



RAJIV GANDHI UNIVERSITY OF KNOWLEDGE TECHNOLOGIES

(Act 18 of 2008)

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Rc. No: RGUKT/Proc/Mech.Engg/MTRL/T11/2013, date:21.12.2013

Sub: RGUKT-Hyderabad-Invitation of Tender for supply and installation of equipment to the Metrology Lab of Mechanical Engineering Department to the three campuses of RGUKT- Modification to the tender schedule-Reg..

Ref: 1) This office Tender Notification No: RGUKT/Proc/Mech.Engg/MTRL/T11/E - 2013,
Dated: 07.12.2013
2) Modifications, dated.11.12.2013 and 12.12.2013
3) Minutes of the Pre Bid conference held on 18.12.2013

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It is to inform that, based on the minutes of the pre-bid conference held on 18.12.2013 the following modifications/amendments were issued to the tender for supply and installation of equipment to the **Metrology Lab of Mechanical Engineering Department** to the three campuses of RGUKT.

I. Tender Schedule

Description	Existing Schedule	Revised Schedule
Bid Document Downloading End Date	30.12.2013 till 04:00PM	06.01.2014 till 02:00PM
Last date for uploading documents online	30.12.2013 @05:00 PM	06.01.2014 @05:00 PM
Last date for Submission of documents (Hard Copies)	31.12.2013 @04.00PM	07.01.2014 @04.00PM
Technical Bid opening date/time	02.01.2014 @03.00PM	08.01.2014 @03.00PM
Price Bid opening date/time	04.01.2014 @02.00PM onwards	10.01.2014 @02.00PM onwards

II. Technical Specifications

1. Coordinate Measuring Machine

Technical Specifications		Amendments
DESCRIPTION OF ARTICLES	Requirement	
Machine Type	CNC	
Measuring Range	Minimum 700 x 700 x 600 mm in X,Y &Z	
Accuracy	+/- 3 Microns	1.8+L/300 or better
Repeatability	+/- 2 Microns	2 Microns
Construction	Granite Table Providing a durable & Secure surface for parts.	
	Ceramic Guide ways offering rigidity & stability against temperature changes, moisture & other contamination	
	All the 3 axes should be supported by 4 sided Air Bearings	All the axes should be supported by air bearings
Control Panel	Computer independent,standard panel having dual graduated control joystick for easy and precise movement of all the 3 Axes.	
	Variable Speed control in CNC mode.	
	Panel should have switches for selecting operation types,emergency stop,start,run & reset	
Probe Head/Probe	Articulating Motorized Probe Head with a indexing resolution of 3 Deg or Better. Scanning probe should accommodate stylus length of Minimum 150 mm Vertically and 65 mm Radially	Articulating Motorized Probe Head with a indexing resolution of 7.5 Deg or Better. Scanning probe should accommodate stylus length of Minimum 150 mm Vertically and 65 mm Radially
	Optical probe Head (Quote as an option)	
Probing Method	Touch Trigger (point to Point) and continuous Scanning without changing the probe module.	
	Provision for attaching Optical probe	
Styli	Styli of Different Diameters with Min dia 0.3 mm.	Styli of Different Diameters with Min dia 0.5 mm or better.
Scales	Preferably Glass ceramic Scales with near zero thermal co-efficient of expansion.	Preferably Glass Scales with near zero thermal co-efficient of expansion.
Software	Should be able to read CAD files in DXF/STEP or IGES.	
	It should be capable of generating paths	

	automatically based on definition of Metrology elements to be evaluated.	
	It should also be possible to program manually (teach Mode)	
	It should allow alterations to be made to the measurement strategies in order to optimize the path.	
	It should be capable of extracting Nominal sizes / tolerances from CAD Data.	
	It should be capable of simulating the measurements while detecting the collision of probe with part.	
	It should allow to resume the program after an interption.	
	It should allow to make intermediate measiurements. It should be able to measure 1D, 2D and 3D curves. Transfer data from CAD to machine and Vice Versa	
	It should be capable of generating Reports,plotting forms and also evaluation flags on CAD model.	
SUPPORT	To be supplied elearning module	
	HOTLINE facility for the maintenance of the machine	
	The company should have supplied equivalent machines to educational institutions in India.	
Optional Accessories		Should be quoted separately as optional for Refrigerated air dryer, Suitable UPS and Personal Computer with Color Printer.

2. For the item no. 5, the following amendments may please be noted
The title of the equipment was changed to 'Portable surface roughness tester'
instead of 'portable form, surface and 3 Dimensional measurement machine'.

**Sd/-
Registrar**