



Response to Pre-Bid Queries

TPNODL/OT/2021-22/219

Tender Description: Rate Contract for Supply of Single Phase Meter 10-60A with Box

The pre-bid queries as received against the referred tender enquiry and TPNODL's responses on the same are placed below:

S. No.	Tender Reference	Bidder's Pre-Bid Query	TPNODL's Response
01.	5.0 Page No 29 5. The bidder should provide DLMS compliance for Communication with the meter at Optical / RJ11 (RJ11 is optional). Optical Communication port shall be available for communication along with additional RJ11 port with specific pin configuration of utility along with sealing arrangement to communicate with GSM/GPRS/RF modems.	No RJ 11 port will be provided since its optional.	Not Acceptable. RJ11 port has to be provided under Terminal Cover
02.	4.27 Page No 27 Depth of terminal hole 25 mm	We shall provide 22 mm terminal hole. Kindly accept the same.	Accepted
03.	12 Page No 38 Instantaneous Parameters: Meter shall be capable of recoding following Instantaneous parameter In Memory and should be available in BCS Meter Serial No	We will provide Instantaneous Parameter as per DLMS IS15959. In place of Phase current and Neutral Current in Instantaneous Parameter we will provide Metering Current.	Accepted



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S. No.	Tender Reference	Bidder's Pre-Bid Query	TPNODL's Response
	Meter Type Meter date and Time MRI date and time Dump date and time Phase Current Neutral current Signed Power Factor Instantaneous Load (KW, KVA) Present Cumulative energy (KWH, KVAH) Cumulative Tamper count Cumulative Billing Count Cumulative Power ON duration in minutes Other Parameter as per IS15959		
04.	12 Page 38 Billing Information 1) Current+ 12 History billing Date 2) Current + 12 Month History of Energy (KWH, KVAH, KVARH Lag, KVARH Lead,) 3) Current + 12 Month History Consumption (KWH, KVAH, KVARH Lag, KVARH Lead) 4) Current + 12 Month History of Demand (KW,KVA, KVAR Lag, KVAR Lead) Along	We will not provide TOD wise billing of Reactive Parameters and Current + 12 Month History of PF IN TOD will not be provided.	Accepted



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	with date and time stamp 5) Current + 12 Month History of PF 6) Current + 12 Month Power ON/Off Hours 7) TOD wise billing Information 8) Current + 12 Month History of Energy (KWH, KVAH, KVARH Lag, KVARH Lead) 9) Current + 12 Month History of Consumption (KWH, KVAH, KVAR Lag, KVAR Lead) 10) Current + 12 Month History of Demand (KW, KVA, KVAR Lag, KVAR Lead) along with date and time stamp 11) Current + 12 Month History of PF 12) Load Factor		
05.	13 Page 39 The KWh register shall have minimum 6 digits and size of the digits shall be minimum 10mmx6mm.	Display digits shall be minimum 7.6mmx4.1mm. Kindly accept the same.	At least 10mmx5mm
06.	6.0.5 Page 31 The cover open tamper detection should	We will provide top cover open feature through our proprietary implementation for cover open event detection.	Accepted. But it should be robust and utmost care should be taken in design to prevent false recording of this tamper



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	be through heavy duty sturdy micro switch.		
07.	5.0 Page 29 Bidder shall also provide the software for changing Firmware of meters in Mass.	Meter are factory calibrated and firmware cannot be updated in field to prevent any unauthorized access to meter.	Accepted. It should be possible to program the display parameters (no additional parameter is reqd, only alteration of parameters between Auto & Push are reqd)
08.	6.0.5 Page 31 All the tamper events i.e. shall be logged in the memory of the meter with date and time stamp of occurrence and restoration along with instantaneous electrical parameter (Voltage, Current (phase and neutral), energy, pf , frequency etc)	We shall provide tamper snapshot as per DLMS IS 15959. Kindly accept the same. Frequency will not be possible in snapshot.	Accepted
09.	6.0.5 Page 31 Meter shall store cumulative count and cumulative durations all the tamper event which have logged by meter from the date of energization till life of meter.	Cumulative tamper duration will not be possible as tampers are FIFO based. Kindly accept.	Not Acceptable.



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10	7.0 Page 34 Memory chips	Please add ST Micro, Renesas in the list these are reputed make.	ok
11	7.0 Page 34 Optical Port	Please add Everlite it's a reputed make.	ok
12	7.0 Page 34 Battery	Please EVE make also it's a reputed make.	Not Acceptable.
13	7.0 Page 34 RTC / Micro controller	Please add ST Micro, Renesas, Adesto in the list these are reputed make.	ok
14	Page 38 Load survey: The meter shall be capable of recording load profile of 90 days 15 min IP for ON days only for following parameters.	In place of Phase Current and Neutral Current, we will provide Metering Current.	ok



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	Avg Voltage Phase Current Neutral Current PF KW KVA		
15	Page No 41 Push Button Mode of Display :- Load factor - last month	Load factor will be provided in Billing profile of BCS instead of push mode display parameter. Please accept the same	ok
16	12 Page No 39 General Information:- Meter display sequence	Meter display sequence will not be provided. We will provide General Information as per DLMS IS15959. Please accept the same.	Not Acceptable.
17	6.0.5 Page 33 Neutral Disturbance Occ P time:- 1min. Res P time:- 2 min.	Neutral Disturbance Occ P time:- 1min Res P time:- 1min Please accept the same	OK



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18	5.4 Page No: 58 A minimum clearance of 50 mm shall be maintained on both sides, between meter and box. A minimum clearance of 10mm at the back & 15mm on the front shall be maintained. A minimum clearance of 50mm shall be provided from the terminal cover to the box to be provided.	30 mm clearance will fullfill the requirement on both sides. Please accept the same	A minimum clearance of 30 mm shall be maintained on both sides, between meter and box. A minimum clearance of 10mm at the back & 15mm on the front shall be maintained. A minimum clearance of 75mm shall be provided from the terminal cover to the box to be provided.
19	5.7 Page No: 59 Metallic Hinges having minimum length 40 mm with three screws.	Min hinge length of 22 mm will fulfill the requirement. Please accept the same	Not Acceptable.
20	5.8 Page No: 59 For holding and sealing the box, four U-shaped latches of approx. size 25 mm shall be provided on three side of box (two on right side and one each on top and bottom side).	2 U shaped latch will be provided on right side. Please accept	Not Acceptable.



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21	5.10 Page No:- 59 The box shall be provided with four mounting (fixing) holes of 8 mm size.	6 mm of hole size will be provided. Please accept	OK
22	5.11 and 5.16 Page No: 59,60 Suitable overlapping (8 mm) shall be provided between base and cover to avoid access to the meter or its accessories inside the meter box by any means after sealing the box.	6mm overlapping will be provided. Please accept the same	Not Acceptable.
23	6.0 Page No: 60 Name plate and Marking	Serial number, Month and Year of manufacturing will be inject printing	Ok, but it should be permanent in nature and can not be removed without scratching
24	5.4 Page No: 58,59 The meter shall be mounted with the help of MS plate such that it is centrally placed in the box and there shall be clearance of 25 mm between the meter	We will provide a minimum clearance of 30mm shall be maintained on both sides, between meter and box.A minimum clearance of 30mm shall be provided from the terminal cover to the box will be provided.	Clearance will be as per pt no. 18 [above] MS Metal plate not reqd



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	and top of the box. A minimum clearance of 30 mm shall be maintained on both sides, between meter and box. A minimum clearance of 10mm at the back & 15mm on the front shall be maintained. A minimum clearance of 75 mm shall be provided from the terminal cover to the box to be provided.		
25	5.14 Page No:- 60 The earthing bolt and the gland shall be connected with metallic GI plate of 1.2mm thick. This plate shall be placed inside of the box.	Since box will be polycarbonate so no metallic plate and earthing arrangement is necessary. Earthing arrangement and metallic plate will not be provided. Please accept.	Not Acceptable.
26	2.c (Pg 25) IS15959 Part 2:2016	IS15959 Part 2:2016 is applicable to Smart meters. Hence this compliance to be removed.	OK
	5 (Pg 29) Communication of the meter at optical port should be as per IS15959 (Part-2):2016	IS15959 Part 2:2016 is applicable to Smart meters. Hence this compliance to be removed.	OK



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27	4.7 (Pg 26) Power Consumption Voltage circuit: Maximum 0.5W and 4 VA	10VA as per IS 13779	Not Acceptable.
28	4.8 (Pg 26) Starting Current 20mA (0.2% of Ib)	0.4% Ib at Vref u.p.f. as per IS 13779	Not Acceptable.
29	4.11 (Pg 26) Rated Impulse withstand voltage : 10KV (shall be applied ten times with one polarity and then repeated with the other polarity.)	6kV impulse withstand as per IS 13779	Not Acceptable.
30	4.27 (Pg 27) 9 (Pg 36) Depth of the terminal holes : 25 mm	Depth of Terminal hole will be 20±1 mm. Please accept.	Should be at least 22mm
31	4.33 (Pg 28) The meter shall be compatible to	Communication with GSM/GPRS modem is supported. RF communication is not supported.	ok



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	communication with GSM/GPRS/RF modems in DLMS protocol.		
	5 (Pg 29) Optical Communication port to communicate with GSM/GPRS/RF modems.	Communication with GSM/GPRS modem is supported. RF communication is not supported.	ok
32	4.36 (Pg 28) Accuracy of RTC Should be as per CBIP-325 report and shall not vary by more than 5 min per year.	Accuracy of RTC as per CBIP-325 is +/-7 min for Class 1 meters.	Ok
33	5 Pg (29) The complete data shall be downloaded within 2 minutes.	Complete data download may take up to 10 minutes. Billing data can be downloaded within 1 minute.	Complete data download should be within 5 minutes. Billing data within 1 minute.
34	5 (Pg 29) Bidder should also provide software for changing firmware of meters in mass without any additional cost	Firmware change is not suggestible and software for the same cannot be provided.	Already clarified above



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35	5 (Pg 29) The bidder should provide DLMS compliance for Communication with the meter at Optical / RJ11 (RJ11 is optional). Optical Communication port shall be available for communication along with additional RJ11 port with specific pin configuration of utility	RJ11 port being Optional, will not be provided.	No, RJ port has to be provided
36	5 (Pg 29) Bidder to provide API on MIOS standard to convert meter data in to XML and read API for hosting in server.	Meter will follow DLMS protocol as per IS:15959 for communication. API on MIOS server will not be supported.	OK
37	5 (Pg 29) 50 nos. USB [MOXA] Optical cable for laptop has to be provided free of cost.	50 nos. Optical-to-USB cable (for communication of meter with Laptop) of proprietary design (and not MOXA) will be provided.	Not Acceptable.
38	6.0.1(Pg 30) Magnetic Field: Meter shall record accurate energy in case of any	Meter under Magnetic influence, will follow CBIP-325.	OK



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	external influencing signals in line with IS 13779:1999 Cl.11.2 and variation in limits of error (up to 100% I _{max}) shall be as per the table 17 of IS 13779.		
39	6.0.1 (Pg 30) Magnetic Field: a) Meter shall log the event in its memory as "MAGNET" with date and time stamp within 2 minutes of application of abnormal magnetic field and shall start recording at 100% I _{max} and after removal of magnet, back to normal recording within 2 minutes b) Meter shall show "Magnet" in the display.	a) Both Occurrence & Restoration for Magnetic tamper will be immediate (max. 15-20 sec.) b) If affected under Magnetic influence, "Mag" icon will appear on display.	OK
40	6.0.2 (Pg 30) 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.	Meter will be immune for jammer device. Logging and display cannot be provided.	OK



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41	6.0.2 (Pg 30) The meter should be immune or log the tamper on application of any other higher magnetic field of any frequency waves, micro waves etc.	Immunity to microwave cannot be guaranteed.	Not Acceptable.
42	6.03 (Pg 31) The meter shall record energy proportional to the current and V Ref (230V) when any of the tamper circuits enclosed as per annexure are used to tamper energy	Vref will be 240V	OK
43	6.0.4.b (Pg 31) Condition no. 38 of Annexure I (Timer test) : The timer operation duration shall be 30 seconds	The tamper will be logged as Neutral Disturbance.	OK
44	6.0.3 (Pg 30) 6.0.4 (Pg 31) Neutral Disturbance Single Wire (Neutral Missing)	Accuracy will be within +/- 4%	Accepted



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45	6.0.5 (Pg 31) All the tamper events i.e. shall be logged in the memory of the meter with date and time stamp of occurrence and restoration along with instantaneous electrical parameter (Voltage, Current (phase and neutral), energy, pf, frequency	Snapshot of Voltage, Active Current, kWh & P.F. can be provided.	OK
46	6.0.5 - Table (Pg 32) Single Wire Restoration : Voltage > 190 V	Single Wire tamper Restoration : I_p or $I_n > 0.5A$ and $V_{in} > 115V$	Not Acceptable.
47	6.0.5 - Table (Pg 33) Low Voltage Occurrence : Voltage < 100V and current > 2% I_b Restoration : Voltage > 70% of V_{ref} and current > 2% I_b	Will be provided with following threshold as per present supplies : Occurrence : Voltage < 70% of V_{ref} Restoration : Voltage > 80% of V_{ref}	Not Acceptable.
48	6.0.5 - Table (Pg 33)	Will be provided with following logic as per present supplies : Occurrence :	Not Acceptable.



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	Power Fail Occurrence : Actual Voltage OFF Restoration : Actual Voltage ON	$V_{in} < (105V-108V) \text{ \& Current } < 400 \text{ Ma}$ OR $V_{in} < (105V-108V) \text{ \& No load}$ Restoration : $V_{oltagee} > 115V, \text{ Irrespective of Load.}$	
49	6.0.5 - Table (Pg 34) Earth Load Occurrence : The difference between phase and neutral current $> 6.25\%$ of I_b Restoration : The difference between phase and neutral current $< 6.25\%$ of I_b	Will be provided with following logic as per present supplies : Occurrence : $ I_p - I_n > 6\% \text{ Active current}$ $\text{Power} > 24W$ $60\%V_{ref} < V_{in} < 115\%V_{ref}$ $PF > 0.5$ Restoration : $ I_p - I_n < 6\% \text{ active current}$ $\text{Power} > 24W$ $60\%V_{ref} < V_{in} < 115\%V_{ref}$ $PF > 0.5$	Not Acceptable.
50	7.0 (Pg 34 - 35) Component Makes	Please add the following Component makes:	
	7.0 (Pg 34 - 35)	Renesas	Accepted



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	7.2 Memory Chips		
	7.0 (Pg 34 - 35) 7.3 Display Modules	Tianma, Yeboo, RCL, AV Display	Accepted
	7.0 (Pg 34 - 35) 7.4 Optical Port	Osram, Everlight	Accepted
	7.0 (Pg 34 - 35) 7.6 Electronic Components	Panasonic,Epcos, PRAN, MANN, Nippon, Lenon	Accepted
	7.0 (Pg 34 - 35) 7.7 Battery	Mitsubishi, EVE, Maxell, Vitrocell, Shaft, Eternacell	Panasonic, Mitsubishi, Maxell, Vitrocell



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	7.0 (Pg 34 - 35) 7.8 RTC / Microcontroller	Renesas	OK
51	9 (Pg 36) Terminals shall be preferably of MS cage clamp type	Conventional type terminals will be provided.	Accepted
52	9 (Pg 36) Terminal screws shall be of Zinc plated MS bottle type.	Conventional grub screws will be provided	Not Acceptable.
53	9 (Pg 37) One no polycarbonate seal (blue color) shall be provided by the bidder.	Polycarbonate Seals as per our present supplies will be provided.	One no polycarbonate seal (transparent color)
54	11 (Pg 37)	The MD integration Period is programmable between 15/30 minutes.	OK



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	The MD integration period shall be 15 minutes (integration period-programmable by CMRI at site ...		
55	12 (Pg 38) Billing Information Current + 12 Month History Consumption (KWH, KVAH, KVARH Lag, KVARH Lead) TOD wise Billing Information Current + 12 Month History Consumption (KWH, KVAH, KVARH Lag, KVARH Lead)	In Billing information, Cumulative energies will be provided (Consumption will not be provided).	Consumption should be available in BCS
56	12 (Pg 39) General Information:- TOD profile showing timing and seasons	Will be provided in Activity calendar	Accepted
57	13 (Pg 40) The KWh register shall have minimum 6 digits and size of the digits shall be	Size of the digits will be 10mm X 5mm	OK



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	minimum 10mmx6mm		
58	16 (Pg 43) Note:- Bidder must mention IS 13779:1999 with latest edition in factory test report.	Please explain the requirement.	The factory test report should be sent with each & every meter during supplies, the tests should be as per 13779
59	16 (Pg 43) Special test: i. The bidder shall ensure that API (Application protocol interface) is compatible with TPNODL.	Meter will be as per IS:15959. API is not applicable.	OK
60	17 (Pg 43) TYPE TESTS CERTIFICATES: The bidder shall furnish the type test certificates of the meter for the tests as mentioned above as per the corresponding standards. All the tests shall be conducted at CPRI / ERDA as per the relevant standards. Type test should have been conducted in	Kindly amend the requirement as: Meter to be Type tested from any independent NABL accredited Laboratory, not exceeding 5 years from the date of submission of Bid.	Not Acceptable.



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	certified Test Laboratories during the period not exceeding 5 years from the date of opening the bid.		
61	20 (Pg 44) Bidder shall further be responsible for 'free replacement at site' for another period of THREE years from the end of the guarantee period for any 'Latent Defects' if noticed and reported by the purchaser.	Guarantee Period (with free Replacement against Manufacturing defect) will be applicable only for 60 months from commissioning or 66 months from supply, whichever is earlier.	It should be as per tender document only.
62	27 (Pg 46) Blue Tooth Meter Reading (Optional) Inbuilt facility for blue tooth based meter reading is preferable	Cannot be provided	Accepted
63	GTP - 17 (Pg 48) Electromagnetic Compatibility (EMC) as per CBIP Technical report no 88 (latest amendment)	Electromagnetic Compatibility will be as per CBIP-325.	OK



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64	4.3 of Box Spec. (Pg 57) Flammability requirement : FV0	FV2 will be complied.	Not Acceptable.
65	5.3 of Box Spec. (Pg 58) The box shall be provided with meter mounting arrangement along with MS plate on top for mounting the meter from different manufacturers	Mounting arrangement in the Box is suitable for our meters which are being offered against the present requirement. MS plate arrangement cannot be provided.	OK
66	5.5 of Box Spec. (Pg 59) Nylon gland of internal diameter of around 25 mm shall be provided for I/C and O/G cables	Plastic Glands of internal diameter 25 mm will be provided at bottom side of the Meter box.	Not Acceptable.
	5.15 of Box Spec. (Pg 60) The glands should be of 25 mm diameter and without inclined length but should have extended threads of 15mm inside box and a gland cap should be fixed on this gland from inside. The inside gland cap shall	Plastic Glands of internal diameter 25 mm will be provided at bottom side of the Meter box.	Not Acceptable.



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	have opening of 18mm on the side of the earthing bolt incomer side and other side gland cap (outgoing) shall have 16mm opening.		
67	5.7 of Box Spec. (Pg 59) The box cover shall be fixed to the base through two nos. Metallic Hinges having Minimum length 40 mm with three screws. The box cover shall be open able by more than 120 degrees.	2 Metallic hinges of length 25 mm will be provided. The box cover will be openable by 110 +/- 10 degrees.	Not Acceptable.
68	5.8 of Box Spec. (Pg 59) For holding and sealing the box, four U-shaped latches of approx. size 25 mm shall be provided on three side of box (two on right side and one each on top and bottom side). The latch shall be GI with minimum thickness of 1.2 mm	2 Nos. Metallic U-clamp of 1.2 mm thick will be provided on the right side of the Box.	Not Acceptable.
69	5.12 of Box Spec. (Pg 60)	Box shall be provided with 1 no. earthing nut and bolt of size M8x35 mm on the Right hand side in the base of meter box for providing earth connection.	Not Acceptable.



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	Box shall be provided with 1 no. earthing nut and bolt of size M8x35 mm on the left hand side in the base of meter box for providing earth connection. The earth terminal shall be identified by means of the sign ,marked in a legible manner on or adjacent the terminal		
70	Box Spec. 5.18 (Pg 60) 19.10.w (Pg 68) Two nos. of holes of adequate size capable of accommodating service cable shall be provided at two sides of the box for cable incoming & outgoing.	Two nos. hole will be provided at the bottom of the Box for incoming & outgoing cables.	Not Acceptable.
71	6 of Box Spec. (Pg 60 - 61) NAME PLATE AND MARKING : The meter box shall be provided with durable and legible marking laser printed / embossing. The following shall be embossed / laser printed with "PO No with date" , "PROPERTY OF TPNODL" , "ITEM CODE NUMBER" , The name plate shall be indelibly and	Following details will be embossed / laser printed on the Box : a) Manufacturer's name b) Item Code Number (if provided by TPNODL) c) Month and Year of manufacturing d) PO Number & date e) Property OF TPNODL f) Danger Sign Separate Name Plate will not be provided.	Accepted



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	distinctly marked with all essential particulars as per the relevant standards along with the following information : a) Manufacturer's name b) Serial number c) Month and Year of manufacturing d) PO Number & date e) Property OF TPNODL f) Danger Sign		
72	7.1.12 of Box Spec. (Pg 63) Type Test : UV Light Exposure (UL-746C)	Complied as per ASTM G 154	Not Acceptable.
73	7.3 of Box Spec. (Pg 63 - 64) Acceptance Tests : 1. Marking 2. Visual Examination and Dimensions 3. Protection against electric shock 4. Provision for earthing 5. Mechanical strength/Impact Resistance Test 6. Resistance to Abnormal heat and fire/ Glow wire test	The Box will undergo Acceptance tests along with meter in our factory. The tests mentioned in Serial Nos. 5 to 8 here cannot be done as part of Acceptance there. Please accept the tests mentioned in Serial Nos. 5 to 8 as part of Type Test. These tests are already mentioned in Sr. Nos. 4, 6, 8 & 11 respectively as part of Type Test (Pg 36).	Not Acceptable.



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	7. Flammability test 8. Verification of Die-electric properties 9. Finishing of box		
74	19.16 of Box Spec. (Pg 69) Mounting pillars as per annexure 2 and agreed to provide any changes in future as per prevailing meters & TPNODL requirements.	Box design will be fixed as per our Meter being offered against present requirement. Mounting pillars or other changes in the Box will not be possible in future.	Accepted
75	Cl. 1.7 (Pg 6) Bidder shall submit satisfactory performance certificates for the past 1 year experience from 3 reputed companies.	We request you to kindly accept Performance Certificate issued within last 5 years.	OK
76	ANNEXURE- B PROFORMA FOR PERFORMANCE BANK GUARANTEE (CP cum EP) 8. Any claim / extension under the guarantee can be lodgeable at outstation banks or at Balasore branch and claim will also be payable at Balasore Branch (to be confirmed	We are facing difficulty in getting BG issued with local Branch lodgeability clause. We request you to kindly accept PBG with odgeability in issuing Branch only.	It should be as per tender document only.



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Tender Description: Rate Contract for Supply of Single Phase Meter 10-60A with Box

S. No.	Tender Reference	Bidder's Pre-Bid Query	TPNODL's Response
	by Balasore Branch by a letter to that effect in case BG is from the branch outside Balasore).		
77	CI 13.6 (Pg 17) Latent Defect 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.	Guarantee Period (with free Replacement against Manufacturing defect) will be applicable only for 60 months from commissioning or 66 months from supply, whichever is earlier.	It should be as per tender document only.

Note: - This document shall form an integral part of tender and should be submitted along with the tender document.