magnetic induction &gt; 50 mT 3)Temperature &gt; 100 Degree C (1 Phase Meter)</p>	Logging of ESD Event and Temperature is not possible.	ESD event to be logged while temperature logging not required.	clarification
67	440	<p>1)Immunity up to 8 KV with NIC and logging of value from 1 KV to 50 KV 2)&gt; 50 mT (permanent magnet) OR DC magnetic induction &gt; 200 mT OR AC magnetic induction &gt; 50 mT 3)Temperature &gt; 100 Degree C (Three Phase Meter)</p>	Logging of ESD Event and Temperature is not possible.	ESD event to be logged while temperature logging not required.	clarification
68	443	<p>This specification covers the technical requirements of design, manufacturing, testing &amp; 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. It is not the intent to specify completely herein all the details of tech design</p>	The reference voltage is written 240 V somewhere its written as 230 V its contradicting. We request you to allow both reference voltage 230 and 240 V.	The reference voltage value to be read as 240 volt instead of 230 volt at all places.	Amendment
69	434	<p>2.4.4. Reference Conditions for testing the performance of the meter (a) Vref = 240 V ± 1 % (b) Frequency = 50 Hz ± 0.3% (c) Temperature = 27 C ± 2°C</p>		No change, However meter should be operational with required accuracy within the operating ranges of above parameters as mentioned in meter specs.	clarification
70			Any Data Concentrator Units (DCU) proposed for the project must have Dual SIM capability and provision of Ethernet Port for requirements as per communication infrastructure availability in future in the project geography.	DCU with dual Sim functionalities is preferred not mandatory	clarification

71		1.0 Prequalification criteria – Part A: 1.01 Technical	vi. In case Lead Bidder is a Meter Manufacturer, they must meet the eligibility criteria for Meter Manufacturer and must bring the System Integrator as consortium partner provided System Integrator to meet their respective Eligibility criteria.	We hereby suggest that System Integrator should be treat as a OEM	No change	clarification
72		ITB 24.1 ©	The Time for implementation shall be 18 (Eighteen Months)	By viewing the quantity of the meters, the implementation time should be 24 months. Also define the commencement period.	No change	clarification
73		Appendix-1:	TERMS AND PROCEDURES OF PAYMENT	We suggest Progressive payment terms should be 1st instalment should be 80% 2nd instalment should be 5% 3rd instalment should be 5% 4th instalment should be 5% 5th final should be 5% Along with terms and conditions as mentioned in the appendix-1. And installation payment terms are also missing in the RFP, please define the same.	No change	clarification
74		Meter quantities	1 Lakh each in Jammu City and Srinagar City	Please Provide the details of consumers details with location where these will be installed.	The meters shall be installed in Jammu & Srinagar City only. The detailed consumer list shall be provided after award of work. However, bidders are advised to visit the site before submission of Bid.	clarification
75		Volume-I : Section-VII Scope of Works	All the facilities required to execute the work properly shall be engaged by the contractor without any extra cost implication to RECPDCL.	We understand that RECPDCL will provide the space for storing the Meters. Please confirm.	The land for storage shall be provided by JKPDD while the temporary infrastructure to be set up by the bidder.	clarification
76			1. Engineering Design, supply, replacement /installation, testing, commissioning and FMS of Smart Meters along with Communication infrastructure and MDMS that can support multiple applications like AMI, HES/AMR, Net metering over a single/hybrid communications platform with defined SLAs.	The replacement of all existing Meters with service cable and related accessories which need to be replaced by new Smart Meters should be in the scope of RECPDCL.	It is in the scope of bidder. 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.	clarification
77			3. Selected bidder will propose & establish the solution initially for approx. 2,00,000 Smart Meters (1.0 Lakh in Jammu City + 1.0 Lakhs in Srinagar City) but it should be horizontally & vertically scalable to cover the entire utility consumers in future. Further, 100% of meters shall be covered through RF Communication network, however considering the hilly terrain area, upto a total of 10% meters may be allowed on GPRS/3G/4G subject to approval from RECPDCL/JKPDD	We suggest the communication technology should not be restricted through RF network only, it should be amend with GPRS/3G/4G also. & the required SIM purchase and its recurring cost is in the scope of JKPDD, pls confirm.	The sim procurement and recurring cost is in scope of 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, for more details/.	clarification
78			23. The bidder shall guarantee for providing service & expansion support in the aforesaid area for at least 10 years. Any upgraded network elements should have backward compatibility.	We understand that after FMS period, the required service and expansion support will be on the chargeable basis. Cost will be Ritually Decided after completion of FMS Period Please confirm.	23. The bidder shall guarantee for providing service & expansion support in the aforesaid area for at least 5 years after completion of FMS period. In case there is any obsoletion, after FMS period, of any of the components JKPDD have to procure the upgraded version/ equipment with their own cost. However, the bidder shall meet the requirement free of cost, in case the support on said equipment is withdrawn by respective OEM during this period i.e. declared as End of support by OEM.	Amendment

79			34. It is proposed to replace some of the damaged Service cables of old meters based on the Survey report. All the activities for installation of new cable with clamps & connectors alongwith removal of old cables is in the scope of bidder.	All the works of replacement should be in the scope of RECPDCL/JKPDD for better & fast installation work.	It is in the scope of bidder. 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	clarification
80		Page 231 31. Installation	Installation of the software at Data Centre, DR Centre and various other locations, Installation of AMI equipment at Sub stations, DTs, HT and Select LT consumers	Please arrange to provide the location details of Data Centre, DR centre.	DC-Srinagar DR-Jammu	clarification
81		33. INTEGRATI ON SCOPE	Integration with other existing Applications	Please provide the details of existing other applications.	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	Amendment
82		Cl 1.4.35	The make of the load switch should be of reputed make like Grooner, Merlin Gerin or equivalent and same shall be confirmed by the bidder during tendering..	KG Tech make should be included in this list.	Included	clarification
83			Utilization Categories : UC2 or better.	This should be UC1 as per IS16444, please amend the same.	Utilization Categories : UC1 or better.	Amendment
84		Cl 1.4.36	a) The meter shall have facilities for data transfer locally through CMRI (Using optical port/NIC card) and remotely by GPRS/3G/4G/RF Mesh with proper security via Plug in type NIC	CMRI comm should be by Optical port. & For remotely we can provide 3G/RF Mesh please accept the same.	No change	clarification
85		Cl 1.4.38	d) Single Wire tamper: When neutral is disconnected from both load side and supply side, the meter should record energy as per rated parameters (Vref) & log the event.	In single wire tamper Meter will be in disconnect condition to prevent this tamper. Please accept the same.	No change	clarification
86		Cl 1.4.38	f) Current mismatch - Meter should log CM event as per thresholds in Table4-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 will glow as per its own logic Irrespective of this logic	This tamper not applicable as per IS16444. please amend the same.	No change	clarification
87		Table 4	ESD/JAMMER : Immunity up to 8 KV with NIC and logging of value from 1 KV to 50 KV	This tamper not applicable as per IS16444	No change	clarification
88		Table 4	Temperature Rise = Temperature > 100 Degree C .	This tamper not applicable as per IS16444	No change	clarification
89		Table 4	Current Mismatch = $I_p + I_n \geq 20\%$ of $I_b$ ( vector sum)AND $I_p > 20\%$ of $I_b$	This tamper not applicable as per IS16444	No change	clarification
90		Cl 1.5.1	c) Meter base shall be opaque with polycarbonate LEXAN 500R or equivalent on prior approval from the JKPDD	This Should be LEXAN 143R.	Refer to the uploaded Meter specifications	Amendment
91		Cl 1.5.1	d) Meter cover shall be transparent with polycarbonate LEXAN 143R/943A or equivalent on prior approval from the JKPDD	Meter Cover should be Opaque with transparent viewing window. Pls accept the same	No change	clarification
92		Cl 1.5.1	e) Meter cover & base shall be provided with continuous and seamless Ultrasonic welding such that it is not opened without breaking the enclosure	This should be Ultrasonic welding/ Chemical Welding.	No change	clarification
93		Cl 1.5.2	c) The terminal block shall be of opaque with polycarbonate LEXAN500R or equivalent on prior approval from the JKPDD	Terminal block should be PBT	Refer to the uploaded Meter specifications	Amendment

94		CI 1.5.2	e) To get the desired temp rise & avoid hot spots the design of each terminal screw, preferred terminal screw shall be with hex head screw / allen head screw & shall be operated with allen key or special key. The preferred Size of the allen screw shall be 6mm dia.	Terminal screw should be as per IS16444. It can be Hex head/ Allen head / Minus head. Minus head should prefer due to Indian electrical conditions. Pls delete requirement of allen screw.	No change	clarification
95		CI 1.5.3	Terminal cover shall be transparent with polycarbonate LEXAN 143R/943A or equivalent on prior approval from the JKPDD	Terminal cover will be opaque . Pls accept the same	No change	clarification
96		CI 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.	Meter rating for 3P Should be 10-60A as per indian electrical conditions. For higher current we suggest LTCT meters.	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.	Amendment
97		CI 2.4.36	The make of the load switch should be of reputed make like Grooner, Merlin Gerin or equivalent and same shall be confirmed by the bidder during tendering	KG Tech should be added in this list.	Accepted	clarification
98		CI 2.4.36	Utilization Categories : UC2 or better	This should be UC1 as per IS16444	Utilization Categories : UC1 or better	amendment
99		CI 2.5	(a) The meter shall have facilities for data transfer locally through CMRI (Using optical port/NIC card) and remotely by RF / RF Mesh with proper security via Plug in type NIC.	CMRI comm should be by Optical port & For remotely we can provide 3G/RF Mesh pls accept the same.	No change	clarification
100		CI 2.8	All tamper logging thresholds values shall be configurable from remotes. Note: "Meter shall have neutral CT for tamper identification and analysis.	Tamper Threshold should be factory programmable due to security & as per IS16444. Field configurability of tamper can cause loss to utility. Meter will be Neutral Shunt for tamper indication and analysis.	No change	clarification
101		Table 15	ESD/JAMMER : Immunity up to 8 KV with NIC and logging of value from 1 KV to 50 KV	This tamper not applicable as per IS16444	No change	clarification
102		Table 15	High Neutral Current & temperature Rise tampers	This tamper not applicable as per IS16444	No change	clarification
103		Table 15	High Neutral Current & temperature Rise tampers	This tamper not applicable as per IS16444	No change	clarification
104		CI 2.9.1	c) Meter base shall be opaque with polycarbonate LEXAN 500R or equivalent on prior approval from the JKPDD.	This Should be LEXAN 143R.	Refer to the uploaded Meter specifications	amendment
105		CI 2.9.1	d) Meter cover shall be transparent with polycarbonate LEXAN 143R/943A or equivalent on prior approval from the JKPDD.	Meter Cover should be Opaque with transparent viewing window. Pls accept the same	Refer to the uploaded Meter specifications	amendment
106		CI 2.9.1	e) Meter cover & base shall be provided with continuous and seamless Ultrasonic welding such that it is not opened without breaking the enclosure.	This should be Ultrasonic welding/ Chemical Welding.	No change	clarification
107		CI 2.9.2	c) The terminal block shall be of opaque with polycarbonate LEXAN500R or equivalent on prior approval from the JKPDD.	Terminal block should be PBT	Refer to the uploaded Meter specifications	Amendment
108		CI 2.9.2	d) To get the desired temp rise & avoid hot spots the design of each terminal screw, preferred terminal screw shall be with hex head screw / allen head screw & shall be operated with allen key or special key. The preferred Size of the allen screw shall be 6mm dia.	Terminal screw should be as per IS16444. It can be Hex head/ Allen head / Minus head . Minus head should prefer due to indian electrical conditions. Pls delete requirement of allen screw.	No change	clarification



109		CI 2.9.3	Terminal cover shall be transparent with polycarbonate LEXAN 143R/943A or equivalent on prior approval from the JKPDD.	Terminal cover will be opaque . Pls accept the same	Refer to the uploaded Meter specifications	Amendment
110		CI 2.12.2	Instantaneous Parameters :	Parameter should be As per IS16444. Neutral current & Temperature (Deg C) parameter not applicable as per IS16444.	No change	clarification
111		CI 2.12.1	Load Survey : .	Parameter should be As per IS16444. Temperature (Deg C) parameter not applicable as per IS16444	No change	clarification
112		CI 2.10	The meter shall be capable of measuring Cumulative Energy (KWh), and MD (KW) with time of day (TOD) registers having 8 zones & 02 seasons (no. of zones & time slot shall be programmable by CMRI with adequate security level and in one to one /broadcast mode over the air).	Seasons not applicable as per IS16444	No change	clarification
113		CI 2.14.4	b) Temperature rise of terminal block with 150% I <sub>max</sub> for 6 hours.	This should be 105% I <sub>max</sub> as per IS16444	Temperature rise of terminal block with 105% I <sub>max</sub> for 6 hours	amendment
114		VOLUME -I: SECTION – VII	33. All the meters are proposed to be installed on Poles. There will be 3 combinations of Meter boxes used to install the single phase meters i.e Meter Box with One Meter, Meter Box with two Meters & Meter Box with 4 meters. All three phase meters will be installed in single box. The specification of single phase & three phase meter box are provided alongwith indicative drawing for 2/4 meter box. Subsequent specs & technical details for 2/4 Meter boxes will be submitted by bidder for approval for Project execution	We have PC box for 1P meter where only one meter can install in the box. Pls accept the same.	No change	clarification
115		Technical specs CI 4.0	5.Material a) Base : Polycarbonate equivalent to Lexan 943 A with dark grey color. b) Cover : Polycarbonate equivalent to Lexan 943 A with transparent clear (no color)	This should be LEXAN 143R  This should be LEXAN 143R	Refer to the uploaded Meter specifications	Amendment
116		Technical spec CI 4.0	2. Degree of ingress protection : IP 55	This should be IP 54	No change	clarification
117		Technical spec CI 4.0	10. Preferred Size of the box HxLxD in mm : 300x250x120 subject to change based on Meter	Pls delete the same. Size should be manufacture specific.	Size of the meter box should be based on type of meter considering all clearnances mentioned in the specifaicon. Bidders to ensure that all type of meters can be accomodated in the same meter box in future.	amendment
118		Technical specs CI 5.0	5.3-The box shall be provided with meter mounting arrangement along with MS plate on top for mounting the meter from different manufacturers, having different mounting dimensions.	We have PC Box with only Genus make Meter Mounting arrangement facility. Pls delete the requirement.	No change	clarification
119		Technical spec CI 5.0	5.13 The box size should be such that it should accommodate the smart meter with size of approx. 263x149x98mm	We have PC Box with only Genus make Meter 234x140x83.5 mm size Mounting arrangement facility. Pls accept the same.	Size of the meter box should be based on type of meter considering all clearnances mentioned in the specifaicon. Bidders to ensure that all type of meters can be accomodated in the same meter box in future.	amendment
120		Technical spec CI 5.0	5.10. The box shall be provided with four mounting (fixing) holes of 8 mm size.	Hole size should be 6 mm.	All meters are proposed to be installed inside box on pole top. Accordingly, vendor need to submit the drawing of installation arrangement.	clarification

121		Technical specs CI 7.1	Flammability test (IS : 11731 (Part II)-1986)/UL :94) : The sample shall comply to flammability requirements of category FV0/V0 as per respective standards	It should be FV2. Pls accept the same.	No change	clarification
122		CI E.	CMRI should be compatible with Low Power Radio module to be provided by the bidder for receiving the data from the meter to the CMRI/Hand Held UNIT and ultimately transferring to BCS & vice versa for loading required instructions to the meters	CMRI should have optical port facility only for data downloading . Pls accept the same 7 delete this requirement.	No change. Vendor should provide latest data download instrument equivalent with CMRI specifically used for Smart meter application.	clarification
123		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.	Since the Utility Order is always placed on the System Integrator/ Meter Manufacturer hence a Communication Provider like Wirepas will not having any PO from the Utility. Hence requesting to accept a letter from the Utility/ Consultant conveying the same. As these projects are O&M type, hence completion certificate can be got after completion of the O&M period. Hence request removal of this requirement. Our work was evaluated and verified for performance by Deloitte. Hence requesting acceptance of Performance certificate by any of the Big5 Consulting Organisation also.	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.	amendment
124		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.	As the network performance and the evaluation was done by Deloitte ; hence requesting acceptance of Deloitte certificate for meeting this requirement	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.	amendment
125		Section-VII, Scope of Work, clause A.13 , Pg 204	The bidder must provide network redundancy (50% of Full load capacity) for each element other than nodes	Network Redundancy at Node level will make you reach the SLA's.	NO change	clarification
126		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 JKPD	This is a restrictive clause and gives undue benefit to few meter manufacturer.	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	Amendment
127		C. Service Level Agreement (SLA)	For Communication: Availability for each elements per quarter- 98%	Availability of GPRS Network is not in the hands of Bidder or even the mobile operator as it is occasionally put down by Indian Security Agencies due to security reasons.	SLA Revise as per CEA guidelines. 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	clarification

128		Adding provision of procurement from NSIC registered MSEs and Startup companies to support "Startup India Scheme" and "Make In India" Initiative of GOI	With reference to Public Procurement Policy for MSEs Order, 2012 has been notified under section 11 of MSMED Act, 2006, we hereby request you to kindly allow MSME participation in this tender. The Policy is effective from 1st April 2012 (Gazette notification on 26th March 2012). The policy mandates every Central Ministry /Department / PSUs shall set an annual target for 20% procurement from MSE Sector- effective from 1st April 2015	Energy Efficiency Services Limited (EESL) - a Joint Venture of NTPC Limited, Power Grid Corporation of India Limited (PGCIL), Power Finance Corporation Limited (PFC) and Rural Electrification Corporation Limited (REC) has taken initiatives to support and facilitate Government Of India "Startup India Scheme" by including scope of procurement from start-ups and MSMEs in their recent tenders-e.g. EESL Tender ref. EESL/06/ICB-Smart Meters-ESCO-HR-UP/171807030 dated 01-08-2017 (E-Tender ID – 1373).	No Change You can participate as an OEM	clarification
129		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)	The Public Procurement Policy effective from 1st April 2012 (Gazette notification on 26th March 2012), provides exemption from payment of earnest money and Tender document to registered MSEs. Hence we request you to kindly allow the exemption of EMD for NSIC registered firms.	Agreed	amendment
130		Regarding Pre-Qualification and Eligibility criteria as per Volume-I : Annexure-A of Section-III QUALIFICATION OF THE BIDDER		With reference to Policy Circular F. NO. 1(2)(1)/2014-MA Part dated 10th March 2016, we request you to kindly relax the prior experience and prior turnover criteria for Startups and Micro and Small Enterprises registered with NSIC.	No change	clarification
131		1. SMART METERS AND AMI IMPLEMENTATION Page No. 412 Clause No. 1.4.25.	Alternate mode of supply to the meters: In case of meter damage, reading/data should be retrieved with the help of battery or other power source. (Bidder to provide free of cost 04 nos. of jig for retrieving data from memory of meter. Jig should be such that NVM can be push fit on this jig and data can be retrieved from this NVM).	We understand that the NVM from the damaged meter is to be removed and placed in the external Jig (Push fit) and the data is to be retrieved. Is our understanding correct?	Complete activity relating to data retrieval and feeding to MDMS is in the scope of bidder.	clarification
132		1. SMART METERS AND AMI IMPLEMENTATION Page No. 413 Clause No. 1.4.36. (d)	Optical Communication port shall be available for communication. Communication ports shall not be affected by any type of injection /unauthenticated signals and having proper sealing arrangement. The complete data shall be downloaded within 5 minutes.	Since the Smart Meters are provided with Outer Meter Box (OMB) will it be sufficient to provide sealing arrangement of optical port on OMB only.	Optical port to be as part of meter and not to be protruded to the meter box.	clarification
133		1. SMART METERS AND AMI IMPLEMENTATION Page No. 414 Clause No. 1.4.36(o)	Meter once powered up with NIC card should be self-detected (First Breath) by communication network and its basic name plate details & current readings should be transferred to HES.	As per IS 16444 , critical parameters as ESW bit are transferred to the HES during first breath message, since nameplate details are fixed and can be read anytime from HES, hence please clarify if it will be sufficient to provide parameters defined in IS 16444.	No change	clarification

134		1. SMART METERS AND AMI IMPLEMENTATION Page No. 415,416,417 Clause No. 1.4.37(b),1.4.39. (a) and Table 4- Tamper Event Details for Single Phase Smart Meters	Meter shall be immune to Influence of Magnet and ESD as per clause 1.4.37 If value of Magnet is abnormal then, "Tamper event" shall be logged and energy shall be recorded at 100% of I <sub>max</sub> as per clause 1.4.37.	As per the standard IS 15959 Part 2, there is no Obis Code defined for ESD/Jammer and Temperature Rise tamper events. Hence, we request you to please provide standard Obis codes to be followed by the bidders in order to incorporate the requested event	OBIS code shall be provided during detailed engineering after award of contract.	clarification
135		1. SMART METERS AND AMI IMPLEMENTATION Page No. 416 Clause No. 1.4.39 Note	All tamper logging thresholds values shall be configurable from remotes.	As per IS 16444 , the tamper threshold values are defined as "Non-Programmable" parameters. Please clarify if these parameters need to be configurable? If yes request you to please provide standard Obis codes to be followed by the bidders in order to incorporate this requirement.	No change.OBIS code shall be provided during detailed engineering after award of contract.	clarification
136		1. SMART METERS AND AMI IMPLEMENTATION Page No. 422 Clause No. 1.8.4 (f)	f) Consumption (Reading date & all History, time zone register wise; Minimum 6 Histories)a. Period c. Power factor b. Total active d. CMD	Request you to please clarify if CMD and MD (Maximum Demand) are same, if not kindly define CMD.	Cumulative Maximum Demand which is summation all MDs from the date of manufacturing of meter	clarification
137		1. SMART METERS AND AMI IMPLEMENTATION Page No. 422 Clause 1.8.	PARAMETERS IN BCS The parameters in BCS shall be as under 1.8.1. Load Survey The meter shall be capable of recording load profile of 45 days 30 min IP for kWh, kW, Voltage and Phase and Neutral current for ON days/time. Meter shall be capable of recording daily Energy and Demand 00:00 to 24:00 Hrs. KWh, KW in BCS for 45 days.	In compliance to IS 16444 the meter is capable of recording Load profile for 35 days with 30 min IP in its memory, whereas recording in HES/BCS for 45 days with 30 min IP is possible, please clarify if it is acceptable. Similarly, Meter is capable of recording daily Energy and Demand 00:00 to 24:00 Hrs. KWh, KW in BCS for 45 days, however in its memory it can record for 35 days as per standard. Please clarify if it is acceptable.	No change'	clarification
138		1. SMART METERS AND AMI IMPLEMENTATION Page No.418 Clause No. Table 4- Tamper Event Details for Single Phase Smart Meters	Compartment size for On Off events is defined as 25 in Table-4	As per IS 16444 Maximum 20 logs are allowed for On-Off events, please clarify if 20 events are sufficient as HES will store the logs of these events ?	No change'	clarification

139		1. SMART METERS AND AMI IMPLEMENTATION Page No. 420 1.5.1. Meter Body	e) Meter cover & base shall be provided with continuous and seamless Ultrasonic welding such that it is not opened without breaking the enclosure. Front cover & base shall be such that it is not possible to cut & open the meter without certainly damaging the meter body and by no means shall an attempt to reassemble would not leave physical evidence.	We request you kindly allow an option for chemically welded, single molded, break to open meters which is accepted by many progressive utilities as it leaves physical evidence if opened forcefully. Also the chemical welding is equivalent to ultrasonic welding	No change. However, we prefer single molded meters subject to compliance of all specifications and will be subject to approval of employer.	clarification
140		1. SMART METERS AND AMI IMPLEMENTATION Page No. 415,417 Clause 1.4.38. Neutral Disturbance & other tampers Sub clause ( c ) and Table 4 under Threshold Value for Occurrence of Single wire event point ( c )	The meter shall record energy proportional to the current and Vref (240V) when any of the tamper circuits enclosed as per annexure-1 are used to tamper energy using a diode or a variable resistance or a variable capacitance energy saving device. Condition no. 38 of Annexure-1 (Timer test):	Annexure-1 defining the tamper circuits is not available in the tender document request you to kindly provide the same	Refer uploaded document separately.	clarification
141		Annexure-1 - Mounting dimensions of meters Page 344 and Volume III section II Tender drawings Page 350		We have the most compact designed smart meter having 105 mm clearance between the top and bottom mounting screws, We request you to add our meter dimension in Annexure 1 and also with reference to the Outer Meter Box listed in Volume III section II Tender drawings Page 350, the adjustable meter mounting arrangement can accommodate a smart meter with minimum 117.5 mm clearance between the top and bottom mounting screws. Hence we request you to kindly amend the OMB design such that it can accommodate compact meters also.	Size of the meter box should be based on type of meter considering all clearances mentioned in the specification. Bidders to ensure that all type of meters can be accommodated in the same meter box in future.	clarification
142		2. THREE PHASE WHOLE CURRENT METERS Page No. 433 Clause 2.4.4	Reference Conditions for testing the performance of the meter (a) Vref = 240 V +/- 1 % (b) Frequency = 50 Hz +/- 0.3% (c) Temperature = 27 C +/- 2 C	As per the Indian Standards IS 16444/IS 13779 the reference voltage, frequency and temperature defined for testing the performance of the meters are 240V, 50Hz and 27 C respectively, we request you to kindly clarify.	No change. However, Operating range of these parameters as defined in specs.	clarification
143		2. THREE PHASE WHOLE CURRENT METERS Page No. 438 Clause 2.5 (n)	There should not be any reservation of bidder on a particular frequency band to be used for communication.	We request you to kindly allow only Approved bands or Licence Free RF bands.	As per CEA, CBIP and WPC guidelines applicable in India	clarification

144		2. THREE PHASE WHOLE CURRENT METERS Page No. 438 Clause 2.5 (n)	Meter once powered up with NIC card should be self-detected by RF network and its basic name plate details & current readings should be transferred to HES.	As per IS 16444 , critical parameters as ESW bit are transferred to the HES during first breath message, since nameplate details are fixed and can be read anytime from HES, hence please clarify if it will be sufficient to provide parameters defined in IS 16444.	No change	clarification
145		2. THREE PHASE WHOLE CURRENT METERS Page No. 443 Clause 2.9.1 €	Meter Body e) Meter cover & base shall be provided with continuous and seamless Ultrasonic welding such that it is not opened without breaking the enclosure. Front cover & base shall be such that it is not possible to cut & open the meter without certainly damaging the meter body and by no means shall an attempt to reassemble would not leave physical evidence.	We request you kindly allow an option for chemically welded, single moulded, break to open meters which is accepted by many progressive utilities as it leaves physical evidence if opened forcefully. Also the chemical welding is equivalent to ultrasonic welding	No change	clarification
146		2. THREE PHASE WHOLE CURRENT METERS Page No. 444 Clause 2.9.1 (f) (g)	f) The meter body shall be sealed in such a way that opening of meter base and cover is possible only after breaking the seal(s). g) Unidirectional screws to be used on meter covers where ever required.	We request you to kindly allow Single Molded Enclosure design which are screwless, tamperproof and break to open type and minimize the usage of metal parts in the meter.	No change. However, we prefer single molded meters subject to compliance of all specifications and will be subject to approval of employer.	clarification
147		2. THREE PHASE WHOLE CURRENT METERS Page No. 444 Clause 2.12.1	Load SurveyThe meter shall be capable of recording 30 minutes average of the following parameters for atleast last 45 daysa) Voltage for each phaseb) Current of each phasec) Average PFd) Average KWhe) Average KVAhf) KVArh(Lagging)g) KVArh(Leading)h) Temperature(Deg-C)Meter shall be capable of recording daily Energy and Demand 00:00 to 24:00 Hrs KWh/KVAh, KW/KVA in BCS for 45 days. Midnight energy value of KWh/KVAh and KW/KVA should be available in meter memory for last 45 days.	In compliance to IS 16444 the meter is capable of recording Load profile for 35 days with 30 min IP in its memory, whereas recording in HES/BCS for 45 days with 30 min IP is possible; please clarify if it is acceptable.Similarly, Meter is capable of recording daily Energy and Demand 00:00 to 24:00 Hrs. KWh/KVAh, KW/KVA in BCS for 45 days, however in its memory it can record for 35 days as per standard. Please clarify if it is acceptable.	No change	clarification
148		2. THREE PHASE WHOLE CURRENT METERS Page No. 445 Clause 2.12.2 Instantaneous Parameters Table 17	Line Current-R,Y,BReactive Current-R,Y,BTemperature(Deg C	Please clarify and define obis codes for Active Current and Reactive Current if they are different from Line current. Also the for temperature rise event the OBIS codes has to be defined to incorporate this requirement.	OBIS code shall be provided during detailed engineering after award of contract.	clarification
149		2. THREE PHASE WHOLE CURRENT METERS Page No. 448 Clause 2.12.8 Table 18	Auto Scroll mode (For Import Configuration) Sr.No. 2 - Meter Serial No. *->Complete Meter Serial no. should be there in single shot.	Request you to please define the length of the meter serial number	OBIS code shall be provided during detailed engineering after award of contract.	clarification

150		2. THREE PHASE WHOLE CURRENT METERS Page No. 440 Clause 2.8 Table 15	Table 15 - Tamper event details for 3 phase meters	Request you to kindly allow the Events recording to be compartmented as per the standard 15959 part 2 as stated below: Voltage related - 50 Events Current Related - 50 Events Power related - 20 Events Transaction Related - 50 Events Other Events - 50 Events Control events - 20 Events Also with respect to the ESD/Jammer events and Temperature rise events we request you to kindly define the Obis codes to be followed by the bidders in order to incorporate this requirement.	No change. OBIS code shall be provided during detailed engineering after award of contract.	clarification
151		<b>REC RFP</b>	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.	We would like to draw your attention to the CEA (Apex Governing Body) guidelines which clearly states the following under 7.1.3. Meter Data: “• The MDM shall accept input, process, store, and analyze Meter data from HES and meter data collected through hand held meter reading instruments and manual meter reads.” It is clearly evident from CEA guidelines that the MDM is used to process the data, once it is received from any meter data source. So, all kind of metering data should be taken into consideration whether from smart meters or traditional meters, while evaluating the MDM. Therefore, the implementation experience of the product should also consider MDM implemented for all kinds of meters and not just smart meters. Also, as per the industry definition of MDM, it is clear that MDM should handle data from all kinds of meters whether smart meters in AMI or any traditional meter data. Request you to kindly modify the concerned clause as following: 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 electricity 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 herwith as amendment and shall supercede the original document in all respect.	amendment

153		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.	As per the clause the system integrator must have implemented atleast three (2) turnkey.....Please clarify if the number of projects required are three or two.	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.	amendment
154		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.	As the IT industry is moving towards cloud-based Data Centre/ Control Centre, the same is used in many recent power sector projects. Therefore, we request you to consider cloud deployments also into account and change the clause to:"System Integrator must have implemented/set up atleast one (1) Data Centre / Control Centre (on-premise or cloud) 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 either on premise/cloud 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.	amendment
155		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.	As the IT industry is moving towards cloud-based Data Centre/ Control Centre, the same is used in many recent power sector projects. Thus, the FMS experience of infrastructure whether for on-premise deployment or on cloud must be considered. Therefore, we request you to change the clause to: 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 (on premise/cloud)- 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 herwith as amendment and shall supercede the original document in all respect.	amendment



156		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.	<p>We understand REC wants to evaluate the capabilities of the MDM to handle data from different HES and also its capabilities to integrate with different billing system. But it may not be necessary that utilities would have implemented various HES in the MDM related projects. Also typically any utility will be using a single billing system (which may be traditional legacy systems or enterprise billing solutions) for all their revenue management related requirements. Thus, we request you to kindly modify the clause as follows:</p> <p>The Proposed MDM should have been Integrated with</p> <ul style="list-style-type: none"> <li>· minimum 2 different Head End Systems / MDAS system and</li> <li>· minimum 2 CIS/ utility billing systems</li> </ul> <p>in any power distribution utilities within last 07 Financial years immediately preceding FY from the bid submission date.</p> <p>Also, in many MDM related projects, in many occasions the work order is issued in the name of the System Integrator, but client may issue a completion certificate in the name of the MDM OEM along with the System Integrator. We thus, request you to modify the documentary requirements as follows Client's PO/ WO/ LOA/ Contract Agreement/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. JKPD reserves the right to contact / visit such client before award of contract.</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.	amendment
157		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.	Since the intent is to check the integration of MDM with other critical systems in utility such as HES and Billing, we believe the above clause where the MDM is integrated with 2 HES/MDAS and 2 CIS/billing system should prove the MDM's integration capabilities. We request you to kindly modify the earlier clause and delete this clause to avoid repetition.	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.	amendment

158	Page No. 36 of 602	<p>clause no. 1.01.1, Eligibility Criteria for Meter Manufacturer of Volume-I: Annexure-A of Section-III QUALIFICATION OF THE BIDDER</p>	<p>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  <input checked="" type="checkbox"/> 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.</p>	<p>Sir, Utilities generally issue supply completion certificate and Performance certificate is issued only after the completion of the warrantee / guaranty period.    So, against the above clause we request you to kindly accept completion certificate which is equally valid in place of performance certificate.  We request you to kindly amend the clause as, „Client's PO/ WO/ LOA/ Contract Agreement and Completion Certification OR Performance on client Letter head within last 07 Financial years immediately preceding FY from the bid submission date with contact details of clients for verification".</p>	<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.</p>	amendment
159	Page No. 38 of 478	<p>clause no. 1.01.2, Eligibility Criteria for Meter Manufacturer of Volume-I: Annexure-A of Section-III QUALIFICATION OF THE BIDDER</p>	<p>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 imidiately preeceding 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.</p>	<p>Sir, since there only very few such Project finalized in India, we request you to kindly accept client testimonial showing Project under implementation in place of Performance certificate.    We request you to kindly amend the clause as, „Client's PO/ WO/ LOA/ Contract Agreement and Client testimonial showing Project Implemented OR under Implementation" within last 07 Financial years immediately preceding FY from the bid submission date with contact details of clients for verification".  OR  Alternatively, we request you kindly accept „Prepaid Metering systems" in place of „Smart Energy Meters".    We request you to kindly amend the clause as, „To establish the experience of Smart or Prepaid Metering systems, bidder or its partner/sub-contractor must have Supplied Smart OR Prepaid Energy Meters with Connect / Disconnect facility on Cellular / RF communication and Implemented / Implementing Secure Prepaid Vending System in Global Power Distribution Utility within last 07 Financial years.    <input checked="" type="checkbox"/> One (1) Project of minimum 5000 Smart or Prepaid meters with RF / GPRS / 3G / 4G modem.</p>	<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.</p>	amendment

160	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 MDM and billing Applications.  Documents to be Provided Self certified Profiles of Resources	Sir, as you are aware that MDM is Software (SI) experience we request you to kindly delete MDM from this clause.	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.	amendment
161	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.	We could not find the estimate value of this Project Tender anywhere in this tender document. We request you to kindly provide estimated amount of this Project.	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.	amendment
162	Page No. 30 of 478	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. Or Two Completed Projects 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 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 & 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.	Sir, you may be aware that there are only very few such high magnitude Metering projects having wide scope of integration are just introduced / finalized in India.  We request you to kindly delete this from QR requirement so that more number of Bidders can participate in this Bidding and RECPDCL shall get benefit of competitive Prices.	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.	amendment

163	commercial Requirement Page No. 5 of 478	Volume-I: Section-I,  Invitation for Bids (IFB), Name of the assignment) where it is mentioned that: Bid security (i.e. EMD) and Integrity Pact shall be submitted by the bidder in a sealed envelope by last date and time of submission of bids.  Similarly, Please refer Clause No. 9.1 of Volume-I: Section-II Instruction to Bidders (ITB) (Page No. 12 of 478) where it is mentioned that: Bid security (i.e. EMD) and Integrity Pact in hard copy (in Original) shall be submitted by the bidder in a sealed envelope by the schedule date and time of submission of bids.	We understand original Integrity Pact and EMD-BG shall only be submitted physically and rest of all documents shall be uploaded on RECPDCL portal. Please confirm.	Accepted	amendment	
164	Page No. 14 of 602	refer Clause no. 9.3 (ix) of Volume-I: Section-II Instruction to Bidders (ITB)	where it is mentioned that: In order for a joint venture to qualify, each of its partners or combination of partners must meet the minimum criteria listed in the Qualification Requirement for the Bidder in enclosed Annexure-A (BDS) for an individual Bidder for the component of the contract they are designated to perform. Failure to comply with this requirement will result in rejection of the joint venture bid.	Kindly clarify in case if one of the JV Partner (s) is not able to execute his portion of responsibility at a later stage during Project execution period in that case can the Lead bidder engage an alternate Subcontractor to complete the Project in time? Also please clarify whether Subcontractor"s qualification (i.e instead of JV) is also acceptable as Eligibility Criteria under clause no. 1.01.2 of Volume-I: Annexure of Section-III QUALIFICATION OF THE BIDDER?	In case, Employer may decide as the case may be based on the recommendation of contract committee	clarification
165	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 we request you to kindly provide us your RECPDCL Bank details such as (i) Account no., (ii) Account holder Name / Designation (iii) Name of the Bank, (iv) Branch Address, (v) IFSC code and (vi) MICR code as these are mandatory for any Banking transactions.	Acc. Name: REC Power Distribution Company Limited. Acc No: 10000697415 IFSC Code: IDFB0020101 IDFC Bank Barakhamba Road Soodh & Birla Towers New Delhi - 110001	amendment
166	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.	We request you kindly provide and define the sufficient time lines to carry out PoC well in advance as accordingly Bidders has to arrange required logistics for successful demonstration PoC.	Deleted. 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.	amendment
167	Page No. 27 of 478	clause no. 27.8 Volume-I Section-II Instruction to Bidders (ITB)	where it is mentioned that: RECPDCL reserves the right to conduct the reverse auction (if required) for the products/ services being asked in the tender...	For healthy completion of Bidding we request you to kindly remove Reverse Auction clause from Tender.	No change	clarification
168	Page No. 29 of 478	clause no. 34.0, Performance security of Volume-I Section-II Instruction to Bidders (ITB)	where it is mentioned that: ..the successful Bidder shall furnish the performance security for 10% (Ten percent) of the contract price...	10% PBG is high, we request you to kindly accept PBG for 5% of Contract value as followed in all other DISCOMS.	No change	clarification

169	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.	The Positions 5.6 and 7 are not given in the clause, we request you kindly clarify or delete the same.	(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.	amendment
170	(Page No. 34 of 602)	clause no. 11. Bid Data Details of Volume-I: Section-III Bid Data Sheets (BDS)  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)	The Time for implementation shall be 18( Eighteen Months)  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.  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.	These clauses are contradictory for Guarantee period. We request you to kindly clarify and confirm the actual Implementation period and O&M period.	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. This BG shall remain in force up to and including 6 months after warranty period.	amendment
171	Page No. 69 of 478	clause no. 17.4.3, Materials Handling and Storage of Volume-I: Section-IV General Conditions of Contract (GCC)	All the equipment furnished under the Contract and arriving at Site (materials supplied by contractor as well as material free issued by Employer) shall be promptly received, unloaded, transported and stored in the storage spaces by the Contractor. Further, land shall be provided by JKPDD while the bidder shall be responsible for preparation of temporary shed/structure, as required.  Similarly in clause no. 41, Turnkey contractor's Store at Project site of Volume-I: Section-IV General Conditions of Contract (GCC) (Page No. 103 of 602) where it is mentioned that: Since materials received in this stores are owned by Employer (including owner's free issued material) and are pre-dispatch inspected by Employer's representative, materials in a lot shall not be issued to the sub-contractor for physical execution by turnkey contractor.	From the above clause we understand that maintenance of Site Stores are in Bidder's scope.  However, we suggest that material from manufacturer shall be first delivered at JKPDD Stores for Accounting & Approval purpose, Acceptance & Payment purpose and then same shall be re-issued to contractor for the installation & project implementation.  We request you to kindly confirm your acceptance.	No change, however employer has right to inspect the site store.	clarification

172	Page No. 69 of 478	clause no. 17.4.3, Materials Handling and Storage of Volume-I: Section-IV General Conditions of Contract (GCC)	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.	We understand that the entire activity of old Meter reading and documentation shall be done by JKPDD Officials and the Contractor has to only transport and deposit dismantled Meters in JKPDD Stores.  Please confirm.	Bidder has to co-ordinate for all required documentation under the monitoring and guidance of JKPDD officials.	amendment
173	Page No. 113 of 478	refer Sl. No. 12, Differential Price Factors for Liquidated Damages Volume-I: Section-V Special Conditions of Contract (SCC)	Differential Price Factors for Liquidated Damages Liquidity damage for delay in supplies as per schedule if not delivered by the bidder than a penalty of 0.5% of the contract value per week or part thereof subject to maximum of 5% of the contract value may be levied from the bill of the contractor	We understand the essence timely execution of the Project.  However, LD shall be only on undelivered portion instead of on whole contract value.  We request you to kindly amend the clause as „0.5% of the undelivered portion per week or part thereof subject to maximum of 5% of undelivered value may be levied from the bill of the contractor“.	No change	clarification
174	Page No. 144 of 478	clause No. 2.1 (j), First installment of Volume-I: Section-VI Sample Forms and Procedures	Material Dispatch Clearance Certificate (MDCC) / Dispatch Instructions (DI) for dispatch of materials from the manufacturer's works. MDCC/DI shall be issued by authorized officer of Employer.	We understand MDCC/DI will be issued in the name of JKPDD Stores. Request you to kindly clarify and confirm the same.	Required information of delivery location for MDCC/DI will be given after award of contract	clarification
175	Page No. 143 of 478	clause No. 2, Progressive payment of Volume-I: Section-VI Sample Forms and Procedures	First Installment (60%) on Material delivery at Site. Second Installment (10%) on Integration of Hardware & Software Third Installment (10%) on 3 billing cycles Fourth Installment (10%) on Handing over Final Installment (10%) after completion of 1 Year Warranty + 5 Years FMS	Sir, the Payment terms are not healthy i.e 10% will be held till handing over of Project i.e for 24 Months (As per completion period) and balance 10% will be held for more than 6 Years.  We request you to kindly amend the Payment terms as: 1) 90% of Material cost against delivery. 2) 100% of Installation cost on prorata basis every Month along with balance 10% of Material cost.	No change	clarification
176	Page No. 147 of 478	clause No. 3 (a), FMS Payment of Volume-I: Section-VI Sample Forms and Procedures	where it is mentioned that: FMS Payment will be done on Quarterly basis at the end of each quarter on satisfactory completion of Facility Management Services subject to Project manager certification of required services.	We request 100% of FMS cost on monthly basis instead of quarterly. Kindly amend the clause accordingly.	No change	clarification

177	Page No. 146 of 478	clause No. 2.4, Fourth Installment (10%) of Volume-I: Section-VI Sample Forms and Procedures	Ten percent (10%) payments against various items of price schedule shall be paid on Successful completion of all responsibilities and obligations and handing over of system to Utility and meeting following conditions:	We understand handing over of Project doesn't include FMS period (i.e 5 Years). Request you to kindly clarify and confirm.	Yes	clarification
178	Page No. 154 of 478	Appendix-3 (A), INSURANCE REQUIREMENTS of Volume-I: Section-VI Sample Forms and Procedures	Insurances to be taken out by the Contractor	We understand once the material is delivered in JKPDD Stores then the material is sole property of JKPDD, hence, their standard insurance policy shall be applicable.  Request you to kindly clarify.	No change, All risk insurance policy to be taken by bidder for this project.	clarification
179	Page No. 200 of 478	SCOPE OF WORKS of Volume-I: Section-VII Scope of Works	JKPDD is in the process of deployment of approx. 2,00,000 Smart Pre-Paid Meters in the city of Jammu & Srinagar, for its service area.	We request you to kindly provide the Project implementation location details like: Whether these Meters will be installed in one particular Division / Circle / Zone / DT wise etc.? or On Government connection only? For Replacement / New connection ? etc.	1 Lac in Jammu city and 1 Lac in Srinagar city, it may be mix of new installation and/or replacement of existing meter	clarification
180	Page No. 207 of 478	clause 41, Para 3rd, Maintenance of the Pre-Paid Meters and HES System during Rollout of Volume-I: Section-VII Scope of Works	JKPDD shall engage and facilitates GPRS/3G/4G Communication provider separately through tendering process and shall be paying for the SIM required for Smart Pre-Paid Meters.  Similarly, in Financial Bid (BOQ) of VOLUME-II: SECTION-III Price Schedules (Page No. 335 of 602) where it is mentioned that: 'Note: SIM cards for Meters on GPRS & Communication from DCU to HES Backhaul if required will be provided & maintained by Employer'	We request you to kindly clarify whether the SIM monthly recurring cost / expenses is also in JKPDD scope or not? Please confirm.	Yes, will be provided and cost will be borne by JKPDD	clarification
181	Page No. 211 of 478	clause 1.3 (a), Functional requirement of Volume-I: Section-VII Scope of Works	Bidder to provide the sizing of necessary hardware and software required to implement Prepayment Solution and HES	We request you to kindly clarify whether JKPDD shall provide required infrastructure like Office space, AC, Power Supply, Rack / Console etc for Data Centre (DC) / Data Recovery (DR)	Rack space and other required infra will be provided by JKPDD. Bidder are advised to visit the DC and DR for assessing the requiremnt as per their need.	clarification

182	Page No. 211 of 478	clause 1.3 (b), Functional requirement of Volume-I: Section-VII Scope of Works	List of preferable hardware / software is listed below for reference. <input type="checkbox"/> Meter Data Management (MDM) .. <input type="checkbox"/> Data archiving and SAN management software <input type="checkbox"/> Centralized network management software along with patch management & identity Management. <input type="checkbox"/> Antivirus software for all machines in control center. <input type="checkbox"/> Application and database Server suitable for HES, MDMS, along with operating system. <input type="checkbox"/> Application server with minimum 8GB RAM for development, quality and testing. <input type="checkbox"/> Web Server for accessing Head End System	These above line items are not mentioned in Financial Bid (BOQ) of VOLUME-II: SECTION-III. We request you to kindly specify all the required IT infrastructure i.e both Hardware & Software along with their configuration in Financial Bid (BOQ) to be supplied in this RfP.	Please refer to the revised BoQ and Financial Bid uploaded herewith.	amendment
183	Page No. 210 of 602	clause(B) 1.3 (b), Read Performance & Penalty clause C of Volume-I: Section-VII Scope of Works	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	Sir, considering field practical difficulties / Network issues getting 99.9% of readings from total installed base is highly difficult.  We request you to kindly amend clause as, „85% of readings from total installed base“. Further, wherever Meter reading is not possible through online we request you to kindly accept manual reading through CMRI for SLA compliance and Penalty shall be accordingly adjusted.	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.	amendment
184	Page No. 214 of 478	clause C (B) 1.3 (b), Read Performance & Penalty clause of Volume-I: Section-VII Scope of Works	where it is mentioned that: All %ages of SLA are to be calculated over calendar month.	Please consider and calculate SLA on quarterly basis.	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.	amendment
185	Page No. 216 of 478	clause (B) Read Performance of(C ) Service Level Agreement(SLA) Volume-I: Section-VII Scope of Works	There will be penalty of Rs 100 /AMI NIC Card/ Day for noncommunicating for more than 15 days .	Additional Rs. 100/Meter Day penalty is stringent, we request you to kindly relax the clause and delete the same.	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.	amendment
186	Page No. 231 of 478	clause no. 31 Installation And Implementation	Bidder shall be responsible for providing of Service cable of length 20 mtr (Average). Each and shall be covered for approximately 30% of the consumers along with accessories and connectors (eg. Piercing connectors, Main Service Distribution box etc.) for ABC and ACSR conductors as applicable,	Sir, accessories mentioned in your Financial Bid (BOQ) only shall be in Bid Scope of supply. Any additional items other than the line items mentioned in BOQ like Service Distribution, ABC, ACSR etc. are not in Bid scope of supply.  Request you to kindly clarify.	All accessories required for connection from ABC cable/ Bare conductor upto consumer are included in the BoQ and is in the scope of bidder.  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.	clarification



187	Page No. 257 of 478	clause no. 2.1.1 Vendor approval of Volume-II: Section-I PMS, QAM & Documentation	All the materials procured for IPDS/PMDP works shall be purchased from the authorized vendors approved by their Quality Assurance Department of PIA.	We request you to kindly provide your approved vendors of all accessories mentioned in your Financial Bid (BOQ) like Service cable, Piercing clamps, CMRI, IT Hardware etc...	There is no approved list as of now. Material documents/GTP for vendor approval to be shared with Employer for their approval during detailed engineering.	clarification
188	Page No. 299 of 478	Attachment-12 of Volume-II: Section-II Bid Forms (Bid Envelop)	(Price Adjustment Data as per Appendix-2 of section-VI : Sample forms and procedures) Whereas Appendix-2 of Volume-I : Section-VI Sample Forms and Procedures (Page No. 145 of 602) where it is mentioned that: PRICE ADJUSTMENT (strikethrough).	We understand Attachment-12 is not applicable as per Appendix-2. Request you to kindly delete the same and confirm.	Not applicable	clarification
189	Page No. 231 of 478	clause no. 31 INSTALLATION & IMPLEMENTATION (iv) of Volume-I: Section-VII Scope of Works	where it is mentioned that: Bidder shall be responsible for providing of Service cable of length 20 mtr. each and But whereas in Financial Bid (AMI BOQ) of VOLUME-II: SECTION-III Price Schedules (Page No. 317 of 478) length of cable required is: ReFer TO Table in Point 27 in document-	Sir, here the cable requirement is different in these clauses. We request you to kindly clarify the approximate length of Service cable required to be installed per consumer as this will help us in assessing & deployment of logistics pre consumer site.	Estm. Length of cable per consumer is 20 mtrs which is subject to variation based on site condition.	clarification
190	Page No. 317 of 478	Please refer Financial Bid (AMI BOQ) of VOLUME-II: SECTION-III Price Schedules	where it is mentioned that: 19. Clamps Suitable for Termination of Cable from Bare O/H Conductor to Meter Box 20. Clamps Suitable for Termination of Cable from Bare O/H Conductor to Meter Box	We request you to kindly provide the Approved Drawings of „Clamps Suitable for Termination of Cable from Bare O/H Conductor to Meter Box“ and also provide the Approved Vendors list of the same.	PG clamps/mini wedge connectors may be used for this purpose.	clarification
191	Page No. 317 of 478	Please refer SMART PREPAID METER BOQ of Financial Bid of VOLUME-II: SECTION-III Price Schedules	it is mentioned that: C Service Cable Supply & Service 8. 2C x 25 sq.mm. Aluminium LT XLPE Armoured Cable from LT ABC/Conductor to Single phase Meter Box (2:1) (Supply & Installation O/H) including all Terminations 9. 2C x 50 sq.mm. Aluminium LT XLPE Armoured Cable from LT ABC/Conductor to Single phase Meter Box (4:1) (Supply & Installation O/H) including all Terminations 10. 4C x 16 sq.mm. Aluminium LT XLPE Armoured Cable from Three phase Meter Box (1:1) to Consumer Premises (Supply & Installation) including all Terminations	Following Service Cable Specifications are not provided: ☐ 2C x 25 Sq.mm Aluminium LT XLPE Armoured Cable from LT ABC/Conductor to Single Phase Meter Box is not provided (2:1) ☐ 2C x 50 Sq.mm Aluminium LT XLPE Armoured Cable from LT ABC/Conductor (4:1). ☐ 2C x 16 Sq.mm Aluminium LT XLPE Armoured Cable from LT ABC/Conductor (1:1, 2:1 & 4:1). ☐ 4C x 16 sq.mm. Aluminium LT XLPE Armoured Cable from Three phase Meter Box (1:1) We request you to kindly provide the specifications and Approved Vendor list for the same.	All the specs are given in RFP however bidder may refer relevant IS for the same.	clarification
192	Page No. 317 of 478	Financial Bid (BOQ) of VOLUME-II: SECTION-III Price Schedules	19. Clamps Suitable for Termination of Cable from Bare O/H Conductor to Meter Box 20. Clamps Suitable for Termination of Cable from Bare O/H Conductor to Meter Box Similarly, same is also mentioned as 2 more separate line items in NORMAL PREPAID METER BOQ of Financial Bid of VOLUME-II: SECTION-III Price Schedules (Page No. 345 of 602).	Kindly provide the approved drawings of „Clamps Suitable for Termination of Cable from Bare O/H Conductor to Meter Box“ and also provide the approved vendors list of the same.	PG clamps/mini wedge connectors may be used for this purpose as per relevant IS..	clarification

193	(Page No. 333 of 602)	SMART PREPAID METER BOQ of Financial Bid of VOLUME-II: SECTION-III Price Schedules	Service Cable Supply & Service Refer Table in HPL/RECPDCL/2940/2018 Dated- 01-10-2018.	Following Service Cable Specifications are not provided: ☒ 2C x 25 Sq.mm Aluminium LT XLPE Armoured Cable from LT ABC/Conductor to Single Phase Meter Box is not provided (2:1). ☒ 2C x 50 Sq.mm Aluminium LT XLPE Armoured Cable from LT ABC/Conductor (4:1). ☒ 2C x 16 Sq.mm Aluminium LT XLPE Armoured Cable from LT ABC/Conductor (1:1, 2:1 & 4:1). ☒ We request you to kindly provide specifications and approved vendor list for the same.	All the specs are given in RFP however bidder may refer relevant IS for the same.	clarification
194	410/411 of 478	clause no. 1.4.7 (b)	Current Circuit: Max 4VA.	Our submission: Kindly accept the current circuit power consumption as per IS 16444.	Accepted as per IS	amendment
195	412 of 478	clause no. 1.4.30	Meters shall be software calibrated at factory and modifications in calibration shall not be possible at site by any means. However, parameters like RTC, TOD tariff, DIP (billing & load survey), billing date, display parameters etc. shall be reconfigure through CMRI and remotely over the air (OTA).	OBIS code for display programming is not defined in IS 15959 Standards. We shall provide the programming as per IS 15959 (Part2). Request you to kindly confirm your acceptance.	No change OBIS code shall be provided during detailed engineering after award of contract.	clarification
196	412 of 478	clause no. 1.4.31	Size /form factor of NIC card should be approved by JKPDD and bidder should make necessary arrangement for integration of the same.	We understand there are no Tender Sample Meters to be submitted. In case if Tender Sample Meters are required to be submitted along with the Bid in that case we request you kindly accept tender sample as per manufacture specific RF communication card. Please confirm.	NIC card should be compatible with different meter manufacturer, The same shall be verified during PoC and Technical Evaluation stage.	amendment
197	413 of 478	clause no. 1.4.35	Each operation of the switches shall be logged by the meter as an event with date and timestamp and reading parameters. This operation should be in line with clause 11 of IS 16444(with latest amendment), however over current tripping should be disabled by default.	OBIS code is not defined for over current relay tripping enable/disable in IS 15959. We request you kindly provide the OBIS code or accept in line with IS 16444 clause 11.	No change OBIS code shall be provided during detailed engineering after award of contract.	clarification
198	414 of 478	clause no. 1.4.37 (a)	Magnetic Field	Meter shall be either immune or run at I <sub>max</sub> . as per magnetic field specified in CBIP 325/IS 16444.	No change	clarification
199	415 of 478	clause no. 1.4.37 (b)	Electrostatic Discharge (ESD).	Meter shall be either immune or shall log the events. We understood this meets your requirements. Kindly amend the same.	No change	clarification
200	415 of 478	clause no. 1.4.38 (c)	The meter shall record energy proportional to the current and V <sub>ref</sub> . (240V) when any of the tamper circuits enclosed as per annexure-1 are used to tamper energy using a diode or a variable resistance or a variable capacitance energy saving device.	We shall provide value of Resistance & Capacitor value.	No change	clarification
201	416 of 478	clause no. 1.4.38 (f)	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.	Kindly accept LCD icons for earth LED indication instead of LED.	Accepted	amendment

202	416 of 478	clause no. 1.4.38 (h)	<p>i. Diode: Immune up to 6A,1000V and if &gt; 6A, 1000V Logging in events with snapshot of voltage, Phase current, Neutral current, Energy KWh, KVAh, instant PF and shall show tamper in Meter Display.</p> <p>ii. Resistance: Immune up to 1K, If&gt; 1K Logging in events with snap shot of voltage, Phase current, Neutral current, Energy KWh, KVAh, instant PF and shall show tamper in Meter Display.</p> <p>iii. Capacitor: immune up to 4.7Mf and if &gt; 4.7Mf 1K Logging in events with snap shot of voltage, Phase current, Neutral current, Energy KWh, KVAh, instant PF and shall show tamper in Meter Display.</p>	In this case most of utilities accept whole current Single Phase Normal meter with +/- 3% accuracy. Hence instead of component values, we request to amend the spec accordingly.	No change	clarification
203	416/417 of 478	clause no. 1.4.39 (c)	Tamper event logging along with values of intensity & snapshot of occurrences & restorations Table 4 - Tamper Event Details for Single Phase Smart Meters.	Kindly note that no such device shall be used for intensity measurement. Hence we request you to kindly accept the Tamper logging in-line with IS 15959.	Tamper logging details shall be in-line with IS 15959.	amendment
204	416 of 478	clause no. 1.4.39 (d)	All tamper logging thresholds values shall be configurable from remotes.	As per IS 15959 OBIS code are not defined for tamper threshold configuration. We request you kindly delete the same.	Deleted	amendment
205	417 of 478	refer Table-4	Persistence time for occurrence - ESD/JAMMER = 0 Hr 02 Min 0 sec (ESD).	Meter shall be either immune or shall log the events. We understood this meets your requirements. Kindly accept the same.	No change	clarification
206	417 of 478	refer Table-4	Persistence time for occurrence - Magnet = 0 Hr 10 Min 0sec (MAG).	We request you kindly accept Magnet Tamper Occurances time as 1 min instead of 10 min.	No change	clarification
207	417 of 478	refer Table-4	Threshold value for occurrence of events - $I_p + I_n \geq 20\%$ of $I_b$ ( vector sum) AND $I_p > 20\%$ of $I_b$ .	Kindly correct the Tamper Threshold. We understand it should be $I_n - I_p > 20\%$ of $I_b$ .	No change	clarification
208	417 of 478	refer Table-4	Threshold value for restoration of events - Frequency > 47 Hz OR Frequency < 52 Hz.	Kindly change OR to AND Since for restoration ND tamper frequency should be >47 Hz. & Less than 52Hz.	Threshold value for restoration of events - Frequency > 47 Hz AND Frequency < 52 Hz.	amendment
209	417 of 478	refer Table-4	Persistence time for restoration - Power On Off = 0 Hr 10 Min 0 sec.	Kindly note that restoration time for Power On Off should be immediate instead of 10 Minutes. Kindly amend it accordingly.	No change	clarification
210	417 of 478	refer clause no. 1.8.1	Meter shall be capable of recording daily Energy and Demand 00:00 to 24:00 Hrs. KWh, KW in BCS for 45 days	Kindly delete the requirement of demand from daily load profile data as this parameter is not applicable for daily load profile.	No change	clarification
211	422 of 478	clause no. 1.8.4 (g)	Last ten modes with date & time of switching with energy parameters (kwh, TOD1 kwh, TOD2 kwh, TOD3 kwh .....).	Kindly note that relay connection / disconnection snapshots shall be available in line with IS 15959 Part 2.	No change	clarification
212	422/423 of 478	refer clause no. 1.8.5	All the changes in software of meter to be logged along with date & time stamp and readings. Meter should do billing if any transaction is done.	Kindly note as per IS 15959 Billing is required only for TOD changing. For other transaction billing is not required, We request you kindly accept in line of IS 15959.	No change	clarification
213	423 of 478	clause no. 1.8.7	The display should be readable in direct sunlight. Phase Indication should be Green LED only.	Kindly accept LCD icons for Phase indication instead of LED.	No change	clarification
214	424 of 478	clause no. 1.8.9	All these parameters shall be downloaded locally or remotely and interpreted in PC/Laptop. All the parameters shall be recorded and memorized in its Non Volatile Memory (NVM).	Kindly note that downloadable parameters shall be in line with IS 15959.	No change	clarification

215	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. Hence we request you kindly accept the pulse rate as per manufacture specific.	ACCEPTED	amendment
216	426 of 478	refer clause no. 1.8.12 (u)	Communication Technology is IHD supported (with carrier frequency).	We request you to kindly clarify and confirm whether is IHD is required or not?	IHD not required now	clarification
218	420 of 478	clause no.1.5.1 C	'Meter Body', of SINGLE PHASE WHOLE CURRENT SMART METER Specifications it has been mentioned that Meter base shall be opaque with polycarbonate LEXAN 500R or equivalent on prior approval from the JKPDD.	Please also accept equivalent material like, LEXAN 143/143R for Meter base, as the same material grade is also accepted for Meter Cover.  Request you to please also consider the same.	Refer to the uploaded Meter specifications	clarification
219	420 of 478	clause no.1.5.2 C	To get the desired temp rise & avoid hot spots the design of each terminal screw, preferred terminal screw shall be with hex head screw / allen head screw & shall be operated with allen key or special key. The preferred Size of the allen screw shall be 6mm dia. Whereas in clause no.1.5.2 (g) of SINGLE PHASE WHOLE CURRENT SMART METER Specifications it has been mentioned that: terminals shall be preferably with Allen screw with at least 8 mm dia for better contact area. .	Both the requirements are contradictory. We request you kindly amend it as "The preferred Size of the allen screw shall be M6". Kindly confirm	Bidder to recommend suitable size of Hex head screw. Same will be approved later afetr due consideration.	clarification
221	443 of 478	clause no. 2.9.1 C	Meter Body, of THREE PHASE WHOLE CURRENT SMART METERS Specification it has been mentioned that: Meter base shall be opaque with polycarbonate LEXAN 500R or equivalent on prior approval from the JKPDD.	Please also accept equivalent material like, LEXAN 143/143R for Meter base, as the same material grade is also accepted for Meter Cover. Request you to please also consider the same.	Refer to the uploaded Meter specifications	clarification
222	444 of 478	clause no. 2.9.2 (d)	"Terminals, Terminal Block" of Meter Technical specification it has been mentioned that: to get the desired temp rise & avoid hot spots the design of each terminal screw, preferred terminal screw shall be with hex head screw / allen head screw & shall be operated with allen key or special key. The preferred Size of the allen screw shall be 6mm dia. Whereas in clause no. 2.9.2 (f) of Meter Technical Specification (Page No. 444 of 478) it has been mentioned that: Terminals shall be preferable with Allen screw with at least 8 mm dia for better contact area. Terminal & screw should not be damaged during regular opening and tightening. .	Both the requirements are contradictory. We request you kindly amend it as "The preferred Size of the allen screw shall be M6". Kindly confirm	Bidder to recommend suitable size of Hex head screw. Same will be approved later afetr due consideration.	clarification

224	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.	We could not understand the purpose of this letter, request you to kindly clarify what is to be picked up from this letter content.	Deleted	amendment
226	321 of 478	Volume-III: Section-I	SPECIFICATION FOR SINGLE PHASE SMART METER BOX	Seems there is a typographical error in mentioning „Single Phase“ in Page No. 332 also instead of „Three Phase“. We request you to kindly correct the same.	Accepted	amendment
227		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.	The Box Technical Specification provided in Tender document are for only 1:1 (1 Meter in 1 Box) that too of Polycarbonate material. But whereas the drawing provided is of DEEP DRAWN type Box. We request you to kindly provide Box drawings of Polycarbonate Material.  Further, there are no Box Technical Specification provided for 2:1 (2 Meters in 1 Box) & 4:1 (4 Meters in 1 Box). As per your Financial Bid (BOQ) if same is required we request you to kindly provide the detailed specifications and drawings of 2:1 & 4:1 Box of Polycarbonate Material.	Indicative drawing of single phase PC meter box is given along with Specs of meter box, the same drawing can be referred for finalization of meter box of configuration 2:1 and 4:1 boxes and to be submitted for approved at the stage of detailed engineering.	amendment
228	323 OF 478	Volume-III: Section-I, Clause No.4.0 GENERAL TECHNICAL REQUIREMENTS, S.No.2,	Meter box degree of ingress protection: IP-55.	We request you to kindly accept IP 54 degree of protection in the Meter Box. Kindly confirm.	no change	clarification
229		Volume-III: Section-I	Single Phase Smart Prepaid Meter Box Specifications, Clause No.5.0 GENERAL CONSTRUCTIONS (5.3) (Page No. 323 of 478) it is mentioned that: The box shall be provided with meter mounting arrangement along with MS plate on top for mounting the meter from different manufacturers, having different mounting dimensions. The top plate shall be fixed on the base taking care of the alignment with the fixing holes provided in the base. The detail drawing of the mounting arrangement of all the meters shall be provided to successful bidders.  And please refer Volume-III: Section-I Clause No. 5.0 GENERAL CONSTRUCTIONS (5.6) of the Single Phase Smart Prepaid Meter Box technical Specification (Page No. 517 of 602) it is mentioned that: it is mentioned that the number of pillars to be provided in box based on different type of meters. If there is any change in existing meter design or new meter introduced, bidder shall provide meter mounting pillar accordingly in Meter Box with modification in their mould without any extra cost.	As the Bidder has to supply Meters with pre-fixed inside the Box. So there shall be no need of providing the MS plate on top and bottom meter mounting pillar for mounting the meter from different manufacturers.  Therefore, kindly delete the same requirement. Please confirm.	Bidder to provide mounting arrangement in such away that box can accommodate different meter makes in future.	clarification

230		Volume-III: Section-I Clause No.5.0	GENERAL CONSTRUCTIONS (5.4) of the Single Phase Smart Prepaid Meter Box technical Specification (Page No. 323 of 478) ) it is mentioned that: the meter shall be mounted with the help of MS plate such that it is centrally placed in the box and there is clearance of 50 mm between the meter box and top of the cover. A minimum clearance of 50 mm shall be maintained on both sides, between meter and box	Please also accept the Meter Box with minimum 30 mm clearance from top & both sides between Meter and Box. Kindly confirm.	No change	clarification
231		Volume-III: Section-I	Clause No.5.0 GENERAL CONSTRUCTIONS (5.13) of the Single Phase Smart Prepaid Meter Box technical Specification (Page No. 518 of 602), it is mentioned that: the box size should be such that it should accommodate the smart meter with size of approx. 263x149x98mm.	We request you to kindly delete this requirement as the size of Polycarbonate Box shall be as per the manufactures own specific design and varies according to the different Meter. Please confirm.	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 accommodated in the same meter box in future.	clarification
232		Volume-III: Section-I, Clause No.5.0	GENERAL CONSTRUCTIONS (5.14) of the Single Phase Smart Prepaid Meter Box technical Specification ((Page No. 323 of 478) , it is mentioned that: the earthing bolt and the gland plate shall be connected with metallic GI plate of 1.2mm thick for continuity of earthing. This plate shall be placed inside of the box.	This requirement is not very clear to us, we request you to kindly provide drawings / photographs for clarity.	Bidder is supposed to provide a metallic link between gland plate and earthing bolt for earthing purpose. Any further, information can be finalized during detailed engineering.	clarification
233		Volume-III: Section-I, Clause No.5.0	GENERAL CONSTRUCTIONS (5.15) of the Single Phase Smart Prepaid Meter Box technical Specification ((Page No. 323 of 478) , it is mentioned that the glands should be extended type with inclined length outside.	This requirement is not very clear to us, please provide drawing / photographs etc. for better understanding.	The glands are inclined to avoid any insertion of outside object directly to the terminal box/meter for damaging. Any firther information will be shared during detailed engineering.	clarification
234		Volume-III: Section-I, Clause No. 6.0	NAME PLATE AND MARKING of the Single Phase Smart Prepaid Meter Box technical Specification (Page No. 323 of 478) it is mentioned that: the name plate shall be indelibly and distinctly marked with all essential particulars as per the relevant standards along with the following information	We shall provide all the details as engraved / embossed on the top cover of the box and the meter serial number shall be printed / marked on the top cover of the Meter box. Kindly confirm the acceptability of the same.	No change. It will be decided during detailed engineering.	clarification
235		Volume-III: Section-I, Page No. 518, Clause No. 5.10	of the Single Phase Smart Prepaid Meter Box technical Specification it is mentioned that: the box shall be provided with four mounting (fixing) holes of 8 mm size.	We request you that please accept Dia 6mm holes for Box Mounting instead of 8mm. Kindly confirm your acceptance.	All meters are proposed to be installed inside box on pole top. Accordingly, vendor need to include accessories for installation.	clarification
236		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.	We request you that please accept glow wire at 650 °C for the Meter Box.  Since, as per IS: 14772, clause no.15, the mentioned value as 650°C for Glow wire test.  Kindly confirm.	Accepted	amendment

238	526	Volume-III: Section-I, Clause No.4, S.No.2	of the Three Phase Smart Prepaid Meter Box technical Specification (Page No.334 OF 478) it is mentioned that: Meter box degree of ingress protection: IP-55.  Similarly, in Clause No.5.2 (Page No. 528 of 602) it is mentioned the meter box shall have a taper roof for easy flow of rain water and shall have degree of IP55 for protection against dust and water.	We request you that please accept IP 54 degree of protection in the Meter Box. Please confirm.	No change	clarification
239		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.	We request you to kindly accept glow wire test at 650 °C for the Meter Box as per IS: 14772, clause no.15 and same is acceptable in all other DISCOMS.  Please confirm.	accepted	amendment
240		Volume-III: Section-I, Clause No.4, S.No.10 (i),	Box mounting screw of the Three Phase Smart Prepaid Meter Box technical Specification ((Page No.334 OF 478)) it is mentioned that 4 Number Gitti and screws provided with M6 Screw with min. length 40mm	Please also accept the self-tapping screw of approx. Dia 4mm with length 40 mm to be used with the Gitti, instead of M6 screw. Kindly confirm.	All meters are proposed to be installed inside box on pole top. Accordingly, vendor need to include accessories for installation.	clarification
241		Volume-III: Section-I, Clause No.4, S.No.10 (j)	“Cover overlapping on base” of the Three Phase Smart Prepaid Meter Box technical Specification (Page No. 528 of 602) it is mentioned that: (a) Inside- 25 mm overlapping at hinges sides, top and bottom side and 20 mm overlapping at pad lock side. (b) Outside overlapping 20mm throughout border.	This requirement is not clear to us. Please elaborate the requirement in detail if possible provide drawings / photographs of the same.	Kindly refer indicative drawings mentioned in TS of 3-ph meter Box.	clarification
242		Volume-III: Section-I, Clause No.4, S.No.10 (k),	“B. location of hole from bottom side” of the Three Phase Smart Prepaid Meter Box technical Specification (Page No. 528 of 602) it is mentioned that: B. around 40mm.	This requirement is not very clear to us. Please elaborate the requirement in detail if possible provide drawings / photographs of the same.	Kindly refer indicative drawings mentioned in TS of 3-ph meter Box.	clarification
243		Volume-III: Section-I, Clause No.4, S.No.10 (s),	“Location of earthing bolt” of the Three Phase Smart Prepaid Meter Box technical Specification (Page No.334 OF 478) it is mentioned that: on left Sides (when viewed from front) & bolt is fixed & engaged within gland through GI sheet 1.2mm from inside. Whereas, in same clause 11, it is mentioned the earth connectivity plate between incoming gland and earth bolt provided with 1.2mm thick GI.	These requirements are not very clear to us. Please elaborate the requirement in detail, if possible provide drawings / photographs of the same.	Bidder is supposed to provide a metallic link between gland plate and earthing bolt for earthing purpose. Any further, information can be finalized during detailed engineering.	clarification

244		Volume-III: Section-I, Clause No.5.0	<p>GENERAL CONSTRUCTIONS (5.3), of the Three Phase Smart Prepaid Meter Box technical Specification (Page No.334 OF 478)) it is mentioned that the box shall be provided with meter mounting arrangement along with MS plate on top for mounting the meter from different manufacturers, having different mounting dimensions. The top MS plate shall be fixed on the base taking care of the alignment with the fixing holes provided in the base of the box.....</p> <p>And similarly in Volume-III: Section-I, Clause No.5.0 GENERAL CONSTRUCTIONS (5.6), of the Three Phase Smart Prepaid Meter Box technical Specification (Page No. 529 of 602) it is mentioned that: the number of pillars to be provided in box as per EMPLOYER different type of meters. If there is any change in existing meter design or new meter introduced, bidder shall provide meter mounting pillar accordingly in meter box with modification in their mould without any extra cost.</p>	As the bidder has to supply Meter already fixed / installed inside their Meter box. So there shall not be any requirement of providing the MS plate on top and bottom meter mounting pillar for mounting the meter from different manufacturers. Therefore, kindly delete the same requirement. Please confirm.	All meters are proposed to be installed inside box on pole top. Accordingly, vendor need to include accessories for installation.	clarification
245		Volume-III: Section-I, Clause No.5.3	of the Three Phase Smart Prepaid Meter Box technical Specification (Page No.334 OF 478) it is mentioned that: the box shall have suitable modem mounting arrangement on the right hand side in the base of meter box for mounting the modem from different manufacturers with the help of base plate. The location of the same shall be 100mm. below the top of the box base (as measured from inside) and 35 mm. away from right side of the box.	Kindly confirm, whether Modem mounting arrangement in is required inside the Box or not? Since, Smart Prepaid Meter shall be installed in these Boxes (Smart Meters shall have plug-in type module for the remote communication)	Push-fit type modems are preferred in Smart meters. In case any external modem is required., provision to install the same inside meter box should be provided necessary drawings should be submitted along with tender document for approval.	clarification
246		Volume-III: Section-I, Clause No.5.4	of the Three Phase Smart Prepaid Meter Box technical Specification (Page No.334 OF 478) it is mentioned that: the meter shall be mounted with the help of MS plate such that there is clearance of 50 mm. between the meter box and top of the cover. A minimum clearance of 50 mm. shall be maintained on both sides, between meter and box. Whereas in the same clause it is mentioned that the overall dimensions of meter box shall be Length- 460 mm, Width- 340 mm ,Depth- 170 mm with 2% tolerance.	Please also accept the Meter box with minimum 30 mm. clearance from top & both sides between meter and box. Kindly confirm your acceptance. And we shall comply the minimum 30 mm clearance between Meter and Meter Box. In this case the overall size of the meter box as required by you may be different and as specified above may be more or less. We request you please accept the same.	Bidder shall submit drawings considering the size of all type of meters which may be installed in future along with required clearance of 50 mm as mentioned in specification.	clarification
247		Volume-III: Section-I, Clause No.6.0	"Name Plate" of the Meter Box technical Specification ((Page No.334 OF 478) it is mentioned that: the name plate shall be indelibly and distinctly marked with all essential ..	We shall provide all the details as engraved / embossed on the top cover of the box and the meter serial number shall be printed / marked on the top cover of the Meter box. Kindly confirm the acceptability of the same.	No change.	clarification
248	542	Volume-III: Section-II	Tender Drawings of the Metal Meter Boxes (Deep Drawn type) is attached (Page No. 349 to 351). But the attached specifications are of Polycarbonate material Box (Page No. 321to 343).	Please provide Drawings of Polycarbonate material Box. 526 to 537 Also, the Drawing for 4 in1 MMB for Single Phase Meter is also required. (The drawing attached in Tender document is of Metallic material).	Indicative drawing of single phase PC meter box is given along with Specs of meter box, the same drawing can be referred for finalization of meter box of configuration 2:1 and 4:1 boxes and to be submitted for approved at the stage of detailed engineering.	clarification