

ANNEXURE TO TENDER NO. DPS/MRPU/1/1/1935

1. Description of the ITEM : **Pressure Transducer.**

2. Detailed SPECIFICATIONS and Quantity :

2.0	Description	:	Pressure transducer		
2.1	Type	:	Strain gauge based		
2.2	Service medium	:	Argon/Nitrogen gas pressure measurement		
2.3	Range and Quantity required	:	a)	0-20 kg/cm ²	: 2 Nos
			b)	0-70 kg/cm ²	: 2 Nos
			c)	0-100 kg/cm ²	: 5 Nos
	Total Quantity: 15 Nos		d)	0-200 kg/cm ²	: 4 Nos
			e)	0-350 kg/cm ²	: 2 Nos
					:
2.4	Transducer Power supply	:	Min 8 V Max 30V		
2.5	Out put	:	Min 0V Max 10 V		
2.6	Accuracy	:	± 0.25% or better		
2.7	Response time	:	<2ms (10% to 90%) or better		
2.8	Insulation resistance	:	100MΩ or higher @ 500vDC		
2.9	Body material	:	316 Stainless steel		
2.10	Sensor material	:	Pezo Resistive		
2.11	Process connection	:	1/4" BSP (M) Screwed connection		
2.12	Type of enclosure	:	Confirming to IP 65		
2.13	Electrical connection	:	Connector with suitable 9Pin adaptor		
2.14	Cable length	:	Minimum One meter		
2.15	Medium	:	Nitrogen gas/Argon gas		
2.16	Maximum pressure range	:	Process pressure: 2x , Burst Pressure: 5x of rated pressure.		
2.17	Maximum Temperature	:	125°C		
2.18	Zero and Span setting	:	Available		
2.19	Long Term Stability	:	0.25% F.S		
2.20	Shock	:	50g, 11ms Half Sine Shock per MIL -STD-202G		
2.21	Vibration	:	±20g, MIL-STD-810C		

Note: Operation manual in English language along with connection diagram shall be provided. Test and calibration certificate of each pressure transducer shall be provided. From each category

Evaluation Criteria: Only OEM authorized dealers with authorization certificate shall quote. Along with the offer, suppliers shall provide necessary proofs that they have supplied identical items to Govt establishment in last 5 to 10 years.

Acceptance Criteria: above Item shall accepted only after successful testing at IGCAR at rated maximum pressure. Pressure transducer shall installed and integrate with existing data logger available at IGCAR Kalpakkam.