



**Corrigendum No: 1**

**Date: 12.08.2022**

**Tender Enquiry No- TPSODL/OT/2022-23/072**

**Work Description –  
Supply of Electrical Testing Equipment at TPSODL**

**Clause 1.3: Dates in Calendar of events revised as below**

		<b>Existing Calendar</b>	<b>Revised Calendar</b>
(a)	Last date and time of Payment of Tender Fee	22-07-2022 18:00 Hrs	22-07-2022 18:00 Hrs
(b)	Last Date of receipt of pre-bid queries if any.	25-07-2022 18:00 Hrs	25-07-2022 18:00 Hrs
(c)	Date and Time of Pre-Bid Meeting	NA	NA
(d)	Last Date of Posting Consolidated replies to all the pre-bid queries as received	28-07-2022, 18:00 Hrs	12-08-2022, 18:00 Hrs
(e)	Last date and time of receipt of Bids	01-08-2022, 18:00 Hrs	18-08-2022, 18:00 Hrs
(f)	Date & Time of opening technical bids & EMD (Envelope-1 & 2)	01-08-2022, 18:00 Hrs onwards	18-08-2022, 18:00 Hrs onwards

**Item no. 10 (Earth Tester Clamp on Type Digital) of Annexure I- Revised Technical Specification uploaded.**

**Rest of the tender document remains unchanged.**

**Regards,  
Soni Panda**


**Procurement Dept.**

**Mob +91 9178149826**

**TP SOUTHERN ODISHA DISTRIBUTION LIMITED**

**(A Tata Power and Odisha Government Joint Venture)**

**MSTC Training Centre, Ambagada | Berhampur | Ganjam | Odisha - 760 006**

	TP SOUTHERN ODISHA DISTRIBUTION LIMITED, BERHAMPUR		
	TECHNICAL SPECIFICATION		
Doc. Title	STANDARD TECHNICAL PARTICULARS FOR CLAMP ON EARTH TESTER		
Doc. No	ENG-GEN-Clamp on Earth Tester	Eff. Date: 01/03/2022	
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## 1. SCOPE:

This specification covers the technical requirements for packing, forwarding and supply of clamp on earth tester with all accessories for efficient and trouble-free operation. The specific requirements are covered in the enclosed standard technical requirement.

## 2. APPLICABLE STANDARDS

The equipment covered by this specification shall unless otherwise stated, be designed, manufactured and tested in accordance with the latest editions of the following Indian, International Standards and shall conform to the regulations of the local authorities:

IEC 61010-1:2001: Safety requirements for electrical equipment for measurement, control, and laboratory use

EN ISO 9001: Quality Assurance System


EMC Regulations: CE Sign

## 3. CLIMATIC CONDITIONS OF THE INSTALLATION :

1. Maximum altitude above sea level 1,000m
2. Maximum ambient air temperature 50°C
3. Maximum daily average ambient air temperature 35°C
4. Minimum ambient air temperature 0°C
5. Maximum relative humidity 95%
6. Average number of thunderstorm days per annum (isokeraunic level) 70
7. Average number of rainy days per annum 120
8. Average annual rainfall 150cm
9. Earthquakes of an intensity in horizontal direction - equivalent to seismic acceleration of 0.3g
10. Earthquakes of an intensity in vertical direction - equivalent to seismic acceleration of 0.15g (g being acceleration due to gravity)
11. Wind velocity: 300 km/hr, 200 km/hr and 160 km/hr. environmentally, some of the regions, where the work will take place includes coastal areas, subject to high relative humidity, which can give rise to condensation. Onshore winds will frequently be salt laden. On occasions, the combination of salt and condensation may create pollution conditions for outdoor insulators. Some places are in heavily industrial polluted areas. Therefore, Outdoor material and equipment shall be designed and protected for use in exposed, heavily polluted, salty, corrosive and humid coastal atmosphere.

The design of equipment and accessories shall be suitable to withstand seismic forces corresponding to an acceleration of 0.1 g.

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#### 4. GENERAL TECHNICAL REQUIREMENTS AND GENERAL CONSTRUCTIONS :

S. No	Description	Range
1	Resistance	0-1000 $\Omega$
2	Accuracy	$\pm 2\% \pm 0.5 \Omega$
3	Jaw dimension	<u>30mmX50mm (min)</u>
4	Display	<u>4 digits</u>
5	Operating temperature	0 °C to +50 °C
6	Storage temperature	0 °C to +50 °C
7	Safety	EN 61010-2-032 CATIV 600 V

#### 5.0 NAME PLATE AND MARKING:

The equipment shall be provided with durable and legible embossed, effectively secured against removal as per the relevant standards. The Meter shall be embossed with the following:

- i) Property of TPSODL, Berhampur
- ii) Purchase Order No with date
- iii) Item Code Number
- iv) Manufacturer's name
- v) Serial number
- vi) Month and Year of manufacture


#### 6.0 TESTS:

All routine, acceptance & type tests shall be carried out in accordance with the relevant IS/IEC. All routine & acceptance tests shall be witnessed by the TPSODL/his authorized representative. All the components shall also be type tested as per the relevant standards. Following tests shall be necessarily conducted on the material in addition to others specified in IS/IEC standard.

#### 7.0 TYPE TEST CERTIFICATES:

Vendor to provide Calibration certificate and Test reports at the time of shipment. All the tests shall be conducted by NABL accredited lab as per the relevant standards. Test should have been conducted in certified Test Laboratories for all Instruments to be supplied. In the event of any discrepancy in the test reports i.e. any test report not acceptable or any/all

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type tests (including additional type tests, if any) not carried out, same shall be carried out without any cost implication to TPSODL. Self-calibrated meters is recommended.

#### 7.1 Type Test

The tender shall have to submit type-test report carried at Govt. approved Laboratory, NPL, equivalent along with offer.

#### 7.2 Routine Tests

NA

### 8.0 PRE- DESPATCH INSPECTION:

Equipment shall be subject to inspection by a duly authorized representative of the TPSODL. Inspection may be made at any stage of manufacture at the option of the TPSODL and the equipment if found unsatisfactory as to workmanship or material, the same is liable to rejection. Bidder shall grant free access to the places of manufacture to the TPSODL's representatives at all times when the work is in progress. Inspection by the TPSODL or its authorized representatives shall not relieve the supplier of his obligation of furnishing equipment in accordance with the specifications. Material shall be dispatched after specific MDCC (Material Dispatch Clearance Certificate) is issued by the TPSODL.


Following documents shall be sent along with material:

- i) Test reports
- ii) MDCC issued by TPSODL
- iii) Invoice in duplicate
- iv) Packing list
- v) Drawings & catalogue
- vi) Guarantee / Warrantee card
- vii) Delivery Challan
- viii) Other Documents (as applicable)

### 9.0 INSPECTION AFTER RECEIPT AT STORE:

The material received at the TPSODL store shall be inspected for acceptance and shall be liable for rejection, if found different from the reports of the pre-dispatch inspection and one copy of the report shall be sent to Contracts department.

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## 10.0 GUARANTEE:

Bidder shall stand guarantee towards design, materials, workmanship & quality of process/ manufacturing of items under the contract for due and intended performance of the same, as an integrated product delivered under this contract. In the event any defect is found by the TPSODL up to a period of 60 months from the date of commissioning or 66 months from the date of last supplies made under the contract, whichever is earlier. Bidder shall be liable to undertake to replace/rectify such defects at his own costs. within mutually agreed timeframe, and to the entire satisfaction of the TPSODL, failing which the TPSODL will be at liberty to get it replaced/rectified at Bidder's risks and costs and recover all such expenses plus the TPSODL's own charges (@ 20% of expenses incurred), from the Bidder or from the "Security cum Performance Deposit" as the case may be. In case of insulated mats fails within the guarantee period the TPSODL will immediately inform the bidder who shall take back the defective mats within 15 days from the date of intimation at his own cost and replace insulated mats within forty-five days of date of intimation with a roll over guarantee.

The outage period i.e. period from the date of failure till unit is repaired / replaced shall not be counted for arriving at the guarantee period.

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 the TPSODL.


## 11.0 PACKING:

Bidder shall ensure that all the equipment covered under this specification shall be prepared for rail/road transport in a manner so as to protect the equipment from damage in transit. The material used for packing shall be environmentally friendly.

## 12.0 TENDER SAMPLE:

NA

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### 13.0 QUALITY CONTROL:

The bidder shall submit with the offer Quality assurance plan indicating the various stages of inspection, the tests and checks which will be carried out on the material of construction, components during manufacture and bought out items and fully assembled component and equipment after finishing. As part of the plan, a schedule for stage and final inspection within the parameters of the delivery schedule shall be furnished. The TPSODL's engineer or its nominated representative shall have free access to the manufacturer's/sub-supplier's works to carry out inspections.

### 14.0 MINIMUM TESTING FACILITIES:

Bidder shall have adequate in-house testing facilities for carrying out all routine tests, acceptance tests as per Indian /International standards.

### 15.0 MANUFACTURING ACTIVITIES:

The successful bidder will have to submit the bar chart for various manufacturing activities clearly elaborating each stage, with quantity. This bar chart should be in line with the Quality assurance plan submitted with the offer. This bar chart will have to be submitted within 15 days from the release of the order.

### 16.0 SPARES, ACCESSORIES AND TOOLS:


Bidder shall provide all spares, accessories and tools if applicable.

### 17.0 DRAWING AND DOCUMENTS:

Following drawings and documents shall be prepared based on TPSODL specifications and statutory requirements and shall be submitted with the bid:

- Completely filled in Technical Particulars
- General description of the equipment and all components including brochures.
- General arrangement
- Experience List
- Type test certificates

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After the award of the contract, four (4) copies of following drawings, drawn to scale, describing the equipment in detail shall be forwarded for approval.

Sr. No.	Description	For Approval	For Review Information	Final Submission
1	Technical Parameters	√		√
2	GA Drawing of Laser Distance Meter	√		√
3	Installation Instruction			√
4	Manual/Catalogues		√	
5	QA & QC Plan	√		√
6	Test Certificates	√	√	√

Bidder shall subsequently provide GTP, Test certificates shall be submitted after the final approval of the same to TPSODL.


All the documents & drawings shall be in English language.

Instruction Manuals: Bidder shall furnish two softcopies (CD) and four (4) hard copies of nicely bound manuals (In English language) covering erection and maintenance instructions and all relevant information and drawings pertaining to the main equipment as well as auxiliary devices.

## 18.0 GURANTEED TECHNICAL PARTICULARS :

S. No	Description	Range
1	Resistance	
2	Accuracy	
3	Jaw dimension	
4	Display	
5	Operating temperature	
6	Storage temperature	
7	Safety	

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## 19.0 SCHEDULE OF DEVIATION:

The bidders shall set out all deviations from this specification, Clause by Clause in this schedule. Unless **specifically** mentioned in this schedule, the tender shall be deemed to confirm the TPSODL's specifications.

### **(TO BE ENCLOSED WITH THE BID)**

All deviations from this specification shall be set out by the bidders, clause by Clause in this schedule. Unless specifically mentioned in this Schedule, the tender shall be deemed to confirm the TPSODL's specifications:

S. No.	Clause No.	Details of deviation with justifications

We confirm that there are no deviations apart from those detailed above.

Seal of the Company:

Signature:

Designation:

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