TECHNICAL BID PROFORMA Item Name: Sensors and Measurement Probes

Bidder Eligibility Criteria:

1.0	Bidder Eligibility Criteria-I (Public Procurement – Preference to Make in India)	Class I / Class II	Local Content value	Reference, Page No.
Ι	Only 'Class-I local suppliers' and 'Class-II local suppliers', as defined under DIPP, MoCI Order No. P-45021/2/2017-PP (BE II) dated 16 th September 2020 and other subsequent orders issued therein.			
2.0	Bidder Eligibility Criteria-II	Compliance (Yes/No)	Reference Page No.	Remarks, If any
1	The bidder/OEM should have supplied at least 3 similar items to IITs, NITs, IISERs, CSIR Labs or other Govt. R&D organizations in the last 5 years in India or abroad, PO copies or installation certificates along with contact details of end user need to be submitted as the proof of supply. IIT Madras reserves its right to verify the claims submitted by the bidder and the feedback from the previous customers will be part of technical evaluation.			

3.0 Technical Compliance:

S. N0	SPECIFICATION	Complied / Not Complied	Reference Page No.
1	High pressure sensor		
	 Range : 0~1000bar ~6000bar 		
	Accuracy: 0.5%FS		
	Nonlinearity: Full range x 0.2%		
	Reliability: Full range x 0.05%		
	• Output: 4-20mA,0-10V, 0-5V, 1-5V, 0.5-4.5V (PT124B- 211) ; 1.5mV/V , 2mV/V (PT124G-211)		
	 Input voltage: 24VDC (4-20mA,0-10V, 0-5V output) 5 V DC (0.5-4.5V output) 10V DC (1.5mV/V , 2mV/V output) 		
	 Operating temperature: -20~80°C 		
	 Compensated temperature: 0~75°C 		
	Overload pressure: 150%FS		
	Burst pressure :300%FS		
	Wetted Parts: stainless steel		
	• Need to be compatible with high pressure waterjet machine tool		
	Should have relevant data processing software.		

		The approximation is due to be and a communicate with Forme		
		The software module should communicate with Fanuc Controller		
	2	Measuring probe with software module		
		• The measurement touch probe should be suitable to get situated alongside the waterjet cutting head.		
		• Touch probe kit should come with a calibration ring to be used to calibrate the tip of the stylus.		
		Interchangeable stylus		
		• Need to be compact, so can be mount to the micro-AWJ cutting head for in-situ measurement.		
		 Measurement accuracy: +/- 2 μm 		
		 Repeatability: motion depending on machine repeatability (+/- 2 μm) 		
		• Able to find the edge of the workpiece.		
		Ability to 3D measurement		
		o Locate a hole o Find towards machine axis find an angle and, on a workpiece o Locate an edge		
		Should come up with relevant data processing and measurement software		
		incusurement software		
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	r R	equirements SPECIFICATION	Complied / Not Complied	Reference Page No.
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	dules should be compartible to the waterjet	
env	vironment. They should be demonstrated on the machine	
too	1.	

(Note: It is mandatory for the bidders to provide the compliance statement in tabular column format along with catalogue page number (comply/not comply) for the above points with document proof as required. Failing which bidders will be technically disqualified)

SIGNATURE OF BIDDER ALONG WITH SEAL OF THE COMPANY WITH DATE