



Response to Pre-Bid Queries

TPNODL/OT/2021-22/210

Tender Description: Rate Contract for Supply of 3 Phase Meter 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.	4.2 / 2 of 10 GENERAL TECHNICAL REQUIREMENTS: 4.2 : Rated Secondary Voltage : 230/240 volts (Phase to Neutral)	Meter type test reports may kindly be accepted with reference voltage of 240V. Name plate will be mentioned as 230V(Complies with 240V) Name Plate details and Tamper document will be provided with the same Vref as 230V. Kindly confirm	OK
02.	-- / 3 of 10 Voltage: Vref +30% to -30%	As per IS13779 (Table 11), Limit range of operation is 0.70 to 1.2 Vref. Request to amend the same as +20% to -30% Vref	Voltage: Vref +20% to -30%
03.	-- / 4 of 10 Terminals – Terminal Block : Terminal block shall have supply side cable locking arrangement so that supply side cables cannot be removed after installation, to avoid tampers in field.	Terminal block will be covered with terminal cover. Terminal cover is provided with 02 no. seals to avoid tamper in field.	OK
04.	-- / 4 of 10 Display Scrolling : Meter should have no pushbutton and shall have a capacitive touch arrangement to avoid water/fluid injection inside of meter circuit.	Push button arrangement will be provided. Our Push button is robust enough not to allow any water / fluid injection. Kindly accept.	Ok.



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05	-- / 4 of 10 Communication Port : Remote Communication Port: Meter shall have an additional communication port in the of micro USB port to interface external modem for remote data collection.	Kindly accept with RS232 port to interface external modem for remote data collection as mentioned in IS15959. Kindly remove the requirement of micro USB port.	OK with RS232. Micro USB port not required.
06	-- / 4 of 10 Data Downloading capability : Meter shall support a minimum baud rate of 9600 on optical port as well as micro USB communication port.	Kindly accept with Optical & RS232 port as communication ports. Kindly confirm.	OK, Meter shall support minimum baud rate of 9600
07	--/ 4 of 10 Communication port – Cable orientation	Most of the design of energy meter supplied to various discoms in India are fixed with direct alignment optical communication port. Request to remove the requirement.	OK Please provide perfect slots in optical port to easily communicate meter through standard CMRI port by anyone.
08	-- / 5 of 10 Display of Measured Values : 1. a. Universal active maximum demand	Kindly clarify the points 1. We understand Universal active maximum demand as Highest Maximum demand with date and time from the date of installation.	1. Ok 2. Ok



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	<p>with date and time</p> <p>b. Universal apparent maximum demand with date and time</p> <p>2. Date and time for maximum demand</p> <p>3. a. Cumulative status of current related tampers</p> <p>b. Cumulative status of tampers other than current and potential</p> <p>c. Cumulative status of potential related tamper</p>	<p>2. Date and time of Maximum demand: We understand current month maximum date and time (active and apparent). Kindly confirm.</p> <p>3. Kindly elaborate the requirement of cumulative tamper status</p>	<p>3. (b). Other tamper event:</p> <ul style="list-style-type: none">i- Cover open tamperii- Magnetic tamperiii- EHV tamperiv- Neutral Disturbance
09	<p>-- / 6 of 10</p> <p>Power Consumption :</p> <p>The active and apparent power consumption in each voltage circuit at reference voltage, temperature and frequency shall not exceed 0.5 W and 1 VA per phase respectively.</p> <p>The apparent power consumption in each current circuit at basic current, reference frequency and reference temperature shall not exceed 0.1 VA per phase.</p>	<p>Kindly consider the Power consumption as per IS13779:1999 (Table 10) with 1.5W and 8VA and Current circuit with 4VA for class 1 meters. Kindly accept.</p>	OK



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10	-- / 7 of 10 Abnormal Events : m. High percentage THD of voltage and current shall be recorded as event to monitor quality of supply.	We can provide the %THD while communication in instantaneous parameters for verification. Kindly accept	Ok
11	Meter Box 10(a) / 3(9) Clear inside dimensions of meter box: Length X Width X Depth: 460X340X170 mm With 2% tolerance (With minimum clear space of 450mm x330mm without any tolerance)	Inside dimension are manufacturer dependent and the mould is fixed. Kindly accept	Dimension shall be as per spec.
12	Meter Box 10(e) / 3(9) Min. clearance from meter front to cover : 50 mm	Min. clearance from meter front to cover : 50 mm	Ok
13	Meter Box 10(k) / 3(9) Cover overlapping on base: a) Inside- 25 mm overlapping at hinges sides, top and bottom side and 20 mm overlapping at	12-15 mm overlapping size will be suitable for your requirement. Kindly accept.	Ok



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	pad lock side. b) Outside overlapping 20mm throughout border		
14	Meter Box 10(r) / 4(9) Antenna mounting provision : GI square piece of around 30x30mm to be riveted/ fixed inside on bottom face of box at around 60mm distance from right side (if asked for in tender)	Kindly provide drawing regarding fixing of Antenna	Free space shall be there to fix the antenna and the modem inside the box.
15	Meter Box 10(s) / 4(9) Location of earthing bolt : On left Sides (when viewed from front) & bolt is fixed & engaged within gland through GI sheet 1.2mm from inside.	Polycarbonate box earthing bolt is not required. Kindly confirm	OK
16	Meter Box 10(t) / 4(9) Earthing Sign : A tag with green background on GI sheet to be	Kindly consider this is Polycarbonate material earthing is not required so as with earthing sign.	Ok



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	provided on earth bolt outside box		
17	Mete Box -- / 4(9) Name Plate Marking : c) Item Code f) No supply number	Kindly provide clarification regarding Item code and No Supply number what to print	RC NO, Month & year of manufacturing, Supply number, Voltage grade, Danger icon/Logo, Property of TPNODL,
18	Meter box GTP point 21 Printing : Metallic label containing the letters "----- ----" and P.O No. and date shall be engraved on the top cover of the box. The name of the manufacturer shall be engraved on the front side of the box	Kindly consider embossing / laser printing as this is polycarbonate meter box metallic may not be required.	Laser printing required.
19	SCOPE AND OBEJECTIVE : Clause No.1/Page No. 22 The static whole current electronic meter shall offer current range of 20-100A (first digit indicates the Basic Current & second digit indicates the Maximum Current of the respective meters) for tariff purposes, as per	Current Rating of Meter will be 10-100A. Kindly accept the same.	Need to comply spec.



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	requirement given in this specification.		
20	GENERAL TECHNICAL REQUIREMENTS : Clause No.4.3/ Page No. 22 Current Rating : 20-100A	Current Rating of Meter will be 10-100A.	Current rating : 20 - 100 A
21	Display of Measured Values : Page No 24 <ul style="list-style-type: none">• Time of first occurred tamper• Date of first occurred tamper• Cumulative status of current related tampers• Cumulative status of tampers other than current and potential• Cumulative status of potential related tampers	Following parameters are not available, Last occurred & Last restored tamper tamper along with date & time are available, also present status of tampers are available. Kindly accept the same.	Need to comply Spec.
22	Guarantee : Page No 26 Bidder 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 TPNODL.	Energy Meters shall be Guaranteed for 60 Months from the date of Supply. 5 Years time period is sufficient for Latent Defect if any. So, we request you to kindly remove this clause.	Ok



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23	<p>ABNORMAL EVENTS: Serail (I) , Page27</p> <p>Cover Open: The meter shall be able to detect cover open occurrence event if cover is opened in mains on or off condition. Separate legend for cover open event shall be made available on LCD. This legend shall remain in on state till meter reading so that it will come in to notice of meter reader.</p>	<p>Offered meter would be able to detect cover open occurrence in mains off condition also, however it will be updated in meter memory after restoration of power supply. During cover open suitable abbreviation would be available under present status of other tampers on meter display. Separate legend for cover open in not required in our offered meter, hence not provided. Kindly accept the same.</p>	<p>Need to comply spec.</p>
24	<p>Scope : Page No 32</p> <p>The colour of the box shall be Transparent. The box shall be hinged type with bottom entry with barrier in cable entry side.</p>	<p>Offered meter box would be transparent with hinge type door & have cables glands available at bottom for entry & exit of cables. Barrier is not required in meter box as meter itself has terminal cover available for suitable protection. Kindly accept the same.</p>	<p>Ok</p>
25	<p>APPLICABLE STANDARD: Page No 32</p> <p>The Boxes shall generally comply with the provisions of IS 5133. The boxes shall be suitable for outdoor/ indoor application. The outdoor box shall have its roof designed for easy flow of rain water</p>	<p>Offered meter box complies as per IS 14772</p>	<p>Ok</p>



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	<p>without any stagnation on the box. The box shall be with good workmanship.</p> <p>GTP 4) Standard to which follows the meter box IS 5133</p>		
26	<p>GENERAL TECHNICAL SPECIFICATION: Page 32 &33</p> <p>2) Degree of protection IP55</p> <p>TYPE TEST : 3) Resistance to ageing, humid conditions, Ingress of solid objects and to harmful ingress of water (IS : 14772-2000 Resistance to Ageing: Enclosure shall be kept in a heating cabinet with temp 70 ± 2 deg C for 7 days as per IS. After completion of the test, the enclosure</p>	<p>Offered meter box complies with IP54 degree of protection. Same should also be acceptable.</p>	<p>Need to comply Spec.</p>



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	<p>shall not show any cracks. Humid conditions: Enclosure shall be kept in a cabinet with humidity between 91 to 95 % for 7 days as per IS. After completion of the test, the enclosure shall not show any cracks. Resistance against ingress of solid objects and to harmful ingress of water : Enclosure shall be subjected to test for degree of protection (IP 55) as per IS 12063 IS 60529.</p>		
27	<p>GENERAL TECHNICAL SPECIFICATION: Page 33</p> <p>3) Flammability requirement FV0</p>	<p>Meter Box complies with flammability requirement of FV2 as per IS14772/ UL94. Kindly accept the same</p>	<p>Need to Comply Spec.</p>
28	<p>GENERAL TECHNICAL SPECIFICATION: Page 33</p> <p>4) Grade of material fire retardant, self-extinguishing, UV stabilization and Anti oxidation properties</p>	<p>Grade of material would be polycarbonate with fire retardant material suitable to house 3 phase meter. Same should be acceptable.</p>	<p>Need to comply spec</p>
29	<p>GENERAL TECHNICAL SPECIFICATION: Page 33</p>	<p>Thickness of material of meter box would be 2mm ± 0.2mm.</p>	<p>Need to comply Spec</p>



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	6) Thickness of box (Base and Cover) Base-3 mm (minimum) Cover-2.5mm (Minimum) Tolerance + 0.02mm GTP 6) Thickness (mm) 3 mm on the load bearing side (i.e. back side of the box) and other sides, door and roof shall not be less than 2.5 mm	Kindly accept the same.	
30	GENERAL TECHNICAL SPECIFICATION: Page 33 8) Glow wire tested at 960°C	Offered meter box complies as per IS 14772, and complies with glow wire test of 650 ± 10 C Kindly accept the same.	Need to comply spec.
31	GENERAL TECHNICAL SPECIFICATION: Page 33 10) Construction features of the box a) Clear inside dimensions of meter box: Length X Width X Depth 460X340X170 mm With 2% tolerance (With minimum clear space of 450mm x330mm without any tolerance)	The dimension of the offered meter box would be approx. 300X260X120 mm. Kindly accept the same.	Need to comply spec



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32	GENERAL TECHNICAL SPECIFICATION: Page 33 10) Construction features of the box b) Minimum clearance between meter and box on sides 50 mm c) Min. Clearance from meter on Top of meter mounting plate 35 mm d) Minimum clearance of meter terminal cover from base of box (bottom) 45 mm e) Min. clearance from meter front to cover 50 mm	b) Clearance on left side would be approx 23mm, on right side would be approx. 67mm. C) clearance from meter on top side would be approx. 13.5mm. D) clearance of meter terminal cover from base of box (bottom) would be approx. 22mm. E) clearance from front to meter cover would be approx. 10 mm. Same should be acceptable.	Need to comply spec.
33	GENERAL TECHNICAL SPECIFICATION: Page33 g) Sealing Arrangement polycarbonate extension for sealing and latch with concentric sealing holes on U shaped latches 4 Numbers of Min. 30mm length (Two on opening side and one at top and bottom side), Sealing hole diameter 3mm	2 nos. U shaped latches of approx. 20 mm length would be available with sealing hole of approx. 2 mm on left side of meter box. Sufficient for sealing. Kindly accept the same.	Need to comply Spec.
34	GENERAL TECHNICAL SPECIFICATION: Page33	2 nos. U shaped latches of approx. 20 mm length would be available with sealing hole of approx. 2 mm on left	Need to comply spec



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	h) U shaped GI latches 4 number GI U shape latches having 1.2mm thick and Min. 25mm long with sealing hole	side of meter box. Sufficient for sealing. Kindly accept the same.	
35	GENERAL TECHNICAL SPECIFICATION: Page 33 i) Box mounting arrangement Provision for four number screws at four corners provided	For mounting meter box 3 nos mounting provision are provided, 1 at top which is keyhole type arrangement & 2 holes at bottom. Kindly accept the same.	Need to comply spec.
36	GENERAL TECHNICAL SPECIFICATION: Page 33 j) Box Mounting Screw 4 Number Gitti and screws provided with M6 Screw with min. length 40mm	Mounting screws should be used to mount meter box as per site requirements only. Hence mounting screws are not provided. Kindly accept the same.	Need to comply spec.
37	GENERAL TECHNICAL SPECIFICATION: Page 33 k) Cover overlapping on base a) Inside- 25 mm overlapping at hinges sides, top and bottom side and 20 mm overlapping at pad lock side. b) Outside overlapping 20mm throughout	Sufficient overlapping is available on the hinges so that the metallic part is not accessible from outside, outside overlapping on meter box periphery is approx. 6 mm. Kindly accept the same.	Need to comply spec.



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	border		
38	<p>GENERAL TECHNICAL SPECIFICATION: Page No.34</p> <p>l) A. Size of incoming & outgoing gland hole A. 35mm B. location of hole from bottom side B. around 40mm</p> <p>u) A. Gland size – inside diameter-around 29mm on incoming and outgoing B. Gland type – straight</p>	<p>Size of incoming & outgoing gland hole would be suitable to pass 35sq. Mm cable. Kindly accept the same.</p>	Need to comply spec.
39	<p>GENERAL TECHNICAL SPECIFICATION: Page 34</p> <p>m) Meter mounting plate as per clause no. 5.4 GI plate of 1.2m thick for meter mounting provided on Top side (without sharp corners)</p> <p>n) Meter mounting Screws Minimum 3 number of 13mm length</p>	<p>Offered meter box is suitable for our make meter only. The design of box is such that the push button provided on meter box & provision to attach optical cable to the meter from outside meter box is as per our design. Hence it is suitable to house our make meter & GI plate is not required. Kindly accept the same & remove the requirement for GI plate.</p>	Need to comply spec.



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40	GENERAL TECHNICAL SPECIFICATION: Page 34 (o) Hinges 40mm long Stainless Steel (SS 304), both end riveted hinges, with following options: i. Two nos. of hinges with 3 screws in each ii. Three nos. of hinges with 2 screws in each	Hinges would be of approx. 25mm length with screw fitted having 2 hinges & 2 screws on each hinge. Kindly accept the same.	Need to comply spec.
41	GENERAL TECHNICAL SPECIFICATION: Page 34 q) Polycarbonate hinges on base are covered with box cover material such that tampering is not possible from outside Yes, Barrier plate shall be provided suitably, so that direct access to meter terminals shall not be possible from outside.	Offered meter box would be transparent with hinge type door & have cables glands available at bottom for entry & exit of cables. Barrier is not required in meter box as meter itself has terminal cover available for suitable protection. Kindly accept the same.	Need to comply spec. Barrier plate not required.
42	GENERAL TECHNICAL SPECIFICATION: Page 34	Antenna mounting provision is available with a groove on front cover of meter box, however GI square plate is not available.	Need to comply spec.



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	r) Antenna mounting provision GI square piece of around 30x30mm to be riveted/ fixed inside on bottom face of box at around 60mm distance from right side (if asked for in tender)	Kindly accept the same.	
43	GENERAL TECHNICAL SPECIFICATION:Page 34 s) Location of earthing bolt On left Sides (when viewed from front) & bolt is fixed & engaged within gland through GI sheet 1.2mm from inside. 11 The earth connectivity plate between incoming gland and earth bolt provided with 1.2mm thick GI (HDG) Yes	Offered meter box is made of complete transparent polycarbonate material, hence earthing bolt is not required & hence not available. Kindly accept the same.	OK
44	GENERAL TECHNICAL SPECIFICATION: Page 34 t) Earthing sign A tag with green background on GI sheet to be provided on earth bolt outside box	Offered meter box is made of complete transparent polycarbonate material, hence earthing bolt is not required & hence not available. Kindly accept the same.	Ok



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45	<p>Name Plate markings : Page 34 & 35</p> <p>NAME PLATE AND MARKING: The meter box shall be provided with durable and legible name plate, effectively secured against removal. The name plate shall be indelibly and distinctly marked with all essential particulars as per the relevant standards along with the following information:</p> <ul style="list-style-type: none">a) Manufacturer's nameb) RC and RO/PO No. with datec) Item Coded) Serial numbere) Month and Year of manufacturing (MM/YYYY)f) No supply number:g) Property of 'TPNODL' <p>Voltage 415V Danger logo/icon on the cover</p> <p>GTP 21) Printing Metallic label containing the letters " " and the P.O. No. and date shall be engraved on the top cover of the box.</p>	<p>Offered meter box would be fully transparent such that all the rating plate details of meter are clearly visible from outside, hence rating plate on meter box is not required, Only danger sign & manufacturer logo is embossed on meter box. Kindly accept the same.</p>	<p>Need to comply Spec</p>



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	The name of the manufacturer shall be engraved on the front side of the box		
46	<p>ROUTINE TEST : Page 35</p> <p>Routine Tests: The routine test certificates for the following shall be furnished for approval of the purchaser.</p> <ol style="list-style-type: none">1. Marking2. Visual Examination and Dimensions3. Protection against electric shock4. Provision for earthing <p>Compatibility of the box for housing the meter ensuring ease of connecting and the reading the meter. Meter box shall be of polycarbonate transparent type (Degree of protection-IP55)</p>	<p>Meter Box complies as per IS14772 hence routine test for meter box only is not required, hence not performed at our works.</p> <p>Kindly accept the same</p>	Need to comply Spec.
47	<p>TYPE TEST : Page 35</p> <p>5) Resistance to heat / Ball Pressure Test (IS : 14772-2000) The test shall be made on a sample in a heating cabinet at a temp of 125 ± 2 deg C for 1 per IS. After completion of test, the</p>	<p>Test report for Ball pressure test is not available. Meter box complies with resistance to heat as per IS14772, hence it is requested to kindly remove the requirement for ball pressure test and amend clause</p>	Need to comply spec.



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	diameter of the impression caused by the ball shall be measured and should not exceed 2 mm.		
48	TYPE TEST : Page 35 6) Resistance to Abnormal heat and fire/ Glow wire test (IS : 14772-2000) Parts of insulating materials which might be exposed to thermal stresses due to electric effects shall not be affected by abnormal heat and by fire. The compliance shall be checked by means of the glow wire test performed at 960 deg C, according to IS 11000(Part 2/sec 1) with no flame and glowing	Offered meter box complies with Resistance to Abnormal heat and fire & Glow wire test at 650 deg. C (IS : 14772-2000). Kindly accept the same.	Need to comply spec.
49	TYPE TEST: Page 36 8) Flammability test (IS : 11731 (Part II)-1986)/UL :94) The sample shall comply to flammability requirements of category FV0/V0 as per	Meter Box complies with flammability requirement of FV2 as per IS14772/ UL94. Kindly accept the same	Need to comply spec.



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	respective standards		
	<p>TYPE TEST: Page 36</p> <p>9) Test for self- extinguishing property (IS:4249-1967) The sample when tested as per clause 3.5.1 of IS 4249, shall comply to the specified requirements.</p>	<p>Offered meter box complies as per IS 14772, test report for self extinguishing property as per (IS:4249-1967) is not available. Kindly accept the same.</p>	Need to comply spec.
	<p>TYPE TEST: Page 36</p> <p>12) UV Light Exposure (UL-746C) The sample when exposed to UV light as per the defined test method, shall comply to following Physical Properties: The average value of physical properties after the UV light exposure shall not be lower than 70% of its initial value (without UV aging) i.e. the variation shall not be more than 30%. Flammability Test: After the UV light exposure, the flammability requirement of FV0 shall remain unchanged. Flexural Strength: After the UV light exposure, Flexural strength shall not be</p>	<p>Offered meter box complies with UVA exposure for 200 hrs as per ASTM G 154. Kindly accept the same.</p>	Need to comply spec.



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	lower than 70% of its initial value (without UV aging) i.e. the variation shall not be more than 30 %.		
50	GUARANTEE : Page 37 GUARANTEE: Bidder 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 TPNODL.	Energy Meters shall be Guaranteed for 60 Months from the date of Supply. 5 Years time period is sufficient for Latent Defect if any. So, we request you to kindly remove this clause.	Ok
51	SAMPLE: Page 37 SAMPLE: Bidders are required to manufacture 01 number of sample meter box as per the TPNODL specification and submit the samples (non- returnable) along with bid for approval. Address to be provided by TPNODL Team.	Drawing for offered meter box is attached for your reference. However sample for meter box is not available, same can be provided at the time of order finalization. Kindly accept the same.	Need to comply spec.
52	GTP : Page 38 18) Push Button arrangement spring loaded push button arrangement shall be provided at the front of the box with sealing provision	Sealing arrangement for push button on meter box is not required & hence not available. Kindly accept the same.	Need to comply spec.



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53	GTP : Page 38 19) Fixing arrangement 4 nos. key holes of minimum 6 mm dia shall be provided at the four corners of the meter box	For mounting meter box 3 nos mounting provision are provided, 1 at top which is keyhole type arrangement & 2 holes at bottom. Kindly accept the same.	Need to comply spec.
54	1.0(Pg 22) This specification covers the design, engineering, manufacture, testing and calibration at manufacturer's works before dispatch, packing, supply and delivery of Class 1.0 accuracy, electronic energy meter, suitable for connection to LT single phase 2 wire, 240V system.	LT Three phase four wire, 240V system.	Ok
55	4.10 (Pg 23) The meter shall be able to continuously withstand phase to phase voltage of 450V	Meter will withstand 450V between phase and neutral for 1 hour	Ok
56	GENERAL MECHANICAL REQUIREMENTS (Pg 23) The design of meter shall conform to IP 54 class degree of protection.	Meter will conform to IP 51.	Need to comply spec.
57	METER CASE(Pg 23) The housing of the meter shall be safe high-grade Engineering plastic or any other high quality insulating material and	Bottom case, Top case and terminal block will be separate part. However meter will be ultrasonically welded.	Ok



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	shall be very compact in design. Meter body should have an integrated encapsulated design so that chances of cover opening are reduced.		
58	TERMINALS -TERMINAL BLOCK (Pg 24) Terminal block shall have supply side cable locking arrangement so that supply side cables cannot be removed after installation, to avoid tampers in field.	Standard terminals with 2 terminal screws will be provided. Locking mechanism for the supply side cables cannot be provided.	Ok for 2 terminal screws. Terminal locking arrangement- As per our Spec.
59	DISPLAY SCROLLING (Pg 24) Meter should have no pushbutton and shall have a capacitive touch arrangement to avoid water/fluid injection inside of meter circuit.	Pilfer proof push button will be provided.	Ok
60	COMMUNICATION PORT (Pg 24) 2. REMOTE COMMUNICATION PORT : Meter shall have an additional communication port in the of micro USB port to interface external modem for remote data collection.	RS 232 port with RJ11 connevctor will be provided.	Ok
	DATA DOWN-LOADING CAPABILITY (Pg 24)	RS 232 port with RJ11 connevctor will be provided.	Ok



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Tender Description: Rate Contract for Supply of 3 Phase Meter with Box

S. No.	Tender Reference	Bidder's Pre-Bid Query	TPNODL's Response
	Meter shall support a minimum baud rate of 9600 on optical port as well as micro USB communication port.		
61	DISPLAY OF MEASURED VALUES (Pg 25) · Universal active maximum demand with date and time · Universal apparent maximum demand with date and time o Date and time for maximum demand	Present Billing & Previous Billing Active & Apparent Maximum Demand with Occurrence Date & Time will be provided.	Ok
62	DISPLAY OF MEASURED VALUES(Pg 25) · High resolution active forwarded energy (0.1 Wh resolution)· High resolution reactive lag forwarded energy (0.1 VARh resolution)· High resolution reactive lead forwarded energy (0.1 VARh resolution)· High resolution apparent forwarded energy (0.1 VAh resolution)	High Resolution Energy parameters will be minimum one digit after decimal (for Wh, VARh, VAh registers) OR 4 digits after decimal (for kWh, kVARh, kVAh registers)	Ok
63	DISPLAY OF MEASURED VALUES (Pg 25) · Cumulative status of current related tampers · Cumulative status of tampers other than current and potential	Kindly explain what information is to be provided for these.	Other tamper event: i-Cover open tamper ii -Magnetic tamper iii -EHV tamper iv - Neutral Disturbance



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	<ul style="list-style-type: none">Cumulative status of potential related tampers		
64	<p>POWER CONSUMPTION (Pg 26)</p> <ul style="list-style-type: none">The active and apparent power consumption in each voltage circuit at reference voltage; temperature and frequency shall not exceed 0.5 W and 1 VA per phase respectively.The apparent power consumption in each current circuit at basic current, reference frequency and reference temperature shall not exceed 0.1 VA per phase.	Power consumption will be as per IS 13779	Need to comply Spec
65	<p>CALIBRATION & TEST OUTPUT (Pg 26)</p> <p>Meter should have two calibration LEDs for accuracy measurement for different energies. Out of these, one should be kept fixed on kWh and other one shall be configurable for rest two (kVARh, kVAh).</p>	One LED will be for kWh & other will be for kVARhm(kVAh is a derived parameter).	Need to comply Spec.
66	<p>ABNORMAL EVENTS (Pg 27)</p> <p>e) Magnetic Influence - The Meter shall be capable of detecting and recording of presence of abnormal magnetic influence</p>	<p>Meter will follow CBIP-325 for Magnetic influence.</p> <p>'Mag' icon will be in display during the persistence of the tamper. When tamper will be restored, this icon will disappear.</p>	Need to comply Spec.



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	near the meter, if the magnetic influence affects the meter functionality. The meter should record at I _{max} on account of magnetic influence. Separate legend for magnet event shall be made available on LCD. This legend shall remain in on state till meter reading so that it will come in to notice of meter reader.		
67	ABNORMAL EVENTS Pg 27) l) Cover Open: The meter shall be able to detect cover open occurrence event if cover is opened in mains on or off condition. Separate legend for cover open event shall be made available on LCD. This legend shall remain in on state till meter reading so that it will come in to notice of meter reader	Cover Open ¹ is a Non-rollover type of tamper. Once occurred, it will not be restored.	Need to comply Spec.
68	ABNORMAL EVENTS Pg 27) n) The meter shall keep records for the minimum last 600 events (occurrence + restoration) for above abnormal conditions.	Please provide Compartment wise break-up (Voltage related, Current related, Other Tampers, Power-off, Non-rollover events) of tamper event registration.	Need to comply Spec.



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69	Box Specification : Sr. 2(Pg 33) Degree of protection : IP55	Please accept IP54 compliance.	Need to comply Spec.
70	Box Specification : Acceptance Tests (Pg 35) 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 7. Flammability test 8. Verification of Die-electric properties 9. Finishing of box 10. Screw Driver penetration 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).	Need to comply Spec.
71	Box Specification : NAME PLATE AND MARKING(Pg 34) The name plate shall be indelibly and distinctly marked with all essential particulars as per the relevant standards along with the following information: a) Manufacturer's name	Following information will be printed in the Box : a) Manufacturer's name b) RO No. with date c) Item Code (if issued by TPNODL) d) Month and Year of manufacturing (MM/YYYY) e) Property of 'TPNODL'	Ok



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S. No.	Tender Reference	Bidder's Pre-Bid Query	TPNODL's Response
	b) RC and RO/PO No. with date c) Item Code d) Serial number e) Month and Year of manufacturing (MM/YYYY) f) No supply number: g) Property of 'TPNODL'		
	Box GTP - Sr. 21(Pg 39) Printing : Metallic label containing the letters " _____ " and the P.O. No. and date shall be engraved on the top cover of the box. The name of the manufacturer shall be engraved on the front side of the box.	Following information will be printed in the Box : a) Manufacturer's name b) RO No. with date c) Item Code (if issued by TPNODL) d) Month and Year of manufacturing (MM/YYYY) e) Property of 'TPNODL'	Ok
72	Box GTP - Sr. 6 (Pg 38) Thickness (mm) : 3 mm on the load bearing side (i.e. back side of the box) and other sides, door and roof shall not be less than 2.5 mm	Thickness of the Box will be 2.5 mm all over.	Ok
73	Box GTP - Sr. 8, 9 & 10(Pg 38) Viewing window material : non-stretchable break resistant transparent poly carbonate material UV stabilized Thickness of viewing window : 2.0 mm	Box being fully transparent polycarbonate, there will not be any separate Viewing Window.	OK



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	<p>thickness (minimum) Shade arrangement to window : To be Provided</p>		
74	<p>GCC13.6 Latent Defect: Hidden defects in manufacturing or design of the product supplied and which could not be identified by the tests conducted but later manifested during operation of the equipment are termed as latent defects. 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.</p>	<p>Energy Meters are Guaranteed for 5 years from date of commissioning or 5.5 years from the date of supply which ever is earlier. Latent defect Guaranteed is agreed as 5.5 year is sufficient for any design defect.</p> <p>Request to remove this clause.</p>	OK
75	<p>GCC14.0 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, TPNODL has the right to levy LD on the entire contract value, subject to a maximum of 10% of the total contract</p>	<p>Request you to please accept the LD charges of 1% per week max. to 10% on undelivered portion.</p>	<p>Ok already mentioned. Please See 7.0 -Post Award Contract Administration</p> <p>7.1 Special Conditions of Contract</p> <p>LD applicable shall be on undelivered portion in respective release.</p>



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	value.		
76	GCC/Clause No13.3/Page no. 76 Any repairs during the Guarantee Period shall be carried out by the Associate within 30 days of reporting the issue to Associate by TPNODL. However, if replacement of the Equipment is required, Associate shall notify the same to TPNODL within 7 days of reporting the issue by TPNODL.	Since it's a customised product repair & replacement should be allowed within 45 days from the date of reporting for Odisha.	It should be as per tender document only.
77	Cl. 1.7.E (Pg 7) 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.	It should be as per tender document only.
78	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 by Balasore Branch by a letter to that effect in case BG is from the branch outside Balasore).	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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Note: - This document shall form an integral part of tender and should be submitted along with the tender document.