Annexure-II

Compliance Matrix

SI.	Specification			Supplier's Compliance		
No.				Complied (Y/N) [*]	Remarks	
	sco	PE OF	SUPPLY			
	1.1	length	e includes supply of universal single axis n measuring machine with necessary ssories and software			
1.	1.2		-delivery inspection of the equipment at ier's site will be carried out			
	1.3	our si	equipment has to be supplied and installed at te with performance test and accuracy instration			
	1.4	applic be pro	ttensive training on basic operation, cation software and basic maintenance has to ovided by the party during final nissioning of the equipment			
	MEA	SURE	MENT CAPABILITY			
	2.1		equipment should be capable of high precision measurement			
	2.2	The e	equipment shall have manual axis movements			
	2.3	The custo	equipment shall have computer and mized software for axis display and data sis			
	2.4	calibr	equipment should have the capability for ating the following types of gauges and uring instruments			
2		2.4.1	Thread plug & ring gauges according to thread standard like ISO (metric), DIN, ANSI, ASME, BS, JIS etc.,			
		2.4.2	Plain plug and ring gauges			
		2.4.3	Setting rings			
		2.4.4	Snap gauges			
		2.4.5	Dial indicators			
		2.4.6	Slip gauges and Gauge blocks			
		2.4.7	Micrometers (inside/outside)			
		2.4.8	Taper and Taper thread gauges			
	2.5	senso	equipment should have on-line temperature ors to compensate the errors due to erature fluctuations on the machine, scales obs.			

	MEA	MEASUREMENT CAPACITY OF THE EQUIPMENT				
	3.1	Maximun	n measurable length	0 - 600 mm (external)		
	3.2	X-axis, re	esolution	≤ 0.01 µm		
3	3.3	Z-axis, re	esolution	≤ 0.1 µm		
	3.4	Maximun compone	n weight of the ent to be measured	25 Kg		
	3.5	Minimum be meas	size of thread ring to ured	M3		
	ACC	URACY (l	JNCERTAINTY) OF THE	EQUIPMENT		
4	4.1	Length measuring error (X-axis), MPE : 0 - 100 mm : 0.15 μm or better 100 - 200 mm : 0.2 μm or better 200 - 400 mm : 0.3 μm or better 400 - 600 mm : 0.4 μm or better				
	4.2	Repeatability of the measurement : ≤ 0.05 µm				
	4.3	Party shall provide the necessary documents / calibration certificates for same / similar machine installations in India				
	APPLICATION SOFTWARE					
	5.1	The softv	vare shall have the follow			
		5.1.1 Calibrating the various types of gauges and measuring instruments mentioned in 2.4				
		5.1.2 Inspection of precision parts like bearing races etc., using various software modules				
5	5.2	Automatic generation of nominal values like major diameter, minor diameter, effective diameter etc., in the case of thread gauges and their tolerances after entering specification based on shaft or hole basis system				
	5.3	Temperature monitoring and compensation system using two or more temperature sensors				
	5.4	Computer aided data recording, processing, logging and transfer shall be available				
		All the so	oftware should be compli			
	5.5	standard	for its codes, tional accuracy	functioning and		

		available				
	5.7	Back-up copy of software in CD / DVD shall be given				
	ACC	ESSORIES				
	6.1	Necessary accessories required for basic operation of the machine to be supplied along with the machine				
	6.2	All essential accessories required for the calibration of gauges mentioned in 2.4 to be quoted				
6	6.3	All types of work holding and clamping accessories to be quoted				
	6.4	Calibration certificate of accessories and reference standards to be supplied				
	6.5	All necessary accessories and probes for inspection of precision parts like bearing race to be quoted				
	6.6	Other accessories like table support, adjustable centre support, tilting table, floating table, work holding clamps etc., to be quoted				
	CON	MPUTER SYSTEM				
	7.1	Operating system shall be latest Windows based in English language				
7	7.2	PC with latest configuration and multimedia capability with 24" TFT Monitor				
	7.3	High speed colour printer shall be supplied for report generation purpose				
	WAF					
8	8.1	Comprehensive warranty for machine, technical support, spares, service and calibration should be provided for minimum of 3 years, after installation and commissioning, for defect free operation and specified accuracies. Any defect observed during warranty period shall have to be repaired / replaced at free of cost.				
	8.2	All the software updates during the warranty period shall be supplied and installed on real time basis at free of cost.				
	8.3	Preventive and calibration visit to be done in every end of year during warranty period				

The non comprehensive AMC offer with price list of major spare parts for another 3 years to be provided PRE-DELIVERY INSPECTION & TRAINING AT SUPPLIER'S SITE Pre-delivery inspection prior to dispatch, performance test and accuracy demonstration of the machine shall be carried out in presence of our persons The methodology of performance test and accuracy demonstration shall be submitted along with the quotation The calibration certificates of the machine, accessories and reference standards shall be made available to us during pre-delivery inspection 7. Training shall be given to our persons for the following Operation of the machine and usage of software in all aspect of measurement and data analysis 9.4.2 Maintenance and trouble shooting INSTALLATION, TRAINING AND COMMISSIONING 10.1 The basic operation of the machine 10.2 All types of single axis measurement Calibration of the measuring instruments and gauges using the application software Basic maintenance of the machine 10.4 Party shall carry all necessary accessories and tools for installation and demonstration DOCUMENTATION All the data and results of testing and calibration of the machine at supplier's site ad well as at our site shall be properly documented and supplied to us with complete traceability to international standards 11.2 User manual in English language should be provided. INPUTS PROVIDED BY THE CUSTOMER (IISU) 12.1 Class 1,00,000 clean area is maintained with 20° ± 1*C, 50 - 55% RH		8.4	Service	ce support must be available at our site (IISU)			
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		INPL	JTS PR	OVIDED BY THE CUSTOMER (IISU)			
	12	12.1					

	12.2	Uninterrupted power supply, 220V ± 10V, 50Hz	
	12.3	Clean and dry compressed air	
13	ОТН	ER CONDITIONS AND REQUIREMENTS	
	13.1	The details of bought out items used in the machine (make and specification) should be furnished. It should be ensured that spare parts for the bought out items are readily available through the supplier / authorised service agency	
	13.2	Availability of spare parts shall be ensured at least for the next 10 years and spare parts offer to be provided for trouble free operation of machine for a period of minimum 5 years.	
	13.3	Overall space requirement for installation and operation of machine, computer, printer etc., should be given	
	13.4	Party has give the annual maintenance contract offer for a minimum period of 3 years after warranty	
	13.5	Any other requirements for the machine installation and operation shall be mentioned in the offer	
	13.6	Proper packaging and safe transportation of the machine shall be ensured	
	13.7	Party shall submit filled compliance matrix, (provided with the tender) along with their offer	
	13.8	Quotation must be from original precision metrology equipments manufacturers and machine offered must be from standard catalogued product.	
	13.9	Party shall submit their offer in two parts - Technical and Commercial	

^{* (}Supplier shall provide reference number against each as per the Quotation / Catalogue / Data Sheet)