

Clarifications 1

Sr. No	Clause No	Statement as per RFP	Vendor Comment	RECPDCL Comment
1	1.1 (g) Page No 35 Qualification of the Bidder	MSEs/Start-Ups meeting the specified requirement as per Clause 1.1.1 & 1.1.2(F2), shall be considered qualified as per Clause 1.1.2, if they meet 80% of the requirement specified in Clause 1.1.2(F1 & F3) mentioned subsequently. The relevant MSEs/ Start-Ups certificate issued by governing body shall be submitted along with the bid.	The Turnover clause F1 specifies 88 Cr and 80% of which is 70.4 Cr which is very high for a MSE/Startup. Request you to reduce the same to 60% which would enable participation from MSE/Startup.	No change is envisaged. Provision of bid document shall prevail.
2	F.1 Page No 37 Qualification Requirement (Financial)	Minimum Average annual turnover for the last three financial years ending 31st March 2018 shall not be less than ₹ 88 Cr. [In case of consortium, all partners can jointly satisfy this condition subject to conditions mentioned in clause 1.1(i)]	Request to consider MAAT for last three financial years ending 31st March 2018 shall not be less than ₹ 55 Cr.	No change is envisaged. Provision of bid document shall prevail.
3	T.6 Page 39 1.1.4. Qualification Requirement (Technical) for System Integrator (SI)	Integration capability between HES/MDAS with utility systems: The SI shall have experience of integration of MDAS or Head-End System with MDM/ Billing/ CRM on standard interfaces and data exchange models (CIM/XML/ Multi speak) for minimum 20,000 consumer end points (cumulatively) in an Indian/Global Utility (Power/ Water/Gas/ Telecom) having minimum 2 Lakh consumer base in in the last 7 years ending last day of the month previous to the month in which bids are invited.	Request to consider the projects under execution where the integration is completed, and other works are under progress. Further request you to consider the orders/work done up to the date of submission of the date of submission of the tender. (Tenders get postponed etc., so restricting up to one-month prior bid submission is restrictive) and also the orders during last 10 years as most of the RAPDRP projects were awarded in 2009- 10. Please clarify if HES is hardware and software that enables acquisition of meter data.	Refer to Amendment 1
4	T.14 Volume-I : Annexure-A of Section-III QUALIFICATION OF THE BIDDER 1.1.7. Qualification Requirement (Technical) for Meter Data management Software	T.14 Data handling Capability: The proposed MDM solution should have been implemented for handling meter data from more than 2,00,000 nos. of Meters data and report generation in a single project for Indian/Global power distribution utility within 7 years ending last day of month previous to the one in which bids are invited.	Please Clarify: 1. The 2,00,000 is Cumulative or in a single order 2. Will the projects who have more than 2,00,000 meters in the scope but under execution are also considered?	1. The project should comprise of 2,00,000 consumers in a single project. 2. The project should be successfully implemented and Go-Live.
5	F1. Volume-I: Annexure-A of Section-III 1.1.2. Qualification Requirement (Financial) F.2	Net Worth for the last three financial years should be positive. Net worth means sum total of the paid-up capital and free reserves (excluding reserves created out of revaluation) reduced by aggregate value of accumulated losses (including debit balance in profit and loss account for current year) and intangible assets. [In case of consortium/ sub-Contractor, all are bound to satisfy the above clause individually]	Generally, technology providers invest huge money on their R&D and product development & enhancements. We request to remove this requirement for sub-contractors.	No change is envisaged. Provision of bid document shall prevail.

6	T.11 Volume-I : Annexure-A of Section-III 1.1.6. Qualification Requirement (Technical) for RF Communication Network Provider	The bidder shall have designed and implemented RF mesh communication network infrastructure in any Power / Gas/Water utility in India/ Globally in last 7 years ending last day of month previous to the one in which bids are invited with at least: i. one project of minimum 1,60,000 meters or ii. two projects of minimum 1,00,000 meters each or iii. three projects of minimum 80,000 meters each	As this tender is of AMI for smart Electricity Meters and not Gas or water meter, which are battery operated meters and very different technology from Electricity meters (always ON), hence, only AMI Electricity Meters to be considered. The scope also should include RF Module / NIC and RF Network Components along with respective Software i.e. HES, NMS from the same vendor.	Refer to Amendment 1
7	3.2.3/3 SECTION – VII SCOPE OF WORKS	The integration middleware should be based on Service Oriented Architecture (SOA) and other forms of Application Program Interfaces (API) and use publish / subscribe mechanism. The integration middleware to be an open architecture based	We understand that MDM can be integrated with external applications directly using Web Services/ Web APIs/FTP. Please confirm.	Bidder is responsible for seamless integration between all the utility systems and it shall be based on SOA.
8	Clause 1./ 1 VOLUME-I: SECTION – VII SCOPE OF WORKS	Supply, installation, testing, commissioning of Meter Data Management(MDM) Software along with necessary servers, storage, network elements or any other IT HW and SW (APIs, adaptors, connectors, mobile app for consumers etc.) for MDM system with full AMI functionality as defined in CEA AMI guideline for 10 lakh meters (2,00,000 smart meters and approximate 8 lakh conventional static meters installed including AMR meters installed under R-APDRP) with scalability up-to 20,00,000 consumers in future.	We understand that overall MDM license is required for 10Lacs meters. For the IT system Sizing, please confirm the data frequency and the data parameters (for Billing, IP, LS etc.) to be read by the MDM from the 8 Lacs conventional meters via MDAS for each meter type(1Ph,3Ph WC, 3Ph LTCT etc.).	Refer to Amendment 1
9	2. BOM IT Systems A.2/40 VOLUME-I: SECTION – VII SCOPE OF WORKS BOM IT Systems-Application Software	Supply, Installation, Integration & Customization of MDMS Software for 10 Lakh consumers with future scalability upto 20 Lakh consumers	We understand that MDM license is required for 10Lacs consumers. However, the MDM can be scaled to 20Lacs consumer base in future with additional license purchase. Please confirm.	
10	2. BOM IT Systems D.2/41 VOLUME-I: SECTION – VII SCOPE OF WORKS 2.BOM IT Systems-Hardware application	Application & DB Server suitable for MDM Software Application High Availability Active- Active Mode for DC & DR both (sizing suitable for 10 Lakh consumers with future scalability upto 20 lakh consumer).(including OS, DB & Application licenses)	Since the requirement is for On-Premise data centre, the servers need to be sized as per the future requirement, hence we understand that the IT system sizing is required for 20Lacs consumers.. Please provide us the segregation of smart meters and conventional static meters in the overall 20Lacs consumer base (this will directly impact the sizing).	

11	T.2 Technical qualification	AMI and manufacturing capability: a) The bidder must have manufactured & Supplied Smart Meters* in last 7 years in India, ending last day of month previous to the one in which bids are invited, as below: i. One project with minimum 10,000 smart meters or ii. Two projects with minimum 6,250 smart meters each or iii. Three projects with minimum 5,000 smart meters each.	AMI and manufacturing capability: a) The bidder must have manufactured & Supplied Smart Meters* in last 7 years in India, ending last day of month previous to the one in which bids are invited, as below: i. One project with minimum 10,000 smart meters or ii. Two projects with minimum 6,250 smart meters each or iii. Three projects with minimum 5,000 smart meters each. iv. Should have executed cumulatively 15000 smart meters in multiple projects	Refer to Amendment 1
12	Clause 6.0, sub-clause 6.3 Vol-I Section –II of ITB	6.3 LOCAL CONDITIONS: It will be imperative on each Bidder to fully inform himself of all local conditions and factors, which may have any effect on the execution of the Contract covered under these documents and specifications. Employer shall not entertain any request for clarifications from the Bidders, regarding such local conditions. It must be understood and agreed that such factors have properly been investigated and considered while submitting the Proposals. No claim for financial adjustment to the Contract, awarded under these specifications and documents, will be entertained by Employer. Neither any change in the time schedule of the Contract nor any financial adjustments arising thereof shall be permitted by the Employer, which are based on the lack of such clear information or its effect on the cost of the Works to the Bidder.	In order to fully informed ourselves of all local conditions and factor which may have any effect on execution of the contract, it is requested to provide us list of towns with consumer details in city of Jammu and Srinagar respectively to comply with the local conditions. Please also note we have to assess the quantities of DCU/Router which cannot be done in absence of our information.	Refer to Amendment 1
13		kindly clarify if meter manufacturer who is directly participating under Catery-1.1(b) (i) of Vol-I Annex-A, Section –III (Qualification of the bidder)can be our sub-contractor for supply of meter.	Bidders understanding in this regard is correct.
14	Clause 1.1.2 (F.1) of Vol-I Annex-A, Section –III (Qualification of the bidder)	Minimum Average annual turnover for the last three financial years ending 31st March 2018 shall not be less than ₹ 88 Cr.	It is understood that in case of EPC, all financial criteria if met by EPC will be governing factor for qualification.	If the bid is submitted in consortium then all the consortium partners shall meet the financial criteria as per Amendment 1.

15	Clause 1.1.2 (F.3) of Vol-I Annex-A, Section –III (Qualification of the bidder)	Bidder shall have liquid assets (LA) and/ or evidence of access to or availability of fund based credit facilities of not less than INR 12.50 Cr. and the. Liquid assets would include cash (and equivalents), bank deposits, securities that can be freely traded and receivables which has general certainty of getting received	It is understood that in case of EPC, all financial criteria if met by EPC will be governing factor for qualification.	If the bid is submitted in consortium then all the consortium partners shall meet the financial criteria as per Amendment 1.
16	Clause A 1. (Advance payment) sub-clause (i) of Vol-I, Section-VI	For Ex-works Supply portion, initial interest bearing adjustable Mobilization Advance of 15% of ex-works contract cost excluding taxes and duties shall be released for all the materials in two tranches of 7.5% each, First instalment of 7.5% of contract price component shall be released on presentation of the following.....	The BOQ given in the tender is for supply, installation, commissioning and other services i.e. the bidder has to fill one rate against each BOQ item which includes Supply, Installation, Freight etc. Please clarify on what price advance payment will be claimed. Clause(c) need to be deleted as for claiming supply advance establishment of contractor site office is not required.	Refer to the Financial bid form available at tenderwizard.com/REC
17	Clause 2.1 Sub-clause 2.1.1 of Vol-I, Section-VI	First Installment (60%): Sixty percent (60%) payments of supply portion against various items of price schedule including GST etc. shall be paid on Sign off of SRS, design document and Data model and Factory Acceptance test (FAT) and Delivery of Smart Meters along with related Hardware(i.e. Smart Meter, RF NIC, RF Network Equipment and IT HW) & Software(HES, NMS,MDMS and other as required in BID document) at Project site as per below.....	<ul style="list-style-type: none"> · The BOQ with respect to item A to D need to be modified so as to have different schedule for Supply, F&I and Installation and Commissioning. With the present BOQ. However, BOQ for IT system will have one price for supply, installation and F&I as system supplied is only one system and payment as per your document will be made after supply and installation. 100% payment against this head has to be made as same will be commissioned in 1st instance only and has no linkages with all other installation and hardware items etc. · Signs off of SRS, Design document and data model and factory acceptance test need to be deleted as after inspection in the works, MDCC/DI will be issued which will be submitted along with the invoice for payment. · It is understood that bidder shall be eligible for payment against next LOT only after successful installation of minimum 50% quantity of previous LOT. Clause f) to g) need to be deleted 	<ol style="list-style-type: none"> 1. Refer financial bid available at tenderwizard.com/REC 2. 60% of supply cost of IT hardware shall be made against supply of IT Hardware. 3. Bidder shall be eligible for payment against previous lot only after successful installation of minimum 50% quantity of previous lot from second lot onwards.
18	Clause 2.1.2 of Vol-I, Section-VI	Second Installment (20%): Twenty percent (20%) payments of supply portion against various items of price schedule on pro-rata basis considering 10,000 lot each shall be paid subject to Installation, commissioning and integration with existing JKPDD applications (eg. CCB, GIS, Reporting tool etc.) in all respect and online bill generation from utility billing system for 30 days and Site Acceptance test (SAT). The requisite documents are herein under.....	Clause a) to l) need to be deleted because same is duplicated against 60% payment. It is understood that each item of BOQ will be paid on pro-rata basis.	<ol style="list-style-type: none"> 1. The documents submitted in first installment will be considered wherever applicable. 2. Each item of BoQ will be paid on Pro-rata basis.
19	Clause 2.1.3 of Vol-I, Section-VI	Third Installment (10%): Ten percent (10%) payments of supply portion against various items of price schedule on pro-rata basis considering 10,000 lot each shall be paid on Completion of minimum 3 billing cycles (monthly) and User Acceptance by utility. The requisite documents are herein under.....	It is understood that each item of BOQ will be paid on pro-rata basis	Bidders understanding in this regard is correct.

20	Clause 2.1.3 sub-clause (c) of Vol-I, Section-VI	(c) Test check certification on Measurement Book be recorded by officers in hierarchy with the claim as per policy.	Kindly clarify the clause	This is the standard procedure followed in all Discoms for measurement of work completed for making payment as per the milestones completed by bidder.
21	Clause 2.1.4, Sub-Clause (b) of Vol-I, Section-VI	Fourth Installment (10%): Ten percent (10%) payments of supply portion against various items of price schedule shall be paid on Successful completion of all responsibilities and obligations and Go-Live of the complete AMI system. The requisite documents are herein under..... (b) Test check certification on Measurement Book be recorded by officers in hierarchy with the claim as per policy.	Kindly clarify the clause	This is the standard procedure followed in all Discoms for measurement of work completed for making payment as per the milestones completed by bidder.
22	Clause 2.2, Sub-Clause 2.2.1 of Vol-I, Section-VI	2.2.1 First Installment (90%): Ninety percent (90%) payments of services portion against various items of price schedule on pro-rata basis considering 10,000 lot each shall be paid subject to Installation, commissioning and integration with existing JKPD applications (eg. CCB, GIS, BI etc.) in all respect and online bill generation from utility billing system for 30 days and Site Acceptance test (SAT).....	It is understood that each item of BOQ will be paid on pro-rata basis Clause (a) to (e) is to be deleted. Kindly clarify clause (g)	1. The documents submitted in first installment will be considered wherever applicable. 2. Each item of BoQ will be paid on Pro-rata basis. 3. This is the standard procedure followed in all Discoms for measurement of work completed for making payment as per the milestones completed by bidder.
23	Clause 2.2.2 of Vol-I, Section-VI	Second Installment (10%): Ten percent (10%) payments of services portion against various items of price schedule on pro-rata basis considering 10,000 lot each shall be paid on Completion of minimum 3 billing cycles (monthly) and User Acceptance by utility.....	It is understood that each item of BOQ will be paid on pro-rata basis Clause (b) need to be deleted	No change is envisaged. Provision of bid document shall prevail.
24	Taking over by the employer upon successful completion.		It is presumed that Employer will take over the facilities on pro-rata basis immediately on commissioning. Please clarify/confirm the protocol of filed requirement for taking over of the assets by the Employer .	Refer to Amendment 1
25	Form No.19 (Form of Joint Deed of Undertaking by the Sub-Contractor along with the Bidder/ Contractor Vol;-I Section-VI)		Since lead bidder has to fulfil all contractual obligations such as CPG/Warrantee/ Guarantee, we shall submit manufacturer authorization form (MAF) as per Attachment-8 on manufacture's letter head in lieu of Form No.19.	Refer Amendment 1.

26	Point No.1- Scope of Work – 1, sub-point No.2	Supply, Planning, Setup, tuning of RF network elements along with required accessories for formation of RF Mesh Communication Infrastructure including Network Management system (NMS), Head End System (HES) for the project area. AMI Software and associated equipment's should be capable of handling at- least 2,00,000 Meters with 30 % expansion without any additional infrastructure and cost implication to PDD and Scalability up-to 20,00,000 consumers in future.....	Kindly clarify the interpretation of without any additional infrastructure and cost implication to PDD. We presume that we will be paid on pro-rata basis for the quantities exceeding up to 30%	1. The RF infrastructure flexibility should be capable of handling 30% expansion of meters without any additional cost in the same project area.
27	BOQ item – C-17	Service main clamps for supporting service cable	Kindly clarify mounting arrangement for erection of service main clamp on pole for supporting service cable.	As per standard mounting practice in Discoms. Bidder is advised to visit the project sites to study the existing pole DBs, service line clampings.
28	BOQ item -D-22	DCU, Field Router, Collector and other associated Network Components required for Communication from Meter along with Installation Clamp, cabling and Accessories for project Area	1. It is our understanding that we have to supply either DCU or field router or collector as applicable or combination of these depending on NSP solution. 2. Further, since the quantities of DCU, field router, collector etc. are to be assessed by the bidder, the unit should be LOT and not in number. Kindly modify the BOQ accordingly.	1. Bidders understanding in this regard is correct. 2. No change is envisaged in BoQ. Provision of bid document shall prevail.
29	BOQ item -D-23	Network Interface Card (NIC) for Meters including 10% GPRS NIC Cards	Since Network Interface Card is an integral part of the meter, kindly clarify how do we raise the bill for the same as the same is not the loosely supplied item.	Quantity of Supplied NIC card shall be considered same as no. of meters for billing purpose.
30	BOM-IT System-A.1, A.2, A.3, B.1, C.1, E.1, H.5	A.1 Supply, Installation, Configuration & Integration of HES Software suitable for 2 Lakh Smart Meters.....	The BOQ indicates one LOT against each item since there are two different locations i.e. Srinagar city and Jammu city. Kindly clarify how the bill will be raised.	Invoices shall be raised according to the BOQ line item quantity not as per site locations
31	BOM-IT System-C.2, D.1 to D.5, E.2, F.1, F.2,, H.1 to H.4, H.	C.2 Supply and Installation of Antivirus software for all machines(including license).....	Since the quantity to be assessed by the bidder, the unit may be changed to LOT.	No change is envisaged. Provision of bid document shall prevail.
32			The specification calls for poly-carbonate meter box whereas the drawing enclosed for deep-drawn. Further based on the dicussions with sub vendors regarding supply of polycarbonate box, they have expressed that it will not be possible to manufacture big size box to house 2 or 4 meters. Accordingly use of one meter per box shall only be allowed.	Poly-carbonate box should be provided for better communication. The drawing of meter box is indicative. The bidder has to submit the meter box design during detailed engineering after award of contract.
33	Scope of Works- Point No 2- Project Area		Project area (localities etc) are not specified in tender. The same is required for survey befor quoting the tender	Refer to Amendment 1
34	Scope of Works- Point No 5.1 General Requirement	The bidder shall ensure the up-gradation of firmware/software---during the contract period	Who will bear the cost of additional hardware equipments may required during O&M period	Bidders shall be required to meet the SLA during O&M period without any additional cost.
35	Scope of Works- Page 18 -Point No 8--18	Bidder shall provide 3 party---	Is there are any shortlisted security audit companies or choice of same will lie with SI.	Security audit should be carried out through CERT-IN/ GoI empanelled agencies

36	Scope of Works- Page 19 -Point No 10.1.1	Meter Inventory Management	Please clarify the clause	As bidder is maintaining the store so it shall have proper inventory management and same may be audited by JKPPD/ RECPDCI
37	Vol-1, Section 1	The EMD of unsuccessful bidder will be returned within 210 days after the contract	EMD of the unsuccessful bidders shall be released immediately after acceptance of order by the successful bidder. The EMD would be serving no purpose after the order is accepted but blocking the credit limits , hence this request. Kindly confirm.	Refer to Amendment 1
38	T.2.a	Completion Certification/Go- live certificate/Part-commissioning certificate for required number of meters (incase the complete project has not been declared Go-Live) on client Letter head with contact details of clients for verification for a) The bidder must have manufactured & Supplied Smart Meters* in last 7 years in India, ending last day of month previous to the one in which bids are invited, as below: i. One project with minimum 10,000 smart meters or ii. Two projects with minimum 6,250 smart meters each or iii. Three projects with minimum 5,000 smart meters each.	Smart metering technology is at a nascent stage in India and most of the projects are currently in the execution phase. So kindly request you to include/consider proof of supply as a valid supporting document for the bid evaluation against this criteria. The proof of supply may be a list of invoices of supply of Smart Meters alongwith details of PO/Project duly certified by a Chartered Accountant. Please confirm.	No change is envisaged. Provision of bid document shall prevail.
39	1.3	CLIMATE CONDITIONS OF THE INSTALLATION	Meter will abide by the climatic conditions as per IS 16444 Part 1 standards.	No change is envisaged. Provision of bid document shall prevail.
40	1.4.8	Starting current 20mA (0.2 % Ib)	We will provide starting current of 10mA for 10-60A meters which is 0.2% of 5 A. Since this complies with the starting current requirement of 5-30A, request you to accept our 10 60A meters against both 5-30 and 10-60A variance.	No change is envisaged. Provision of bid document shall prevail.
41	1.4.7	Power consumption of the smart meter with integrated communication modules and load control switch shall be as per IS 16444 (Part 1)	The power consumption will be as per the latest amendments of IS 16444 (Part 1)	Should be as per latest amendments of applicable standards
42	1.4.29	Software and communication compatibility The bidder shall supply software required for local (CMRI) & remote (AMI) onnectivity including required training to use the software free of cost. In case solution is given on RF, RF enabled portable device should be provided which will communicate with meter on RF and will communicate with DCU / HES on RF / GPRS	This being an AMI project, CMRI with RF communication capability & DCU/HES on RF/GPRS is not required. A CMRI would only be required as a backup to handle communication failure or any exigencies, hence modify the requirement as " The bidder shall supply CMRI to collect data from the Meter and dump at HES in case of failure of communication."	It is not mandatory to supply wireless CMRI. However, it would be bidders responsibility to meet the SLA by any means in case WAN/HAN/NAN network failure.
43	1.9.4	1.9.4. TYPE TEST CERTIFICATE: All the tests shall be conducted at CPRI as per the relevant standards.	Type test reports from only CPRI is restrictive. Please note that Type testing of Smart Meters as per IS 16444 has been carried out by few NABL accredited labs in India including CPRI. Hence request modify the clause as " All the type tests shall be conducted at any NABL accredited Laboratory as per the relevant standards".	Refer to Amendment 1

44	1.11	Bidder shall further be responsible for 'free replacement at site' for another period of THREE years from the end of the guarantee period for any 'Latent Defects' if noticed and reported by the purchaser.	Bidder shall further be responsible for 'free replacement at site' till the end of the guarantee period for any 'Latent Defects' if noticed and reported by the purchaser. Request amend the clause.	Bidder shall further be responsible for 'free replacement at site' for another period of THREE years from the end of the guarantee period for any 'Latent Defects*' if noticed and reported by the purchaser. *A defect shall be termed as Latent defect if more than 0.5% of installed meters fail due to similar nature defect in a continue slot of 6 months.
45	1.17	As applicable shall be furnished by the bidder. 1.17. DRAWINGS AND DOCUMENTS Following drawings & Documents shall be prepared based on JKPD specifications and statutory requirements and shall be submitted with the bid: (f) Type Test Certificates	The Technical Qualification states that BIS certificate can be offered within 3 months of letter of award of the contract. Since smart metering technology is at a nascent stage, manufacturers are in the process of getting type test certificates. Hence request allow submission of type test and BIS certificates before commencement of supply of meters	Refer to Amendment 1
46	2.4.3	(a) Ib = 20 Amp; (b) Imax = 100 Amps;	Request include 10-100A rating for 3phase whole current smart meters.	No change is envisaged. Provision of bid document shall prevail.
47	Volume-I: Annexure-A of Section-III QUALIFICATION OF THE BIDDER (T.12)	Interoperability: The Bidder must have successfully integrated their NIC/ Communication module with at least 2 Indian electric meter manufacturers and seamless integration with HES and/or MDMS. Signed agreements/ MoUs for integration of NIC module and Certificate of successful integration	We Suggest that in addition to confirmation letter from Meter Manufacturer, a letter from DISCOM should also be asked to confirm that RF NIC is Integrated with respective Meters. Please modify this as "Signed agreements/ MoUs for integration of NIC module and Certificate of successful integration and letter from Discom stating the name of Meter/s integrated with RF Canopy." It will ensure that RF Canopy provider has capability to integrate with Meter Manufacturer as per IS 16444 requirements.	No change is envisaged. Provision of bid document shall prevail.
48	VOLUME-I: SECTION – VII 5.3.2 Electrical Specification NIC Card	NIC card shall be capable of operating on 5V DC drawn from the smart meter as defined in BIS standard of Smart meter IS16444	Pls. amend as: NIC card shall be capable to operate on the power drawn from smart meters as defined in IS16444 Kindly refer which section of IS:16444 specify 5V DC.	Refer to Amendment 1
49	VOLUME-I: SECTION – VII 5.3.2 Electrical Specification NIC Card	Average power consumption 100mA@5V (0.5W) and Peak Power consumption 700mA@5V (3.5W).	Pls. amend as: The power consumption shall be as per IS16444 for Smart Meters. The power consumption depends upon bidder's design and proposed solution.	Refer to Amendment 1
50	VOLUME-I: SECTION – VII 5.3.6 Constructional and Mechanical Specifications	It shall have provision to take the antenna out from the Smart meter wherever required during field installation. Antenna interface shall be SMA type female In a good radio design, the internal antenna is capable to form the RF mesh network and external antenna is not required.	Please delete this clause as it may give access to main PCB board of NIC/ Meter and may be used to intentionally damage the Communication Module / Smart Meter through external means. External Antenna interface at Smart Meter level may give access to main PCB board of NIC/ Meter and may be used to intentionally damage the Communication Module / Smart Meter through external means	Refer to Amendment 1

51	VOLUME-I: SECTION – VII 5.3.6 Constructional and Mechanical Specifications	LED indication for network signal strength (RSSI)	Please amend this clause as Suitable means of indication of network signal strength (RSSI) shall be done. Different vendors can have different method of showing the signal strength, hence, should be made flexible	Refer to Amendment 1
52	VOLUME-I: SECTION – VII 5.4.5.1 Hardware Specifications (Gateway)	Gateway shall have RF cards to maintain a mesh network. The gateway shall include any circuitry necessary for multiple independent RF cards. There shall be adequate provision to avoid RF interference between RF cards.	The Gateway covering geographical area can address sufficient RF node, requirement of multiple independent RF cards can be achieved by a single RF mesh card Gateway. Moreover this is design parameter and vary from Vendor to Vendor. Gateway Quantities are to be decided by Bidder hence it should be removed. Please delete this Clause.	Refer to Amendment 1
53	VOLUME-I: SECTION – VII 5.4.5.2 Electrical Specifications (Gateway)	(iii) The Gateway shall withstand surge voltage up to 10KV.	Request to amend the surge requirement for Gateways to be same as defined in IS16444 for Smart Meters i.e. 6 KV. This is as per requirement in IS16444, IEC standard 61000-4-5 and also defined in CEA guidelines.	Refer to Amendment 1
54	VOLUME-I: SECTION – VII 5.4.5.3 Software Specifications (Gateway)	(vi) Gateway shall have redundant IP address of back-end server. Gateway shall be able to connect to secondary IP if primary IP is not reachable.	It is requested to amend clause as "Gateway shall support configuration of URL of in place of IP address. Gateway shall be able to connect to URL, which will then be able to connect to multiple IP address." by configuring URL "N" numbers of IP addresses of servers can be reached	Refer to Amendment 1
55	VOLUME-I: SECTION – VII 14.2.8 Integration of new equipment	All future Field devices & other System integration shall be the responsibility of contractor and shall be part of the maintenance charges without any other additional cost burden to employer/ utility.	It is assumed that the tender is for Smart Meters and in future if any new smart meters is intended to be integrated, which can be done by mutual consent. Kindly mention maximum number of future integrations expected to work out the costing.	Bidder shall provide integration support during the project period, to other Smart meter vendors(finalized by JKPDD) communicating through same RF network and 3 new application(Smart lighting, Smart parking etc.) during the FMS period. (Bidder shall integrate with all existing/new applications before Go-Live). Any other integration support shall be carried out on mutually agreed

56	Page 5 & 22- Clause 34.1	The EMD of unsuccessful bidder will be returned within 210 days after the contract and EMD of successful bidder will also be returned after acceptance of work order and submission of PBG (Performance Bank Guarantee) i.e. 10% of the Contract Value. Performance Security - Within twenty-eight (28) days after receipt of the Notification of Award through LoI, the successful Bidder shall furnish the performance security for 10% (Ten percent) of the contract price.	We request you to amend clause as PBG 10% on Ex works value of contract to avoid financial burden on bid.	Refer to Amendment 1
57	1.1-34	PQR- The Lead/individual bidder can be any of the three agencies as detailed hereunder: 1. Meter Manufacturer 2. SI 3. EPC contractor	As this is Prestigious project So only Genuine Bidder should be allowed to Quote. Hence we would like suggest that- Lead Bidder should be Smart Meter Manufacture. Who Has Executed or Executing Smart Grid/ Smart Meter project in India as a Lead bidder. IF System Integrator is Bidding as Lead Bidder than He should take Meter Manufacturer as Consortium having QR as stated above.	No change is envisaged. Provision of bid document shall prevail.
58	1.1.3- 38	The bidder must have manufactured & Supplied Smart Meters* in last 7 years in India, ending last day of month previous to the one in which bids are invited, as below: 1. One project with minimum 10,000 smart meters	We understand that project means bidder must have manufactured, Supplied & installed Smart Meters as Lead Bidder. Kindly confirm. Since, bidder must have experience of installation of smart meters.	Refer to Amendment 1
59	1.1.3- 39	BIS Certification for offered product Relevant IS 16444	Being a deemed project of GOI & J&K PDD, we hereby recommend that bidder must have BIS certification of at least one product .	No change is envisaged. Provision of bid document shall prevail.
60	19.1-80	Test and Inspection The Contractor shall at its own expense to carry out at the place of manufacture and/or on the Site all such tests and/or inspections of the Plant and Equipment and any part of the Facilities as are specified in the Contract. (i.e. 1% of the meters). Maximum of 5% of the meters may be tested per annum during O&M Phase.	We understand that this is only Onsite testing of 1 % meters during O&M Phase. Kindly confirm if any other testing is required.	In addition to the factory inspection of 1% meters, On site testing during O&M phase can be carried out on need basis to a maximum of 5% of installed meters
61	21.2-86	If the Contractor fails to comply with the Time for Completion in accordance with Clause GCC 21 for the whole of the facilities, (or a part for which a separate time for completion is agreed) then the Contractor shall pay to the Employer a sum equivalent to half percent (0.5%) of the Contract Price for the whole of the facilities, (or a part for which a separate time for completion is agreed) as liquidated damages for such default and not as a penalty.	We understand that This Clause related to Liquidity Damage, hence we suggest that liquidated damage should be imposed only on Delayed portion of work instead of contract price. There should be One Clause related to Liquidity Damage in entire RFP, there should not be multiple penalty.	Refer to Amendment 1

62	2.1-142/143	<p>First Installment (60%): Sixty percent (60%) payments of supply portion against various items of price schedule including GST etc. shall be paid on Sign off of SRS, design document and Data model and Factory Acceptance test (FAT) and Delivery of Smart Meters along with related Hardware(i.e. Smart Meter, RF NIC, RF Network Equipment and IT HW) & Software.</p> <p>Twenty percent (20%) payments of supply portion against various items of price schedule on pro-rata basis considering 10,000 lot each shall be paid subject to Installation, commissioning and integration with existing JKPDD applications</p>	<p>We understand that 60% +100% GST of Supply of Material will be paid in Receipt of Material.</p> <p>Next Twenty percent (20%) payments of supply portion against various items of price schedule on pro-rata basis considering 10,000 lot each shall be paid subject to Installation, commissioning and integration with existing JKPDD applications. In Case any Delay in Integration because of any issue from Utility Side this Payment will be released within 30 Days from 1st payment (60% of Supply Payment).</p>	Refer to Amendment 1
63	2.1.4-144	Fourth Installment (10%): Ten percent (10%) payments of supply portion against various items of price schedule shall be paid on Successful completion of all responsibilities and obligations and Go-Live of the complete AMI system-	We understand that Go Live will be in Phase manner-i.e 1st Lot of 10000 Meter Supplied & Installed , Integrated & 3 Month Bill are generated Its will be treated as go Live. Pl Confirm	Take over of the facilities shall be, after completion of FMS Period of complete system. For necessary amendments in this regard, please refer Amendment 1.
64	3-145	FMS Payment- FMS Payment will be done on Quarterly basis at the end of each quarter on satisfactory completion of Facility Management Services	We would like to suggest that FMS period shall be in Lot wise. Accordingly Payment shall be released.	Refer to Amendment 1
65	Appendix 4-151	Project completion schedule – 18 month (Eighteen month) with 5 years of FMS period post Go-Live	Due to new concept in India & looking to the physical terrain & Challenges in J&K completion time should be 24 months. 18 months is not practically feasible.	No change is envisaged. Provision of bid document shall prevail.
66	3.1.3-198	The Network Management System (NMS) is responsible for the establishment and management of all radio mesh networks, the discovery of all nodes once deployed in the field, the overall system management as well as security management of those millions of devices.	We understand meaning of millions of devices is Smart Meter Under this RFP Scope. Other this Will be beyond scope of Bidders.	It shall be for devices covered in this project only
67	8 -214	16. The bidder shall guarantee for providing service & expansion support in the aforesaid area for at least 5 years after completion of O&M period.	This clause should be removed since mostly items would have guarantee of 60 months hence this clause would not be applicable. Looking at fast Change in technology & Component life practically such Support is not Feasible.	Bidder need to provide support after FMS, any cost implication shall be finalized with mutual consent rates.

68	13.2-220	If the defective or damaged materials are not replaced within 15 days from the date of receipt of the intimation from the RECPDCL/JKPDD of such defects or damages, then a penalty of 0.5% per week or part thereof, subject to maximum 10% of O&M cost of that material in addition to SLA shall be applicable.	We would like to suggest that there should not be multiple penalties on Bidder. Single Penalty Mechanism shall be adopted to Keep price Level Competitive & This penalty shall be on Ex-Works Delayed portion only.	If the defective or damaged materials are not replaced within 15 days from the date of receipt of the intimation from the RECPDCL/JKPDD of such defects or damages, then a penalty of 0.5% per week or part thereof (i.e. even if a part of the week, full week shall be considered for penalty calculation), subject to maximum 10% of O&M cost of that material in addition to SLA shall be applicable.
69	14.2.13-229	Deduction of 1% of quarterly FMS charges for every 0.5% or part there of decrease in availability under 99.5% subject to a maximum of 50% of quarterly FMS charges	AMI is purely Network dependent. J&K Area is still unpredictable Specially in Network availability. Present 99.5% is Stringent. It should be changed 80%.	No change is envisaged. Provision of bid document shall prevail.
70	AMI BOQ-235	Meter Box (2:1) with Bus Bars, internal wiring of appropriate current rating & connections along with mounting clamps, nuts & bolts for 1-Ph Meter	We here by suggest that Meter Box (1:1) will be more convenient looking to various drawbacks of 2:1 box.	Can be considered at the time of implementation based on the field condition.
71	AMI BOQ-235	Meter Box (4:1) with Bus Bars, internal wiring of appropriate current rating & connections along with mounting clamps, nuts & bolts for 1-Ph Meter	We here by suggest that Meter Box (1:1) will be more convenient looking to various drawbacks of 4:1 box.	Can be considered at the time of implementation based on the field condition.
72	2.2.1.1-262	Sampling from field: Any material, including materials listed below, may be picked from site for testing at test laboratory chosen by inspecting official. Energy meters Cable All expenditures that shall incurred towards packing, transport, inspection, testing charges etc. are to be borne by the PIA.	Kindly confirm the scope of test & inspections like number of lots, how many times. We here by suggest that type test report of cable at the time of bid submission is sufficient. No further testing is required for cable.	Refer to Amendment 1
73	1.3-320	ii. Degree of protection IP 55	It should be IP 54 for polycarbonate box. Please accept the same.	Refer to Amendment 1
74	1.4.38-329	a) The meter shall log the event in memory on thresholds (Shall be submitted by Bidder after award of contract for approval) in Table 4 - Tamper Event Details for Single Phase Smart Meters. b) The meter shall not saturate on passage of direct current, which can cause the meter either to stop recording/ record inaccurately. DC injection shall be tested both in phase and neutral. Measurement by meter shall not get influenced by injection of DC signal/ DC pulse up to 330V (both + & - DC) and for any value beyond this.	Meter will be in disconnect condition to prevent these tampers. Please accept the same.	Refer to Amendment 1

75	1.4.39-330	Neutral disturbance: Meter shall log all events when AC/DC/ Pulsating voltage is injected in neutral circuit especially when same can disturb the recording of energy. Manufacturer should specify the method of testing of Neutral disturbance.	Meter will be in disconnect condition to prevent these tampers. Please accept the same.	Refer to Amendment 1
76	1.4.39-330	I/C&O/G Interchanged Meter should record forward energy within limits of accuracy class 1.0.	Meter will be in disconnect condition to prevent these tampers. Please accept the same.	Refer to Amendment 1
77	1.4.39-329	All tamper logging thresholds values shall be configurable from remotes.	Tamper logging threshold values should not be configurable as per IS16444. Please accept the same.	No change is envisaged. Provision of bid document shall prevail.
78	1.5.2-J-333	j) The moulded terminal block shall be made from best quality phenol formaldehyde/Poly carbonate conforming to IS:13779-1999 (latest amended) having adequate insulating properties and mechanical strength with brass inserts for connecting terminals	Terminal block should be PBT due to higher electrical properties & strength confirming to IS16444. Please accept the same.	Refer to Amendment 1
79	1.5.3-333	e) The terminal cover of the meter should be hinged either at the top or left side so that it opens from bottom to top or hinged at the left side so that it opens from right to left of the meter.	Terminal cover should be Hinged /Without Hinged both should be acceptable. Kindly amend the clause accordingly.	Refer to Amendment 1
80	1.8.3-335	TOD profile (Different Seasons and Timing)	Seasons are not applicable as per IS16444.	ToD shall be as per JKSERC tariff order
81	2.1-344	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, 20-100A, whole current static smart meters of accuracy class 1.0	Please change the rating as 10-60A & 240V, Since this is sufficient for 3Ph direct connected meters . All utilities in India is accepting the same	Refer to Amendment 1
82	3Ph meter 2.5-350	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.	As per IS16444 meter is protected by encryption decryption method in software. Meter will be mounted in enclosure so sealing of meter optical port should not be necessary.	Refer to Amendment 1
83	2.8-351	The meter shall record forward energy under all abnormal tampering conditions and shall be capable of recording occurrence and restoration of abnormal events listed below along with date & time and snap shots of individual voltages, currents, power factors, active energy and apparent energy at the time of occurrence of abnormal event and restoration of normal supply. All tamper logging thresholds values shall be configurable from remotes.	Tamper logging threshold values should not be configurable as per IS16444. Please accept the same.	No change is envisaged. Provision of bid document shall prevail.
84	2.8-351	Note: "Meter shall have neutral CT for tamper identification and analysis."	Meter shall have neutral CT or Shunt for tamper identification and analysis. Please accept the same.	Refer to Amendment 1

85	2.9.2-356	i) The moulded terminal block shall be made from best quality phenol formaldehyde/Polycarbonate conforming to IS:13779-1999 (latest amended) having adequate insulating properties and mechanical strength with brass inserts for connecting terminals.	Terminal block should be PBT due to higher electrical properties & strength confirming to IS16444. Please accept the same.	Refer to Amendment 1
86	2.9.3-357	e) The terminal cover of the meter should be hinged either at the top or left side so that it opens from bottom to top or hinged at the left side so that it opens from right to left of the meter.	Terminal cover should be Hinged /Without Hinged both should be acceptable.	Refer to Amendment 1
87	Table 17-362	kvarh parameters of display not clarified .Parameter no 7,8,11,12,15,16,19,20,24,25,28,29 i.e b 1 KVAh Lag Import KVAh reading on 1st of last month at 00.00 hrs.etc	Please confirm the requirement. There are repetitions of display.	Bidder shall provide display sheet for approval during detailed design and engineering phase
88	Table 18-365	kvarh parameters of display not clarified . parameter no 11,12,15,16,19,20,24,25,28,29 i.e b 1 KVAh Lag Import KVAh reading on 1st of last month at 00.00 hrs.etc	Please confirm the requirement.	Bidder shall provide display sheet for approval during detailed design and engineering phase
89	2.12.10-368	(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.	Meter constant should be manufacture specific confirming to IS16444. Please accept the same.	The pulse rate defined is preferable. Bidder can design meter on different pulse rate.
90	2.12.10-368	b) Communication LCD indicator- The meter shall be provided with suitable LCD indication RxD and orange TxD communication in progress.	Communication module status should be provided by LED in communication module. Please accept the same.	It is bidders responsibility to provide such diagnostic features by LED/LCD on either meter or NIC
91	395	SPECIFICATION OF POLY CARBONATE SEALS	Each utility in India is accepting bidder's specific seals. Since, this specification of seal will add extra cost on bid. Moreover, bidder has to depend at each time on supplier of seal which will lead to delay in supply of meters. Kindly remove this clause.	Refer to Amendment 1

92	8.4-442	Type test of cables 4C & 2C Un armored One sample from the 1st Lot of LT XLPE UN-UN-ARMORED Cable of each size as received in purchaser's store shall be selected and sealed by the inspecting officer nominated by purchaser's for getting it type tested at any NABL accredited testing laboratory. The charges incurred towards type test of the material received in our stores shall be borne by Supplier.	Bidder shall submit type test of cables along with bid, which is sufficient. Hence, type test from lot samples is not required to avoid any financial burden on bid.	Refer to Amendment 1
93	Volume-III: Section-I, Clause no. 1.5.2 (b)	"Terminals, Terminal Block" of single phase meter technical specification it is mentioned that: two no's flat head screws and washers per terminal shall be provided	The washer in terminal screw shall are not recommended. We request you to kindly remove the requirement of Washers and confirm.	No change is envisaged. Provision of bid document shall prevail.
94	Volume-III: Section-I, Clause no. 1.5.2 (b)	"Terminals, Terminal Block" of single phase meter technical specification it is mentioned that two no's flat head screws and washers per terminal shall be provided. Whereas in GTP clause no. 1.18 S.No .49 (Page No. 342) it is mentioned that Allen Screw head size (Terminal Screw).	Both are contradictory requirements so we request you to kindly accept Slotted headless Grub/Set terminal Screws.	Refer to Amendment 1
95	Volume-III: Section-I, Clause no. 1.5.3 (d)	"Terminal cover" of single phase meter technical specification it is mentioned that the ETBC shall be extended by minimum 50 mm below plane surface of the terminal block with suitable sealing arrangement of terminal cover for providing numbered double anchor polycarbonate lash wire seal	Since Meter is to be installed inside the meter box therefore we request you to kindly accept the extended terminal cover with having 30 mm minimum length from the terminal block. This 30mm length is sufficient to accommodate the cable.	No change is envisaged. Provision of bid document shall prevail.
96	Volume-III: Section-I, Clause no. 2.9.2 (b)	"Terminals, Terminal Block" of three phase meter technical specification it is mentioned that two no's flat head screws and washers per terminal shall be provided.	The washer in terminal screw are not recommended. We request you to kindly remove the requirement of Washers and kindly confirm.	No change is envisaged. Provision of bid document shall prevail.
97	Volume-III: Section-I, Clause no. 2.9.2 (b)	"Terminals, Terminal Block" of three phase meter technical specification it is mentioned that two no's flat head screws and washers per terminal shall be provided. Whereas in GTP clause no. 2.25 S.No .49 GTP it is mentioned that Allen Screw head size (Terminal Screw)	Both are contradictory requirements so we request you to kindly accept Slotted headless Grub/Set terminal Screws.	Refer to Amendment 1
98	Volume-III: Section-I, Clause no. 2.9.3 (d)	"Terminal cover" of three phase meter technical specification it is mentioned that the ETBC shall be extended by minimum 50 mm below plane surface of the terminal block with suitable sealing arrangement of terminal cover for providing numbered double anchor polycarbonate lash wire seal	Since Meter is to be installed inside the Box, we request you to kindly accept the extended terminal cover with having 30 mm minimum length from the terminal block. This 30mm length is sufficient to accommodate the cable. Kindly confirm the acceptance.	No change is envisaged. Provision of bid document shall prevail.

99	Qualification Requirement (General) 1.1.1	Bidder shall be a Company incorporated under the Companies Act 1956/ 2013. [In case of consortium/ Sub-contractor, all need to satisfy this condition]	Bidder shall be a Company incorporated under the Companies Act 1956/ 2013[In case of consortium/ Subcontractor, all need to satisfy this condition; However MSME Consortium member / Subcontractor may be a company under Company Act 1956/2013 OR Partnership Firm]	Refer to Amendment 1
100	REF: Vol-1: Annexure of Section-III Qualification of Bidder - Pre-Qualification requirement - PART - A 1.1.2)	... Consortium of Maximum three(3) Consortium of Lead Bidder plus Maximum three(3) Consortium Members ...	Refer to Amendment 1
101	Vol. I Annexure A, Section III, 1.1 f)	... Replacement of Sub-Contractor can be only be with Prior Approval of RECPDCL.....	... Addition/Replacement of Sub-Contractor can be only be with Prior Approval of RECPDCL.....	Refer to Amendment 1
102	Vol. I Annexure A, Section III, 1.1 g)	MSME/ Start Ups ... shall be considered qualified as per Clause 1.1.2 if they meet 80% of the requirement	As Consortium Member Partner MSME/ Start Ups ... shall be considered qualified as per Clause 1.1.2 if they meet 10% of the requirementFinancial; Requirement as per Clause 1.1.2 (F1 & F2)	Refer to Amendment 1
103	Vol. I Annexure A, Section III, 1.1 i) iii. Lead Bidder Partner shall meet not less than 50% of the Fiancial requirement Lead Bodder Partner shall meet not less than 90% of the Fiancial requirement ... MSME / Start-Ups Certified Smart Meter Mfg as Consortium Partner shall meet 10% of the Fiancial requirement....	Refer to Amendment 1
104	Vol. I Annexure A, Section III, 1.1 i) iv)	each of other member / partners invidually shall meet 25% of the Fiancial requiremnet given at 1.1.2(F.1 & F.3)	ADD: MSME / Start-Ups Certified Smart Meter Mfg as Consortium Partner shall meet 10% of the Fiancial requirement....	Refer to Amendment 1
105	Vol. I Annexure A, Section III, 1.1.3 T.2 b)	b) The bidder shall have manufacturing capacity of 25,000 Smart meters per month in India including SMT PCB Assembly as well as Meter Assembly & Meter testing	The bidder shall have manufacturing capacity of 25,000 Smart meters per month in India including PCB Assembly as well as Meter Assembly & Meter testing	Refer to Amendment 1
106	Vol. I Annexure A, Section III, 1.1.3 T.4	The bidder should have in-house NABL accredited Laboratory since last 2 years.	The bidder should , at least, be a life time member of NABL accredited Laboratory at the time of bid submission AND shall submit self declaration/undertaking for submission of NABL certification at the time of first supply.	Refer to Amendment 1
107	Vol. I Annexure A, Section III, 1.1.4 T.6	Qualification requirement for System Integrator:	The Bidder shall have experience in System Integration Projects execution in the area of IT, Communication , Sensors etc Technology (ICT) of Large multi technologyIntegration in ICT / Scada / AMR / AMI Projects in India a/ Globally. The SI Bidder must have executed Projects in the 7 Years as Below: 1. Experience in 1 (One) Single Project Completed Value Not Less than Rs.101 Cr OR ii) Experience in Two such Projects not Less than Rs. 63 Cr Individually OR iii). Experience in Three Completed projects costing at least equal to Rs.51 Cr Individually.	No change is envisaged. Provision of bid document shall prevail..
108	Vol. I Annexure A, Section III, 1.1.4 T.9	Qualification requirement for EPC Contractor:	ADD: EPC Contractor must have Experience in at least One Project as ICT technology Integrated Project with IT, Communication & Sensors, Technology Integration....	Refer to Amendment 1