

**INDIAN INSTITUTE OF TECHNOLOGY TIRUPATI**  
**RENIGUNTA ROAD TIRUPATI -517506**

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**CORRIGENDUM**

Ref No. (Tender No.) IITT/MECH/08/2017/04

Published on 1 -10-2017

Sub: Setting up of Mechanical Engineering lab and facilities at Transit Campus, IIT Tirupati

The following changes are made to our original tender document based on the pre-bid meeting held on 31-10-2017 at IIT Tirupati.

**A) Commercial terms and conditions:**

<b>In place of</b>	<b>To read as</b>
1. Submission of EMD for an amount of Rs.3,00,000/-	Submission of EMD at 2% of the quoted value
2. Annual turnover for eligible criteria of Rs.1 crore and 2.5 Crores mentioned at para 1	Annual turnover should not be less than 1 crore.
3. Payment of 90% of Order value based on pre inspection of material at suppliers site and against delivery at our site.	90% payment will be made only on receipt of materials at our site and after physical inspection and acceptance.

Note: Specimen of Bank Guarantee for EMD is attached

a) There are some changes made in the specifications of the items and details of which are furnished below.

All other Commercial terms and conditions and specifications of items already mentioned in our original tender document remains same.

In view of the above changes, **the DUE DATE for submission of bids changed** from 15<sup>th</sup> Nov 2017 to **17<sup>th</sup> November 2017, time 3:30 PM.**

**B) Changes to technical specifications**

<b>Item</b>	<b>Location</b>	<b>Description</b>	<b>To be read as</b>
1. 2-Axis CNC Turning Machine		A 2 axis CNC Lathe machine with servo motor, Industrial control panel	A 2 axis CNC Lathe machine with C axis, servo motor and Industrial control panel
	3.1	Bi-directional servo driven tool turret – 12 station	Bi-directional live turret, 12 driven tool stations with straight driven tool holder - 1 No & right angle driven tool holder – 1 No.
	3.3	Maximum boring bar dia – 50 mm	Maximum boring bar dia – 32 mm
	5.1	Quill dia.	Deleted
	5.2	Quill stroke – 100 mm or more	Deleted

	7.9	Basic tools - Turning, Threading (Internal & External), Parting and drilling operation tool holders with 10 number of each operation inserts to be provided, to be quoted separately	To be quoted separately 1. Suitable General Turning & Facing tool holder – 1 No, Inserts – 10 nos. 2. Suitable Profile Turning & Facing tool holder – 1 No, Inserts – 10 nos. 3. Suitable Threading ( Internal & External) tool holder each 1 No, Inserts for each operation– 10 Nos. 4. Suitable Grooving ( Internal & External) tool holder each 1 No, Inserts for each operation– 10 Nos. 5. Boring bar dia 16mm - 1 Nos , Inserts – 10 Nos. 6. Suitable Parting tool holder – 1 No Inserts – 10 Nos. 7. Suitable U drill tool – 1 No , Inserts – 10 Nos. 8. Raw Material dia 100x 150 mm M.S rod – 5 nos.
	7.15	English Manuals 03 Sets in hard copy for operation, programming and maintenance	Deleted, please refer S .No 29
	8.1	The machine should be equipped with CNC control Siemens having flexibility to change the parameters, System suitable to drive 2 axes machine (X,Z), spindle, with 3D control technology	The machine should be equipped with CNC control Siemens having flexibility to change the parameters, System suitable to drive 2 axes machine (X, Z), C axis, spindle, with 3D control technology
	8.7	Feed override 5% to 12%	Feed override 50% to 120%
	13	a) Display: 19" color display in English Language	a) Display: 19" multi touch color display in English Language
		e) Feed override: 150 % (in steps of 10 %)	Deleted
	15	a) Manual pulse generator with axis selector X1, X10, X100 of detachable type	a) Manual pulse generator with axis selector X1, X10, X100 of cable type
	19	Basic Tools - To be quoted separately	Deleted, please refer Sl.No.7.9
	20	Air Pressure	Requirement of air pressure / flow rate to be given for procurement of air compressor by the institute
2. 3-Axis CNC Milling Machine	2 (b)	Cross travel (Y - axis):	<del>550 mm</del> 540 mm
	3 (c)	Distance from table to spindle face:	Deleted

	8(d)	Spindle taper:	<del>BT40/SK40</del> BT40 /SK40/ ISO40
	14	Display: 19" color display in English Language	Display: 19" multi touch color display in English Language
		e) Feed override: 150% (in steps of 10%)	Deleted
	16	Manual pulse generator with axis selector X1, X10, X100 of detachable type	Manual pulse generator with axis selector X1, X10, X100 of cable type
	20	Basic Tools - To be quoted separately	Basic Tools - To be quoted separately
		Face milling cutter dia. 63 mm with holder - 1 No, Suitable insert - 10 nos	Dia 63mm Face mill cutter with 5 cutting edge & suitable holder – 1 No, Inserts – 10 nos
		Shoulder milling cutter dia 40 mm with holder - 1 No, Suitable insert - 10 nos	Dia 40 mm Shoulder Mill cutter with 4 cutting edge & suitable holder – 1 No, Inserts – 10 Nos
		Chamfer tool with holder - 1 No	Dia 16mm Solid carbide Chamfering tool (45 deg) – 1 No & suitable holder with collet – 1 No
		End mill dia 16 mm with holder - 1 No, suitable insert - 10 Nos	Dia 10mm Solid carbide end mill – 3 Nos & suitable holder with collet – 1No Dia 16mm Insert type end mill with 2 cutting edge & suitable holder – 1 No, Inserts – 10 Nos
		Dia. 8.5 mm drill - 1 No	Dia 8.5mm Solid Carbide Drill – 3 Nos & suitable holder with collet – 1 No
		Collet & Collet chuck - 2 Nos each, M 10 Tap - 1 No	M10x1.5 HSS Tap – 3 Nos & suitable collet holder with Tap collet – 1 No
		Suitable pull studs - 4 Nos	Suitable Pull Studs - 8 Nos
			Suitable vice Holding for workpiece size 400x400mm (with holding screws & clamps) – 1 No
			Raw Material : 300x300x150 mm M.S block - 5 nos.
	21	Air Pressure	Requirement of air pressure / flow rate to be given for procurement of air compressor by the institute
3. Wire Cut EDM	A	Machine description and application: The CNC Wire-cut EDM machine is intended for complex profile cutting and thin wall cutting with high aspect ratio on aerospace materials like Titanium alloys, Aluminum alloys, super alloys, High Strength Steels Graphite,	Machine description and application: The CNC Wire-cut EDM machine is intended for complex profile cutting and thin wall cutting with high aspect ratio on aerospace materials like Titanium alloys, Aluminum alloys, super alloys, High Strength Steels Graphite,

		Carbides, CBN, PCD etc. This machine shall have 5 axes simultaneous control for X, Y, U & V Linear Axes and Horizontal rotary axis. The machine shall be equipped with state-of-the-art CNC control system, drives and generator.	Carbides, CBN, PCD etc. This machine shall have 5 axes simultaneous control for X, Y, U & V Linear Axes <del>and Horizontal rotary axis</del> . The machine shall be equipped with state-of-the-art CNC control system, drives and generator.
	B-2	Polymer concrete machine body base	deleted
	B-5	Centralized automatic lubrication system	Centralized <del>automatic</del> lubrication system
	C	V-axis (mm) 00 (Minimum)	V-axis (mm) 90 (Minimum)
	Page No. 29	Wire disposal / cutting System	<del>Chopper type</del> Used wire has to be collected in a bin.
	Page No. 31	Voltage (V)	<del>415±10% AC, 3 phase</del> 3 Ph, 400 ± 5 % AC
4. 3D Printer for Plastics			<p>Following consumables are to be quoted along with the machine.</p> <ol style="list-style-type: none"> <li>1. Extrusion Heads – 3 Nos.</li> <li>2. Modeling Bases/Plates – 1 case</li> <li>3. Cleaning Agent for support removal - 1 case</li> <li>4. Modeling Material – ABS M30, ASA, PLA - 1 Each (Total 3)</li> <li>5. Support Material - 1</li> </ol>