

**ROUNDNESS TESTER-GENERAL SPECIFICATIONS COMPLIANCE MATRIX**

<b>S.NO.</b>	<b>SPECIFICATION</b>	<b>SPECIFICATION - VALUE</b>	<b>COMPLIANCE</b>
1	General Requirement 1	English as operational language.	
2	General Requirement 2	Printout facility of results.	
3	General Requirement 3	All accessories including calibration standards, Measuring gauges, Different styli, Computer with colour monitor, Instruments desk & computer table and operation & maintenance manual shall be supplied. Various necessary calibration standards required for the measurement of Geometric Dimensioning & Tolerancing shall be supplied.	
4	General Requirement 4	Machine shall be installed and calibrated to the stated accuracy at LPSC VALIYAMALA and extensive 5 days training to be imparted to LPSC VALIYAMALA employees, Training shall include a) Operation of the system, b) Calibration, maintenance and troubleshooting, c) Usage of software in all aspects of measurement and data analysis, part programming, Post processing.	
5	General Requirement 5	Warranty shall be provided for minimum two year.	
6	General Requirement 6	Power requirement; 220-230V, 50Hz, single phase.	
7	General Requirement 7	Specifications details for Air Supply, UPS and Air Drier shall be provided.	
8	General Requirement 8	Compressed air requirement (if any): Overall compressed air supply specifications like pressure, flow rate, cleanness shall be indicated. Air pressure available at LPSC Valiyamala (4 to 7 bar). Party shall supply air pressure regulator along with machine to match with Input pressure.	

9	General Requirement 9	Supplier shall have prior experience of supply of Roundness Tester equipments for precision components inspection.	
10	General Requirement 10	All necessary calibration standards required for the calibration shall be brought by the party at the time of installation.	
11	General Requirement 11	Various necessary calibration standards required for the measurement of Geometric Dimensioning & Tolerancing shall be quoted.	
12	General Requirement 12	All software updates during the warranty period shall be supplied, installed and trained to the user on real time basis at free of cost.	
13	General Requirement 13	The quote shall be in two parts. Part '1' is technical cum commercial with price figures masked and part '2' is technical cum commercial with price.	
14	General Requirement 14	All optional accessories shall be quoted separately with individual cost and final selection shall be done by LPSC during Part '1' evaluation before price bid, opening depending upon the requirement.	
15	General Requirement 15	Supplier shall offer automated CNC measurement solution for aerospace components with requisite fixtures, accessories, styli etc at installation site.	
16	General Requirement 16	Supplier shall offer automated solution for automated inspection of aerospace components.	
17	General Requirement 17	Supplier to offer requisite fixtures, accessories, styli required for automated CNC measurement of aerospace components with requisite programming system to be done at installation site.	
18	General Requirement 18	Supplier shall have experience in programming aerospace components inspection.	
19	General Requirement 19	Party shall provide compliance matrix as per enclosed format. Wherever parameter is specified with numerals, the reply shall be in numerals and other	

		statements like “Yes complied or agreed” alone are not acceptable and such offers shall not be considered.	
20	General Requirement 20	Offer would be considered only if, original catalogue (in English) embedded with all specifications of the quoted model for equipment, accessories, probes etc. are enclosed.	
21	General Requirement 21	After installation and commissioning of machine at LPSC VALIYAMALA. Party has to provide a Calibration certificate traceable to National and international standards.	
22	General Requirement 22	Two sets each of user manual and service manual (operation and maintenance manual) (for both mechanical and electronic hardware) in English language shall also be provided in soft and hard copy	
23	Special conditions 1	Pre-Qualification Criteria for bidders as below	
24	Special conditions 2	The following details/document shall be provided with quotation:The bidder shall be an Original Equipment Manufacturer(OEM), or authorized dealer of OEM. Authorized dealer(s) shall provide an authorization letter from OEM. The Original Equipment Manufacturer (OEM) shall have a minimum of Three years of continuous experience in the field of design, manufacturing and supply of Roundness Tester machine. List of Roundness Tester machines supplied, installed and commissioned till date (with details of major specification, model and clientele indicating name of company, contact person, phone no., e-mail address in the past 3 years) shall be provided.	
25	Special conditions 3	OEM(s) shall have supplied and commissioned at least one Roundness Tester with(Radial error (height above table): $\pm(0.04 \text{ micron} + 0.0005) \text{ micron/ mm}$ (height above table) or better for standard stylus (100mm. minimum), Axial Error (radius from centre): $\pm(0.04$	

		micron + 0.0005) micron/ mm (radius from centre) or better for standard stylus (100mm minimum) and Gauge resolution equal to or better than 0.03µm in the past three years to any industrial organization (preferably to ISRO, Aerospace or automobile Industries, etc.) and such machine shall be presently working satisfactorily. As a documentary proof, bidder shall provide copies of Purchase order, installation reports, calibration certificates, Performance Certificate, customer details with name of contact person, Phone No. and e-mail id.	
26	Special conditions 4	Offer would be considered only if, original catalogue (in English) embedded with all specifications of the quoted model for machine, accessories, probes etc. are enclosed.	
27	Special conditions 5	If any of the details required as per tender is not provided, the offer will be summarily rejected.	
28	Special conditions 6	Delivery Period: 18 Weeks from the date of Purchase Order.	
29	Special conditions 7	Pre-delivery inspection at the Supplier's site in presence of Purchaser's representative	
30	Special conditions 8	In house inspection of all the required aspects shall be completed by the party and inform to Purchaser for pre delivery inspection.	
31	Special conditions 9	All software features shall be demonstrated using the standard artefacts, as per the standards at purchaser's site.	
32	Special conditions 10	Machine acceptance criteria: All the accuracies- as mentioned above are to be proven as per relevant standards at LPSC VALIYAMALA after installation of machine.	
33	Special conditions 11	Warranty shall be provided for minimum two years from the date of installation and commissioning.	

34	Special conditions 12	Party shall also quote separately for Non-comprehensive AMC for a period of 3 (three) years after the warranty. The AMC shall include 4 (Four) preventive maintenance visits per year and to attend any number of breakdown calls.	
35	Special conditions 13	During the AMC period annually first preventive maintenance visit shall be combined with calibration.	
36	Special conditions 14	Payment for the AMC shall be on pro-rata basis and shall be paid after satisfactory completion of each preventive maintenance and calibration visit.	
37	Special conditions 15	The AMC shall be optional and LPSC VALIYAMALA reserves the right to not to choose the AMC along with procurement of the machine.	
38	Special conditions 16	Technical service support shall be made available for at least 10 years after expiry of warranty period	
39	Special conditions 17	Factory trained service engineers/ application engineers shall be based in India to support the machine offered.	
40	Special conditions 18	List of essential spares, likely to be required during the Non-Comprehensive AMC and its cost, valid during the entire period of AMC, after the expiry of warranty shall be submitted along with the quotation.	
41	Special conditions 19	Charges towards NC-AMC for a period of 3 years after expiry of warranty shall also be taken into account, to arrive the L1 offer.	