

CENTRALIZED CONTRACTS GROUP**NIT No.: TPCODL / CCG / 2024-25 / 1000002006****Corrigendum- I****NIT No.: TPCODL / CCG / 2024-25 / 1000002006****Rate Contract - Supply of Single Phase Smart Meter (5-30 Amp) with Boxes for Tata Power Odisha DISCOMs****Dated 04th March 2025****Following changes in tender document is made;****1.1 Scope of work (Page No. 4)**

Bids are invited from interested Bidders to award Rate Contract (RC) for Procurement of Single-Phase Smart Meter (with NIC) and Meter Boxes for Tata Power Odisha DISCOMs as mentioned below:

Sl. No.	Item Description	UOM	TPCODL Qty.	TPNODL Qty.	TPSODL Qty.	TPWODL Qty.	TOTAL QTY
1	Single Phase (5-30 Amp) Smart Meter (with NIC) and Meter Boxes	Nos. (in Lac)	5.00	3.25	2.7	4.0	14.95
2	Single Phase (5-30 Amp) Smart NET Meter (with NIC) and Meter Boxes	Nos. (in Lac)	1.00	0.75	0.3	0	2.05
Total		Nos. (in Lac)	6.00	4.00	3.00	4.00	17.00

1.3 Calendar of Events (Page No. 6)

(b)	Date by which Interested and Eligible Bidder to pay Tender Fee and confirm participation as mentioned in "Procedure to Participate in Tender"	07-03-2025
(e)	Due date and time of receipt of Bids	14.03.2025 [15:00 hrs]
(f)	Date & Time of opening technical bids	14.03.2025 [15:30 hrs]
(g)	Date & Time of opening of Price of qualified bids	To be notified to the successful bidders

2.0 Pre- Qualification Criteria

Sl No	Parameter	Owner Requirement	Documents to be submitted by Bidder
A	Technical Pre-Qualification Requirements for Meter manufacturer (OEM)		
1	Technical Experience - Meter Manufacturer	Bidder(s) should be in the business of manufacturing Static Energy Meters/Smart meter and should have state of the art facility in India. Should be in this Business from the last 5 years in India as on date of Bid Submission.	Factory License Certificate / MoA mentioning nature of Business.

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Sl No	Parameter	Owner Requirement	Documents to be submitted by Bidder
2	Performance	At least one (01) Performance Certificate by any DISCOMs / PSUs / Reputed companies is to be submitted. The work against these issued certificates should be completed in last 07 years from the date of bid submission. In case the bidder has got previous association with TP DISCOMs for supply of similar product, performance feedback of the same.	The performance certificate and contact details of the client need to be submitted
3	ISI Certification	Smart Meters offered shall have Certification for 'ISI marking as per IS:16444 with latest amendment. The certification should be valid on the date of Tender opening.	Copy of Certificate for the Smart Meter offered should be furnished.
4	In-house Testing Facility	The bidder should have in-house fully automatic smart meter testing Facility for last 3 years.	Under taking for in-house fully. In case they are not having any testing facility as per our requirement, they will provide within 3 months post awarding the contract.
B	Financial Pre-Qualification Requirements		
1	Commercial Capability	The bidder should have Average Annual turnover of at least Rs. 75 Cr. for last 3 Financial Year (FY). Qualification Requirement of Financial Turnover for MSME registered in the State of Odisha shall be reduced to 20% of the existing criteria	Copy of audited P&L Account (with UDIN no.) to be submitted in this regard
2	Experience	The bidder should have manufactured & supplied 1.0 Lakh (Quantity) Number of Smart Meters in last 5 years as from original bid submission date.	Individual Client's PO / WO needs to be submitted
3	Statutory Compliances	The bidder must have valid GST registration, valid PAN Card & Odisha State MSME Certificate (if applicable)	Copy of Certificates to be submitted in this regard

10.0 Reverse Auctions & Award Decision (Spilt Criteria): Based on the qualified bidder and Management requirement, CCG reserves the right to adjust the splitting as per bidders' participation / qualification / any other unforeseen condition in tender.

Pre-bid response & Revised Annexure-1 as attached below;

All other terms and conditions of the above tender shall remain unaltered.

Yours faithfully,

-sd-

HoD - Contracts (TPCODL) & CCG

CENTRALIZED CONTRACTS GROUP**NIT No.: TPCODL / CCG / 2024-25 / 1000002006****ANNEXURE-I****Price Schedule**

Sr No	Item Description	Unit	Quantity	HSN/ SAC Code	Unit Ex-Work Price (Rs. / Unit)	GST (Rs/ Unit)	All Inclusive Unit Rate (Rs.)	Total All Inclusive Value (Rs.)
1	Single Phase (5-30 Amp) Smart Meter (with NIC) and Meter Boxes	EA	14,95,000					
2	Single Phase (5-30 Amp) Smart NET Meter (with NIC) and Meter Boxes	EA	2,05,000					
Total Package Cost (in Rs.)								

NOTE:

- Prices shall remain Firm.
- The bids will be evaluated commercially on **the Overall Lowest Cost** basis.
- The prices mentioned above shall be on FOR basis for all the TPNODL, TPCODL, TPSODL & TPWODL locations.
- Issuance of Release Orders (RO) shall be done by respective DISCOM as per their requirement.
- The material shall be delivered as per the location captured in the Release Order.
- The bidders are advised to quote prices strictly in the above format. Failing to do so, bids are liable for rejection.
- The bidder must fill each and every column of the above format. ***Mentioning “extra/inclusive”/other conditions in any of the column may lead for rejection of the price bid.***
- No cutting/ overwriting in the prices is permissible.
- The quantity mentioned above are for evaluation purpose only and may vary as per actual site requirement.
- HES Integration: The bidders whose meter are not integrated with DISCOMs’ HES, they shall integrate their meter within 4 (four) month from issuance of Rate Contract.
- RO shall be issued post successful integration with existing HES system at DISCOM level.
- Incase bidder is not able to integrate their Meter with existing HES within 4 (four) months, DISCOM reserve’s the right to reduce the Contract Value (up to Zero) and same can be reallocated to other performing bidders.
- Awarding Criteria for new bidders (whose meters are not integrated with DISCOM existing HES): Considering the business continuity & the requirement, the initial RC value for new BAs will be restricted to maximum number of 1 (one) Lakh (in total) for all Four DISCOM. However, the value of the RC can be increased based on the performance & requirement of the DISCOM.
- Price Sensitivity: Bidder Shall quote the reasonable / workable price before and during the Reverse Auction. In case bidder will not able to deliver the material / perform due to the lower price factor, DISCOM will take the suitable action including backlisting for minimum 2 (two) years.

Format for Pre-Bid Queries					
Tender No: TPCODL / CCG / 2024-25 / 1000002006					
Tender Description: Rate Contract - Supply of Single Phase Smart Meter (5-30 Amp) with Boxes for Tata Power Odisha Discoms					
Sr. No.	Detailed Reference to Tata Power Technical Document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	Tata Power Response	
1	2	3	4	5	
		NIT No. & Tender Description		TPCODL / CCG / 2024-25 / 1000002006 Tender Description: Rate Contract - Supply of Single Phase Smart Meter (5-30 Amp) with Boxes for Tata Power Odisha Discoms	
1	Clause 1, Page 28 Clause 4.3.24, Page 37	1. SCOPE There exists separate and distinct HES in 4 Utilities of Odisha. Bidder has to integrate in all 4 pre-existing HES at individual Utilities. The Data table & OBIS codes & Discom Specific codes shall be shared during detailed engineering & integration validation. It must be noted that HES of 4 Discoms in Odisha are separate and distinct; therefore, the meters have to be seamlessly integrated with the existing HES available at each utility and there shall be no provision of a new HES being opted for by any bidder. All the integration efforts of meters at the 4 utilities and purposes stated here and elsewhere in the specification must take into account this requirement as a part of exercise.	It is understood that only successful bidder shall ensure integration with HES of all 4 DISCOMs, instead of all participating bidders. Kindly confirm.	There exists separate and distinct HES in 4 Utilities of Odisha. The successful bidder has to integrate in all 4 pre-existing HES at individual Utilities. The Data table & OBIS codes & Discom Specific codes shall be shared during detailed engineering & integration validation.	
2	Clause 1, Page 29	 Single Phase Two Wire, 230V, 5-30 A.....	Meter with Voltage rating of 240V provided. Please accept.	240 V (Complying with 230V)	
3	Clause 4.04, Page 31	Vref = 230 V	Impulse withstand Voltage will be 6 KV as per IS 13779.	Minimum 6kV	
4	Clause 4.11, Page 31	Rated Impulse withstand voltage : 10kV	The phrase "not for reading" is not understood. Kindly clarify.	6 digit for KWH & KVAH (energy) without decimal	
5	Clause 4.29, Page 32	Display 6+1 digits LCD display (not for reading)	Power supply to communication NIC is provided internally from the meter, hence no additional / separate power supply is required and not provided.	Noted	
6	Clause 4.33, Page 33	 Meter should be able to provide required power supply to NIC provided by communication provider, if separately required, recommended / finalized by TP/CN/S/W/ODL. All the NICs should be same & compatible with all types of meters (single phase/PPWC/LTCT/HT) & should be hot swappable.	NICs are specific to the type of meter and are swappable with same meter type of same manufacturer. As, the requirement is for 1Ph meters only, NIC will be swappable for same make of 1Ph meters.	Specification to be complied. Bidder to ensure NIC card compatibility with already supplied meters to Discoms of same make.	
7	Clause 4.33, Page 33		UC2 is required for Current Range of more than 60A. For 5-30A rating, UC1 serves the purpose. Kindly accept the same.	Specification to be complied	
8	Clause 4.1, Page 34	S.No. 6 : Utilization Categories - UC2 or better	Kindly check and confirm whether Billing should happen when Display Parameters are programmed.	Specification to be complied. This shall be shared during detailed engineering.	
9	Clause 4.3.3, Page 36	It shall be possible to reconfigure the meters for RTC, TOD slots reprogramming, DIP (Demand Integration period), billing date, display parameters etc. through proper authentication process locally through MRI and remotely over the air (OTA) . . . And billing should be done whenever any above mentioned attribute is changed except RTC.			
10	Clause 4.4.1, Page 37	Magnetic Field: Meter shall record accurate energy in case of any external influencing signals in line with IS 13779:1999 Cl.11.2 and variation in limits of error (up to 100% Imax) shall be as per the table 17 of IS 13779.	Magnetic influence and immunity will be as per CBIP-325.	As per IS 13779:2020 with latest amendment thereof	
	Clause 4.6, Page 40	4.6 ABNORMAL AND TAMPER CONDITIONS TABLE NO.1	Please clarify which Tamper Logic table to be considered.	Annexure-D	
11	Annexure-D, Page 76	Tamper threshold table- Annexure-D			
	Clause 4.6, Page 40	Meter Top Cover Open (TC Open) - immediate - 05 (stay put Type)	We request you to accept Cover Open as No-Rollover type, i.e. single event only	Specification to be complied	

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1	2 Clause 5.4, Page 46	3 5.4.3. One no polycarbonate seal shall be provided by the TP(C/N/S/W)ODL. This seal shall be fix on right hand side of meter. 5.4.6 For Plug in type NIC card, cover should have proper sealing arrangement and should be sealed with TP(C/N/S/W)ODL polycarbonate seal.	4 Please confirm whether for each meter, 2 nos. Seal will be provided by TP(C/N/S/W)ODL) - one for Meter Body and one for NIC.	5 Ino. Seal shall be provided for meter body by TP Odisha DISCOMs.
12				
13	Clause 5.7.5, Page 49	AUTO SCROLL / PUSH BUTTON MODE WITH POST-PAID PAYMENT MODE	Please clarify which Display Parameter List to be considered.	The display parameters shall be shared during detailed engineering.
14	Annexure-C, Page 74 Clause 5.7.5, Page 49	Single Phase Common Display list for all combinations Inst. Neutral Power	Inst. Active Channel Power will be provided	Specification to be complied
15	Clause 5.7.5, Page 51	Bidder to provide software to convert meter to any mode over the air by sending command through HES.	Mode change can be achieved with the existing HES (after integration is completed). It will not be in Bidder's scope to provide Software for mode change 'over the air'. Kindly amend.	Noted
16	Clause 5.8.2, Page 55	5.Phase Indication – Power on indication shall be provided as icon on the LCD.	Phase indication is not applicable for 1ph meters.	Specification to be complied
17	Clause 5.8.3, Page 56	However the following shall be printed in bar code on the meter nameplate.	Please allow printing of QR Code also.	Noted
18	Clause 7.2, Page 58	Box : Cable entry to meter box should be from side and gland should be such aligned that cable should enter meter box in upward direction	Bottom Cable Entry arrangement can be provided. Kindly accept.	Specification to be complied
19	Clause 11, Page 60	SAMPLE: Tendering Stage: Bidders are required to manufacture 04 numbers of sample meters as per the TP(C/N/S/W)ODL specification (sealed, unsealed and openable base and cover to view/test the inner circuits)and submit the samples (non-returnable) along with bid for approval.....	Request allow submission of tender samples within 3 weeks from date of Bid submission, as the time is too short to prepare and submit the Sample meters within the Tender Due date.	Specification to be complied
20	GCC - Annex B, Page 106	PROFORMA FOR PERFORMANCE BANK GUARANTEE (CP cum EP) 8. Any claim / extension under the guarantee can be lodge-able at outstation banks or at Bhubaneswar branch and claim will also be payable at Bhubaneswar Branch (to be confirmed by Bhubaneswar Branch by a letter to that effect in case BG is from the branch outside Bhubaneswar).	We request you to kindly amend and remove the requirement of Payability of the BG in Bhubaneswar/local Branch, as any Claim sent by mail is accepted and honoured by the Issuing Bank anywhere in the country. This Request is in view of difficulty we are facing in getting the BG's issued with local invocability.	Firm As per NIT
21	GCC - 13.6, Page 186	Associates shall further be responsible for 'free replacement' for another period of 'THREE' years from the end of the guarantee period for any 'Latent Defects' if noticed and reported by the Company.	We will be responsible for service during Guarantee period. Same shall not be extended beyond Guarantee period.	Specification to be complied
22	GCC - 13.7, Page 186	The Associate shall ensure availability of spares and necessary support for a period of atleast 10 years post completion of guarantee period of equipment supplied against the contract. Payment Terms: 100% payment within 60 days of submission of error-free Invoice complete in all respects.	Meter is a product subject to improvement, spare and support availability beyond guaranteed period can't be guaranteed.	Specification to be complied
23	SCC - 13.1, Page 16 GCC - 6.0, Page 85 GCC - 6.0, Page 129 GCC - 6.0, Page 176 GCC - 6.0, Page 223	TPCODL will make 100% payment within 30 days of submission of the Bill/Invoice complete in all respects TPNODL will make 100% payment within 45 days of submission of the Bill/Invoice complete in all respects TPSODL will make 100% payment within 30 days of submission of the Bill/Invoice complete in all respects TPWODL will make 100% payment within 30 days of submission of the Bill/Invoice complete in all respects	Understood Payment terms under SCC supercede payment terms of all 4 DISCOMs. Kindly confirm	Payment Terms: 100% payment within 60 days of submission of error-free Invoice complete in all respects. However, for MSME the payment cycle shall be 45 days.

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1	2	3	4	5
24	Tender_Smart Meter / 4.0 / 33 of 317	4.37 Meter cover and body should be continuous seamless welded only through chemical bonding.	Please accept ultrasonic welding as an alternative option to chemical welding. Ultrasonic welding, unlike chemical welding, is suitable for our meter's continuous (non-snap-fit) design. For this type of design, we utilize ultrasonic welding which is a standard industry practice, and unsuitable for chemical welding	Specification to be complied
25	Tender_Smart Meter / 4.3 / 36 of 317	4.3.3: It shall be possible to reconfigure the meters for RTC, TOD slots reprogramming, DIP (Demand Integration period), billing date, display parameters etc. through proper authentication process locally through M/R1 and remotely over the air (OTA). Meter data should remain intact with timings. And billing should be done whenever any above mentioned attribute is changed except RTC.	As per the clause 4.3.3 billing is required at display parameter configuration. But as per the serial number 5 of downloadable parameter list of page- 66, billing requirements are as given below Billing shall be done at following programming events a. Metering mode change b. Payment mode change c. Communication driven MD reset d. Time zone activation e. Demand integration period change f. Firmware upgrade Both the requirements are conflicting. Kindly confirm whether billing is required at display parameter configuration or not	This shall be shared during detailed engineering . The display parameters shall be changed in programming of events such as Metering mode change/MD reset etc. Billing shall be done. If only Display is changed without making any other change in metering mode, no billing to be done.
26	Tender_Smart Meter / 4.4.1 / 37 of 317	Abnormal Magnetic field is defined as below; a) Continuous DC magnetic induction: $>0.27 \text{ Tesla} \pm 5\%$ (Value of the magnetomotive force to be applied shall be generally $>10000 \text{ AT}$. b) AC magnetic induction: $> 10 \text{ milli Tesla}$ (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 $>0.5T$.	.	As per IS 13779:2020 with latest amendment thereof
27	Tender_Smart Meter / 4.4.2 / 38 of 317 & Table No/ 40 of 317	<u>Electrostatic Discharge (ESD)</u> : Meter, inside meter box, shall be immune up to 50 kV and shall record accurate energy as per IS 13779:1999 / CBIP-325. Meter shall log the event into memory as 'ESD' with date & time stamp for any ESD greater than 35 kV with snap shot the event logging threshold values as per table no. 1 in 4.6.	If the meter is immune to the spark test, logging the event may be optional. We request your acceptance of this.	As per IS 13779:2020 with latest amendment thereof
28	Tender_Smart Meter / 4.4.4 / 39 of 317	The Meter inside meter box should be immune to high / low frequency Jammer devices. Meter shall log the event in its memory as 'JAMMER' with date and time stamp, the threshold values as per table no. 1 in 4.6.	Kindly note that if meter is immune to Jammer device, so logging may be treated as optional. Kindly accept the same.	Specification to be complied
29	Tender_Smart Meter / 4.4.5 / 39 of 317	The meter inside meter box should be immune or log the tamper on application of any other higher magnetic field of any frequency waves, micro waves like magnetron etc.the threshold values as per table no.1	A magnetron is a non-standard device. Therefore, we cannot guarantee the meter's performance when a magnetron is applied. We request that this requirement may be removed.	This clause is deleted
30	Tender_Smart Meter / 4.6.5 / 40 of 317	During abnormal & tamper conditions, the current shall be recorded as active current and line current.	This can be complied. Kindly share us the data models for all 4 utilities for implementations of data requirements	This shall be shared during detailed engineering .
31	Tender_Smart Meter / Table 1 / 40 of 317	Over Load : Occurrence: $> 120\% \text{ I}_{max}$ Restoration: $< 100\% \text{ I}_{max}$	The overcurrent threshold is specified as a percentage of I_{max} or in Amperes, while the overload threshold should be specified in Watts or kilowatts, as per industry standards. Therefore, please specify the load limit setting in Watts or kilowatts. Additionally, please clarify whether the load switch should be activated when either the overload or overcurrent limits (or both) are exceeded.	Specification to be complied
32	Tender_Smart Meter / 4.8_Component List / 43 of 317	<u>Display modules makes</u> : Taiwan: Holtek Singapore: Bonafied Technologies Korea: Advantek China: Xianmen, Truly semiconductor	We request the addition of Holitek and Pixel as approved manufacturers. These are reputable brands with a strong presence in India, and their lead times are within acceptable limits for project execution.	Specification to be complied. Any deviation in component prior approval to be taken.
33	Tender_Smart Meter / 4.8_Component List / 43 of 317	<u>Batteries</u> : Varta / Tedirun / Vitzrocell / Sanyo / Panasonic/ Texcell	We also request the addition of EVE and Mitsubishi as approved manufacturers, as they are reputable brands.	Specification to be complied. Any deviation in component prior approval to be taken.
34	Tender_Smart Meter / 5.2.6/ 45 of 317	To get the desired temperature rise & avoid hot spots the design of the each terminal screw shall be Allen head screw & shall be operated with Allen key.	We propose using M4 star head screws as an alternative. These screws fulfill the required utility purpose. We request your approval.	This shall be shared during detailed engineering. (Ni plated Brass screws to be provided)

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35	Tender Smart Meter / 5.7.4 / 49 of 317	The display should be readable in direct sunlight. The back lit must be green in color for good visibility of digits in sunlight.	Milky white backlit display provides superior visibility in sunlight and daylight compared to a green display. It also offers better contrast at night. Therefore, we request your acceptance of the milky white backlit display as an alternate option.	Specification to be complied
36	Tender Smart Meter / 5.8.3 / 56 of 317	<u>Name plate and Marking:</u> iv. Serial number (Meter serial number shall be laser printed on name plate instead of sticker). However the following shall be printed in bar code on the meter nameplate (shall be laser printed on name plate instead of sticker). All data shall be laser printed on meter along with Sr. NO and date of manufacturing. No sticker to be used to avoid loss of data in event of fire.	We propose using indelible pad printing for the nameplate details as an alternative. We request your acceptance of this method.	Specification to be complied
37	Tender Smart Meter / 5.8.3 / 56 of 317	Bidder should ensure that each NIC provided in meter is having laser printed Sr. No., MFGdate, 'Property of TP(C/N/S/W)ODL' marking, PO / RO no.& date (same as that of meter PO / RO)	Kindly accept details on NIC with indelible pad printing as an alternative.	Specification to be complied
38	Meter Body- 44/5.1 METER BODY 5.1.5	Meter cover & base shall be provided with continuous and seamless chemical bonding such that it cannot be opened without breaking the enclosure.	Ultrasonically Welded Meters are also same (i.e. it cannot be opened without breaking the enclosure). Kindly consider.	Specification to be complied
39	DISCONNECTOR SWITCH - 34/4.1 6 Utilization Categories	Utilization Categories: UC2 or better	For 1 Phase 5-30Amps meter Utilization Category UC1 is sufficient and will not affect the performance of the meter. So, we request you to accept UC1 also.	Specification to be complied
40	GENERAL TECHNICAL REQUIREMENTS: 31/4 4.08 Starting Current	20 mA (0.2% of Ib) (phase or neutral current)	Meter rating is 5-30Amps. Kindly clarify starting should be on 20mA or 0.2%Ib i.e. 10mA)	0.2% of Ib
41	GENERAL TECHNICAL REQUIREMENTS Calibration :33/4.32	Meters shall be software calibrated at factory and modifications in calibration shall not be possible at site by any means. There shall be provision for firmware update to change payment mode from Prepaid to Postpaid and vice versa; similarly for metering mode from Import only to Export-Import (NET mode) and vice versa, through proper authentication process remotely over the air (OTA). The change should be recorded as Transaction event. Billing should be done at that time of firmware upgrade so that readings at which this upgrade has happened are logged in meter and system. Display update shall be done accordingly remotely.	As per IS it is not required only transaction will be logged. Kindly accept as per IS.	Specification to be complied
42	Downloadable Parameters: 66/5	Billing shall be done at following programming events a. Metering mode change b. Payment mode change c. Communication driven MD reset d. Time zone activation e. Demand integration period change f. Firmware upgrade	Billing will be done as per IS only when Communication driven MD reset and Time zone activation. For rest transaction will be logged in meter as Per IS. Kindly accept as per IS.	Specification to be complied
43	4.3 Communication capabilities and software feasibilities 38/4.3.23	4.3.23 Following parameters may be updated multiple times during life cycle of meters over the air: TOD Update Post Paid to Prepaid mode and vice versa Import mode to export Mode and vice versa. Accordingly Display parameters shall be updated remotely.	As per IS 15959 Part2, the display configuration is not defined. Kindly accept as per IS.	Specification to be complied

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44	LOAD SURVEY (FOR PRE-PAID, POST-PAID & NET METER MODE): 47/5.6 and 49/5.7.5 and Page 75	Meter shall be delivered in thin prepaid non-ToD configuration, thereby, enabling both prepaid and post paid functionality. Whereas in AUTO SCROLL / PUSH BUTTON MODE WITH POST-PAID PAYMENT MODE: it is mentioned that "All meters to be supplied in postpaid, import mode only, until unless specifically intimated" and in Annexure C: "2. Post-paid without TOD (Default setting)"	Kindly clarify the default Mode for Display.	Specification to be complied
45	LOAD SURVEY (FOR PRE-PAID, POST-PAID & NET METER MODE): 47/5.6	Midnight energy value of cumulative KWh, KVAh along with Current (Rising Demand) KW and Current (Rising Demand) KVA along with daily consumption kWh should be available in meter memory for last 35 days.	Kindly clarify the exact requirements.	Specification to be complied
46	INSTANTANEOUS PARAMETERS: 47/5.7	Parameters: Terminal Block Temperature (°C) is asked in instant whereas in Annexure-B Downloadable Parameters List:- Instant parameters no. 23 only temperature is asked All the changes in software of meter to be logged along with date & time stamp and readings.	Kindly clarify the exact requirements.	Terminal Block Temperature (°C) to be provided.
47	TRANSACTIONS: 48/5.7.3	Whereas in Annexure-B Downloadable Parameters List:- Profile for Power Fail(e=2), Transaction(e=3), Non Rollover (e=5) & Control (e=6) events no such OBIS code are defined for readings(energies)	As per IS and as per Data module provided in Annexure B no provision is there to provide readings along with transactions. Kindly clarify.	Specification to be complied
48	BILLING PARAMETERS: 48/5.7.2	Last five modes with date & time of switching with cumulative energy parameters of kWh, TOD1 kWh, TOD2 kWh, KVAh, TOD1 KVAh, TOD2 KVAh	Kindly clarify the exact requirements.	Specification to be complied
49	BILLING PARAMETERS: 48/5.7.2	6) Mode of operation of dis-connector switch	Kindly clarify the exact requirements.	Mode of operation of dis-connector switch(Open/Close) to be provided.
50	Downloadable Parameters: 66/4	Communication LCD indicator-Meter display shall have indication in context to NIC. The blinking should be slow when NIC is detected; blinking should be fast when NIC had searched the network and it should be stable when it is successfully latched to the HES.	 We are providing this indication. Kindly accept	Specification to be complied
51	LOAD SURVEY (FOR PRE-PAID, POST-PAID & NET METER MODE): 47/5.6	Meter serial number and NIC serial number shall be recorded and communicated for all profiles of data.	As per data structure defined under Annexure B Downloadable Parameters List:- Only Meter Sr. No. is defined in all profiles and NIC serial number is not mentioned. Kindly clarify.	Meter serial number shall be recorded and communicated for all profiles of data.
52	DISPLAY UNITS 48/5.7.4	It is mentioned that "Scroll lock option is required"	Kindly provide the method and timings for scroll lock.	Scroll lock option may be provided with the help of long press of push button & display shall automatically change to auto display after 5mins.
53	Annexure-B Downloadable Parameters List:- Billing Profile: 69	42 Cumulative MD KW Import/forwarded with date & time 43 Cumulative MD KVA Import/forwarded with date & time	In Cum MID values keep on adding so there will be no date & time for Cum MD. Kindly Clarify.	Noted
54	Annexure-B Downloadable Parameters List: Block Load Profile: 70	Note-3: Block load profile parameters shall be field programmable by TP(C/N/S/W)ODL specific OBIS code. On changing capture object LS data will be reset	As per IS 15959 Part2, Only Profile capture period is configurable not Block load profile parameters. Kindly remove from the clause.	Noted
55	Annexure-B Downloadable Parameters List:- Name Plate Profile : 71	Details of Metering mode (imp/exp), postpaid/prepaid should be updated in the name plate profile	But as per Data Structure no OBIS codes are defined. Kindly clarify	Specification to be complied. The data model of each Discoms shall be shared during detailed engineering.
56	ABNORMAL AND TAMPER CONDITIONS: 39/4.6.3	Meter should have break to open design and cover open tamper snapshot should be with Kwh and KVAh reading.	As per IS and as per Data module provided in Annexure B no provision is there to provide readings along with Non Roll Over Events. Kindly clarify.	Specification to be complied

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1	2	3	4	5
57	Annexure-A Push data list:67	Billing Push Data: 4 Billing profile (All billing profile parameters which are mentioned in billing profile – 1.0.98.1.0.255)	As per IS 15959, only 10 parameters are required in the push profile. Kindly define the minimum parameters	Specification to be complied
58	Annexure-A Push data list:67	Mid-Night Push Data: 4 Daily survey profile (All daily survey profile parameters which are mentioned in daily profile – 1.0.99.2.0.255)	As per IS 15959, only 10 parameters are required in the push profile. Kindly define the minimum parameters	Specification to be complied
59	Annexure-A Push data list:67	Periodic Schedule Push Instantaneous Profile: 4 Daily survey profile (All daily survey profile parameters which are mentioned in daily profile – 1.0.99.2.0.255)	As per IS 15959, only 10 parameters are required in the push profile. Kindly define the minimum parameters	Specification to be complied
60	Programmable Parameters: 74 Parameter 39	Load control parameters	Kindly Clarify the exact requirement	Discom should have provision of changing the tripping load of meters from 120% of Imax to any other value. (150% of Imax)
61	Annexure-C: 75	Parameter: TOD Cum. kWh (T1, T2)	Kindly clarify parameters required whether T1 and T2 zones only or all zones data should be provided.	TOD zones(Programmable to 8 zones) shall be shared.
62	Clause - 2.0 Page No. - 7 Parameter - Performance	At least two (02) Performance Certificate by any Discoms/ PSUs/ Reputed companies is to be submitted. The work against these issued certificates should be completed in last 07 years from the date of bid submission. In case the bidder has got previous association with TP Discoms for supply of similar product, performance feedback of the same.	Performance Certificate of any one Discom/ PSU/ Reputed company may please be considered.	Performance - At least one (01) Performance Certificate by any DISCOMs / PSUs / Reputed companies is to be submitted. The work against these issued certificates should be completed in last 07 years from the date of bid submission. In case the bidder has got previous association with TP Discoms for supply of similar product, performance feedback of the same.
63	Clause - 2.0 Page No. - 7 Parameter - Experience	The bidder should have manufactured & supplied 2.0 Lakh (Quantity) Number of Smart Meters in last 5 years as from original bid submission date.	The bidder should have manufactured & supplied 1.0 Lakh (Quantity) Number of Smart Meters in last 5 years as from original bid submission date.	The bidder should have manufactured & supplied 1.0 Lakh (Quantity) Number of Smart Meters in last 5 years as from original bid submission date.
64	Clause - 4.1 Page No. - 34 Parameter - DISCONNECTOR SWITCH	Utilization Categories - UC2 or better	As per IS 16444 Part-1 :2015, Amendment – 2, “Category UC1 is applicable to smart meters rated at maximum current upto 100A.”	Specification to be complied
65	9.5 (GCC)	The vendor shall also dispose off the e-waste generated at the end of the product life cycle at its own costs and risk as per the MoEF guidelines/ Orders-	In view of same Minimum requirement for utilization category of the Disconnector switch shall be changed to UC1.	Specification to be complied
66	13.3 (GCC)	If during the Warranty/ Guarantee period some parts of the supplies are replaced owing to the defects/ damages under the Warranty, the Warranty period for such replaced parts shall be until the expiry of twelve months from the date of such replacement or renewal or until the end of original Guarantee period, whichever is later.	Please delete this clause	Specification to be complied
67	8 (GCC)	SECURITY CUM PERFORMANCE DEPOSIT: 5% of the RC value in case of Rate Contract. This shall remain valid till the Guarantee period plus one month	Please amend as the Warranty period for such replaced parts shall be until the end of original Guarantee period	Specification to be complied
			Please amended as 1% of the RC value at time of contract in case of Rate Contract & 4 % at time of individual RO	As per NIT

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1	14 (GCC) 2	LIQUIDATED DAMAGES For delay of each week and part thereof from the delivery schedule specified in the contract, 1% of contract value corresponding to undelivered quantity, provided full quantity is supplied within 130% of the original contract time. If full contractual quantity is not delivered within 130% of contract time for delivery, TPSODL has the right to levy LD on the entire contract value, subject to a maximum of 10% of the total contract value.	4	5
68			Please amended as For delay of each week and part thereof from the delivery schedule specified in the contract, 0.5 % of contract value corresponding to undelivered quantity, provided full quantity is supplied within 130% of the original contract time. If full contractual quantity is not delivered within 130% of contract time for delivery, TPSODL has the right to levy LD on the entire contract value, subject to a maximum of 10% of the total contract value.	As per NIT
69	13.7 (GCC)	The Associate shall ensure availability of spares and necessary support for a period of atleast 10 years post completion of guarantee period of equipment supplied against the contract	Kindly amend it as The Associate shall ensure availability of spares and necessary support for a period of at least 2 years post completion of guarantee period of equipment supplied on chargeable basis against the contract as in rapid changing environment availability of spares for 15 years cant be ensure	Specification to be complied
70	5.3 Safety Performance Evaluation Appendix 5:	Safety Performance Evaluation	We understand that Safety Performance related penalties are not applicable on us as our scope is limited to supply of meter only	Noted
71		CSM- F-4 Safety Violation Penalty	We understand that Safety Violation Penalty are not applicable on us as our scope is limited to supply of meter only	Noted
72	Payment Terms	Page 16 7. Payment Terms: 100% payment within 60 days of submission of error-free Invoice complete in all respects. However, for MSME the payment cycle shall be 45 days Page 85. TPCODL will make 100% payment within 30 days of submission of the Bill/Invoice complete in all respects and along with all the requisite documents mentioned above Page 129 TPNODL will make 100% payment within 45 days of submission of the Bill/Invoice complete in all respects and along with all the requisite documents mentioned above Page 176 TPSODL will make 100% payment within 30days of submission of the Bill/Invoice complete in all respects Page 223 TPWODL will make 100% payment within 30 days of submission of the Bill/Invoice complete in all respects	Please clarify payment terms as different-2 payment terms is given in different pace for different utility considering bidders have to quote single rate for all utilities & payment terms is having cost implication	Payment Terms: 100% payment within 60 days of submission of error-free Invoice complete in all respects. However, for MSME the payment cycle shall be 45 days.
73		Bidder should also provide base computer software (BCS) for viewing the data downloaded through HES / MRI / laptop / HHU in separate PC/laptop. Android based or windows based HHU shall be preferred.	We understand that supply of / MRI / laptop / HHU in separate PC/laptop is not in bidders scope	Supply of / MRI / laptop / HHU in separate PC/laptop is not in bidders scope. Bidder shall provide necessary software & support for CMRI/laptop etc. BCS Software & Mobile app for data downloading of meters shall be provided.
74	a) Communication capabilities and software feasibility 1. Scope	Bidder to provide any support on a later stage on the request of TPC(N/S/W)ODL without anycost implication till the useful life of meter which is considered as 10 years from the date of supply. This specification covers the technical requirements of design, manufacturing, testing & integration with Network Integration Card (NIC) for communication over 4G for communication network provider, at meter manufacturer's works, packing, forwarding, supply and unloading at store, of Single Phase Two Wire, 230V, 5-30 A static smart energy meters of accuracy class 1.0 (here after referred as meters) complete with all accessories and meter box for efficient and trouble-free operation	Kindly amend as Bidder to provide any support on a later stage on the request of TP(C/N/S/W)ODL without anycost implication till the warranty period after that it will be on mutually agreed chargeable basis & after evaluating its feasibility.	Specification to be complied.
75			Please accept voltage rating with 240 V, 5-30 A, CI-1.0 with 4G cellular WAN technology as per IS 16444 Part 1	Specification to be complied . 240V (Complying with 230V) is accepted.

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1	2 4.23 Self-Diagnostic feature	3 The meter shall have indications on meter display, for anomaly/ unsatisfactory / non-functioning of (i) Real Time Clock (ii) RTC battery (iii) Non Volatile Memory (iv) NIC Status of NIC (installed / discovered /normal) / Signal Strength	4 Please accept meter indications on meter display will be like (i) Real Time Clock (ii) RTC battery (iii) NVM (iv) NIC Signal strength will be display in the meter in Test mode as RSSI. NIC status will be shown in the meter in Test mode as error – 00 to 11	5 Specification to be complied
76				
77	4.27 Minimum Internal diameter of the terminal holes Depth of the terminal holes	5.5 mm (minimum)22 +1 mm	Please accept depth of terminal holes - 17.5 mm ± 1 mm	Noted
78	4.31 Software and communication compatibility	The bidder shall supply software required for local HHU & Remote (AMI) connectivity including required training to use the software free of cost as required by utility or HES / Communication service provider. If this software can be used in a device readily available in market and can connect to meter through optical port or other communication port without any security checks / or with MR securities which OEM will provide; then, OEM can provide only software, else the device on which this software will run is also to be provided along with technical specification of this device	Please accept Genus android based mobile application in place of HHU	Android Based Mobile application, BCS Software & all necessary support to be provided for data downloading of meters.
79	4.33 Communication module of meter for AMI	All the NICs should be same & compatible with all types of meters (single phase/PPWC/LTCT/HT) & should be hot swappable	NIC for 1P will be different and not be same and not be compatible with 3P, LT & HT NICs	Noted
80	4.1 Disconnector Switch	4. No. of poles - Double Pole relay for phase & neutral	2 single pole relays are being provided, corresponding configuration to be done in HES (should be reported in HES in case of anomaly)	Noted
81	4.3 (a) Communication capabilities and software feasibility	4.3.1 The meter shall have facilities for data transfer locally through Meter Reading Instrument (MRI)/Mobile app/BCS (Using optical port) and remotely by 4G with proper security via Plug in type NIC. Data transfer locally through optical port via MRI is desired along with data transfer through NIC card. The data downloaded in MRI / Hand Held Device shall be integrated to HES data base	Please accept android based genus mobile app will be given in the place of MRI	Android Based Mobile application, BCS Software & all necessary support to be provided for data downloading of meters.
82	4.3 (a) Communication capabilities and software feasibility	4.3.17 Communication NIC / network should be immune with any external Magnetic field / ESD / Jammer/ HV voltage influence such that it shall not affect the normal overall functionality	Please accept as per CBIP-325	Specification to be complied
83	4.4 b) IMMUNITY AGAINST EXTERNAL INFLUENCING SIGNALS (to be attained with meter box).	4.4.1 Magnetic Field and abnormal magnetic field 4.4.2 ESD 4.4.3 High Voltage and High Energy or Low Energy Impulse 4.4.4 JAMMER 4.4.5 Application of any other higher magnetic field of any frequency waves, micro waves like magnetron etc	Please accept as per CBIP-325, . If meter affected by these external influencing signals then meter will log the event or permanently damaged	Specification to be complied. Deleted - Application of any other higher magnetic field of any frequency waves, micro waves like magnetron etc
84	4.5 (c) NEUTRAL DISTURBANCE & OTHER TAMPERS	4.5.4 Defraud Metering is not required if all the connections are intact & supply voltage is low. There is no external interference	If meter is in power on state and meter log ND tamper then meter will record energy with actual electrical condition present at the terminal of meter & If meter is in power off state (sleep mode) and meter log ND, tamper then meter will record energy as per rated voltage & U/PF in proportion to the drawn current	Noted. Defraud Metering is not required if all the connections are intact & supply voltage is low & there is no external interference
85	4.5 (c) NEUTRAL DISTURBANCE & OTHER TAMPERS	4.5.5 Current mismatch – Meter should logged current mismatch event as per thresholds in table no. 1. Priority of logging this event in memory of meter is higher than EL. Further, earth indication in LCD shall glow & log event as per its own logic irrespective of this logic	Please accept earth indication will be provided in meter's LCD and same icon will blink if current mismatch	Noted. Energy recording shall be on higher of Phase Current / Neutral Current.

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1	2 4.7 Event Compartment	3 The size of the event compartments should be such that, all above events (in table no.1 and other required events defined in various clauses of this documents) are accommodated in the assigned event category compartment i.e. if in case of voltage compartment assigned to 4 number of events, then the minimum size of this compartment should be such that, it should accommodate sum of all maximum number of events as marked above table no. 1	4	5 Specification to be compiled.
86			The event compartments as per DLMS IS 15959 Part 2	
87	5.1 Meter Body	5.1.3 Meter base shall be opaque with polycarbonate LEXAN 500R or equivalent (i.e chart of Lexan 500R compared with the alternative material) on prior approval from the TP(C/N/S/W)ODL. (the bidders should submit material data sheet in technical bid)	Please accept superior material like 503R, or equivalent for meter base also. Since the same material grade is also accepted for meter cover	Noted
88	5.2 TERMINALS, TERMINAL BLOCK	5.2.6 The Size of the screw shall be 6mm dia. The material and plating details of terminals screw shall be provided. MS screws shall not be accepted. To get the desired temperature rise & avoid hot spots the design of the each terminal screw shall be Allen head screw & shall be operated with Allen key. Nickel plated brass screws to be provided	Please accept Minus headed nickel plated brass screw will be provided	Noted
89	5.3 TERMINAL COVER	5.3.3 The terminal cover shall be short: 25 mm length from bottom of terminal block in line with meter base	Please accept 20 mm length	Noted
90	5.6 TERMINAL COVER	LOAD SURVEY (FOR PRE-PAID, POST-PAID & NET METER MODE)	We will provide as per TP C/N/W/S ODL data models from existing supplies, which are already integrated with their respective HES	The data table shall be provided during detailed engineering at the time of integration.
91	5.8.2 Output Devices	2. EL LCD Indicator- The meter shall be provided with suitable earth mark indicator for Earth Leakage. The EL Indicator shall glow when there is a difference of 6.25 %lb between phase and neutral current. This should be recorded as an event in memory and communicated to HES	We will provide as per TP C/N/W/S ODL data models from existing supplies, which are already integrated with their respective HES	The data table shall be provided during detailed engineering at the time of integration.
92	General Queries	Data models - Annexure - A (Push Data) Annexure - B (Profile Sheets) Annexure - C (Display Parameters) Annexure - D (Tamper Sheets)	We will provide as per TP C/N/W/S ODL data models from existing supplies, which are already integrated with their respective HES	The data table shall be provided during detailed engineering at the time of integration.
93	General Queries	Component Sheet Data models in this tender - Annexure - A (Push Data) Annexure - B (Profile Sheets) Annexure - C (Display Parameters) Annexure - D (Tamper Sheets)	Latest component sheet will be share at the time of GTP submission	Specification to be compiled.
94			When there is a distinct and independent requirement of all 4 utilities then why common data models are given in the tender. You may please add that separate data models will be share at the time of integration or you can add separate data models of each utility in this tender. It is always making confusion to meter OEMs	There exists separate and distinct HES in 4 Utilities of Odisha. The successful bidder has to integrate in all 4 pre-existing HES at individual Utilities. The Data table & OBIS codes & Discom Specific codes shall be shared during detailed engineering & integration validation. Common data model is for reference only.

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1	2 4.32/Page No. 32 of 317	3 Self-Diagnostic feature:- The meter shall have indications on meter display, for anomaly/ unsatisfactory / non- functioning of (i) Real Time Clock (ii) RTC battery (iii) Non Volatile Memory (iv) NIC Status of NIC (installed / discovered / normal) / Signal Strength	4 We will provide self-Diagnostic feature- 1-RTC Battery 2-Real Time Clock 3-NVM 4-NIC status	5 Specification to be complied
95				Specification to be complied
96	4.1/Page No. 34 of 317 4.3.3/Page No. 36 of 317	DISCONNECTOR SWITCH:-Utilization Categories UC2 or better Communication capabilities and software feasibilities:- It shall be possible to reconfigure the meters for RTC, TOD slots reprogramming, DIP (Demand Integration period), billing date, display parameters etc. through proper authentication process locally through MRI and remotely over the air (OTA). Meter data should remain intact with timings	as per IS 15884 UC1 applicable upto 100A so Kindly accept UC1 Relay	Specification to be complied
97			Kindly accept reconfiguration as per IS 15959 part 2. Kindly delete the requirement of reconfiguration display parameters.	Specification to be complied
98	4.3.23/Page No. 38 of 317	Following parameters may be updated multiple times during life cycle of meters over the air: TOD Update Post Paid to Prepaid mode and vice versa Import mode to export Mode and vice versa. Accordingly Display parameters shall be updated remotely.	Kindly accept parameter updated multiple times during life cycle of meters over the air: TOD UpdatePost Paid to Prepaid mode and vice versa Import mode to export Mode and vice versa. Kindly delete the requirement Display parameters shall be updated remotely.	Specification to be complied
99	1/Page No. 38 of 317	Scope:- This specification covers the technical requirements of design, manufacturing, testing & integration with Network Integration Card (NIC) for communication over 4G for communication network provider	Kindly clarify Communication module network 4 G or 4G fallback 2G Kindly confirm.	4G only
100	4.1.1/Page No. 31 of 318	Rated Impulse withstand voltage-10kV (shall be applied ten times with one polarity and then repeated with the other polarity.)	Kindly accept 6kV impulse as per IS 16444 part 1	Minimum 6kV
101	Please refer, Clause no. 5.2.11, 'Terminals, Terminal Block	Depth of the terminal holes shall be of 18 mm and more . Similarly in clause no. 4.27 "GENERAL TECHNICAL REQUIREMENTS" it is mentioned that Depth of the terminal holes 22+1mm.	Comment:- Both are contradictory requirement. We shall provide depth of terminal holes as per IS 13779. Please confirm.	Noted
102	Please refer, Clause no. 5.1.5, 'METER BODY'	Meter cover & base shall be provided with continuous and seamless chemical bonding such that it cannot be opened without breaking the enclosure. Similarly in clause no. 4.37 "GENERAL TECHNICAL REQUIREMENTS" it is mentioned that Meter cover and body should be continuous seamless welded only through chemical bonding.	Comment:- We shall provide ultrasonic/ Chemical Welding. Kindly confirm the same.	Meter cover and body should be continuous seamless welded only through chemical bonding.
103	Please refer, Clause no. 5.1.7, 'METER BODY'	Unidirectional screws with sealing arrangement through the screw (upside down) to be used on meter covers where ever required.	COMMENT:-We request you to kindly also accept the tightening of sealing screws from the front side and bottom portion of sealing screw shall be covered. Kindly confirm the acceptability of the same.	Specification to be complied
104	Please refer, Clause no. 5.2.6, 'TERMINALS, TERMINAL BLOCK'	The Size of the screw shall be 6mm dia . The material and plating details of terminals screw shall be provided. MS screws shall not be accepted. To get the desired temperature rise & avoid hot spots the design of the each terminal screw shall be Allen head screw & shall be operated with Allen key . Nickel plated brass screws to be provided.	Comment:- Kindly also accept M4 terminal screws of Nickel/Tinned plated brass and screw head star with (-) minus, which is technically suitable for 5-30A rating meter terminals.	Noted
105	Please refer, Clause no. 5.3.3, 'Terminal Cover'	The terminal cover shall be short: 25 mm length from bottom of terminal block in line with meter base.	Comment:- Kindly also accept the terminal cover with 25 to 30mm length from bottom of terminal block in line with meter base. Kindly confirm.	Noted
106	Page 1/317	Due Date for Bid Submission: 24/02/2025 [15:00 Hrs.]	Kindly extend the bid submission date for 2-3 weeks considering the prestigious tender enquiry of Iph Smart Meters, long term business association with TATA Power and world largest exhibition ELECRAMA - 2025 (IEEMA organized event) going on from 22nd to 26th Feb2025 at Greater Noida.	As per NIT

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107	B.2. Experience. Page 7/317	The bidder should have manufactured & supplied 2.0 Lakh (Quantity) Number of Smart Meters in last 5 years as from original bid submission date.	Pls. consider, The bidder should have manufactured & supplied 1.0 Lakh (Quantity) Number of Smart Meters in last 5 years and have received total 5.0 Lakh (Minimum) Number of Smart Meters LOI/ PO/ RC till date from original bid submission date.	The bidder should have manufactured & supplied 1.0 Lakh (Quantity) Number of Smart Meters in last 5 years as from original bid submission date
108	Clause 1, Scope. Page 29/317 and clause 4.04, page 31/317 and clause 4.5.3, page 39/317	Ref voltage - 230V	Kindly consider ref voltage 240V as per Type test Report and BIS certification	240V (Complying with 230V)
109	Clause 4.2.7, Page 32/317	Minimum Internal diameter of the terminal holes Depth of the terminal holes - 5.5 mm (minimum) 22 +1 mm	Kindly Consider- 9.5 ± 1mm and 20 mm ± 1 mm	Minimum Internal diameter of the terminal holes Depth of the terminal holes - 5.5 mm (minimum) Depth - As per IS
110	Clause 4.1.ii, Page 34/317	DISCONNECTOR SWITCH: ii. After 5 minutes, meter connects the relay and checks the tamper status for 1 minutes. If tamper condition persists, again relay is disconnected.	Kindly confirm- here tamper mean overload condition persistence time or tamper as per 38 conditions and trip the load	Over current condition
111	Clause 4.1.4, Page 34/317	No. of poles: Double pole relay for phase & neutral	Kindly consider - Single pole relay for phase & neutral	Noted
112	Clause 4.2.2.12, Page 35/317	Bidders to ensure NIC card compatibility with existing meters as well.	Kindly accept- Bidders to ensure NIC card compatibility with existing 1Ph smart meters supplied by that bidders in the past.	Bidder to ensure NIC card compatibility with already supplied meters to Discoms of same make.
113	Clause 4.3.8, Page 36/317	Bidder shall provide the communication protocol / APIs for communication with meter through local (MRI) / Mobile app / BCS remote (AMI) as and when required	Kindly deleted the clause as it is not applicable. Because Meter is designed as per ISI 6444 part-1 (ISI 5959 part-2) and Data profile sheet (OBIS) shared by Tata Power itself, so no need of protocol/ API required to be shared.	Specification to be complied
114	Clause 4.3.13, Page 37/317	Bidder should come out with it requirements for integration of meter with HES and MDMS clearly during tender submission	Bidder should come out with it requirements for integration of meter with HES only. MDMS is beyond the preview of bidder as it is integrated with HES only. So pls. delete the same.	Noted
115	Clause 4.3.18, Page 37/317	Meter once powered up with NIC card should be self-detected and its basic name plate details & current readings are transferred to HES.	Kindly review the clause to modify/delete considering practical requirement of these data on every power ON condition. It will create additional burden on TSP network as well as to HES.	Specification to be complied
116	Clause 4.6.2, Page 39/317 and Clause 4.7, Page 42/317	The event register compartment size shall be as per table no.1	Kindly accept - The event register compartment size as per ISI 5959 part-2	Specification to be complied
117	Clause 4.6.7, Page 40/317	All tamper/event logging thresholds values shall be configurable remotely over the air (OTA).	Kindly accept - Critical tamper/event logging thresholds values shall be configurable remotely over the air (OTA) in line with ISI 6444 and better meter data analysis in case of ambiguity if any occurred at the later stage (Due to individual meter reconfigured)	Noted
118	Clause 5.2.5, Page 45/317	Temperature rise at the terminal block will not be more than 35°C above ambient temperature of 45°C at 120% of I max loading for 6 hours continuous. This test shall be repeated at CPRI / ERDA on any meter per every 25000 meters or whenever required, without any cost implications	Kindly accept such types of test carried out in Type test report only. Test on every 25000 nos. meters at 3rd party lab will load additional price implication as well as time consuming activities.	Specification to be complied
119	Clause 5.3.1, Page 45/317	Terminal cover should not have any cuts for incoming and outgoing wires.	Kindly accept- "C" cut or Four "U" cuts for ease in Meter installation and connections.	Specification to be complied
120	Clause 5.4.8, Page 46/317	Bidder shall provide Routine test report (hard copy A5 size) along with each meter inside the box as well as soft copy.	Kindly accept - Soft copy of the Routine test report. The same can be provided to consumer through electronic media by Tata Power, if required. It will help to SAVE TREE	Specification to be complied
121	Clause 5.5, Page 47/317	NIC fail should be depicted on Meter display and suitable indication should be available at HES	Kindly elaborate the NIC fail conditions for better understanding.	Specification to be complied
122	Clause 5.7.4, Page 49/317	The kWh register shall have minimum 6 digits (without decimal) LCD display and size of the digits shall be minimum 10mmx5mm	Kindly accept - size of the digits shall be 8.5mmx5mm as per available LCD size world wide.	Specification to be complied

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123	Clause 5.8.2. Page 55/317	4. Load Switch LED indicator-The meter shall be provided with suitable LED indication for condition of load switch (Close / open). LED should show when load switch is open. (Red Colour LED)	Kindly accept- Load Switch LCD indicator for condition of load switch (Close / open).	Noted
124	Clause 5.8.3. Page 56/317	Bidder should ensure that each NIC provided in meter is having laser printed Sr. No., MFG date, 'Property of TP(C/N/S/W)ODL' marking, PO / RO no.& date (same as that of meter PO / RO)	Kindly review the clause to modify/delete some parameters/ informations considering the printing size of the NIC name plate additional to essential information required to print.	Specification to be complied
125	Clause 7.2. Page 58/317	Meter box shall be of polycarbonate transparent type (Degree of protection- IP55) Cable entry to meter box should be from side	Kindly accept-Cable entry to meter box should be from bottom side	Specification to be complied
126	Clause 10. Page 60/317	2. Individual meter should be packed in separate box. Routine test report (with min. tests as defined in 7.2) of the individual meter shall be kept inside each card board carton of the meter. 3. On back side of RTC the bidder shall print a picture of the meter with its small details for consumer to know about meter. 4. The softcopy of the routine test certificate of each meter to be provided with each lot to TP(C/N/S/W)ODL. MMG . Routine test reports of each meter in hard copy are to be provided inside respective meter box.	Kindly accept - Soft copy of the Routine test report. The same can be provided to consumer through electronic media by Tata Power, if required. It will help to SAVE TREE	Specification to be complied
127	NIT > Clause->2.0 >A(2): Performance	At least two (02) Performance Certificate by any Discoms/PSUs/Reputed companies is to be submitted. The work against these issued certificates should be completed in last 07 years from the date of bid submission. In case the bidder has got previous association with TP Discoms for supply of similar product, performance feedback of the same.	We had already supplied 1 Lakh Smart meters to Tata Power plus under RDSS scheme to CSPDCL and the same can be verified from TATA Power plus and related DISCOMs.	Performance - At least one (01) Performance Certificate by any DISCOMs / PSUs / Reputed companies is to be submitted. The work against these issued certificates should be completed in last 07 years from the date of bid submission. In case the bidder has got previous association with TP Discoms for supply of similar product, performance feedback of the same.
128	NIT > Clause->2.0 >B(2): Experience	The bidder should have manufactured & supplied 2.0 Lakh (Quantity) Number of Smart Meters in last 5 years as from original bid submission date.	Please consider the requirement as: The bidder should have manufactured & supplied 1,00,000 (Quantity) Number of Smart Meters in the last 5 years as from original bid submission date.	The bidder should have manufactured & supplied 1.0 Lakh (Quantity) Number of Smart Meters in last 5 years as from original bid submission date.
129	NIT > Clause->4.27 >Depth of terminal holes.	22+1 mm	Please consider the depth of terminal holes as 20±2 mm.	Noted
130	NIT > Clause->4.1 >Utilization category.	Utilization category: UC2 or better	Please consider the utilization category: UC1 or better.	Specification to be complied
131	NIT > Clause->5.2.6 >Size of terminal screw	Size of terminal screw: 6 mm	Please consider the size of terminal screw: 5±1 mm.	Noted
132	NIT > Clause->5.3.3 >Terminal cover: 25mm length from bottom	Terminal cover: 25mm length from bottom of terminal block.	Please consider terminal cover: 27±2 mm length from bottom of terminal block.	Noted
133	2.0 Pre- Qualification Criteria B- Financial Pre- Qualification Requirements 1. Commercial Capability	The bidder should have Average Annual turnover of at least Rs. 200 Cr. for last 3 Financial Year (FY). Qualification Requirement of Financial Turnover for MSME registered in the State of Odisha shall be reduced to 20% of the existing criteria	Kindly consider the Average Annual Turnover of at least Rs. 150 Cr. for last 3 Financial Year (FY)	The bidder should have Average Annual turnover of at least Rs. 75 Cr. for last 3 Financial Year (FY). Qualification Requirement of Financial Turnover for MSME registered in the State of Odisha shall be reduced to 20% of the existing criteria

Format for Pre-Bid Queries	
Tender No: TPCODL / CCG / 2024-25 / 1000002006	
Tender Description: Rate Contract - Supply of Single Phase Smart Meter (5-30 Amp) with Boxes for Tata Power Odisha Discoms	

Sr. No.	Detailed Reference to Tata Power Technical Document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	Tata Power Response
1	2	3	4	5
134	SCOPE:	Single Phase Two Wire, 230V, 5-30 A static smart energy meters of accuracy class 1.0	The offered meter is having 240V.	240V (Complying with 230V)
135	4 GENERAL TECHNICAL REQUIREMENTS: 4.1.1 Rated Impulse withstand voltage	10kV (shall be applied ten times with one polarity and then repeated with the other polarity.)	It will be 6KV. as per IS 16444 part-1 and IS 15959 part-2.	Minimum 6kV
136	4 GENERAL TECHNICAL REQUIREMENTS: 4.2.7 Minimum Internal diameter of the terminal holes Depth of the terminal holes	5.5 mm (minimum) 22 +1 mm	Depth:20mm +/- 0.5mm	Noted
137	4 GENERAL TECHNICAL REQUIREMENTS: 4.3.3 Communication module of meter for AMI	All the NICs should be same & compatible with all types of meters (single phase/PPWC/LTCT/HT) & should be hot swappable.	The NIC is compatible with same make and model.	Specification to be complied. Bidder to ensure NIC card compatibility with already supplied meters to Discoms of same make.
138	4.1.6 Utilization Categories DISCONNECT OR SWITCH	UC2 or better	In offered meter the utilization category is UC1	Specification to be complied
139	4.2	4.2.2.12 Bidders to ensure NIC card compatibility with existing meters as well.	The NIC is compatible with same make and model.	Specification to be complied. Bidder to ensure NIC card compatibility with already supplied meters to Discoms of same make.
140	4.4.1 Magnetic Field:	c) Permanent Magnet: Immune up to 0.5T and Event logging >0.5T.	Meter will record energy as per CBIP 325.	As per IS 13779:2020 with latest amendment thereof
141	4.4.2 Electrostatic Discharge (ESD) TABLE NO.1	ESD/Jammer Meter, inside meter box, shall be immune up to 50 kV and shall record accurate energy as per IS- 13779:1999 / CBIP-325.	The offered Meter will be immune but logging is not provided.	As per IS 13779:2020 with latest amendment thereof
142	5.1 METER BODY	5.1.1 Meter body shall be made of unbreakable, high grade, fire retardant reinforced Insulating material (protective Class II) with FVo Fire Retardant, self-extinguishing, UV stabilizer, recyclable (first use) and Anti oxidation properties.	Meter body will be FV2 complied.	Specification to be complied
143		5.1.3 Meter base shall be opaque with polycarbonate LEXAN 500R or equivalent (i.e chart of Lexan 500R compared with the alternative material) on prior approval from the TP(C/N/S/W)ODL. (the bidders should submit material data sheet in technical bid)	The Meter base and cover will be opaque in nature and will be of High grade Polycarbonate material.	Noted
144		5.1.4 Meter cover shall be transparent with polycarbonate LEXAN 143R / 943A or equivalent on prior approval from the TP(C/N/S/W)ODL. (the bidders should submit material data sheet in technical bid)		Specification to be complied
145		5.1.7 Unidirectional screws with sealing arrangement through the screw (upside down) to be used on meter covers where ever required.	The offered Meter is an screwless design as the meter base and cover are seamlessly chemically welded.	Specification to be complied
146	5.2 TERMINALS, TERMINAL BLOCK	5.2.3 Terminal block and terminal cover shall be of a material which complies with the requirements of IS11731 (part 1) method FH1	The Terminal block will be FV0 complied.	Specification to be complied
147	5.3 TERMINAL COVER	5.3.3 The terminal cover shall be short: 25 mm length from bottom of terminal block in line with meter base.	The terminal cover length will be approx. 40mm.	Noted subjected to testing of sample meters during tender evaluation.
148	7.2 METER BOX	Meter box shall be of polycarbonate transparent type (Degree of protection-IP55)	Offered Meter box is complied with IP54	Noted

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149	5.7.4 DISPLAY UNITS	The LCD display shall have a wide viewing angle of 120 degree.	Display type: STN, Y-G Viewing Direction: 6 O' Clock Viewing angle: -60 deg to +60deg (Up-Down & Left-Right)	Specification to be complied
150	5.8.3 NAME PLATE AND MARKING	ESD Tamper count Latest ESD tamper occurrence date Latest ESD tamper occurrence time	The Offered meter will be immune to ESD but event logging is not available.	Specification to be complied
151	13.0 QUALITY CONTROL	Prior to final testing and calibration, sample meters shall be subjected to aging test (i.e. meters will be kept in ovens for 24 hours at 55 Deg. C temperature and atmospheric humidity under real-life condition at its full load current. After 24 hours meter should work satisfactorily)	Required Testing Facility is not available at our works	Specification to be complied.
152	Earthing on Meter Box	Earthing Bolt on Meter Box	Unidirectional Earthing Bolt required on one side	Unidirectional Earthing Bolt required on one side
153	2.0 Pre- Qualification Criteria Clause No. (B) Financial Pre-Qualification Requirements (3) ISI Certification Page No. 7 of 317	Owner Requirement Smart Meters offered shall have Certification for 'ISI marking as per IS:16444 with latest amendment. The certification should be valid on the date of Tender opening. Documents to be submitted by Bidder Copy of Certificate for the Smart Meter offered should be furnished.	Our submission: We request you to kindly allow Bidder to submit the available WAN or NAN BIS certificate at the time of bid submission (in line with technical clause nos. (7.4) TYPE TESTS CERTIFICATES and (5.1.2) Type Test Certificate* of same or higher rating) and to submit the of the offered item i.e. WAN BIS certificate before commencement of supply in the event of Order and amend the clause as: Owner Requirement "Smart Meters shall have Certification for 'ISI marking as per IS:16444 with latest amendment. The certification should be valid on the date of Tender opening". Documents to be submitted by Bidder "Copy of Certificate for the Smart Meter WAN or NAN should be furnished at the time of bid submission and to submit the of the offered item i.e. WAN BIS certificate before commencement of supply in the event of Order.	Specification to be complied
154	2.0 Pre- Qualification Criteria Clause No. (B) Financial Pre-Qualification Requirements (1) Commercial Capability Owner Requirement Page No. 7 of 317	Owner Requirement The bidder should have Average Annual turnover of at least Rs. 200 Cr. for last 3 Financial Year (FY). Qualification Requirement of Financial Turnover for MSME registered in the State of Odisha shall be reduced to 20% of the existing criteria Documents to be submitted by Bidder Copy of audited P&L Account (with UDIN no.) to be submitted in this regard	Our submission: We request you to kindly accept Parent Company's turnover also in place of "Bidder's Turnover" and amend the clause as: Owner Requirement "The bidder or their Parent Company should have Average Annual turnover of at least Rs. 200 Cr. for last 3 Financial Year (FY). Qualification Requirement of Financial Turnover for MSME registered in the State of Odisha shall be reduced to 20% of the existing criteria".	The bidder should have Average Annual turnover of at least Rs. 75 Cr. for last 3 Financial Year (FY). Qualification Requirement of Financial Turnover for MSME registered in the State of Odisha shall be reduced to 20% of the existing criteria
155	13.1 Special Conditions of Contract (6) Page No. 16 of 317	Delivery period shall be 90 days from date of receipt of release order / CAT-A issuance, whichever is later.	Our submission: Please clarify the delivery schedule of Meters considered for this 90 days OR is it commencement of deliveries. We request you to kindly amend the clause accordingly.	Specification to be complied
156	1 Phase 5-30A meter GTP for TP Odisha Discoms (1) SCOPE: Page No. 29 of 317	meter manufacturer's works, packing, forwarding, supply and unloading at store, of Single Phase Two Wire, 230V, 5-30 A static smart energy meters of accuracy class 1.0 (here after referred as meters)	Our submission: Meter shall have reference voltage 240V AC however shall comply 230V also as per the specifications. So, we request you to kindly accept the same.	Noted
157	1 Phase 5-30A meter GTP for TP Odisha Discoms 4.04 Page No. 31 of 317	Reference Conditions for testing the performance of the meter Vref = 230 V Frequency = 50Hz Temperature = 27 OC		
158	1 Phase 5-30A meter GTP for TP Odisha Discoms (4.31) Software and communication compatibility	The bidder shall supply software required for local HHU & Remote (AMI) connectivity including required training to use the software free of cost as required by utility or HES / Communication service provider. BCS, mobile application with all the features including meter reading, connection / disconnection, firmware update, ToD update, etc will be required.	Our submission: We request you to kindly clarify the 'Remote (AMI) software and 'support during life time of the Meter' referred here.	Bidder shall extend all necessary support mentioned free of cost

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1	4.3.8 Page No. 36 of 317	3 The bidder shall supply software required for local (MRI) / Mobile app / BCS & remote (AMI) connectivity including required training to use the software free of cost. Bidder shall provide the communication protocol / APIs for communication with meter through local (MRI) / Mobile app / BCS remote (AMI) as and when required by TP(C / N / S / W) ODL free of cost during life time of meter.	4	5 Support mentioned free of cost during life time of the meter in use.
160	4.3.9 Page No. 36 of 317	Bidder should also provide software for changing / upgrading meter firmware in mass and should support integration of this software with HES. Bidder should also provide base computer software (BCS) for viewing the data downloaded through HES / MRI / laptop / HHU in separate PC / laptop. Android based or windows based HHU shall be preferred.	Our submission: We request you to kindly elaborate the 'HHUs' referred here and clarify whether the HHUs are also in supply scope.	Supply of / MRI / laptop / HHU in separate PC/laptop is not in bidders scope. Bidder shall provide necessary software & support for CMRU/laptop etc. BCS Software & Mobile app for data downloading of meters shall be provided.
161	1 Phase 5-30A meter GTP for TP Odisha Discoms (4) GENERAL TECHNICAL REQUIREMENTS: (4.33) Communication module of meter for AMI Page No. 33 of 317	All the NICs should be same & compatible with all types of meters (single phase / PPWC / LTCT / HT) & should be hot swappable.	Our submission: We request you to kindly elaborate the requirement as the NIC card Form Factor is different for different Make Meters and Manufacturer specific. Kindly note that the plug-in module shall be field replaceable with same Make of Meter / same Type of Meter. We request you to kindly amend the clause accordingly.	Specification to be complied. Bidder to ensure NIC card compatibility with already supplied meters to Discoms of same make.
162	(4.2.1) NIC MODULE DETAILS & INTEGRATION FOR 4G BASED COMMUNICATION Page No. 35 of 317	(4.2.1) Bidders to ensure NIC card compatibility with existing meters as well.		
163	1 Phase 5-30A meter GTP for TP Odisha Discoms (4.1) DISCONNECTOR SWITCH Page No. 34 of 317	(6) Utilization Categories: UC2 or better	Our submission: As per ISI6444 (Part 1);2015 Standard the Category UC 1 is applicable to Smart Meters rated at maximum Current up to 100A. In support, we have enclosed a copy of BIS Amendment No. 2 to ISI:16444 (Part 1) stating 'Category UC 1 is applicable to Smart Meters rated at maximum Current up to 100A'. We request you to kindly amend the clause.	Specification to be complied
164				