

ANNEXURE TO TENDER NO : DPS/MRPU/IGCAR/FUR/2596

1. Description of item:

Sr. No	Item	Qty
1.	Digital Process Scanner	10 Nos
2.	Digital Process Indicator	10 Nos

2. Detailed Specifications:

Specifications for item no. 1		
Sr. No	Parameter	Acceptable Values
2.1.	Type	Multi-channel digital process scanner
2.2.	No. of input channels	≥ 4
2.3.	Mounting profile	1/8 DIN
2.4.	Input types	Thermocouple (E, J, K, T, B, R, S, N), RTD (Pt-100, 3W), Current (4-20mA) , Voltage (0-10VDC) (Universal Input)
2.5.	Input scanning time	≤ 100 ms
2.6.	Display scan time	User programmable between 1 to 120 seconds or better
2.7.	Display Type	0.56" 7 segment LED with ≥ 9999 counts
2.8.	Display accuracy	±0.1% of FS or better
2.9.	Display resolution	1 count
2.10.	Discrete outputs	≥ 4 independent relay contacts in C/NO configuration with user configurable alarm thresholds
2.11.	Analog output	Minimum one 4/20mA retransmission output
2.12.	Power supply	240 V AC - 50 Hz ±5%

Specifications for item no. 1		
Sr. No	Parameter	Acceptable Values
2.13.	Power consumption	≤ 25 VA
2.14.	Operating Temperature & Humidity	15 to 55 °C & 0 – 95 % RH or better
2.15.	Mounting cut-out	45 mm (H) x 92 mm (W)

Specifications for item no. 2		
Sr. No	Parameter	Acceptable Values
1.1.	Type	Single channel Digital Process Indicator
1.2.	Mounting profile	1/8 DIN
1.3.	Input types	Thermocouple (E, J, K, T, B, R, S, N), RTD (Pt-100, 3W), Current (4-20mA) , Voltage (0-10VDC) (Universal Input)
1.4.	Input scanning time	≤ 250 ms
1.5.	Display Type	0.56" 7 segment LED with ≥ 99999 counts
1.6.	Display accuracy	±0.1% of FS or better
1.7.	Display resolution	1 count
1.8.	Square root calculation	Inbuilt
1.9.	Discrete outputs	≥ 2 independent relay C/O contacts in C/NO/NC configuration with user configurable alarm thresholds
1.10.	Analog output	Minimum one 4/20mA retransmission output
1.11.	Power supply	240 V AC - 50 Hz ±5%
1.12.	Power consumption	≤ 25 VA
1.13.	Operating Temperature & Humidity	15 to 55 °C & 0 – 95 % RH or better
1.14.	Mounting cut-out	45 mm (H) x 92 mm (W)

- 2.16. Relevant technical specifications/datasheets, catalogues and certificates shall be provided during the submission of bid and should contain information in comparison with the above requirements. Offers without them will not be considered for evaluation.
- 2.17. The supplier shall be manufacturer or authorized by the principal for distribution of the listed items. Certificate of authorization shall be enclosed with the bid.
- 2.18. Warranty: The items shall be guaranteed for a minimum period of 12 months from the date of delivery of the item at site against any type of defects arising out of design, material, workmanship or non-adherence to the respective Standards.
- 2.19. Pre-dispatch Inspection: The performance of the item as per the tender specifications shall be demonstrated by the supplier at their premises to the purchaser's representative on request.
- 2.20. Final Acceptance: Final acceptance of the supplies by the Purchaser shall only be provided after completing functional testing at site.
- 2.21. Post-supply Inspection: Post supply inspection in respect of supplies is not permitted. Any offer containing the condition of post supply inspection will not be considered.