

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation	Tata Power Response
1	2	3	4	5
1	EMD conditions	EMD - INR 20 Lakhs	What is the EMD value of this tender?	Please refer to 'Corrigendum - TPC Tender CC25DPP034 Smart Meters
2	General Query		How to get Ariba Link for this event?	Bidder shall have to share the following details on email and seek the ariba access for this event.  Organization Name: Address: City: Pin code: Phone no: Ariba Login ID: Email on which Event details to be received:
3	Meter sample Tender condition 1.4 Mandatory requirement	1.4.4 Drawing, Type Test details along with a sample of each item as specified at Annexure I (as applicable)	Where shall the bidder submit his meter samples	Meter samples shall be submitted by contacting Ms. Himali Patel at the following address The Tata Power Company Limited, Dharavi Receiving Station, Near Shalimar Industrial Estate, Matunga, Mumbai 400 019.
For 1P SMART METER (10-60)				
4	Please refer, Clause no. 8, 'METER BODY'	Meter base shall be opaque with polycarbonate LEXAN 500R or better on prior approval from the Purchaser.  Similarly in, same clause it has been mentioned that Meter cover shall be transparent with polycarbonate LEXAN 143R/943A or equivalent on prior approval from the Purchaser.	Please also accept equivalent material like, LEXAN 143/143R for Meter base also. Since, the same material grade is also accepted for Meter cover. Since, it is also a superior grade material if using same material we can achieve good ultrasonic welding. Request you to please also consider the same.	tender specification is to be complied
5	Please refer, Clause no. 9, 'Terminals, Terminal Block	Terminal block should be in single mould with meter body base. (Not separate)	Kindly note that terminal block shall have top sliding arrangement with proper grooves and after fixing the meter cover it becomes integral part of the meter. We request you to kindly accept the same.	tender specification is to be complied
6	Please refer, Clause no. 9, 'Terminals, Terminal Block	The material of which the terminal block is made shall be capable of passing the test given in ISO 75 for temperature of 180°C and pressure of 1.8 M Pa. Tested as per ISO 75-2/A or ASTM D648.	We request you please accept the properties with its typical values for Meter of polycarbonate material - Heat Deflection Temp. -135° C  As per material manufacturers of transparent polycarbonate the HDT value of polycarbonate varies from 135° C as per IS 13779. We request you to kindly confirm the same	tender specification is to be complied
7	Please refer, Clause no. 9, 'Terminals, Terminal Block	Depth of the terminal holes shall be of 25 mm.  Similarly in clause no. 4.27 "GENERAL TECHNICAL REQUIREMENTS" it is mentioned that Depth of the terminal holes 25mm.	Kindly accept the same as per IS 13779.	The same shall be evaluated during tender sample testing.
8	Please refer, Clause no. 9, 'Terminals, Terminal Block	Clearance between adjacent terminals shall be 10 mm.  Similarly in clause no. 4.28 "GENERAL TECHNICAL REQUIREMENTS" it is mentioned that clearance between adjacent terminals shall be 10 mm.	We request you to kindly also accept clearance and creepage distance between adjacent terminals as per clause no. 6.60 of IS 13779 /CBIP 325. Please confirm the acceptability of the same.	The same shall be evaluated during tender sample testing.
9	Please refer, Clause no. 9, 'Terminals, Terminal Block	Terminal screws shall be of Zinc plated MS bottle type.	We could not understand the word "MS bottle type terminal" and request you to kindly clarify the same.	terminal screw shall be required as a self-thread with brass material
10	Please refer, Clause no. 9.1, 'Terminal Cover	Length of terminal cover shall not be more than 25 mm from bottom of terminal block in line with meter base.	Kindly also accept the terminal cover with 50mm length from bottom of terminal block in line with meter base. Kindly confirm.	tender specification is to be complied
For 3P SMART METER (10-100A)				

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation	Tata Power Response
1	2	3	4	5
11	Please refer, Clause no. 8, 'METER BODY'	Meter base shall be opaque with polycarbonate LEXAN 500R or better on prior approval from the Purchaser. Meter cover shall be transparent with polycarbonate LEXAN 143R/943A or equivalent on prior approval from the Purchaser.	Please also accept equivalent material like, LEXAN 143/143R for Meter base also. Since, the same material grade is also accepted for Meter cover. Since, it is also a superior grade material if using same material we can achieve good ultrasonic welding. Request you to please also consider the same.	tender specification is to be complied
12	Please refer, Clause no. 9, 'Terminals, Terminal Block	Terminal block should be in single mould with meter body base. (Not separate)	Kindly note that terminal block shall have top sliding arrangement with proper grooves and after fixing the meter cover it becomes integral part of the meter. We request you to kindly accept the same.	tender specification is to be complied
13	Please refer, Clause no. 9, 'Terminals, Terminal Block	The material of which the terminal block is made shall be capable of passing the test given in ISO 75 for temperature of 180°C and pressure of 1.8 M Pa.	We request you please accept the properties with its typical values for Meter of polycarbonate material - Heat Deflection Temp. -135° C  As per material manufacturers of transparent polycarbonate the HDT value of polycarbonate varies from 135° C as per IS 13779. We request you to kindly confirm the same	tender specification is to be complied
14	Please refer, Clause no. 9, 'Terminals, Terminal Block	Terminals shall be preferably of MS cage clamp type as per IS: 15707 or of flat end screw with at least 9 mm dia of screw for better contact area.	We request you to please also accept the M6 terminal screws having minimum 5.5 mm head dia. Please confirm	terminal screw shall be required as a self -thread with brass material
15	Please refer, Clause no. 9, 'Terminals, Terminal Block	Internal diameter of the terminal holes shall be minimum 9.5 mm; minimum clearance between adjacent terminals shall be 10 mm. Depth of the terminal holes shall be of 25 mm.  Similarly in clause no. 4.27 "GENERAL TECHNICAL REQUIREMNTS" it is mentioned that Internal diameter of the terminal holes 9.5 mm (minimum) Depth of the terminal holes 25 mm.	Kindly note that depth of the terminal hole is not specified in any standards relevant to Energy meters & provided as per manufacturer specific design. We request you to kindly accept the terminals as per IS 13779/CBIP 325.	The same shall be evaluated during tender sample testing.
16	Please refer, Clause no. 9, 'Terminals, Terminal Block	Clearance between adjacent terminals shall be 10 mm.  Similarly in clause no. 4.28 "GENERAL TECHNICAL REQUIREMNTS" it is mentioned that clearance between adjacent terminals shall be 10 mm.	<u>Comment:-</u> We request you to kindly also accept clearance and creepage distance between adjacent terminals as per clause no. 6.60 of IS 13779 /CBIP 325. Please confirm the acceptability of the same.	The same shall be evaluated during tender sample testing.
<b>For 3P SMART METER LTCT:-</b>				
17	Please refer, Clause no. 7, 'METER BODY'	Meter base shall be opaque with polycarbonate LEXAN 500R or better on prior approval from the Purchaser. Meter cover shall be transparent with polycarbonate LEXAN 143R/943A or equivalent on prior approval from the Purchaser.	Please also accept equivalent material like, LEXAN 143/143R for Meter base also. Since, the same material grade is also accepted for Meter cover. Since, it is also a superior grade material if using same material we can achieve good ultrasonic welding. Request you to please also consider the same.	tender specification is to be complied
18	Please refer, Clause no. 8, 'Terminals, Terminal Block	Terminal block should be in single mould with meter body base. (Not separate)	Kindly note that terminal block shall have top sliding arrangement with proper grooves and after fixing the meter cover it becomes integral part of the meter. We request you to kindly accept the same.	tender specification is to be complied
19	Please refer, Clause no. 8, 'Terminals, Terminal Block	Terminals shall be preferably of MS cage clamp type as per IS: 15707 or of flat end screw with at least 9 mm dia of screw for better contact area.	We request you to please also accept the M4 terminal screws having minimum 5.5 mm head dia. Please confirm	terminal screw shall be required as a self -thread with brass material
20	Please refer, Clause no. 8, 'Terminals, Terminal Block	Internal diameter of the terminal holes shall be minimum 5 mm; minimum clearance between adjacent terminals shall be 10 mm. Depth of the terminal holes shall be of 25 mm.  Similarly in clause no. 4.27 "GENERAL TECHNICAL REQUIREMNTS" it is mentioned that Internal diameter of the terminal holes 5 mm (minimum) Depth of the terminal holes 20mm.	Both are contradictory requirements and Kindly note that depth of the terminal hole is not specified in any standards relevant to Energy meters & provided as per manufacturer specific design. We request you to kindly accept the terminals as per IS 13779/CBIP 325.	The same shall be evaluated during tender sample testing.
21	Please refer, Clause no. 8, 'Terminals, Terminal Block	Clearance between adjacent terminals shall be 10 mm.  Similarly in clause no. 4.28 "GENERAL TECHNICAL REQUIREMNTS" it is mentioned that clearance between adjacent terminals shall be 10 mm.	We request you to kindly also accept clearance and creepage distance between adjacent terminals as per clause no. 6.60 of IS 13779 /CBIP 325. Please confirm the acceptability of the same.	The same shall be evaluated during tender sample testing.

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation	Tata Power Response
1	2	3	4	5
22	Please refer, <b>Clause no. 8, Terminals, Terminal Block</b>	Terminal screws shall be of Zinc plated MS bottle type.	<b>We could not understand the word "MS bottle type terminal" and request you to kindly clarify the same.</b>	terminal screw shall be required as a self thread with brass material
23	Clause No. 4.35 of single phase meter technical specification	Meter Dimension in MM: it is not more than <u>190L*150W*80H</u>	<b>Against the above said dimensional requirement our existing size of TPDDL Meter Casing size of 1P &amp; 3P Meter are as follows: 1. 1P Smart Meter: 262mm x 161mm x 104mm approx. (With Terminal Cover ) 2. 3P Smart Meter: 299mm x 193mm x 104mm approx. (With Terminal Cover )</b>	tender specification is to be complied
	Clause No. 4.35 of three phase Whole current Meter & LTCT meter Technical specification	Meter Dimension in MM: is not more than: <u>NF &amp; 250L*200W*100H</u>		tender specification is to be complied
24	Clause No. 4.35 of single phase meter technical specification	Meter Dimension in MM: it is not more than <u>190L*150W*80H</u>	<b>Against the above said dimensional requirement our existing size of TPDDL Meter Casing size of 1P &amp; 3P Meter are as follows: 1. 1P Smart Meter: 262mm x 161mm x 104mm approx. (With Terminal Cover ) 2. 3P Smart Meter: 299mm x 193mm x 104mm approx. (With Terminal Cover )</b>	tender specification is to be complied
	Clause No. 4.35 of three phase Whole current Meter & LTCT meter Technical specification	Meter Dimension in MM: is not more than: <u>NF &amp; 250L*200W*100H</u>		tender specification is to be complied
25	Scope of Supply	Design and Supply of 1 Ph, 3ph, LT CT Smart Meter with NIC (4G)	Do we need to quote for only design and supply in the price bid	Bidders only need to quote for design and supply.
26	Scope of Supply	EMD amount and Tender Fees	Ours is a MSME registered company and we kindly request you wave off the EMD amount and	Standard tender conditions and corrigendum thereof shall be applicable.
27	Calender of events	Date and time of opening of technical bid is not available	Request you to provide	Date and time of opening of the technical bids shall be informed to participating bidders over Ariba Portal.
28	Mandatory Documents	Drawing, Type Test details along with a sample of each item as specified at Annexure	Do we need to send sample for each item before the due date	Each sample items before due date
29	Mandatory Documents	Price Bid with breakup of AMC of existing system as per attached BOQ.	Do we need to quote for only design and supply in the price bid or including AMC also	AMC is not included in this tendering.
30	Mandatory Documents	Price Bid with breakup of Supply and installation as per attached BOQ	Do we need to quote for only design and supply in the price bid or for installation also	Installation is not included in tendering.
31	General Pre-Qualification Requirements	Registered Entity	Would like to know if consortium of atleast 3 members is allowed	Bidder should be Meter Manufacturer and should meet all criteria pertaining to meter manufacturing
32	General Pre-Qualification Requirements	Turnover - INR 100 CR	Ours is a MSME registered company and we kindly request you wave off the Financial requirement	tender specification is to be complied
33	Technical Experience - Meter Manufacturer	The bidder should have manufactured & supplied 2Lakh (Quantity) Number of Smart Meters in last 3 years as on original bid submission date. Out of which, minimum of 50,000 (Quantity) of Smart Meter should have been in satisfactory commercial operation with remote communication for a minimum period of 2 years as on original bid submission date.	Quantitative requirements may be waived off for MSMEs, to have a fair representation and end	tender specification is to be complied
34	Capacity	Bidder(s) should have experience of manufacturing capacity of smart electricity Meter	Quantitative requirements may be waived off for MSMEs, to have a fair representation and end	tender specification is to be complied
35	Bid Submission	Bids have to be mandatorily submitted only through Ariba portal of TPC.	Request you to provide username and password for purpose of bid submission	Bidder shall have to share the following details on email and seek the ariba access for this event.  Organization Name: Address: City: Pin code: Phone no: Ariba Login ID: Email on which Event details to be received:

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation	Tata Power Response
1	2	3	4	5
36	1.7 Qualification Criteria Part-B, point no. 2 (Turnover)	Minimum Average annual turnover of Rs. 100 Crores for the last three financial years ending 31 <sup>st</sup> March 2024.	Minimum Average annual turnover of Rs. 70 Crores for the last three financial years ending 31 <sup>st</sup> March 2024.	tender specification is to be complied
37	1.7 Qualification Criteria Part-C, point no. 1 (Technical Experience - Meter Manufacturer)	The bidder should have manufactured & supplied 2 Lakh (Quantity) Number of Smart Meters in last 3 years as on original bid submission date. Out of which, minimum of 50,000 (Quantity) of Smart Meter should have been in satisfactory commercial operation with remote communication for a minimum period of 2 years as on original bid submission date.	The bidder should have manufactured & supplied 50,000 (Quantity) Number of Smart Meters in last 3 years as on original bid submission date and these shall be in satisfactory commercial operation with remote communication.	tender specification is to be complied
38	TECHNICAL SPECIFICATION	Clause 4.35 - Meter Dimension in mm is not more than 190L*150W*80D.	Clause 4.35 - Meter Dimension in mm is not more than 190L*150W*80D excluding meter terminal cover or is not more than 210L*150W*80D including terminal cover.	tender specification is to be complied
39	For 1-Phase Smart Whole Current Meter	Clause 4.39 - Data structure is provided. Bidder shall ensure sequence and parameters accordingly.	Clause 4.39 - Data structure is not provided, kindly provide the same.	Request CC to reply.Data structure is already provided
40		Clause 13 Display units - The KWh register shall have minimum 7 digits and size of the digits shall be minimum 10mmx6mm.	Clause 13 Display units - The KWh register shall have minimum 7 digits and size of the digits shall be minimum 10mmx5mm.	The same shall be evaluated during tender sample testing.
41		Clause 4.27 - Internal diameter of the terminal holes: 9.5mm (minimum) Depth of the terminal holes: 25 mm.	Clause 4.27 - Depth of the terminal holes: 8.5 mm (minimum) as per Indian Standards. Depth of the terminal holes: 23 mm (minimum).	The same shall be evaluated during tender sample testing.
42	TECHNICAL SPECIFICATION For 3-Phase Smart Whole Current Meter	4.28 - Clearance and creepage distance between adjacent terminals: 10 mm (minimum) or better than IS.	4.28 - Clearance and creepage distance between adjacent terminals: 6.5 mm (minimum) or better than IS.	The same shall be evaluated during tender sample testing.
43		Clause 4.35 – is not more than NF.	Clause 4.35 – Specify dimensions or term "NF" mentioned in the corresponding point.	Meter dimension shall not be more than 200L*210W*100D in case of 3 phase whole current
44		Clause 4.39 - Data structure is provided. Bidder shall ensure sequence and parameters accordingly.	Clause 4.39 - Data structure is not provided, kindly provide the same.	Request CC to reply.Data structure is already provided
45		Clause 9 – Terminals, Terminal Block: Internal diameter of the terminal holes shall be minimum 9.5 mm; minimum clearance between adjacent terminals shall be 10 mm. Depth of the terminal holes shall be of 25 mm.	Clause 9 – Terminals, Terminal Block: Internal diameter of the terminal holes shall be minimum 8 mm; minimum clearance between adjacent terminals shall be 6.75 mm. Depth of the terminal holes shall be of 23.5 mm.	The same shall be evaluated during tender sample testing.
46		Clause 13 Display units - The KWh register shall have minimum 7 digits and size of the digits shall be minimum 10mmx6mm.	Clause 13 Display units - The KWh register shall have minimum 7 digits and size of the digits shall be minimum 10mmx5mm.	The same shall be evaluated during tender sample testing.
47		Clause 4.27 - Depth of the terminal holes: 25 mm.	Clause 4.27 - Depth of the terminal holes: 20 mm.	The same shall be evaluated during tender sample testing.
48	PQR		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.  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. Option 3: Option 1 & 2 but satisfies conditions (A2), (A3) & (A4) below, can also be eligible to participate in the bid as a meter manufacturer. However, meters procured for this tender from this particular meter manufacturer/ supplier, shall be limited to [25%] of the total meters proposed to be implemented as part of this tender.	Standard tender conditions and corrigendum thereof shall be applicable.
49	PQR		Smart meters shall have all the valid test certificate (issued within the last 5 years) and BIS certificate, compliant to IS 16444 Part-1* Note: *At the time of supply of LT-CT operated Meters, the smart meters shall have all the valid test certificate and BIS Certificate, compliant to IS 16444 Part-2.	Standard tender conditions and corrigendum thereof shall be applicable.
50	PQR		Should have in-house NABL or ISO/ IEC - 17025 accredited Laboratory	Standard tender conditions and corrigendum thereof shall be applicable.
51	PQR		Should have certification a valid ISO 9001:2015	Standard tender conditions and corrigendum thereof shall be applicable.

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation	Tata Power Response
1	2	3	4	5
52	Clause No. 1.4.11, 1.4.12.1.13,1.4.14 Page No. 3	Mandatory documents required along with the Bid 1.4.11 Proof of successful handling/completion of AMC 1.4.12 Proof of successful Implementation/completion of new installations 1.4.13 Price Bid with breakup of AMC of existing system as per attached BOQ. 1.4.14 Price Bid with breakup of Supply and installation as per attached BOQ.	Kindly remove these from list of Mandatory documents required along with the Bid as its not related to current RFP scoe	Standard tender conditions and corrigendum thereof shall be applicable.
53	Clause No. 7.4 Page No. 12	All the supplied Smart Meters shall have the warranty of 10 Years	Please ammend it as 5.5 year from date of supply or 5 year from date of installation whichever earlier as per regular practice of Utility.	tender specification is to be complied
54	Clause No. 7.5/6 Page No. 12	Completion of delivery of individual PO.	Please ammend it as Completion of delivery of individual CRO.	Standard tender conditions and corrigendum thereof shall be applicable.
55	Clause No. 7.6/10.1.1 Page No. 12	Liquidated Damages (For individual PO) shall be 1% of the PO Value per week or part thereof delay and maximum up to 10% of that PO Value.	Please ammend as Liquidated Damages (For individual PO) shall be 0.5% of the PO Value per week or part thereof delay and maximum up to 10% of that PO Value.	Standard tender conditions and corrigendum thereof shall be applicable.
56	Clause No. 7.7/9.1 Page No. 12	Contract Performance Bank Guarantee (CPBG) cum Performance Bank Guarantee 10% of the total order value should be submitted within 15 days of award of contract	Please ammend as Contract Performance Bank Guarantee (CPBG) cum Performance Bank Guarantee 5% of the total order value should be submitted within 15 days of award of contract	Standard tender conditions and corrigendum thereof shall be applicable.
57	Brief Scope of Work Page No. 20	Bidder shall study the requirements of Tata Power and will design, plan, Engineering, Manufacture, Supply, and integration of 1,53,000 Smart Meters of different types (referred to as 'Tata Power Smart Meter Project' here onwards).	As per discussion during the pre-bid, we understand existing HES in tatapower is fluentgrid and bidder smart meter will integrate with fluentgrid HES.	Currently it is of Fluent Grid make,however,Tata power reserves the right to replace UHES/MDMS in future if required. In such case OEM support will be required for integration with new system.
58	Brief Scope of Work Page No. 20	Successful Integration / Interface of the Smart Meters with the existing and any future systems implemented by TATA POWER	Please share details of existing HES & MDMS , we understand that Tata will provide full support for integration without any cost implication on bidders	Currently it is of Fluent Grid make.Successful bidder has to integrate their meters to existing UHES/MDMS without charging anything extra cost. Tata power reserves the right to replace UHES/MDMS in future if required. In such case OEM support will be required for integration with new system.
59	Special Requirement of the Project Page No. 24	The offered meters shall have minimum life cycle of 21 years	Please ammend as The offered meters shall have minimum life cycle of 10 years	tender specification needs to be complied
60	Special Requirement of the Project Page No. 24	The bidder shall also ensure incorporation of new hardware (communication devices, meter, NIC), if required, in future	Please elobrate this requirment , we ubnderstand that it will be chargeable basis	Bidder shall provide service support without charging any addition cost. Any new hardware incorporation will be done on chargeable basis.
61	Special Requirement of the Project Page No. 25	All the supplied Smart Meters shall have the warranty of 10 Years	Please ammend it as 5.5 year from date of supply or 5 year from date of installation whichever earlier	tender specification is to be complied
62	Special Requirement of the Project Page No. 25	Bank Guaranty period shall match the equipment warranty period	Please ammend it as Bank Guaranty period shall 5.5 year	tender specification is to be complied
63	Clause No. 20/20/19 page No. 64/114/115	In the event any defect is found by the purchaser up to a period of at least 120 months from the date of last supplies, Bidder shall be liable to undertake to replace/rectify such defects at its own costs	Please ammend it as In the event any defect is found by the purchaser 5.5 year from date of supply or 5 year from date of installation whichever earlier from the date of last supplies against CRO, Bidder shall be liable to undertake to replace/rectify such defects at its own costs	tender specification needs to be complied
64	Brief Scope of Work Page N0 24	NIC shall have provision for extension of antenna outside the meter. Gain of antenna shall be minimum 5 dB.	Internal antenna will be available .	Internal antenna shall have gain of minimum 5 dB .However, we require a provision on the meter NIC card to connect an external antenna if required .
65	Brief Scope of Work Page N0 24	The bidder shall also ensure incorporation of new hardware (communication devices, meter,NIC), if required, in future.	There will be no future hardware changes for the meter/NIC.	tender specification is to be complied. Required support need to be provided
66	4.23 Self-Diagnostic feature Page no 6	The meter shall have indications for un satisfactory/nonfunctioning of (i) Real Time Clock and calendar (ii) RTC battery(iii) Non Volatile Memory (iv) LCD segment check (v) Communication Card	Point 1 & 2 - We will be provided the single display of RTC Status (OK or fail) to fulfill the requirement (v) Communication Card log as a event.	The same shall be evaluated during tender sample testing.
67	4.27 Internal diameter of the terminal holes Depth of the terminal holes Page no 7	8.5mm ( minimum ) 25 mm	9.5 mm 1ph meter -Depth of the terminal holes 18 mm +/- 1 mm For 3ph meter 22 mm +/- 1 mm	The same shall be evaluated during tender sample testing.

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation	Tata Power Response
1	2	3	4	5
68	4.31 Software and communication compatibility Page no 7	Software and communication compatibility The bidder shall supply software required for communication through local (CMRI and BCS software) and remote (AMI) connectivity free of cost and necessary training. For existing meter manufacturer, it should be ensured that all meters (existing non-smart & upcoming smart meters) can be read through one BCS only.	We can be provided the same BCS for the AMI and Non AMI meters but all the meter should be DLMS.	ok. The same shall be evaluated during tender sample testing.
69	4.32 Calibration Page no 7	Calibration: Meters shall be software calibrated at factory and modifications in calibration shall not be possible at site by any means. However parameters like RTC, TOD slots & timings, DIP (billing & load survey), MD reset, billing date change, relay connect/Disconnect, Set load limit, Pre paid/post paid, Set metering mode (Import/Export), display setting, shall be reconfigure through BCS/CMRI and remotely over the air (OTA), and any other support will be provided without any additional cost to TATA power till the useful life of the meters. Change in display setting shall be done through firmware upgrade by means of BCS/CMRI and remotely over the air (OTA). Meter data will not get reset while firmware upgrade. Display sequence for different categories like Net meter and LT2 part is given in the document.	Both payment method and metering mode will be configurable as per IS 16444. Firmware upgrade will not be required for this requirement. On doing the configuration, the event will be recorded the programming count will increase. We will be provide configurations parameters as per the DLMS IS 15959 Part 2, The parameters which beyond the DLMS IS 15959 Part 2 need to OBIS code from the Tenderer.	tender specification needs to be complied . Additional obis code will be shared with successful bidder.
70	4.35 Meter Dimension in MM Page no 8	<u>Meter Dimension in MM Is not more than 170L*140W*100H</u>	Meter Dimension in MM Is not more than 170L*140W*100H (+_ 5mm )	tender specification is to be complied
71	4.39 Communication module of meter for AMI As , page no 8	Communication module of meter for AMI As per clause no 1.2 (b) of IS 16444. Meter should have provision of communication module compatible with both the variant mentioned in IS 16444 PART-1. The Communication Network Interface Card (NIC) shall be 4G LTE with fallback provision to 2G and support all the bands offered by TSP's in India. It should be plug-in type and field hot swappable with cellular technology NIC of all type of meters of same make. Support for upgrade to 5G should be there without replacing the meter. Meter should be able to provide required power supply to NIC card.	Communication technology will be provided 4G with fall back 2G only.	tender specification is to be complied
72	5.1 Disconnecter Switch Page No 9	This operation shall be conducted with the help of a third party software which is owned by TATA POWER and in addition to the manufacturer's own software, in Cellular (GPRS/ 3G / 4G / LTE) which can be given through optical port using external modem by utility.	Communication technology will be provided 4G with fall back 2G only.	tender specification is to be complied
73	5.1 Disconnecter Switch Page No 9	The make of the load switch should be of reputed make like Grooner (German) or equivalent and same shall be confirmed by the bidder during tendering		tender specification needs to be complied
74	6.1 Magnetic Field: Page No 10	Abnormal Magnetic field is defined as below; a) Continuous DC magnetic induction: >0.2 Tesla $\pm$ 5%(Value of the magneto motive force to be applied shall be generally >10000 ATs, Should be immune up to 0.2 Tesla) b) AC magnetic induction: Immune for 10 milli Tesla ( if produced with circular metal core with square cross section as specified in CBIP latest report with 2800 AT c) Permanent Magnet: Immune up to 0.5T and Event logging >0.5T Consumption during magnet temper shall be recorded in defraud register also. Demand shall be recorded as per actual load only.	Meter will comply the magnetic tamper clause as per CBIP325. Kindly provide defraud register OBIS Code. MD will not be calculated during magnet tamper condition.	tender specification needs to be complied . Additional obis code will be shared with successful bidder.

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation	Tata Power Response
1	2	3	4	5
75	6.2 Electrostatic Discharge (ESD) Page no 11	Electrostatic Discharge (ESD) Meter, inside meter box, shall be immune up to 50 kV and shall record accurate energy as per IS_x0002_13779:1999 / CBIP-325. Meter shall log the event into memory as 'ESD' with date & time stamp for any ESD greater than 35 kV with snap shot the event logging threshold values as per table no. 1 in 4.6.	Provide as per CBIP 325.	tender specification needs to be complied
76	6.2 Electrostatic Discharge (ESD) Page no 11	The shielding around the meter shall be such that it does not get affected by high voltage, high and low energy impulse when comes in contact with meter from any side.	Suitable protection will be provided.	tender specification needs to be complied
77	6.2 Electrostatic Discharge (ESD) Page no 11	The meter should be immune to high/ low frequency Jammer devices. Meter shall log event in its memory as jammer with date and time stamp along with snapshot.	Provide as per CBIP 325.	tender specification needs to be complied
78	6.3 Neutral Disturbance page No 11	The meter shall record energy proportional to the current, V Ref (240V) and UPF when any of the tamper circuits enclosed as per annexure are used to tamper energy using a diode or a variable resistance or a variable capacitance energy saving device and meter should recorded ND in meter memory. Vph > 150% Vref	In this case min current should be 1A . and Pleased share the values of - diode or a variable resistance or a variable capacitance. Vph > 130% Vref	tender specification needs to be complied
79	6.5 Abnormal and Tamper conditions:Page no 12	Abnormal and Tamper conditions: Meter shall store cumulative count and cumulative durations of all the tamper event which have logged by meter from the date of energization till life of meter.	Cumulative duration of the tamper events will be logged individually at HES/BCS end.	tender specification needs to be complied
80	6.5 Abnormal and Tamper conditions: Page No 12	The cover open tamper detection should be through heavy duty, sturdy micro switch or equivalent such that it should not operate on vibration or impact during handling or testing.	Carbon pad type swtich will be provided for top cover detection .	tender specification needs to be complied
81	6.5 Abnormal and Tamper conditions: Page No 12	Suitable nomenclature/icon shall be displayed on meter display for Magnet, HV ESD, Neutral Disturbance, Single wire, Meter cover open related events. Occ: Immunity upto 50 KV, > 50KV event logged In memory	Common LCD icon for -- ND & signle wire . tamper log --- if meter get affected .	tender specification needs to be complied
82	Clause No. 6.5 Page No.13	ESD/JAMMER Tamper Restoration – immediate	ESD/JAMMER Tamper Restoration – 60 sec.	The same shall be evaluated during tender sample testing.
83	Clause No. 6.5 Page No.13	Magnet Tamper occurrence and Restoration – immediate.	Magnet Tamper occurrence and Restoration – 10 sec.	The same shall be evaluated during tender sample testing.
84	Clause No. 6.5 Page No, 13	Temperature Rise Occ: T > 70° C REC: T < 60° C	Temperature Rise occurrence and Restoration time not specified in Table, we suggest the persistence time of the temper – 30 min. Occurrence and 120 sec. Restoration	The same shall be evaluated during tender sample testing.
85	9 Terminals, Terminal Block, Page No 16	Terminal block should be in single mould with meter body base(Not separate). After any attempts the terminal block should not be able to disengaged, opened or loosen from any side	The Terminal block will be provide with suitable mounting arrangement in the meter base. It will be separate part of the meter base.	The same shall be evaluated during tender sample testing.
86	9 Terminals, Terminal Block, Page No 17	Temperature sensor shall be available in meter for sensing the temperature and meter should be programmed in such way that on reaching the threshold value set (as per table) the event/alert should go the to HES/MDMS.	Temperature sensor will be inbuild in micro controller. for programmed in such way that on reaching the threshold value set at manufacture end .	The same shall be evaluated during tender sample testing.

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation	Tata Power Response
1	2	3	4	5
87	9 Terminals, Terminal Block, Page No 17	Internal diameter of the terminal holes shall be minimum 8.5 mm; minimum clearance between adjacent terminals shall be 10 mm. Depth of the terminal holes shall be of 25 mm. Terminal screws shall be of Zinc plated MS bottle type. Terminals shall be preferably of MS cage clamp type as per IS: 15707 or of flat end screw with at least 6 mm dia of screw for better contact area.	Depth of the terminal holes 18 mm +/- 1 mm. Terminal screws will be Ni plated brass and slotted head Termails will be fixed type arrangement .	terminal screw shall be required as a self thread with brass material
88	8 Meter Body:Page no 16	Meter cover shall be transparent with polycarbonate LEXAN 143R/943A or equivalent on prior approval from the Purchaser.	Meter Top cover will be opaque type ,and window portaiion will be fully transparent .	Tender specification to be complied
89	8 Meter Body:Page no 16	The Meter body shall be such that the liquid or chemical shall not reach the electronic parts if liquid is injected from any side of meter body such as meter terminals, push button, display, NIC card casing, necessary protection and water tight sealing to be provided at terminals and Push buttons . Optical port of meter shall be metallic to hold magnetic optical cord during data downloading locally.	Comply with IP51. However please mention the testing procedure to explore.	Tender specification to be complied
90	12.1 Billing Information Page no 19	<u>Billing Information</u> Current+ 12 History billing Date Current + 12 Month History of Energy (KWH, KVAH, KVARH Lag, KVARH Lead, Def KWH, Def KVAH) Current + 12 Month History Consumption (KWH, KVAH, KVARH Lag, KVARH Lead, Def KWH, Def KVAH) Current + 12 Month History of Demand (KW,KVA, KVAR Lag, KVAR Lead) Along with date and time stamp Current + 12 Month History of PF Current + 12 Month History of Disconnecter switch cumulative count. TOD wise billing Information Current + 12 Month History of Energy (KWH, KVAH) Current + 12 Month History of Consumption (KWH, KVAH) Current + 12 Month History of Demand (KW, KVA) along with date and time stamp Current + 12 Month History of PF	Billing information will be provided as per the DLMS IS 15959 part 2. Consumption energy will be calculate at HES/BCS end.  Reactive energy not applicable for Single phase meter.	Tender specification to be complied
91	12.2 Load survey: Page no 19	<u>12.2 Load survey:</u> The meter shall be capable of recording load profile of at least 35 days for 15 min IP for ON days only for following parameters. Voltage Phase Current Neutral Current PF KWH KVAH KW KVA Temperature Note: Load survey can be configured for 5/15/30 min as per requirement. By default 15 min SIP is configured.	The meter will be capable of recording load profile of at least 45 days for 30 min IP for ON days. Note: Load survey can be configured for 15/30 min as per requirement.	Tender specification to be complied

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation	Tata Power Response
1	2	3	4	5
92	12.3 MID Night Energy: Page no 20	Import : Cumulative KWH & its TOD, Cumulative KVAH and its TOD, Tariff wise MD kVA, KVARH Lag, KVARH Lead Export : Cumulative KWH, Cumulative KVAH, KVARH Lag, KVARH Lead	KVArh energy is not applicable for single phase meter.	Tender specification to be complied
93	12.4 Instantaneous Parameters: page No 20	12.4 Instantaneous Parameters: Meter shall have capable following Instantaneous parameter In Memory and should be available in BCS Meter Serial No Meter Type Meter date and Time MRI date and time Dump date and time Voltage Phase Current Neutral current Power Factor Instantaneous Frequency Instantaneous Load (KW, KVA, KVAR Lag, KVAR Lead) Present Cumulative energy (KWH, KVAH, KVARH Lag, KVARH Lead, Def KWH, Def KVAH) Cumulative Tamper count Cumulative Billing Count Terminal Block Temperature No. of disconnector switch operation Count Load limit value in KW	Meter Serial No and Meter Type will be provided in name plate details. KVArh energy is not applicable for single phase meter.  Please provide obis code of def. Kwh, def. KVAh registered .	Tender specification to be complied
94	12.5 General Information:-Page no 20	12.5 General Information:- Meter shall be capable for providing below mention general parameters in memory should be available in BCS Meter serial No Meter Type Manufacture Name Manufacture date Meter Class Meter constant Meter voltage rating Meter current rating Firmware version of meter Available TOD profile showing timing and seasons Available Meter display sequence	TOD profile timing and seasons will be shown at BCS/HES end. The TOD zone registers will be available in billing profile.	Tender specification to be complied
95	Clause No. 12.6 Page No. 21	12.6 Transactions:- All the change in software of meter to be logged along with date and time stamp and instantaneous parameters.	As per DLMS IS 15959 Part 2. all the change in software of meter to be logged along with date and time stamp.	Tender specification to be complied
96	Clause No. 12.7 Page No. 21	Load switch profile:- All energy & demand parameters alongwith date time stamping shall be available with status of Relay connect/disconnect.	Load switch connect / disconnect logged along with date and time stamp as per the IS 15959 Part 2.	Tender specification to be complied
97	13 Display units: Page No 21	The KWh register shall have minimum 7 digits and size of the digits shall be minimum 10mmx6mm. Cumulative energy (KWh) shall be displayed without decimal in auto scroll mode.	minimum 6 digits and size of the digits shall be minimum 10mmx5mm. Cumulative energy (KWh) shall be displayed without decimal in auto scroll mode.	The same shall be evaluated during tender sample testing.

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation	Tata Power Response
1	2	3	4	5
98	Display1 Parameters (Auto Scroll Mode) & Display2 Parameters (Manual Scroll Mode) page No 22	Display1 Parameters (Auto Scroll Mode) Cumulative Forward kWh (7+0) Display2 Parameters (Manual Scroll Mode) Instantaneous Reactive power (3+3) (Lag or Lead) Cumulative Forward kVAh lag (7+0) Cumulative Forward kVAh lead (7+0)	Display Mode 1 --- Cumulative Forward kWh (6+0) Note -Reactive energy is not applicable for single phase meter.	Tender specification to be complied
99	Display 3 Parameters (High Resolution Mode)page No 32	Cumulative Forward kWh (2+5) Cumulative Forward kVAh lag (2+5) Cumulative Forward kVAh lead (2+5) Cumulative Forward kVAh (2+5) Battery mode will be as per display 1,2 and 3 sequentially.	We will be provided High resolution energy kWh and kVAh (2+4) parameters in Push mode display.	Tender specification to be complied
100	15 Name plate and Marking: page No 33	Meters shall have a name plate clearly visible and effectively secured against removal. The name plate data should be laser printed. No sticker to be used to avoid loss of data in event of fire. The base color of Name plate shall be white indelibly and distinctly marked with all	Meter Base color light gray and all information laser printing on meter top cover .	The same shall be evaluated during tender sample testing.
101	9. Temperature sensor page No 44	Temperature sensor shall be internal to the meter and its accuracy shall be as per relevant IEC / IS standards. The OEM test report to be furnished. With good performance till life of meter.	Meter accuracy will be as per IS standards . Temp sensor accuracy is Not applicable relevant IEC/ IS standards	Tender specification to be complied
102	14 NIC card Removed (Immediate)	OCC: On removal of card RES: On insertion card		OCC: On removal of card RES: On insertion card
103	Clause No. 15 Page No.35	<u>15 Name plate and Marking:</u> Meters shall have a name plate clearly visible and effectively secured against removal. The name plate data should be laser printed. No sticker to be used to avoid loss of data in event of fire. The base color of Name plate shall be white indelibly and distinctly marked with all essential particulars as per relevant standards along with the following. The Serial no. series applicable for the meters shall be provided by Tata Power.	The printing information of the meter name plate will be provided on the meter top cover.	The same shall be evaluated during tender sample testing.
104	Clause No. 16.3 Page No.37	<u>16.3 Type test:</u> iii. DC immunity test (injection both on phase and neutral terminal) with latest edition	DC immunity test will be provide as per IS 16444 Part 1.	The same shall be evaluated during tender sample testing.
105	6.4 Abnormal and Tamper conditions PageNo 12	The meter shall register correctly if supply neutral is not available at the meter neutral terminal. The meter shall work in absence of two incoming wires. It shall keep recording orrectly in case of unbalance system voltage.	Meter accuracy will be as per IS standards .	The same shall be evaluated during tender sample testing.
106	9 Terminals, Terminal Block	The terminals and connections shall be suitable to carry up to 120 Amp continuously (Imax 100 A). The size, design & material of terminal so that temperature rise will not be more than 20 °C above ambient temperature of 45°C at 120% of I max loading for 06 hrs continuous.	at 120% of I max loading for 02 hrs continuous.	Tender specification to be complied
107	1. Scope	This specification covers the technical requirements of design, manufacture, testing at manufacturer's works, packing, forwarding, supply and unloading at store/site of Three phase four Wire, 3*240 V, 10-100A current operated ac static meters of accuracy class 1.0	Please accept 20-100A current operated ac static meter of accuracy class 1.0 which is widely used in the TATA POWER Tenders	Tender specification to be complied
108		General Queries	Please provide the APN, destination IP and port number for HES communication	Same shall be provided with successful bidders
109		General Queries	Please share the HES provider name and data models for the meter to HES integration	Current HES is of Fluent Grid make. Data models already provided

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation	Tata Power Response
1	2	3	4	5
110		General Queries	Please share the default payment mode and metering mode	Meter will work in default in post paid mode and configurable in prepaid
111		General Queries	Please share latest TOD will be used in the meter	Already provided in Meter specification. However same shall be configurable over the air.
112		General Queries	Please share what will be the push frequencies like self registration push, load survey push, instant push, ESW push, daily push, monthly push, and tamper push	Same shall be provided with successful bidders
113	12.5 Instantaneous Parameters: page no 21	THD current (Phase wise & average) THD voltage (Phase wise & average) THD power(Phase wise & average) Terminal Block Temperature	Instantaneous Parameters-- THD will be instantaneous value	The same shall be evaluated during tender sample testing.
114	12.3 Load survey: Page No 20	n. THD Voltage phase wise o. THD Current phase wise	Load survey -- THD will be average	Tender specification to be complied
115	Display3 Parameters (High Resolution Mode) page No 25	Meter shall be unidirectional by default unless specified. However it can be programmed through BCS, HHU, Mobile App and OTA.	Display mode configuration through BCS, Mobile App and OTA.	The same shall be evaluated during tender sample testing.
116	Display2 Parameters (Manual Scroll Mode)	Defrauded Energy cumulative Kwh Defrauded Energy cumulative Kvah Cumulative Tamper count History of last 3 tampers Defraud Register Cumulative kWh during Magnetic Tamper (6+2) Defraud Register Cumulative kWh during ND Tamper (6+2)	Need to clarify point no 1 Defrauded Energy cumulative Kwh point No 2 - Defraud Register Cumulative kWh during Magnetic Tamper (6+2)	1.Defrauded energy cumulative Kwh - includes energy registration during magnet, ND & NM tamper conditions. 2.Defraud Register Cumulative kWh during Magnetic Tamper – energy registration during magnet tamper conditions.
117	4.42 Harmonics recording	The meter should record the current and voltage THD. The meter should record harmonics up to min 20th harmonic. However harmonics recording upto 31st shall give first preference. Average THD of all phase for voltage THD and current THD. THD values shall have 30 minutes integration period in load survey. Accuracy of harmonics recording shall be as per meter accuracy class. The meter shall generate a flag/event log whenever the threshold (user configurable) of the 5% THD of the load current and voltage is breached	Accuracy of harmonics recording will be as per IS / IEC	The same shall be evaluated during tender sample testing.
118	2. Display sequence for Net meter (programmable through firmware upgrade) –	Cumulative energies (6+2) - Import	for 3ph Cumulative energies & Defraud energy will be 7+1 digits	Tender specification to be complied
119	11.5 Instantaneous Parameters: LTCT meter	No. of relay switch operation Count	NA for LTCT meter	ok.
120		In case of 4G based meter, the NIC shall accommodate SIM card of any service provider and the same should be inter-operable, so that in case there is a change in service provider, NIC needs not to be changed.	In this case APN Need to be same for all different N/W providers	Yes
121		Meter should be able to identify if NIC has been removed or power failure has occurred. These 2 instances should be separately recorded in meter memory and should be reported back on a time-to-time basis	In Genus NIC Removal and NIC Power failure are considered as the same instance and are not two separate events	Tender specification is to be complied
122		NIC shall have provision for extension of antenna outside the meter. Gain of antenna shall be minimum 5 dB	Antenna available in genus with minimum gain of 4db	Internal antenna shall have gain of minimum 5 dB .However, we require a provision on the meter NIC card to connect an external antenna if required .
123	<b>Tender Notification</b>	<b>Annexure VII Scope of Work &amp; Service Level Agreement</b> supply under the RFP would cover 1,53,000 Smart Meters which would include Single Phase, Three Phase Whole Current and LTCT Smart Meters.	We understand that the meters should be supplied to store location of Tata Power in Mumbai. Please clarify.	Meter has to be supplied to store location is Mumbai
124	<b>Tender Notification</b>	<b>Annexure VII Scope of Work &amp; Service Level Agreement</b> Integration of Smart Meters with HES/MDMS	Please share details of HES/MDMS to be integrated with smart meters.	Current Tata Power is having FG make UHES

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation	Tata Power Response
1	2	3	4	5
125	Tender Notification	<b>Clause 1.7 Qualification Criteria Technical Experience:</b> The bidder should have manufactured & supplied 2Lakh (Quantity) Number of Smart Meters in last 3 years as on original bid submission date. Out of which, minimum of 50,000 (Quantity) of Smart Meter should have been in satisfactory commercial operation with remote communication for a minimum period of 2 years as on original bid submission date.	Please allow subsidiaries of global utilities to participate in the tender. This will enhance competition and ensure discovery of efficient prices. In this regard following clause should be added: <i>The subsidiaries of global/Indian companies are also eligible to bid if the qualification requirements stated above are met independently or in combination with the parent/sister concern/group company. However, the bidder should have an establishment of permanent nature in India. Bidder should submit the undertaking and details of address in this regard.</i>	Bidder should be Original Meter Manufacturer and should meet all PQR conditions individually.
126	Tender Notification	<b>Capacity:</b> Bidder(s) should have experience of manufacturing capacity of smart electricity Meters. All the below criteria are to be fulfilled.....	We understand that an undertaking on manufacturing capacity should suffice the requirement.	Self declaration along with third party certification is required
127	Tender Notification	<b>Clause 3.1 Bid Submission</b> FIRST PART: "EMD" of Rs. 2,00,000/- (Two Lakhs only) valid for 210 days from the due date of bid submission in the form of BG / online NEFT/ RTGS transfer only.	Please exempt MSME bidders from submission of the EMD.	Standard tender conditions and corrigendum thereof shall be applicable.
128	Tender Notification	Technical Specifications - Single Phase, Three Phase and LTCT Component Makes	This Clause should be not be mandated upon the Bidder and hence can be deleted.	tender specification is to be complied
129	Tender Notification	Measurement/ computing chips - Make (USA: Anolog Devices, Cyrus Logic, Atmel, Phillips, freescale,NXP South Africa: SAMES Japan: NEC, Renesas Singapore: Texas)	Please allow following make(s): Powercom Make (Part Name: PC1-01), TSMC, Taiwan	Tender specification to be complied
130	Tender Notification	Memory chips - Make (USA: Atmel, National Semiconductors, Texas Instruments, Phillips, Onsemi Japan:Hitachi or Oki Europe: SGS Thomson)	Please allow following make(s): Puya Semiconductor	Tender specification to be complied
131	Tender Notification	Display modules - Make (Taiwan: Holtek Singapore: Bonafied Technologies Korea: Advantek China:Xiamen/ Tianma)	Please allow following make(s): Yangzhou Gaojie Electronic Technology Co., Ltd.	Tender specification to be complied
132	Tender Notification	Optical port - Make (USA: National Semiconductors Holland / Korea: Phillips Taiwan:MAXIM) Japan:Hitachi, Everlight	Please allow following make(s): Coade	Tender specification to be complied
133	Tender Notification	Electronic components - Make (USA: National Semiconductors, Atmel, Phillips, Texas Instruments, Rohm,Micron Japan:Hitachi, Oki, AVX or Ricoh Korea: Samsung)	Please allow following make(s): Yageo, Everlight, BCD, Leading Tech, ETA, Seiko, etc.	Tender specification to be complied
134	Tender Notification	Battery - Make (Varta / Tedirun /Sanyo/ EVE / XENO, Mitsubishi or equivalent.)	Please allow following make(s): EVE	Tender specification to be complied
135	Tender Notification	RTC / Micro controller - Make (USA: Philips , Dallas, Atmel, Motorola Japan: NEC or Oki, Renesas)	Please allow following make(s): EVE	Tender specification to be complied
136	Tender Notification	Temperature Sensor - Make (USA: Philips , Dallas, Atmel, Motorola Japan: NEC or Oki, Renesas)	Please allow following make(s): Powercom Make (Part Name: PC1-01), TSMC, Taiwan	Tender specification to be complied
137	LD Conditions		With reference to your Tender No. CC25DPP034 for Supply of Smart Meters. We request you to consider Liquidated damages for Undelivered Material instead of overall PO Value.	Standard tender conditions and corrigendum thereof shall be applicable.
138	1.7 C.1. page no. 3 of 181	The bidder should have manufactured & supplied 2Lakh (Quantity) Number of Smart Meters in last 3 years as on original bid submission date. Out of which, minimum of 50,000 (Quantity) of Smart Meter should have been in satisfactory commercial operation with remote communication for a minimum period of 2 years as on original bid submission date.	Please delete the requirement for 50000 Nos. smart meter in satisfactory commercial operation with remote communication for a minimum period of 2 years as on original bid submission date.	tender specification is to be complied

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation	Tata Power Response
1	2	3	4	5
139	1.7 C 4. page no. 3 of 181	Bidder(s) should have experience of manufacturing capacity of smart electricity Meters. All the below criterias are to be fulfilled- <ul style="list-style-type: none"> <li>• Minimum of 3 Lac Single Phase Smart Meters per annum and</li> <li>• Minimum 1 Lac Three Phase Smart Meter per annum.</li> <li>• Minimum 10,000 LTCT Smart Meter per annum</li> </ul>	Please delete the requirement of performance certificate/ completion certificate	tender specification is to be complied
140	5.1, page no. 37 of 181	however over current tripping should be disabled by default while supply and should have easy enabling provision in feature. Enabling and Disabling configuration setting change By Tata Power whenever required remotely over the air (OTA).	We will provide load limit configurable As per IS 15959 part 2 and we can enable/disable As per IS 15959 part 2, kindly accept the same.	The same shall be evaluated during tender sample testing.
141	5.1, page no. 37 of 181	Disconnecter Switch :- Operating Voltage range 130 V to 470 V	Our meter will operate at 150V to 288V. There is no feasibility of generating 470V with single phase power supply.	The same shall be evaluated during tender sample testing.
142	12.1, page no. 47 of 181	Billing Information:- Current + 12 Month History Consumption (KWH, KVAH, KVARH Lag, KVARH Lead, Def KWH, Def KVAH)	During defraud energy kWh = kVAh, so there is no need to record defraud kVAh, Kindly delete this requirement.	The same shall be evaluated during tender sample testing.
143	12.1, page no. 47 of 181	Billing Information:- Current + 12 Month History of Demand (KW,KVA, KVAR Lag, KVAR Lead) Along with date and time stamp	We will only provide demand for kW and kVA. Kindly delete your requirement for demand KVAR Lag, KVAR Lead.	Tender specification to be complied
144	12.1, page no. 47 of 181	Billing Information:-TOD wise billing Information Current + 12 Month History of Consumption (KWH, KVAH)	Consumption and information will be provided as a drive parameter at BCS end. We can also calculate consumption energy at HES end So kindly delete the requirement from meter end.	Tender specification to be complied
145	12.2, page no. 47 of 181	Load survey: KW , KVA	These parameters are already in the billing profile and it will be given as drive parameters on BCS end. Kindly delete your requirement.	The same shall be evaluated during tender sample testing.
146	12.3, page no. 48 of 181	MID Night Energy: Import : Cumulative KWH & its TOD, Cumulative KVAH and its TOD, Tariff wise MD kVA, KVARH Lag, KVARH Lead	We will only provide TOD wise demand for kW and kVA. Kindly delete your requirement for TOD wise demand KVAR Lag, KVAR Lead.	Tender specification to be complied
147	12.4, page no. 48 of 181	Instantaneous Parameters: Def KVAH	During defraud energy kWh = kVAh, so there is no need to record defraud kVAh, Kindly delete this requirement.	The same shall be evaluated during tender sample testing.
148	13, page no. 49 of 181	Display units: 10mmx6mm	Size of digit in our display is 10mmx5mm. Kindly accept the same.	The same shall be evaluated during tender sample testing.
149	13, page no.51 of 181	Display units:1. Default Display sequence –Display2 Parameters (Manual Scroll Mode):- Defraud Register Cumulative kWh during ND Tamper (7+0) Defraud Register Cumulative kWh during NM Tamper (7+0)	Defraud energy is only applicable in magnet condition. Kindly delete the requirement of Defraud kWh during ND tamper and defraud kWh during NM tamper.	Tender specification to be complied
150	13, page no.61 of 181	Error code – Meter and NIC health indicator shall be displayed as following-	We will provide error code 0 to 11 for single phase, Three phase and LTCT meter. Kindly accept the same.	Tender specification to be complied
151	4.44, page no.85 of 181	Load switch utilization category, UC2 or better	We will provide UC1, Kindly accept the same.	Tender specification to be complied
152	5, page no.85 of 181	however over current tripping should be disabled by default while supply and should have easy enabling provision in feature. Enabling and Disabling configuration setting change By Tata Power whenever required remotely over the air (OTA).		Tender specification to be complied
153	12.1, Page No. 95 of 181	Billing Information:- Def KVAH	During defraud energy kWh = kVAh, so there is no need to record defraud kVAh, Kindly delete this requirement.	Tender specification to be complied
154	12.1, Page No. 96 of 181	Current + 12 Month History Consumption (KWH, KVAH, KVARH Lag, KVARH Led, Def KWH, Def KVAH)	During defraud energy kWh = kVAh, so there is no need to record defraud kVAh, Kindly delete this requirement.	Tender specification to be complied
155	12.1, Page No. 96 of 181	Current + 12 Month History of Demand (KW,KVA, KVAR Lag, KVAR led) Along with date and time stamp	We will only provide demand for kW and kVA. Kindly delete your requirement for demand KVAR Lag, KVAR Lead.	Tender specification to be complied
156	12.2, Page No. 96 of 181	TOD wise billing Information:- Current + 12 Month History of Consumption (KWH, KVAH)	Consumption and information will be provided as a drive parameter at BCS end. We can also calculate consumption energy at HES end So kindly delete the requirement from meter end.	Tender specification to be complied
157	12.3, Page No. 96 of 181	Load survey: KW , KVA, KVAR Lag, KVAR Lead	These parameters are already in the billing profile and it will be given as drive parameters on BCS end. Kindly delete your requirement.	Tender specification to be complied
158	12.3, Page No. 96 of 181	Load survey: Phase wise min & max current, Phase wise min & max voltage	These parameters are drive parameters only available at BCS/HES end.	Tender specification to be complied
159	12.3, Page No. 96 of 181	Load survey: Load survey can be configured for 5/15/30 min as per requirement. By default 15 min SIP is configured.	We will provide load survey configured 15/30 Min as per IS 15959 Part 2. Kindly accept the same.	The same shall be evaluated during tender sample testing.
160	12.4, Page No. 96 of 181	MID Night Energy:- Import : Cumulative KWH & its TOD, Cumulative KVAH and its TOD, Tariff wise MD kVA, KVARH Lag, KVARH Lead	We will only provide TOD wise demand for kW and kVA. Kindly delete your requirement for TOD wise demand KVAR Lag, KVAR Lead.	The same shall be evaluated during tender sample testing.
161	12.5, Page No. 97 of 181	Instantaneous Parameters: Def KVAH	During defraud energy kWh = kVAh, so there is no need to record defraud kVAh, Kindly delete this requirement.	The same shall be evaluated during tender sample testing.
162	12.5, Page No. 97 of 181	Instantaneous Parameters: Vector/Phasor diagram	We will provide in separate profile. Kindly accept the same.	The same shall be evaluated during tender sample testing.

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation	Tata Power Response
1	2	3	4	5
163	12.5, Page No. 97 of 181	Instantaneous Parameters: THD current (Phase wise & average) THD voltage (Phase wise & average) THD power(Phase wise & average)	We will provide THD Current and Voltage in block load profile and we will not provide THD power. Kindly delete THD voltage,current & power from instantaneous profile.	Tender specification to be complied
164	12.5, Page No. 97 of 181	Instantaneous Parameters: Separate Event count (voltage unbalance)	We will provide cumulative tamper count as per IS 15959 part 2, in which tamper events are given compartment wise.Kindly accept the same.	The same shall be evaluated during tender sample testing.
165	12.6, Page No. 98 of 181	General Information:- Available TOD profile showing timing and seasons	We will provide in Billing profile. Kindly accept the same.	The same shall be evaluated during tender sample testing.
166	12.6, Page No. 98 of 181	General Information:- Available Meter display sequence preferable	Need to elaborate.	Display sequence parameter shall be available in BCS
167	12.7, Page No. 98 of 181	Transactions:-All the change in software of meter to be logged along with date and time stamp and instantaneous parameters.	We will provide transaction log as per IS 15959 part 2.Kindly accept the same.	Tender specification to be complied
168	13, page no. 98 of 181	Display units: 10mmx6mm	Size of digit in our display is 10mmx5mm. Kindly accept the same.	The same shall be evaluated during tender sample testing.
169	13, page no. 100 of 181	Display Units:-Default Display sequence – Display2 Parameters (Manual Scroll Mode):-Defraud Register Cumulative kWh during ND Tamper (6+2)	Defraud energy is only applicable in magnet condition. Kindly delete the requirement of Defraud kWh during ND tamper and defraud kWh during NM tamper.	The same shall be evaluated during tender sample testing.
170	13, page no. 103 of 181	Display Units: Default Display sequence:-Display3 Parameters (High Resolution Mode) Tariff wise Forward kWh (7+1) Tariff wise Reset Period MD Forward kVA Date & time (3+3) Tariff wise Forward kVAh (7+1)	These parameters is not applicable for high resolution mode.	The same shall be evaluated during tender sample testing.
171	13, page no. 103 of 181	2. Display sequence for LT 2 part (programmable through firmware upgrade)- Display2 Parameters (Manual Scroll Mode) – Defrauded Energy cummulative Kvah	During defraud energy kWh = kVAh, so there is no need to record defraud kVAh, Kindly delete this requirement.	The same shall be evaluated during tender sample testing.
172	13, page no. 103 of 181	Display sequence for LT 2 part (programmable through firmware upgrade) – Display1 Parameters (Auto Scroll Mode)Defraud Register Cumulative kWh during ND Tamper (6+2)	Defraud energy is only applicable in magnet condition. Kindly delete the requirement of Defraud kWh during ND tamper and defraud kWh during NM tamper.	The same shall be evaluated during tender sample testing.
173	13, page no. 107 of 181	Defrauded Energy cummulative Kvah	During defraud energy kWh = kVAh, so there is no need to record defraud kVAh, Kindly delete this requirement.	The same shall be evaluated during tender sample testing.
174	13, page no. 108 of 181	Cumulative Forward kWh (7+1)	Kindly accept cumulative energy (6+1) for single phase meter and three phase whole cutrrnt meter	Tender specification to be complied
175	13, page no. 110 of 182	Display Units: Default Display sequence:-Display3 Parameters (High Resolution Mode) Tariff wise Forward kWh (7+1) Tariff wise Reset Period MD Forward kVA Date & time (3+3) Tariff wise Forward kVAh (7+1)	These parameters is not applicable for high resolution mode.	The same shall be evaluated during tender sample testing.
176	1.4 Mandatory documents required along with the Bid Clause No: 1.4.11 to 1.4.14 (Page 4)	1.4.11 Proof of successful handling/completion of AMC 1.4.12 Proof of successful Implementation/completion of new installations 1.4.13 Price Bid with breakup of AMC of existing system as per attached BOQ. 1.4.14 Price Bid with breakup of Supply and installation as per attached BOQ.	AMC & installation are not in the scope of bidder. Kindly remove these clauses.	Bids shall be evaluated based on the documents submitted and the applicability of these conditions to the tender.
177	7.0 Post Award Contract Administration 7.5 Payment Terms (Page 12)	Payment shall be released within 60 Days (45 days for MSME Vendor) on milestone basis as follows: Completion of delivery of individual PO.	Milestone for the payment mentioned in RFP is not clear. Request modify the clause as "100% payment shall be released within 60 days from the date of delivery of meters at the TPCL store".	All Payments shall be released within 60 days after invoice approval.  1. 90 % of invoice value shall be approved after successful receipt and successful sample testing and acceptance of the supply. 2. 10% of invoice value shall be approved after 90 days of successful delivery, subject to atleast 90% of installed meters are communicating with the HES.
178	7.0 Post Award Contract Administration 7.6 Liquidated Damages(Page 12)	Liquidated Damages (For individual PO) shall be 1% of the PO Value per week or part thereof delay and maximum up to 10% of that PO Value.....	Request amend the LD clause as below, " Liquidated Damages (For individual PO) shall be 0.5% of the PO value for the delayed portion only per week and maximum up to 5% of that PO Value for the delayed portion."	Standard tender conditions and corrigendum thereof shall be applicable.

Sr. No.	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No	Description as per Bid Document	Query / Clarification / Deviation	Tata Power Response
1	2	3	4	5
179	ANNEXURE VII Scope of Work & Service Level Agreement (Page 21)	Note: - Tata Power reserves right to procure additional Smart Meters of different types at the final agreed rate over and above the quantity mentioned above. Tata Power reserves the right to change the scope/exclude some of the components at the time of final order placement.	Request mention the percentage of quantity variation during the rate contract period of 1 year.	Shall be shared with the succesful bidder
180	ANNEXURE VII Scope of Work & Service Level Agreement (Page 24)	NIC shall have provision for extension of antenna outside the meter. Gain of antenna shall be minimum 5 dB.	Provision for external antenna compromises the IP requirements and reliability of the meter, as it susceptible for damage during tampering like 35kV ESD etc. Hence, request remove this requirement.	tender specification is to be complied