

# WEST BENGAL UNIVERSITY OF TECHNOLOGY

## TENDER FORM

### 3D Coordinate Measuring Machine



**Tender Notice No**            **IEM/FO/12-13/38**

**Date of Issue**                **March 25, 2013**

D.D. No. for the Tender Price

Address:

BF-142, Sector-I,  
Salt Lake City,  
Kolkata-700064

Tele-Fax No:  
(033) 2334-1034

Phone No.:  
(033) 2321-1345

## Tender Paper for Supplying Software

a) Name & Address of the Firm :

b) Telephone No:

c) Mobile No.:

d) Fax No:

2. Name of the items for which the Firm is interested:

3. Name of the Proprietors/partners/directors etc:

Ref: Tender Notice No.

3. Name of the Proprietors/partners/directors etc:

4. Trade License No (With Photocopy):

5. VAT License No:

6. Service Tax Registration No (With Photocopy):

7. Additional Information if the party wants to include:

8. Copies of Testimonials/credentials/certificates regarding services/experience etc:

Signature with Stamp

Please give sealed quotation for the following items clearly superscribing the tender notice number on the envelope.

## Specifications

3D COORDINATE MEASURING MACHINE

**Quantity:** 1 Set

**Operation** – CNC

**Type** – Bridge

**Measuring Range** –

X axis:	<b>500mm</b>	<b>(minimum)</b>
Y axis :	<b>600mm</b>	<b>(minimum)</b>
Z axis :	<b>400mm</b>	<b>(minimum)</b>

**Measuring Accuracy** - (As per ISO 10360-2) **MPEE: ± 2.2+L/350 µm** or Better

**Probing Error:** -  $MPE_P = 2.2$  (µm) Probing Speed 8mm/sec

Strokes (mm)			Max 3D Velocity (mm/sec)	Acceleration (mm/sec <sup>2</sup> )	Max Part Weight (kg)	System Weight (kg)
X	Y	Z				
500	600	400	520	1000	250	800

**Resolution** - 0.0005 mm

**Repeatability** – 0.002 mm.

### **Salient features of Bridge construction**

- **Bridge construction** with low centre of gravity, wide bearing separation and an optimum stiffness-to-mass ratio.
- **All Granite guide ways** ensures uniform thermal, dimensional, torsional and geometric stability of the machine.
- **24 air-bearings for frictionless motion of the three axes.**
- High dynamics for better performance to an advanced reduction belt drive system, the machine can reach high accelerations, typically of medium/large-sized CMMs. Victorial Travel speed up to 520 mm/sec and acceleration up to 1000 mm/sec<sup>2</sup>.
- Thermally compatible materials and components minimize the influence of ambient temperature variations on measurement results,
- **Air Filter and Regulator.**
- **Z axis pneumatic counterbalance system.**
- **Granite Table with threaded inserts of size M10 for Job holding.**
- Passive Vibration isolation pads
- **Optical linear transducers**
- **30mm Ø single Sphere probe** qualification arte-fact, supplied complete with mounting holder, and NABL traceable certificate

- **Evaluation Unit Comprising of controller with I++ Compatibility**
- **Standard Joystick Control Unit**

**Calibration Sphere:** 30 mm dia. (Ceramic)

**Voltage Stabilizer (2KVA)**

**ISO 10360-2** Verification Report.

Instruction and Operation Manuals

- **Refrigerated Air Drier** - Capacity 7 cfm.
- **Air Compressor** - Single Stage, 2 Cylinder, 5 HP, 3 Phase Motor, 9kgf/cm<sup>2</sup>, 15.6 cfm. 220 ltr. Tank Capacity Air Receiver Or of Better Specification.

**Installation, Commissioning & Training (1 week)**

**Warranty** : 12 months from the date of installation/Commissioning or 15 months from the date of dispatch (whichever is earliest).

**Supplier Criteria: Must be OEM and have supplied to premier institutions**

**General conditions:**

1. The tenderers are required to deposit the tender forms along with relevant papers (mentioned in the form) in sealed cover mentioning technical bid and financial bid separately super-subscribing the tender notice number.
2. The university reserves the right to accept or reject any tender without showing any reason.
3. Documents for providing the previous supply experience in premier technological institutes should be submitted.
4. Tender fee of Rs. 200/- (non refundable) has to be deposited along with the tender papers.
5. All payments should be made through demand drafts in favour of the 'West Bengal University of Technology' payable at Kolkata.
6. The last date of receiving of tender paper is 29<sup>th</sup> March, 2013 at the University.
7. Incomplete tender shall be summarily rejected.
8. Subcontracting in any form will not be entitled by the University.
9. All legal disputes shall be subject to jurisdiction of Calcutta High Court.