

No : TCED/RDSS : 3117/22

Thrissur Corporation Electricity Department

Thrissur Corporation

M.O.Road, Thrissur

Phone : 2423613

Email : astced.lsgd@kerala.gov.in

Date : 07.07.2023

NOTICE INVITING TENDER

Re – e Tender No.TCED/RDSS : 3117/22 Dated 07.07.2023

The Assistant Secretary, Electricity Department, Thrissur Corporation, Thrissur – 680001, Kerala invites Request for proposal (RFP) for Appointment of Advanced Metering Infrastructure (AMI) Service Provider for 40,907 Nos Prepaid Smart Metering in Thrissur Corporation Electricity Department on DBFOOT basis under TOTEX mode as part of Revamped Distribution Sector Scheme (RDSS) of Government of India.

Tender Reference No.	TCED/RDSS Dated 07.07.2023	
Work Item Title/ Description	Appointment of Advanced Metering Infrastructure (AMI) Service Provider for 40,907 Nos Prepaid Smart Meters in Thrissur Corporation Electricity Department (TCED) on DBFOOT basis under TOTEX mode as part of RDSS	
Mode of Tendering	e-Tendering	
Tender Release Date	07/07/2023	
Availability of Tender Documents	Can be downloaded from the website www.etenders.kerala.gov.in from - 07/07/2023	
Date of Pre Bid Meeting	21/07/2023 at 11.30 hrs	
Last Bid Submission Date	01/08/2023 at 11 a.m Hrs. (IST)	
Date of Opening of Technical Bid	03/08/2023 at 11 am Hrs.	
Location of Bid Submission/Opening	Office of the Assistant Secretary , TCED	
Tender Category	Services	
Tender Fee (Non-Refundable)	Rs.28,000/- (including Gst)	As a single online payment of Rs.528000/- through SBI MOPS Gateway
EMD Fee	Rs5,00,000./-	
Duration of Assignment	10 month implementation period + 110 months O&M period (As defined in ITB)	
Address of Correspondence	The Assistant Secretary, Electricity Department, Thrissur Corporation, Thrissur - 680 001 Email : astced.lsgd@kerala.gov.in	

MSME with Udyog Aadhar Registration are exempted from furning EMD and Bid submission fee. (Scanned copy of valid Udyog Aadhar registration certificate for MSME shall be uploaded). EMD and nonrefundable Tender document fee shall be remitted online through SBI MOPS Gateway. No other Modes of Payment will be allowed. Tenderer should ensure that tender document fee and EMD are remitted as one single transaction and not separate. Separate or split remittance for tender document fee and EMD shall be treated as invalid transaction. The online payment may be exercised at least 48 hours before the closing date of the tender to ensure that payment towards tender document fee and EMD are credited and a confirmation is reflected in the e-procurement system.

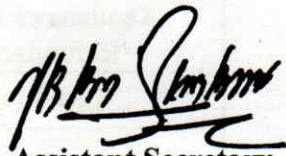
All the Tender documents are to be submitted on-line in the designed Covers/envelops on the above website. The scanned copies of all Agreements executed in Kerala Stamp Paper worth Rs.200/- and all certificates/documents mentioned elsewhere in the tender documents are to be attached along with the tender through online. The Tender shall be opened online at the office of the Assistant Secretary, Electricity Department, Thrissur Corporation, Thrissur – 680001 on the date and time mentioned above.

All Tenderers participating in the tender should have a valid Digital Signature Certificate availed from an approved certifying authority. For more details about e-tendering please contact : Assistant Secretary Electricity Department, Thrissur Corporation, Thrissur – 680001 on all working days from 10 a.m to 5 p.m (Phone No. 2423613) email : astced.lsgd@kerala.gov.in

Any further correspondences seeking details/clarifications can be done with below mentioned address : The Assistant Secretary, Electricity Department, Thrissur Corporation, Thrissur – 680001, Phone No. 2423613 email : astced.lsgd@kerala.gov.in

Note : If any of the date/dates mentioned above happens to be a holiday, the actual dates for the same will be the next working day. No separate intimation in this regard will be issued.

Originals of all Agreements in stamp paper, enclosed in a sealed envelope indicating Re-tender No..TCED/RDSS/3117/22 shall be submitted to the The Assistant Secretary, Electricity Department, Thrissur Corporation, Thrissur – 680001, Phone No. 2423613 before the Tender opening date.


Assistant Secretary
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എൻ. കെ. കൃഷ്ണകുമാർ/ N. K. KRISHNAKUMAR M.A. LL.M.
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വൈദ്യുതി വിഭാഗം/ ELECTRICITY DEPARTMENT
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Sl.no	Reference Clause No.	Page No	Query from bidder	Reply from TCED
1	Section 6. Project Requirements	280 of 429	<p>Smart Meters have been designed by the manufacturers uniquely to provide the desired performance. The communication module requirements vary w.r.t their operating voltage, power requirement and other features including physical dimensions and pin configurations for each type of communication technology & their make. Hence specifying a common dimension for Communication module is restrictive.</p> <p>The requirement of common pluggable module with a universal interface as given in the tender specifications does not allow innovation in design & manufacture of Smart Meters as it restricts/limits the efforts in cost reduction of the Meters.</p> <p>Also once the meters are redesigned, type tests are to be carried out in third party laboratories which are already running full. The timeline for deployment will be beyond 12 months.</p> <p>Request note that plugging in a different make/model of communication module does not guarantee that the Meter & module combine will meet the specification & standard and this will void the warranty of the Meter as well.</p> <p>In view of these multiple reasons, request remove this requirement of common dimensions/pin-out details of the communication module to ensure hassle-free rollout of the AMI solution.</p>	As per RFP
2	Section 6. Project Requirements		Request you to provide tamper logic as per utility requirements for all types of smart meters.	Will be finalised during the design stage
3	Section 2 A1	21	<p>To strengthen the PQR requirement we should propose: -</p> <ol style="list-style-type: none"> Follow of SBD document (Whatever relaxations are given in the tender should be removed) Meter manufacturer QR to be strengthened as: Option 1: Should have manufactured and supplied minimum [1,00,000] nos. of Smart meters (cumulative) on proposed communication technology in Indian/Global Power Distribution Utility in the last 7 (seven) years. And Option 2: Should have manufactured and supplied minimum [20,00,000] nos. of static electricity meters (cumulative) in Indian/Global Power Distribution Utility in the last 7 (seven) years. 	As per RFP
4	31	55	Advance Payment security (Optional)]- Deleted---As per specs the provision of advance payment is mentioned and in this clause the same is deleted. Kindly clarify.	No optional Advance Payment
5	12	256	Project Implementation Schedule- In page 256 of SBD, it is mentioned that the installation milestone - Within 6 months from the date of execution of the Contract. But in Tender Notice, the Duration of the Assignment - 10 months implementation period + 110 months O&M Period. Which one to consider?	Installation of 100% meters is within 6 months and project implementation within 10 months
6	Section6.Project Requirements	160	Please specify whether new service cable for Single Phase and Three Phase meters are to be supplied by AMISP or existing service cable to be reused	As per RFP BoQ
7	Section6.Project Requirements	160	Please specify for DT Meter, steel structures, are to be supplied by AMISP or not, Please share the rating of DT with quantity for correct estimation of accessories like cable lugs, CT etc.	As per RFP
8	Section 6. Project Requirements	160	Please specify the quantity and share the Technical Specifications of 9X1 cabinet box	AS per RFP BoQ

9	Section 5. Bidding Forms- Financial Proposal	153	Please clarify whether other accessories like structure material, ACSR conductor, Pin Insulators, Control cable of CT PT set will be provided by the utility or not. Who will do the installation of these CT PT Set for the Feeder Meter	As per RFP BoQ (CT PT will be supplied and installed by TCED)
10	Section 5. Bidding Forms- Financial Proposal	215	Please clarify whether the utility will provide the existing GIS database or not. Whether pole-to-pole numbering is to be carried out by AMISP or not. This will help AMISP in cost estimation.	GIS database not available
11	Utility information		Please share the list of circles with the quantity mentioned, where the meters are to be installed. This will help AMISP to calculate the required manpower/store/office establishment.	As per RFP
12	13-Annexure A--Current Rating	260	In RFP two current ratings (5-30A and 10-60A) are given for Single Phase meters. Please clarify the quantity for both ratings. We understand that the 5-30A rating is sufficient. Kindly Confirm.	5-30A for single phase meters
13	13-Annexure A--Plug-in Communication Module	261	We understand that the Plug-In module shall be field swappable/ replaceable with the same type of Communication technology and meter. Kindly Confirm.	As per RFP
14	Annexure A---Name plate and marking	263	In RFP. the nameplate on the meter should be clearly visible, effectively secured against removal and indelibly/distinctly marked in accordance with relevant IS. We request you kindly accept the nameplate printing details printed on the meter top cover, in case of meter top cover is opaque	As per RFP
15	Meter rating	268	In RFP two current ratings (10-60A and 20-100A) are given for Three Phase meters. Please clarify the quantity for both ratings. We understand that a 10-60A rating is sufficient. Kindly Confirm.	As per BOQ
16	Annexure D	277	Please confirm the Class of Accuracy requirement since the quantity is not specified in this document for each Class and we will offer Class 0.5S meter.	As per BOQ
17	Annexure F Part-III	283	In RFP The following reference size may adhere to irrespective of single or multiple communication options provisioned on the same module. This standard form factor and dimensions will enable physical and functional interoperability with different makes of meters. it may not be feasible to Integrate / Interoperate the NIC Module of various Manufacturers unless otherwise, it shall require NEW DEVELOPMENT of every Meter Manufacturer. Therefore, we request to kindly remove this requirement and accept Manufacturers Design instead of Module Design	As per RFP
18	Digital Input (DI)	132	Kindly clarify how Digital Input will be used in the field for HT Feeder and LT DT Meters.	No comments
19	Annexure N	299	We will offer 75/5A and 50/5A Bar type CT & for CT ratio 100/5A -Bar & Ring Type other than then150/5A to 1000/5A Only ring type CT provided.	As per RFP
20	GTP -49	266	kindly accept the (-) head-type screws. which is more suitable.	As per RFP
21	Annexure N	301	In RFP required Bore diameter of the CT shall not be less than 40 mm. Ring type We request you kindly reconfirm your requirement as these CTs have installed in SMC Box or transformer directly. Kindly clarify the same.	As per RFP
22	Annexure N	301	In RFP required CT ratio required 50 to 1000A for DT transformers up to 1000KVA Need to be confirmed for Indoor CT ratio(which is fixed in SMC & Outdoor CT ratio(which is mounted on the transformer directly)	As per RFP
23	Annexure O	303	In RFP required:-Specifications of 1-ph and 3-ph Polycarbonate Meter Box and 2:1 & 4:1 Meter Box for 1-ph Consumers We will propose a 1:1 meter box for 1P and 3P consumer	As per RFP

24	Annexure P	307	In RFP Box and CT chamber with SMC lid/shed fitted with the base by two nos. concealed brass hinges. We will offer Stainless Steel Hinges to be fitted with the Meter Box Body Base and the Cover. Stainless steel has more strength as compared to Brass and has corrosion resistance properties. Kindly confirm the acceptance.	As per RFP
25	Annexure T: Specification of Polycarbonate Seals.	323	Specification of Poly Carbonate Seals required for Sealing of Single / Poly Phase Meters. We request you to kindly confirm, Number of seals for each meter.	As per Meter sealing requirement
26	EMD related In Form-20 (Integrity Pact)	38 & 119	Section 5: Page 119: 1) clause no 5.2 it is mentioned that Bid security/EMD shall be valid for upto a period of 10 years. Section 3 Page no.38 2) Where as per ITB clause no 12.3 : The Bid security shall be valid for 90 days beyond the end of the validity period of bid specified in ITB 12.1 (ie. 180 days). We request you to kindly confirm/amend the EMD validity for 90 days beyond the end of the validity period as per ITB.	Bid Security/EMD shall be valid for a period of 10 years
27	EMD/ BG related	82	EMD/PBG can be provided from Scheduled Small finance banks, Standard Chartered Bank and EXIM Bank also.	As per RFP
28	Payment related		Any Govt Subsidy/ Grant against consumer electricity consumption bill provided by State Govt, will also be part of funds available for Direct Debit for payment AMISP Service charges through direct debit mechanism	No comments
29	General		The estimated Bid Value indicated above is being declared solely for the purpose of guidance on the EMD amount and for determining the Eligibility Criteria related to Turn Over, Past Performance Projects / Past Experience etc. This has no relevance or bearing on the price to be quoted by the bidders and will also not have any impact on bid participation. Also, this is not going to be used as a criterion in determining the reasonableness of quoted prices which would be determined by the buyer based on its own assessment of reasonableness and based on competitive prices received in the Bid / RA process	No comments
30	Single Phase 5-30A/10-60A meter	Page 124 of 429 /Sr.No.38, Page 261 of 429/Annexure-A	Adaptability between NAN and WAN communication is possible through firmware up-gradation. Kindly we request to accept the same.	As per RFP
	3 Phase 10-60A/20-100A meter	Page 128 of 429 / Sr.No.38, Page 269 of 429 / Annexure-B		
31	Single Phase 5-30A/10-60A meter	Page 259 of 429	Kindly accept physical SIM card of any service provider alternatively.	As per RFP
	Three Phase 10-60A/20-100A meter	Page 267 of 429		
	HT meter	Page 276 of 429		
32	Single Phase 5-30A /10-60A meter: Communication	Page 259 of 429	Kindly accept the 'Plug-in communication module removal' event as per corresponding part of IS 15959. 'Plug-in communication non-responsive' event is not supported by corresponding part of IS 15959 and same may be deleted from spec.	As per RFP

	three Phase 10-60A/20-100A meter:	Page 267 of 429 LTCT Meter Page 273 of 429		
	HT meter:	Page 276 of 429		
33	LTCT meter:	Page 273 of 429 / Annexure-C	Kindly note that recurring cost will be more with two SIM cards. You are requested to accept single physical SIM card of any service provider alternatively.	As per RFP
	HT meter	Page 276 of 429/ Annexure-D		
	HT meter:	Page 133 & 277 of 429	Please confirm the current rating of the meter is - /5A or -/1A. We request to accept the current rating of the meter is -/5A and accuracy of the meter is 0.5s.	As per BOQ
34	HT meter:	Page 133 & 277 of 429	We request to amend as the class of accuracy is 0.2s or 0.5S.	As per BOQ
35	Clause 2.3 – HES	Page 172 of 429	We request to accept the HES System on windows based platform.	As per RFP
36	Clause 2.3 – HES	Page 172 of 429	This is not practicable to read meter data with a frequency of 15 min interval meter reads. Please accept meter data reading frequency for every 4 hours alternatively.	As per RFP
37	Clause 2.3 – HES	Page 173 of 429	We need to manually enter the details of all the Smart Meters into HES. Profile shall be downloaded automatically at the time of schedule. HES shall store meter profile status by meter type, software versions, device IDs. Hardware version, logged in / logged out requirements are not understood, kindly we request to clarify the same.	As per RFP
38	Clause 2.3.1 – HES – Configuration_p	Page 174 of 429	Kindly provide the list of monitored parameters and please note that same parameter can be configured in HES only. However programmable parameters shall be in line with IS 15959 Part 2 or 3 depend on meter category.	As per RFP
39	Clause 3.2_HES Integration with Field Devices	Page 214 of 429	We provide HES as per relevant IS 15959 and MIOS standards. Kindly we request to accept the same.	As per RFP
40	Annexure F	Page 280 of 429	Kindly accept manufacturers design instead of module design mentioned here under, considering the following drawbacks with change in module design. 1. Design evaluation shall be affected. 2. Cost reduction shall be affected. 3. Product reliability shall be affected. 4. Distractive tests compatibility may affect the module. 5. BIS certification for Smart Meter shall be provided for the complete unit including the communication module. If the communication module is changed then existing BIS shall not be valid.	As per RFP
41	“Bill of Materials and Services for Smart Meters” Table Sr. No. 1.9 & 1.10 And Also Mention in BOQ	Page no. 153	The specification of three phase CT/PT operated Smart Meter Box are not attached with technical specification . If it is required, kindly we request to provide the same.	As per RFP
42	“Brief Scope of Work	Whereas Page no. 160 A (h)	Both mentioned requirement are contradictory we request you to please clarify whether Distribution box is in the scope of bidder or not, as the specification of Distribution box is not attached. If it is required kindly provide	As per BOQ
43	“Brief Scope of Work”	Page no. 160 A (i)	The specification of Cabinet Box is not attached with technical specification. If it is required, kindly we request to provide the same.	As per BOQ

44	"Inspection	Page no. 266 Sr. No. 49	Alternatively, Slotted headless Grub/Set Screws for Terminal screws may also be accepted. Kindly confirm the acceptability of the same.	As per RFP
45	"Annexure –N "Specifications of CT for LT-CT meters". "TECHNICAL DETAILS"	Page no. 299	We request to also accept the secondary leads terminals of the CT with brass Material. Kindly confirm the acceptability of the same.	As per RFP
46	"Annexure –N "Specifications of CT for LT-CT meters". "TECHNICAL DETAILS"	Page no. 301	We request you to kindly accept the CT bore diameter as per manufacturer standards. Kindly confirm the acceptability for the same..	As per RFP
47	"Annexure –N "Specifications of CT for LT-CT meters". "TECHNICAL DETAILS"	Page no. 301	We request to kindly reconfirm your requirement as these CTs have installed in SMC Box or panel board. Kindly clarify the same meters".	As per RFP
48	GENERAL CONSTRUCTIONS" (iv) Table Sr. No. (i)	Page no. 305	We request you to kindly accept 20 mm minimum gap between sides of the meter body and meter box. Kindly confirm the acceptability for the same.	As per RFP
49	Annexure – P 2nd Para "Constructional Features of Meter Box" Same Clause 4th Para	Page no. 307	As the Meter Box shall have two chambers, upper chamber to house 3 phase meter and lower chamber to house 04 nos. ring type LT CTs. So in that case, as per specification requirement of both chambers independent from each other is not safe for ingress of protection (IP). We shall provide the Meter Box with upper chamber overlapped on the lower chamber, for ingress protection of dust and water. So we request you to please delete these clauses and kindly confirm	As per RFP
50	Annexure –P 5th Para "Constructional Features of Meter Box"	Page no. 307	Please also accept Stainless steel hinges to be fitted with the meter Box body base and the cover. Stainless steel has more strength as compared to brass and has corrosion resistance properties. Kindly confirm the acceptance	As per RFP
51	Annexure –P 6th Para "Constructional Features of Meter Box"	Page no. 307	Please also accept the viewing Window in polycarbonate material having minimum thickness of 2.0 mm. Kindly confirm the acceptability of the same	As per RFP
52	Annexure –P 1st Para "Material Of Meter Box:" On same clause 2nd Para	Page no. 308	Both the above requirements are contradictory. Please amend the material of meter box as SMC instead of polycarbonate. Kindly confirm the same.	Both accepted

53	Annexure –P “Rating Plate”.	Page no. 308	<p>Following details shall be provided as printed on metallic name plate duly riveted on meter box cover.</p> <ul style="list-style-type: none"> • Name of Manufacturer • Year of manufacturing • Type of Meter • PO NO with Date • Meter Box Number • Property of UTILITY <p>We cannot understand the requirement of the detail of ‘Type of Meter’ on the SMC box. Please explain.</p>	As per RFP
54	Section 2. Eligibility Requirement		<p>Sole/ Lead Bidder must have either:</p> <p>(a) paid for, or received payments for, construction of Eligible Project(s);</p> <p>Or</p> <p>(b) paid for development of Eligible project(s) in the Infrastructure sector in the last 7 (seven) Financial Years in India/Global Utility with aggregate project value of not less than INR [50% of the Estimated Project Cost]</p>	As per RFP
55	Section 2. Eligibility Requirements		<p>Kindly amend the clause as:The Sole/ Lead Bidder should have a valid pre-qualification and technical empanelment certificate for the required communication technology, issued by REC and approved by the committee “constituted vide the letter issued by the Ministry of Power F.No.14/02/2021-UR&SI-II-Part(1)-(E 258136) dt. 10th January 2022, at the time of bid submission.</p>	As per RFP
56	Section 2. Eligibility Requirements		<p>Since intended delivery of the project is providing SLA driven meter data services through AMI implementation, any prior experience of providing metering services in India or globally should be allowed.</p>	As per RFP
57	Annexure: Quoted prices for the Financial Bid.		<p>We understand these sections are specific for RF & PLC only. We understand that relevant points to cellular technology under the section of NMS shall be applicable for bidders with cellular comms</p>	No comments
58	Section 5. Financial Proposal –Forms		<p>Specifications for Boxes for CT/PT operated HT meter is not available in the tender document. Request to please provide the same. In case CTs for HT Feeder meters is in scope of Utility, may please provide the rating and specifications.</p>	As per RFP. CT will be provided by utility
59	Section 6. Project Requirements		<p>For better understanding However, after closure of contract any applicable recurring cost for operation & Maintenance of deployed AMI system like network service provider charges, cloud hosting charges, communication charges, change request, license fee, ATS, etc. shall be borne by utility.</p>	As per RFP
60	Section 6. Project Requirements		<p>The supply and installation of service cable should be in the scope of utility. We understand that service cables are not part of BOQ and hence not included in the scope of AMISP. Please clarify</p>	As per BoQ
61	Section 6. Project Requirements		<p>There are many benefits of having prepaid features at meter end, as the meter can calculate the account balance own its own based on the real time consumption and tariff configured in it , thereby making the meter self-resilient and less dependent on WAN communication network</p>	As per RFP
62	Section 6. Project Requirements		<p>The Distribution Boxes shall be in scope of Utility. Also, in cases where LTDB and fuse boxes are not available, please confirm the scope of AMISP in terms of laying of cables. We request to provide Single Core Cable instead of 3.5 Core cables which would reduce the installation timings and increase durability. We also request you to please consider Butterfly CTs for ease of Installation</p>	As per BoQ
63	Section 6. Project Requirements		<p>Installation of service cables, power cables, distribution boxes and any civil works shall be in scope of Discom.</p>	As per RFP

64	Section 6. Project Requirements		The same is not included in Bill of Quantities, hence please exclude the same from AMISP	No comments
65	Section 6. Project Requirements		The service cables shall in the scope of utility and hence this clause regarding supply and installation of service cables will not be applicable to AMISP. Utility to ensure that the cables are terminated from poles to meter terminal at consumer premises. The scope of AMISP shall be limited to replace the existing meter or install the new meter at consumer premises.	As per RFP and BoQ
66	Section 6. Project Requirements		Please provide existing network diagram	No comments
67	Section 6. Project Requirements		Additional software/hardware is not required. HES is a browser-based application and complete responsibility to run the system should be with AMISP.	As per RFP
68	Section 6. Project Requirements		Load survey data can be further used for reporting and analysis. Kindly accept the same.	As per RFP
69	Section 6. Project Requirements		Device management functionality to get periodic updates from devices on health check, firmware version etc.	As per RFP
70	Section 6. Project Requirements		HES will be able to accept data from the offered smart meters which is certified as IS 16444 part 1. Offered smart Meters is also complaint to IS 15959 part-2.	No comments
71	Section 6. Project Requirements		Offered smart Meter with comms module will have data push mechanism to HES as defined in schedule and push last incremental data to HES.	As per RFP
72	Section 6: Cyber Security – General Guidance, 2.7.7 (d)(c)		The scope of data for encryption shall be specified.	As per RFP
73	Section 6: Cyber Security – General Guidance, 2.7.7 (d)(e)		All adjacent zones” is an open-ended statement leaving it open to security risks due to unauthorised access. Hence, it was specifically clarified that the internal users shall be provided access only through interfaces.	As per RFP
74	Section 6: Cyber Security – General Guidance, 2.7.7 (d)(f)		There was no definition or clarification on what is considered as cyber security items. This was changed to clarify our understanding of scope of cyber security items that will be considered for testing	As per RFP
75	Section 6: Cyber Security – General Guidance, 2.7.7		In case of virtual environment, there will be no cable plug in/out. The scope of logs has been specified. All security events/logs will be logged and forwarded to the log collector	As per RFP
76	Section 6: Cyber Security – General Guidance, 2.7.7 (d)(j)		The period and frequency of third-party VAPT has been specified. VA and PT shall be carried out prior to deploying the system on SAT from CERT-In certified auditors. Thereafter, VA and PT will be performed annually.	As per RFP
77	Section 6: Cyber Security – General		The period and frequency of third-party audit has been specified. Third party audit shall be carried out prior to deploying the system on SAT. Thereafter, third party audit shall be carried out annually.	As per RFP
78	Section 6 Project requirements;		In NOMC hardware requirement, 48 port router is asked for which is not feasible as routers do not come with 48 ports. Thus with current hardware description we will be unable to supply specified router.	As per RFP
79	Section 6 Project requirements		This should be changed as; Dual internet connectivity with appropriate bandwidth to run NOMC operations smoothly	As per RFP
80	Section 6 Project requirements		Please amend this clause as per Standard Bidding Document issued by REC as: RTO= 12 Hrs, RPO = 4 Hrs	As per RFP

81	Section 6: Cyber Security – General Guidance, 2.7.7		Cyber security is a joint effort between AMISP & utility with equal responsibility and accountability. CEA is already working on cybersecurity guidelines for power system including smart metering. Therefore, other general guidance documents referred in the clause should be taken for guiding principles only.	As per RFP
82	Section 6: Cyber Security – General Guidance, 2.7.7		Vulnerability assessment tools will be used to identify the security threats and vulnerabilities	As per RFP
83	Section -6 , Clause 3.2 HES Integrations with Field Devices and MDM		The data from HES shall be exported to MDM through REST based Web services on SFTP Protocol	As per RFP
84	Section 6 Project requirements		Power availability details, power cut, voltage & current variation details including loading & unloading DT/Feeder would be available	As per RFP
85	Section 6 Project requirements		Tamper Alert: as per IS 15959 Part 3	As per RFP
86	Section 6. Project Requirements		As the project is on DBFOOT basis, hence 20% penalty is on too higher side. So request you to please amend the clause as “The total penalties under SLA categories are capped at [10%] of AMISP Service Charge.”	As per RFP
87	Section 6. Project Requirements		Kindly remove the requirement of integration test from FAT as bidder have empanelment certificate for the required communication technology, issued by REC and the testing done for integration is already covered in the testing procedure of REC	As per RFP
88	Section 6. Project Requirements		The Dual sim meter would have following issues: 1) We understand that the meter shall accommodate any one of the 4 options i.e. “dual SIM Card / e-SIM of any service provider/multinetwork / dual-profile SIM” and multinetwork here is being referred to 4G fall back to 2G in single SIM. 2) Monthly SIM Recurring expenses will be 2 times, thus would impact the utility economically. 3) The Dual Sim provision in the meter would increase the sizing of meter and thus additional hardware cost would be borne by utility 4) The network strength for one particular network can't be determined in case of Dual sim. 5) It will increase the VA burden and Power consumption in the meter The meter do not have provision to accommodate e-SIM	As per RFP
89	Section 6. Project Requirements		Device level interoperability through plug and play type communication module as envisaged in the tender will have associated implementation challenges like Project implementation cost & time, Post implementation warranty and guarantee conditions & composite field testing. We recommend the Utility shall focus on end to end data delivery as per SLA and asset shall comply with relevant standard.Requesting you to please remove the requirement of plug-in type communication module along with provision of field swappable/ replaceable comms module.Request you to please amend the clause.	As per RFP
90	Section6. Project Requirements: AnnexureO, Technical Requirements		Meter box is complying with IP54 and suitable for outdoor application. Kindly accept the same.	As per RFP

91	Section 6. Project Requirements: AnnexureO, Technical Requirements		Meter box is complying with IP54 without any gasket in our design and suitable for outdoor application. Kindly accept the same.	As per RFP
92	Section 6. Project Requirements: AnnexureO, Technical Requirements		Kindly accept manufacturer specific design complying with IS14772. i. Between Sides of the meter body and meter box : 20mm v. Between the top of the meter and the meter box cover: 15mm	As per RFP
93	Section 6. Project Requirements: AnnexureO, Technical Requirements		Kindly accept manufacturer specific design complying with IS14772.	As per RFP
94	Section 6. Project Requirements: AnnexureO, Technical Requirements		Kindly accept manufacturer specific design complying with IS14772. ix. For fixing the box to flat wall or wooden board 4Nos. /3Nos. holes (2 / 1 Nos. key holes at top) of minimum 6 mm dia. shall be provided at the four / Three corners of the meter box. For fixing of Box on flat wall, 4 Nos. /3Nos 5mm diameter 40mm long, pan head self- tapping screws and washers shall be provided by the supplier with every Box. 4 Nos. /3Nos plastic fixing plugs of 50mm length suitable for self-tapping screws shall also be provided.	As per RFP
95	Section 6. Project Requirements: AnnexureO, Technical Requirements		Kindly accept manufacturer specific design complying with IS14772. Meter have BLE communication so that meter reading can be possible without opening of meter box.	As per RFP
96	Section 6. Project Requirements		Since application & infrastructure at DT metering does not have auxiliary supply as a general practice in PAN India. So, in case of power off condition, Digital input would not suffice the requirement. We would like to propose, instead of Digital input, meter itself should have provision to take Smart decisions with calculating electrical parameters. Parameters like over loading, unbalance of phases could be measured by meter itself & should send the same to backend HES. Requesting you to please remove the requirement of Digital Inputs.	As per RFP
97	Section 6. Project Requirements		Design & pin configuration specified in Annexure F of the tender is very design specific requirement and it is not yet standardized. We recommend the Utility shall focus on end to end data delivery as per SLA and asset shall comply with relevant standard	As per RFP
98	Annexure H		Kindly remove the requirement as demand side management shall be in scope of utility.	As per RFP

99	Section 6. Project Requirements		Kindly amend the clause as: SN o LTCT Consumers/DT rating CT Ratio 1. >10 kVA upto 30kVA 50/5 wound primary type CT 2. >30kVA upto 47kVA 75/5 wound primary type CT 3. >47kVA upto 63 kVA 100/5 Ring Type CT 25 to 30 mm ID 4. >63 kVA upto 94 kVA 150/5 Ring Type CT 30 to 35 mm ID 5. >94kVA upto 125kVA 200/5 Ring Type CT 30 to 35 mm ID 6. Not readily available in market 7. >187kVA upto 250kVA 400/5 Ring Type CT 35 to 40 mm ID Bore diameter of the CT shall be as per current rating. Ring type CTs shall have suitable clamp	As per RFP
100	Section 6. Project Requirements		Metallic rating plate shall be provided. The Rating plate parameters shall be mutually agreed at the time of Order.	As per RFP
101	Section 6. Project Requirements		The service Cables and DT cables are not part of BOQ. Hence the same is not applicable in scope of AMISP.	As per BoQ
102	Section 6. Project Requirements		Kindly accept seal with 0.8mm thickness	As per RFP
103	Section 6. Project Requirements		Kindly accept seal with laser marking of text " as per previous supplies to Electricity Department"	As per RFP
104	Section 6. Project Requirements		Kindly accept transparent seal without any color	As per RFP
105	Section 6. Project Requirements		Kindly accept seal with sealing wire of 0.7 to 0.8mm diameter.	As per RFP
106	Section 6. Project Requirements		It seems typo error kindly accept the seals with melting temperature >144 degree C	As per RFP
107	Section 6. Project Requirements		Please confirm the quantity of Piercing Connectors Also confirm price to be considered against which line item.	As per BoQ
108	Section 7. Contract Forms and Conditions of Contract		Inclusion of other force majeure factors as well g. Strike, sabotage, lockout, embargo, import restriction, port congestion, lack of usual means of public transportation and communication, industrial dispute, epidemics, quarantine and plague or other natural or physical disaster as declared by competent authority h. If the underlying technology gets obsolete/wipes out from market. i. Change in law; Expropriation or compulsory acquisition of the Project by any competent authority other than utility	As per RFP
109	General Conditions of Contract, Clause 4.2		Kindly amend the clause as : Unless extended by mutual consent of the Utility and AMISP, after the Contract Period the ownership, rights and title of the installed AMI system and other equipment (if any) installed by AMISP for operation of the AMI system pursuant to this Contract shall be transferred to the Utility without any cost. However, a consortium member other than a lead bidder could be a subcontractor to the selected bidder to fulfil its obligations under the AMISP Contract. The subcontractor must comply to necessary requirements as provisioned under this RFP. Smart metering comprises of multiple components and to complete the implementation in the intended timelines maximum industry association will be required	As per RFP
110	Section 7. Contract Forms and Conditions of Contract		Kindly incorporate capping of LD as "the deduction on account of liquidated damages & noncompliance to SLA shall be capped to 10% of the previous month service charges.	As per RFP

111	Section 7. Contract Forms and Conditions of Contract		Kindly include other avenues of revenue collection as well like cheque, demand draft, cash payment at kiosks or payment counters, etc	As per RFP
112	Section 7. Contract Forms and Conditions of Contract		Since the project is based on capex + opex model, it is required to provide payment security to the developer. Also carrying forward direct debit of any month's invoice in subsequent months may lead to reconciliation challenges. So there should be option for separate payment of AMISP monthly fees in a time bound manner for cases of shortfall in direct debit method due to any reasons thereof	As per RFP
113	Section 7. Contract Forms and Conditions of Contract		Since the clause will have major commercial implications during the bidding, it's can't be left open ended. The project is Totex based, AMISP shall be remunerated separately for the capex incurred in replacing those meters which are damaged due to reasons beyond AMISP's control	As per RFP
114	Section 7. Contract Forms and Conditions of Contract		Inclusion of condition of termination due to force majeure	As per RFP
115	Section 7. Contract Forms and Conditions of Contract		Since the project is based on capex + opex model, AMISP will also be affected from delayed execution. 50% of AMISP fees for 12 months is way too high.	As per RFP
116	Section 7. Contract Forms and Conditions of Contract		Clarity is required since the provision was left open ended	As per RFP
117	Section 7. Contract Forms and Conditions of Contract		Please provide clarity against this clause	As per RFP
118	General Conditions of Contract, Clause 11.5.7.		For Clarity amend the clause as: Kindly a. Execute all documents that may be necessary to effectively transfer the ownership and title, including OEM warranties in respect of all equipment deployed for the project; b. Handover all related documentation and other Configurable Items, if any in his possession and is not infringing the intellectual property rights of the AMISP or any of its subcontractor; c. Handover the list of all IT Assets, passwords at all applicable locations to Utility	As per RFP
119	General Conditions of Contract, Clause 14.1.		Clarification of scope Kindly amend the clause as: of Change Notes arise due to change in the number of meters against the numbers agreed for the project. Negative variation is permissible only up to the "Installation Milestone". Positive variation is however possible at any time during the Contract Period and shall be because of following reasons: a. Meter installation for new connections b. New meter provisioning due to smart Meters supplied and installed by the AMISP is damaged for reasons not attributable to the AMISP such as theft, vandalism, burning, etc. c. New meter provisioning for replacement/reinstallation of smart Meters supplied and installed by the AMISP due to any force majeure condition variation allowed cannot be more than the minimum and maximum numbers, as specified in SCC.	As per RFP

120	B. Preparation of Proposals 16.4		As the LTCT and HT meters installed at Consumer metering end, shall have the same meter, which is being supplied for Feeder and DT metering (with different configuration as per application), we request to please update the Lumpsum payment as: <input checked="" type="checkbox"/> Single Phase Meter: : INR 900.00 per meter <input checked="" type="checkbox"/> Three Phase WC Meter: INR 1350 Per meter <input checked="" type="checkbox"/> LTCT Meter: INR 3450.00 per meter <input checked="" type="checkbox"/> HT Meter: INR 6300.00 per meter	As per RFP and BoQ
121	Section 2, Clause 8.1 Point 2	18	We request you to consider this clause should be complied by Sole/ Lead Bidder/ any other Consortium Member / any other Sub-Contractor.	As per RFP
122	Section 2, Clause 8.1 Point 4	19	We request you to consider this clause should be complied by Lead Bidder.	As per RFP
	Section 2, Clause 8.4 Point a(ii)	25		
123	Section 5 Financial Forms Section B: Auxiliary LT Items, BOQ Section B	SBD Doc 154-155	The Line of items mentioned in section Financial forms Section B : Auxiliary LT Items are not matching with the BOQ section B Kindly amend.	As per BoQ
124	BOQ Section B	SBD Doc 155	As the BOQ is a Locked File. Please add the Qty against each Line of Items in the Section B BOQ. Also please note that there is a calculation error in Row BB21 as the total calculation is not adding up. Kindly amend.	Section B quantity as per BoQ
125	General List of Materials and Services for Infrastructure for Recharge through Feature Phones / Offline Channels [Indicative Only. To be defined by AMISP]	SBD Page no. 104	As per the discussion held in the Pre-bid meeting, We understand that the scope of the recharge centre is not required. Kindly confirm.	As per RFP
126	Section 3. Instructions to Bidders and Bid Data Sheet	38	Clause as per RFP 12.3 Pursuant to ITB 12.2, the Bid Security shall be a demand guarantee, and in any of the following forms, at the Bidder's option: (a) an unconditional bank guarantee issued by any of the banks mentioned in BDS; (b) Bid Security in other forms, if specified in the BDS. In the case of a bank guarantee, the Bank Guarantee for Bid Security shall be provided by the Lead Consortium Member/ Sole Bidder in the format prescribed in Form 6 included in Section 4, Bidding Forms - Technical Proposal. The bid security shall be valid for 90 (ninety) Days beyond the end of validity period of the Bid specified in ITB 12.1. This shall also apply if the period of the Bid validity is extended. <u>Query</u> Request You to Kindly share bank account details of TCED Power department for Bid Security.	Not Required Refer www.e-tenders.Kerala.gov.in

127	Section 6. Project Requirements Project Implementation Schedule- In page 256 of SBD, it is mentioned that the installation milestone - Within 6 months from the date of execution of the Contract.	256	Query- In page 256 of SBD, it is mentioned that the installation milestone - Within 6 months from the date of execution of the Contract. In Page 1 of tech_prebid_841612 Sl. No: 5 Reply from TCED Project Implementation Clarification content is missed. Kindly please provide in detailed.	Milestone for installation of meter with applications 6months and Milestone for complete project implementation – 10 months from award.
128	Tendernotice_1 (7) Pdf	Pg.No:2	Clause as per Tender Notice MSME with Udyog Aadhar Registration are exempted from furnishing EMD and Bid submission fee. (Scanned copy of valid Udyog Aadhar registration certificate for MSME shall be uploaded). Query: Kindly Provide confirmation on these Clause because in tender document it is not specified. Is the Medium Enterprises with Udyam Registration number exempted from the furnishing EMD and Bid submission fee. Please clarify. Clause as per Tender Notice EMD and nonrefundable Tender document fee shall be remitted online through SBI MOPS Gateway. No other Modes of Payment will be allowed. Tenderer should ensure that tender document fee and EMD are remitted as one single transaction and not separate. Query. As per the Tender document Pg.No:38 12.3 Pursuant to ITB 12.2, the Bid Security shall be a demand guarantee, and in any of the following forms, at the Bidder's option: (a) an unconditional bank guarantee issued by any of the banks mentioned in BDS; (b) Bid Security in other forms, if specified in the BDS. In the case of a bank guarantee, the Bank Guarantee for Bid Security shall be provided by the Lead Consortium Member/ Sole Bidder in the format prescribed in Form 6 included in Section 4, Bidding Forms - Technical Proposal. The bid security shall be valid for 90 (ninety) Days beyond the end of validity period of the Bid specified in ITB 12.1. This shall also apply if the period of the Bid validity is extended. Clarification: Please Provide clarification on which mode Bid Security	As per NIT

129	“Bill of Materials and Services for Smart Meters” Table Sr. No. 1.9 & 1.10 And Also Mention in BOQ	Page no. 153	Three phase CT/PT operated Smart Meter(with Net- Metering) – HT Consumer Meter with control cables, with DI provisions Meter Box and Back-end IT Infra with associated works and requisite no. of polycarbonate seal. (CT PT set to be arranged by utility) Three phase CT/PT operated Smart Meter (Import/export) – Feeder Meter with CTs, control cables, with DI provisions Meter Box and Back-end IT Infra with associated works and requisite no. of polycarbonate seal The specification Three phase CT/PT operated Smart Meter Box are not attached with technical specification. If it is required, then kindly provide the same.	Meter Box not required for HT Consumer meter
130	A (h) “Brief Scope of Work”	Page no. 160	Installation of Distribution Box and laying of service cable from LT line to meter and from Meter to consumer premises, removal of existing cable, if required, connection, taping, Laying of DT cables from DT through LTCT meters to LTDB/Fuse Box, wherever applicable. Material, tools and other accessories (not covered in BoQ) required for dismantling, civil work and installation of the new meter, shall also be in the scope of AMISP. The specifications of Distribution Box are not attached with technical specification. If it is required, then kindly provide the same.	Not Required
131	A (i) “Brief Scope of Work”	Page no. 160	Installation of 9x1 Cabinet boxes with requisite cabling wherever applicable . The specification of Cabinet Box is not attached with technical specification. If it is required, kindly provide the same.	Not Required
132	Annexure –P 1 st Para “Material Of Meter Box:” On same clause 2nd Para	Page no. 308	Material for construction of meter box shall be glass reinforced polyester sheet moulding compound (SMC) as per IS:13410:1992 Grade S-1 with latest amendment thereof. The meter box shall be weather proof, tamper proof and shall be made of Injection moulded reinforce polycarbonate material with FV0 fire retardant, self-extinguishing, UV stabilization and Anti oxidation properties. Both the above requirements are contradictory. Please amend the material of meter box as SMC instead of polycarbonate. Kindly confirm the same.	No Contradiction. The bidder is advised to read the specification completely. First para is for LTCT SMC Box and the second is for LTCT Polycarbonate Box.
133	Annexure –P “Rating Plate”.	Page no. 308	Manufacturers should Screen Print the following information on each meter box. <ul style="list-style-type: none"> • Name of Manufacturer • Year of manufacturing • Type of Meter • PO NO with Date • Meter Box Number • Property of Utility Following details shall be provided as printed on metallic name plate duly riveted on meter box cover. <ul style="list-style-type: none"> • Name of Manufacturer • Year of manufacturing • Type of Meter • PO NO with Date • Meter Box Number • Property of UTILITY We cannot understand the requirement of the detail of ‘Type of Meter’ on the SMC box. Please explain..	TCED expects the bidder to understand the requirement.