



**PUDUCHERRY POWER CORPORATION LIMITED**

(A GOVERNMENT OF PUDUCHERRY UNDERTAKING)

**PROJECT OFFICE, T.R. PATTINAM 609 606, KARAIKAL.**

Phone: 04368-233060, 233344

Email: ppclmmc@gmail.com

Telefax: 04368-233355.

Ref. No: W-012/MMC/2022-23/979

GSTIN No.34AAACP6507E1ZS

Dt. 26.08.2022

**ENQUIRY**

**To**

**Sub:** Inviting offer for the Procurement of Dry Block Temperature Calibrator – Reg.,

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**QUOTATION TO BE:**

Submitted on or before – <b>16.09.2022 @ 05 Pm</b>	Opened on - <b>17.09.2022 @ 12 Pm</b>
Kept valid for <b>3</b> months from the date of opening	Submitted in <b>TWO</b> parts.

Sealed quotations are invited for the supply of Dry Block Temperature Calibrator as per Specification enclosed in the annexure and as per the terms and conditions mentioned therein.

**General Terms and conditions:**

1. The rate quoted should be firm, inclusive of GST, freight and all other charges as admissible.
2. Applicable other charges, if any should be clearly mentioned. If not mentioned, it will be presumed that the rate quoted is inclusive of all other charges.
3. **EARNEST MONEY DEPOSIT:** An Earnest Money Deposit of **Rs 4800.00** (Rupees Four thousand and eight hundred only) should be paid by demand draft drawn in favor of the EXECUTIVE ENGINEER (MECH.), Puducherry Power Corporation Ltd T.R. Pattinam, Karaikal on any Nationalized/Schedule bank payable at Karaikal. The earnest money deposit will bear no interest and will be released after successful supply of materials and acceptance.
4. Parties registered with NSIC or SSI/MSME is exempted for submitting EMD/SD. However copies of supporting Documents/Certificates should be kept in separate cover super scribing **"Earnest Money Deposit Exemption"**.
5. The party shall be required to place the earnest money and the tender in separate sealed envelopes marked "Earnest Money" and "Tender" respectively. Both the envelopes shall then be placed in another sealed envelope and submitted to the tender inviting authority in the usual manner. The officer opening the tenders shall first open the envelope containing the earnest money. If the earnest money is found to be in order, only then the Officer shall proceed further with opening the tender.
6. The materials should be original and as per the specification enclosed in the annexure only.
7. The materials should be directly supplied to the PPCL site, T. R. Pattinam, Karaikal-609 606, on door delivery basis.





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**ENQUIRY PAGE NO. 2**

- 8. Payment: 100%** Payment will be made within 30 days from the date of receipt of your invoice after receipt of materials in good condition. The **bill in triplicate** along with **Advance stamp fixed and signed receipt** should be sent to the undersigned for effecting payment.
- 9.** The delivery period and mode of dispatch should be clearly specified.
- 10. Liquidity Damage Clause:** If the supplier fails to supply the materials within the delivery period, then supplier shall pay LD @ 0.5% for each week delay in supply and the total LD % will be subject to the maximum of 5% of the quoted rate.
- 11.** The supplier should provide a demo on the working of the Dry Block Temperature Calibrator at PPCL site at the time of delivery.
- 12.** The supplier should produce necessary test, guarantee/warranty certificates for the Dry Block Temperature Calibrator at the time of delivery.
- 13.** Any loss or damage during transit to site should be made good by the supplier free of charge provided the same is reported within 15 days of the arrival of material at site.
- 14. Validity:** Your offer should be valid for 90 days from the date of tender opening.
- 15.** Sealed quotation should be superscripted as "QUOTATION/ENQUIRY NO. W-012 for the supply of Dry Block Temperature Calibrator".
- 16.** Quotation through e-mail or any other mode will not be accepted.
- 17.** Our **GSTIN No.34AAACP6507E1ZS** is registered with Commercial Taxes Department, Puducherry. The GST number of the agency should be provided in the offer.
- 18.** The undersigned reserves all rights to accept/reject the quotation without assigning any reasons thereof.

  
26/08/2022  
**EXECUTIVE ENGINEER (MECH) PLANT**





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**ENQUIRY PAGE NO. 3**

Description/Specifications	Qty Reqd.	Unit Rate (Rs.)	Total Amount (Rs.)
<b><u>Dry Block Temperature Calibrator</u></b> Range: 50 to 650 °C Model Preferred: Fluke-9144 Metrology well Nagman- Metcal 650 or Its Equivalent (As per the detailed Specifications Enclosed).	01 No		
<b>Add: P&amp;F Charges</b>			
<b>Add: Freight Charges</b>			
<b>Add: GST@ %</b>			
<b>Total</b>			

**Commercial Terms and Condition:**

Sl.No	Details	Terms in Tender	Terms Accepted by the Party
1	Price Quoted	F.O.R. PPCL, Site	
2	Payment Terms	Within 30 days after delivery of the materials.	
3	Validity	90 Days from date of opening of Tender	
4	Delivery Period	Vendor to specify	
5	Guarantee/Warranty	Vendor to specify	
6	Acceptance of All the Terms and Condition of the Enquiry	To be Accepted	

**Signature with Seal of the Party**





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**ENQUIRY PAGE NO. 4**

**Temperature Calibrator Specification :**

<b>Base Unit Specifications</b>	
Temperature range at 23°C	50°C to 660°C (122°F to 1220°F)
Display accuracy	±0.35°C at 50°C, ±0.35°C at 420°C, ±0.5°C at 660°C
Stability	±0.03°C at 50°C, ±0.04°C at 420°C, ±0.05°C at 660°C
Axial uniformity at 40 mm(1.6 in)	±0.05°C at 50°C, ±0.35°C at 420°C, ±0.5°C at 660°C
Radial uniformity	±0.02°C at 50°C, ±0.05°C at 420°C, ±0.10°C at 660°C
Loading effect (with a 6.35 mm reference probe and three 6.35 mm probes)	±0.015°C at 50°C
	±0.025°C at 420°C
	±0.035°C at 660°C
Hysteresis	0.1
Operating conditions	0°C to 50°C, 0% to 90% RH (non-condensing)
Environmental conditions (for all specifications except temperature range)	13°C to 33°C
Immersion (well) depth	150 mm (5.9 in)
Thermowell	Required with Single hole Size 6,8,10,12,15,21 mm Probe, Multihole (1x 6mm, 1x 10mm)
Heating time	15 min: 50°C to 660°C (Vendor to Specify)
Cooling time	25 min: 660°C to 100°C (Vendor to Specify)
	35 min: 660°C to 50°C (Vendor to Specify)
Resolution	0.01°
Display	LCD, °C or °F user-selectable
Size (H x W x D)	(Vendor to Specify)
Weight	(Vendor to Specify)
Power requirements	230 V (±10%), 50/60 Hz, (Vendor to Specify)
Computer interface	RS-232 interface
Calibration	NABL accredited calibration included
Automation	Use the 1586A Super-DAQ to automate temperature sensor calibration
<b>Specifications</b>	
Built-in reference thermometer readout accuracy (4-wire reference probe) <sup>1</sup>	±0.010°C at -25°C, ±0.015°C at 0°C, ±0.020°C at 50°C, ±0.025°C at 150°C, ±0.030°C at 200°C, ±0.040°C at 350°C, ±0.050°C at 420°C, ±0.070°C at 660°C
Reference resistance range	0 ohms to 400 ohms





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Reference resistance accuracy <sup>2</sup>	0 ohms to 42 ohms: $\pm 0.0025$ ohms 42 ohms to 400 ohms: $\pm 60$ ppm of reading
Reference characterizations	ITS-90, CVD, IEC-751, Resistance
Reference measurement capability	4-wire
Built-in RTD thermometer readout accuracy	NI-120: $\pm 0.015^{\circ}\text{C}$ at $0^{\circ}\text{C}$ , PT-100 (385): $\pm 0.02^{\circ}\text{C}$ at $0^{\circ}\text{C}$ , PT-100 (3926): $\pm 0.02^{\circ}\text{C}$ at $0^{\circ}\text{C}$ , PT-100 (JIS): $\pm 0.02^{\circ}\text{C}$ at $0^{\circ}\text{C}$
RTD resistance range	0 ohms to 400 ohms
RTD resistance accuracy <sup>2</sup>	25 ohms to 400 ohms: $\pm 80$ ppm of reading 0 ohms to 25 ohms: $\pm 0.002$ ohms
RTD characterizations	PT-100 (385),(JIS),(3926), NI-120, Resistance
RTD measurement capability	4-wire RTD (2-,3-wire RTD w/ Jumpers only)
RTD connection	4 terminal input
Built-in TC thermometer readout accuracy	Type J: $\pm 0.7^{\circ}\text{C}$ at $660^{\circ}\text{C}$ , Type K: $\pm 0.8^{\circ}\text{C}$ at $660^{\circ}\text{C}$ , Type T: $\pm 0.8^{\circ}\text{C}$ at $400^{\circ}\text{C}$ , Type E: $\pm 0.7^{\circ}\text{C}$ at $660^{\circ}\text{C}$ , Type R: $\pm 1.4^{\circ}\text{C}$ at $660^{\circ}\text{C}$ , Type S: $\pm 1.5^{\circ}\text{C}$ at $660^{\circ}\text{C}$ , Type M: $\pm 1.4^{\circ}\text{C}$ at $660^{\circ}\text{C}$ , Type L: $\pm 0.7^{\circ}\text{C}$ at $660^{\circ}\text{C}$ , Type U: $\pm 0.75^{\circ}\text{C}$ at $600^{\circ}\text{C}$ , Type N: $\pm 0.9^{\circ}\text{C}$ at $660^{\circ}\text{C}$ , Type C: $\pm 1.1^{\circ}\text{C}$ at $660^{\circ}\text{C}$
TC millivolt range	-10 mV to 75 mV
Voltage accuracy	0.025% of reading + 0.01 mV
Internal cold junction compensation accuracy	$\pm 0.35^{\circ}\text{C}$ (ambient of $13^{\circ}\text{C}$ to $33^{\circ}\text{C}$ )
Built-in mA readout accuracy	0.02% of reading + 2 mV
mA range	Cal 4-22 mA,
mA connection	2 terminal input
Loop power function	24 V DC loop power
Built-in electronics temperature Coefficient ( $0^{\circ}\text{C}$ to $13^{\circ}\text{C}$ , $33^{\circ}\text{C}$ to $50^{\circ}\text{C}$ )	$\pm 0.005\%$ of range per $^{\circ}\text{C}$
1. The temperature range may be limited by the reference probe connected to the readout. The Built-In Reference Thermometer Readout Accuracy does not include the sensor probe accuracy. It does not include the probe uncertainty or probe characterization errors.	
2. Measurement accuracy specifications apply within the operating range and assume 4-wires for PRTs. With 3-wire RTDs add 0.05 ohms to the measurement accuracy plus the maximum possible difference between the resistances of the lead wires.	