

BUTWAL TECHNICAL INSTITUTE

Butwal-4, Rupandehi

CNC LATHE TECHNICAL SPECIFICATION

S.N.	Particulars of Office's Requirements	Bidder shall state as: Fully Compliant/Partially Compliant/Non Compliant
1. CAPACITY		
	1.1 Swing over bed, dia 480mm	
	1.2 Swing over carriage, dia 260mm	
	1.3 Admit between centres, 350mm	
	1.4 Maximum turning length (with chuck), 275mm	
	1.5 Maximum turning diameter, 200mm	
	1.6 Chuck size, 165mm	
2. TRAVERSE		
	2.1 Cross travel (X Axis), 105mm	
	2.2 Longitudinal travel (Z Axis), 320mm	
3. SPINDLE		
	3.1 Spindle nose type Flat, 140mm	
	3.2 Hole through spindle, 55mm	
	3.3 Max. bar capacity, 45mm	
	3.4 Spindle motor power, AC - Cont./ 15 min., 5.5-7.6kW	
	3.5 Spindle speed, 4500rpm	
4. TURRET		
	4.1 Actuation type; hydraulic	
	4.1.1 Turret clamp type; hydraulic	
	4.2 No. of stations 8 nos	
	4.3 Tool shank size (20*20)mm	
	4.4 Maximum boring bar diameter, 32mm	
	4.5 Indexing system; bi-directional shortest path	
5. TAILSTOCK		
	5.1 Quill dia, 65mm	
	5.2 Quill stroke, 80mm	
	5.3 Quill taper (add-on live centre) type, MT-4	

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6. Electrical power supply		
	6.1 Voltage, AC 415 \pm 10% V	
	6.2 Frequency; 50 \pm 1 hz	
7. ACCURACY		
	7.1 Positioning accuracy - X, Y & Z axes, 0.010mm	
	7.2 Repeatability; \pm 0.003mm	
8. CNC control system		
	8.1 Fanuc	
9. Basic Accessories		
	9.1 8 Station vertically indexing turret	
	9.2 Pitch error and backlash compensation	
	9.3 First fill of oils and lubricants in machine	
	9.4 Graphic Display	
	9.5 Built-in AC for control cubicle	
	9.6 Programmable quill IN-OUT tailstock	
	9.7 Manual pulse generator	
	9.8 Coolant system	
	9.9 One set of general purpose turret tool holders	
	9.10 One set of maintenance tools in a box	
	9.11 One set of machine manuals	
	9.12 165 mm x 3 jaw power operated hollow chuck with hollow cylinder and one set each hard and soft jaws	
	9.13 3D -sensor, Tools for work zero setting and tool length measurement	

Name of Supplier :-

Address :-

Contact No. :-

Date :-

Office Stamp :-

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CNC MILL TECHNICAL SPECIFICATION

S.N.	Particulars of Office's Requirements	Bidder shall state as: Fully Compliant/Partially Compliant/Non Compliant
1. STROKE		
	1.1 Longitudinal - Table - X Axis, 500mm	
	1.2 Cross - Table - Y Axis, 400mm	
	1.3 Vertical - Spindle head - Z Axis. 450mm	
	1.4 Distance from Spindle nose to Table top, (200-650)mm	
2. TABLE		
	2.1 Table working surface, 600*350mm	
	2.2 Distance from floor to Table top, 800mm	
	2.3 T slots size - width x pitch, 14*125mm	
	2.4 No. of T slots, 3	
	2.5 Maximum allowable weight on Table, 250kg	
3. SPINDLE		
	3.1 Spindle Type Belt Driven	
	3.2 Spindle bore Taper, BT 40	
	3.3 Spindle motor power rating AC cont./15 min., 5.5-7.5kW	
	3.4 Spindle max. torque (15 min), 58.7Nm	
	3.5 Spindle speed, 8000rpm	
4. AUTOMATIC TOOL CHANGER		
	4.1 Tool storage capacity nos, 20	
	4.2 Tool shank configuration type, BT 40	
	4.3 Tool selection type Memory, random	
	4.4 Maximum tool diameter, 80mm	
	4.5 Max. tool diameter without adjacent tools, 125mm	
	4.6 Maximum tool length, 350mm	
	4.7 Maximum tool weight, 8kg	

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5.POWER SOURCE	
5.1	Electrical power supply, AC 415 \pm 10 % V
5.2	Frequency, 50 \pm 1 Hz
6. ACCURACY	
6.1	Positioning accuracy - X, Y & Z axes, 0.010mm
6.2	Repeatability, \pm 0.003mm
7.CNC control system	
7.1	Fanuc
8.Basic Accessories	
8.1	Linear motion guideways
8.2	Pitch error and backlash compensation
8.3	Automatic centralized lubrication system
8.4	Slideway covers
8.5	Coolant system
8.6	Total enclosure (top open)
8.7	"T" nuts for table
8.8	Machine light
8.9	Manual pulse generator
8.10	Built-in AC for control cabinets
8.11	Rigid tapping
8.12	Absolute encoder
8.13	20 Nos. BT40 Pull studs (90 degrees)
8.14	One set of maintenance tools
8.15	One set of machine manuals

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