

MSME TOOL ROOM :HYDERABAD
Central Institute of Tool Design
Balanagar, Hyderabad – 500 037
TEL.NO.23772747,23772748, 23776168 FAX No.0-4023772658
E-mail: hyd1_citdhyd@sancharnet.in Visit us:www.citdindia.org.

TENDER SCHEDULE

3D COORDINATE MEASURING MACHINE – 1No.

Ref: : Tender Notice published in
Indian Express,
Indian Trade Journal
Vaartha, Siasat, Hindi Milap

Due date for receipt of
Tenders : 22.09.2009

Opening of Technical bids : 23.09.2009 at 11.00 a.m. at
CITD, Hyderabad

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TECHNICAL SPECIFICATIONS OF 3D COORDINATE MEASURING MACHINE

CITD Specifications	Party's Specifications
Table Size: 1000 x 800mm	
Axis Movement X,Y,Z: 800 x 700 x 600mm approx	
Load on the Table: 700Kgs.	
PH10M Probe Head with TP 200	
Automated qualifications of PH10 orientation	
Easy menu based path programming	
Data Import/ Export facility to standard Cad/Cam Softwares like Pro-E, UG, Catia etc without loss of data, IGES & STEP interface files	
Accuracy with PH10M contact Probe-2um+ L/350 or better	
Machine to be offered with Granite bed and Ceramic cross bridge with Ceramic spindle	
Set of Probes from Ø0.5 to Ø6.0mm and Star probes, Probes Knuckles	
Continuous probing / digitizing	
Statistical Quality Control facility	
Graphical representation of the reports	
Inbuilt ISO tolerances	
Power :- 220V, 50HZ	
Required computer and Printer to be quoted along with machine	
Required UPS to be quoted for back up of 30minutes and required stabilizer to be quoted along with machine	
Required Air Dryer and Air Filters to be quoted	
2sets of all the manuals in English	
Training to be given for 3Engineers for a week	
Installation to be done by the supplier	
Warranty for One Year	
AMC for 2more years to be quoted	
3D CMM is to be suitable to measure mainly: Castings Turbine Blades Injection Moulds	
The offered machine should be compatible for integration of Laser Scanner in future	

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TENDER SCHEDULE

CONVENTIONAL VERTICAL MILLING MACHINE - 5 nos

Ref:	: Tender Notice published in Indian Express, Indian Trade Journal Vaartha, Siasat, Hindi Milap
Due date for receipt of Tenders	: 22.09.2009 at 17.00 hrs.
Opening of Technical bids	: 23.09.2009 at 11.00 a.m. at CITD, Hyderabad

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TECHNICAL SPECIFICATIONS OF CONVENTIONAL VERTICAL MILLING MACHINE

S.No.	CITD Specifications		Party's Specifications
1.	Working Surface	250 x 1200mm/ 300x1300mm	
2.	Longitudinal travel	700 to 900mm	
3.	Cross travel	250 to 300mm	
4.	Vertical travel	400 to 450mm	
5.	Quill travel	Min. 100mm	
6.	Spindle speeds/ No.of speeds	40 to 2000 rpm/ 12 to 18	
7.	No.of feeds- Longitudinal Cross Vertical	12 to 16 12 to 16 12 to 16	
8.	Taper Spindle	ISO40	
9.	Swivelling angle	90° each side	
10.	No. Of T slots	3	
11.	T Slot Size	14/16mm	
12.	Motor with electrical controls	3HP -400 Volts 50Hz 3 phase	

ACCESSORIES FOR CONVENTIONAL VERTICAL MILLING MACHINE

S.No.	CITD Specifications	Party's Specifications
1.	Draw Bar	
2.	Splash guard	
3.	Chip Tray	
4.	Coolant Pump	
5.	Collet Chuck/adaptor ISO - 40	
6.	Collets suitable for above chuck	Ø 4 to 25mm
7.	Swivel base M/c.vise	6"
8.	Universal Dividing head with tail stock and change gear/hole plates	6"
9.	Rotary Table (along with indexing hole plates)	Ø 250 mm
10.	Set of operating & manual & Spare parts manuals(Electrical & Mechanical)	
11.	2 years spare parts	
12.	Anti vibration pads	
13.	Stub Arbour	ISO 40 - Ø 19 and Ø 22mm
14.	Geometrical test certificate for the machine	

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TENDER SCHEDULE

CONVENTIONAL CYLINDRICAL GRINDING MACHINE – 1no.

Ref:	: Tender Notice published in Indian Express, Indian Trade Journal Vaartha, Siasat, Hindi Milap
Due date for receipt of Tenders	: 22.09.2009
Opening of Technical bids	: 23.09.2009 at 11.00 a.m. at CITD, Hyderabad

MSME TOOL ROOM :HYDERABAD

TECHNICAL SPECIFICATIONS OF CONVENTIONAL CYLINDRICAL GRINDING MACHINE

S.No.	CITD Specifications		Party's Specifications
1.	Max. Distance between centres	300mm	
2.	Max. Diameter of Swing	250mm	
3.	Max.Grinding diameter	100mm	
4.	No.of table feeds	4	
5.	Range (feeds/minute)	140/260	
6.	Max. Swivel of Table	$8^{\circ} + 4^{\circ} = 12^{\circ}$	
7.	Wheel Head Grinding Wheel	$\varnothing 304 \times 25.4 \times 127$	
8.	Grinding wheel spindle rpm	2100	
9.	Spindle accuracy(wheel head & work head)	0.005mm	
10.	Swivel of wheel head	$60^{\circ} - 45^{\circ}$	

S.No.	CITD Specifications		Party's Specifications
11.	Max.traverse movement	125mm	
12.	In feed	0.01mm	
13.	Wheel head motor	3 Ø.440V 1440rpm 1.5KW	
14.	Work head no. of speeds/Range	3(80-150)	
15.	Taper in spindle (Work head)	MT3	
16.	Work head Swivel	90°	
17.	Wheel head motor	3 ph.440V 1440 rpm 0.37KW	
18.	Tail Stock spindle taper	MT3	
19.	Quill travel	25mm	
20.	Diameter of hole grinding	15-100mm	
21.	Diameter of grinding wheel	12-40mm	
22.	Spindle speed	18,000rpm	
23.	Electric motor	0.37KW	
24.	Set of operating, maintenance & spare parts manuals(Mech.& Elec)		
25.	Geometrical test certificate for the machine		
26.	2 years spare parts		
27.	Anti vibrations mounting pads		
28.	Standard Equipment:-All electric motor, electric panel box, coolant pump, grinding wheel and wheel flange (1set), dressing attachment, Dead centres(Two). Quill for Internal grinding spindle		
29.	Extra Equipment: Steady rest, additional wheel & flange, wheel balancing stand & Arbour, Radius & angular dressing attachment		
30.	Supplier may separately quote for both Mechanical and Hydraulic type of operation.		

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TENDER SCHEDULE

CONVENTIONAL SURFACE GRINDING MACHINE – 1no.

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TECHNICAL SPECIFICATIONS OF CONVENTIONAL SURFACE GRINDING MACHINE

S.No.	CITD Specifications		Party's Specifications
1.	Table working surface	X-450-500mm Y- 150-200mm	
2.	Table travel-longitudinal (manual & Hydraulic)	475mm	
3.	Table travel -Cross (manual & Hydraulic)	175mm	
4.	Wheel head vertical travel	250 to 300mm	
5.	Size of grinding wheel	Ø 175mm to Ø200mm	
6.	Feed-		
a.	Automatic cross feed per each reversal of stroke	0.1mm to 1.75mm	
b.	Manual (Micro meter feed)	0.0025mm	
c.	Vertical feed manual(micro meter feed)	0.002mm	
7.	Wheel head spindle	Must be provided with precision angular contact ball bearings	
8.	Accuracy	Spindle runout - 0.002mm	
		Job Accuracy- 0.002 to 0.005mm	
9.	Lubrication	Centralized lubrication manual/auto	
10.	Hydraulic	Complete hydraulic system to be provided along with elect. Motor etc	

S.No.	CITD Specifications		Party's Specifications
11.	Electrical	All electrical components such as relays, contacts should be of Siemens/L&T/BCH or equivalent make of ISI approved quality	
12.	Safety equipment	Safety guards to be provided for wheel and tables	
13.	Coolant	Complete coolant system must be provided along with suitable filtering coolant-tank coolant pump etc	
14.	Set of operating, maintenance & spare parts manuals (mech & elec.)		
15.	2 years spare parts		
16.	Anti vibration mounting pads		
17.	Supplier may separately quote for Mechanical and Hydraulic type of operation.		

- Grinding wheel, Wheel flange and flange extractor
- Wheel dressing attachment with diamond point
- Wheel balancing attachment with balancing mandrel
- Geometrical test certificate

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TENDER SCHEDULE

CONVENTIONAL LATHE MACHINE -4nos.

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HYDERABAD 500 037

TECHNICAL SPECIFICATIONS OF CONVENTIONAL LATHE
MACHINE

CITD SPECIFICATIONS			PARTY'S SPECIFICATIONS
1.	Swing Over Bed	325 to 375mm	
2.	Swing Over Cross Slide	200 to 250mm	
3.	Swing Over Gap	500mm	
4.	Distance Between Centres	800 to 1000mm	
5.	Spindle Nose	Cam Lock type	
6.	Spindle Speeds/No.of Speeds	45 to 1800 rpm/16nos	
7.	Taper in Spindle nose	MT 5	
8.	Spindle Bearings	Taper roller/angular contact Ball bearings	
9.	Spindle run out	0.01mm (maximum)	
10.	Head Stock	All Geared	
11.	Feeds-Longitudinal Cross	40 (0.04 to 0.45mm) 40(0.015 to 0.25mm)	

CITD SPECIFICATIONS			PARTY'S SPECIFICATIONS
12.	Threads - Metric Inch	35(0.4 to 7mm) pitch metric 40(4 to 112 T.P.I.)	
13.	Tool Post	4 way/Quick change tool post with Tool Holders	
14.	Tool Size	16 to 20mm	
15.	Taper in Tail Stock	MT-3	
16.	Guide ways	Inverted V & Flat Hardened and ground	
17.	Drive	Fully guarded 'V' Belt (endless)	
18.	Electric Motor	3 HP /3ph 440 Volts 50HZ	
19.	Ele.motor, Starter , belts and pulleys etc required for the machine		
20.	All electrical items	Siemens/L&T/BCH or equivalent make of ISI quality	

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ACCESSORIES /ATTACHEMENTS FOR CONVENTIONAL LATHE MACHINE

S.No.	Specifications	Quantity
1.	Ø 160mm Three Jaw Chuck with mounting ø 160 mm plate (with forward and reverse jaws) suitable to machine supplied	4nos
2.	Ø 200mm Four jaw chuck with mounting plate suitable to machine supplied	4nos
3.	Taper turning attachment (fitted with one of the machine)	1no
4.	Dead center MT3 (Precision)	4nos
5.	Live Centre MT3 (Precision)	4nos
6.	Spindle sleeve MT 5/3 (Precision)	4nos
7.	Key less drill chuck (0-12mm) with MT3 shank (Precision)	6nos
8.	Chip Tray and Splash Guard	Fitted alongwith all the machines
9.	coolant Equipment	
10.	Machine lamp	
11.	Tool Box	
12.	Oil gun/Can	To be supported with every machine
13.	Operation Manual	
14.	Maintenance and spare parts manual	
15.	Test Certificate	
16.	Set of 2years spares	

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TENDER SCHEDULE

DRAWING BOARDS – 50nos

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TECHNICAL SPECIFICATIONS OF DRAWING BOARDS

CITD SPECIFICATIONS	Qty	PARTY's specifications
DRAWING BOARDS FIXED TYPE - 1" Square pipe 1mm thickness tray. Drawing board ply board with laminated sheet and back side painting 16mm thickness)	50nos	

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TENDER SCHEDULE

BOXES FOR TITTING TABLES – 20nos

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TECHNICAL SPECIFICATIONS OF BOXES FOR EXISTING
TABLES

CITD SPECIFICATIONS	Qty	PARTY's specifications
Supply and fixing of 20 gauge CRCs sheet boxes for existing fitting tables Size of box: 24" x 30" x 28" (approx) Each box must contain 8 cabins with locking facility and painted with grey colour on red oxide coating	20nos	

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GENERAL TERMS & CONDITIONS

1. CITD being the premier training institute in Tool Engineering, the supplier should quote competitive prices applicable to all educational institutions.
2. Quotations should be addressed to the Principal Director, Central Institute of Tool Design, Balanagar, Hyderabad 500 037.
3. Late Tenders are liable to be rejected
4. Quotations should be submitted in sealed bids in two separate envelopes Part-I containing documents of proof of being reputed manufacturer and containing technical bids along with earnest money deposit and Part-II containing commercial and price bids in duplicate. These two covers should be sealed individually and both should be put in another sealed cover superscribed with tender No. and date and name of the item. The price bids (Part-II) of the parties whose bids, which are technically meeting the requirements of the Institute will be opened separately. The bidders whose offer meet the technical requirements of the Institute shall be communicated about the date & time of opening of price bids at a later date.
5. Quotations should clearly indicate the minimum time required for effecting supply & the date of delivery should be strictly adhered to. Time is the essence of the contract and the Institute reserves the right to levy liquidated damages @1% of the order value for each week of delay or part thereof subject to a maximum of 5%.
6. Quotations submitted shall be valid for a minimum period of 120 days from the date of opening.
7. The quotations should accompany an interest free EMD prescribed in advertisement by way of crossed Demand Draft obtained from any Nationalized Bank drawn in favour of Central Institute of Tool Design, Hyderabad 37 or cash/equivalent Bank Guarantee. **Quotations without EMD shall not be considered. Firms registered with DGS&D and NSIC or with any Govt. Organisation also need to furnish EMD/BG.** The EMD is liable for forfeiture in case the party fails to execute the order in full part as per the terms and conditions of the order and the Institute may at its option recover all the damages, losses and expenses resulting out of such breach of contract.
8. The Institute reserves the right to alter, cancel, accept, modify vary any terms, quantities, conditions and change the specifications etc., or reject the quotations either fully or partly without assigning any reason therefor.

9. Any order resulting from the enquiry shall be governed by the general terms and conditions of contract of CITD.
10. Where counter terms and conditions of business have been offered, CITD shall not be deemed to be governed by these, and bound by them unless specific written acceptance thereof has been given by CITD.
11. The price must be shown separately for each item, percentage of reduction, if any, in the total price.
12. The Institute reserves the right to increase or decrease the quantity at the time of placing firm order.
13. The Institute reserves the right to reject the material if found substandard and not as per specifications and supplier must make arrangements to replace the same with correct material at the premises of the Institute in case of rejections, immediately within a period of 15days. The party shall bear all costs and expenses involved in such an event.
14. The quotations should clearly indicate the percentage of tax, excise duty, octroi charges and other levies and also furnish the APGST and CST certificate numbers.
15. The Institute will issue "C" form wherever necessary.
16. The income tax at source will be deducted from the bills wherever applicable.
17. Parties are required to submit their sealed quotations superscribing on the left side of the envelope the details of tender notifications, last date and the item for which the tender is submitted.
18. The offers quoted shall be for free delivery of stores at the premises of the Institute. For outstation parties, the supplies must be for door delivery at the premises of the Institute FREIGHT PAID. All goods liable to damage or deterioration in transit must be insured which should be arranged by the suppliers at their own cost.
19. As a policy, the Institute will not make any advance payment or allow documents for negotiation through Bank. However, the bills are normally cleared with 60 days time subject to our inspection and acceptance and also further subject to supplier's compliance of the purchase order conditions fully. However, parties are not entitled to claim any interest for the payments made beyond 60days.
20. Mere participation in the tender and offering of lowest rates does not confer any right on any party for placing order on them.

21. All the disputes arising out of the contract shall be subject to HYDERABAD Jurisdiction only.
22. Parties are required to effect supplies, commission and install the machinery/equipment/items at any place in the State of **Andhra Pradesh** designated by the Institute and extend/maintain warranty/guaranty at such places, Guaranty/Warranty commences from the date of completion of installation/commissioning and Training.
23. For all the matters concerned to and not covered herein above, the decision of Principal Director shall be final and binding on the parties.
24. Besides standard warranty for 12 months from the date of Installation & Commissioning , parties should quote prices separately for additional two years warranty.
25. Parties should give performance Bank Guarantee for the equipment design, material used and for workmanship during the standard warranty period and also for subsequent two years warranty for a value of 10% of the total value.
26. The offers must contain the details of compulsory accessories optional accessories, spares separately and quoted item –wise in the tender.
27. Commissioning./erection charges if any extra should be specifically quoted separately with details of labour charges.
28. The equipment offered shall be strictly conforming to the specification and for complete unit with correct accuracies as per standard dimensions mentioned.
29. CITD will have the option to pre-inspect the machine/equipment at suppliers works by its our own inspector or by third party agency appointed for this purpose. The final inspection will however be carried out at CITD works at Hyderabad.
30. Suppliers must submit their offer alongwith the list of customers (with their full address and their purchase reference number) to whom they have supplied similar machine in the past five years. The date of supply should also be indicated.

MASTER COPIES OF TENDER SCHEDULES