

S.No	Description	Qty
	Horizontal CNC Lathe Machine (Slant Bed)	01 set
A)	Technical specification	
1	Capacity:	
1.1	Swing over bed= 1000 mm approx.	
	Swing over cross slide=650mm approx.	
	Maximum turning dia meter =750mm approx.	
	Maximum turning length=1000mm approx.	
	Distance between centers= 1000mm approx.	
	3-jaws hydraulic chuck diameter =600mm approx.	
1.7	Hydraulic pressure for 3-jaws chuck=variable	
1.8	From 2 bar to 30 bar	
1.9	Bed slant angle =45° / 60°	
	Cross travel (X-axis)=450mm approx. (total)	
	=375mm approx. (above spindle center)	
1.10	=75mm approx. (below spindle center) longitudinal travel (Z-axis) = 1000mm approx.	
2	Main spindle	
2.1	Spindle motor power= 30 kw approx.	
2.2	Spindle speed range=variable from 10 to 1000 rpm approx.	
2.3	Spindle bore=150mm approx	
3	Power Turret:	
3.1	Type=Hydraulic, BMT, disc type, vertical	
3.2	No. of tool stations =12	
3.3	OD tool height=32mm	
3.4	ID boring bar holder =50mm	
4	Motorized Tailstock:	
	Quill bore taper=MT #5	
	Quill diameter =125 mm approx	
	Quill travel range =125 mm approx	
	Quill travel= hydraulic (by foot switch and M codes)	
	Tailstock body travel=power driven by switches on operator panel	
	Hydraulic pressure=adjustable from 2 bar to 30 bar	
5	Accuracy:	
5.1	Positioning accuracy=0.040/1000mm (Z-axis =0.020/450mm (X-axis)	
5.2	Repeatability =0.012mm (Z-axis =0.010mm (X-axis) =0.005mm (tool post)	
6	Electrical power supply for offered machine:	
7	Make	
7.1	Spindle motor, servo motor, X and Z-axis and drives=Fanuc, Japan	
7.2	High precision ball screws=Japan	
7.3	Bearing for spindle and ball screws=Japan	
7.4	Guide ways=Japan	
7.5	Hydraulic chick = Korea	
7.6	Hydraulic elements including oil pump , electric unit and valves=Taiwan	
7.7	Other machine parts=China (European standard)	

8	Machine size:	
8.1	Machine size (Lx W x H)= 4000x2000x2000mm approx.	
8.2	Machine weight=8000 Kg approx.	
9	CNC Controller	
	CNC Controller=Fanuc OiTD, Japan (English display) with all basic functions including all standards G.M.S.T.F codes, manual pulse generator, least input increment =0.001mm, coordinate system setting, reference point return, machine axis lock/unlock, program check functions=dry run, tool path graphic display and single block, linear and circular interpolation, tool offsets, tool nose radius compensation Canned turning cycles =G90, G94 Multiple repetitive cycles =G70, G71, G72, G73, G74, G75. Thread cutting cycle=G32, G92, G76 sub programs, macro programming, inch/metric conversion	
B	Accessories	
1	3-jaws hydraulic self centering hollow chuck, OD=600mm approx.	1 set
2	External and internal hard jaws for above chuck	1 set
3	Soft jaws for above chuck	3 sets
4	External tool clampers for turret	6 sets
5	Boring bar holders for turret	6 sets
6	Sleeves for boring bar holders, OD=50mm, ID=20, 25, 32, 40mm	16 Nos (4 each)
7	Power transformer Input=3 phase/380V/50Hz Output=as per machine requirement	1 set
8	Precision leveling kit for machine	1 set
9	Leveling bolts and blocks	1 set
10	Work light	1 No
11	Hand tool kit	1 set
12	Revolving center for tailstock	1 set
13	Air conditioner for electric cabinet	1 set
14	Manual steady rest (roller fitted), Clamping range=Ø 100-Ø 500mm approx.	1 set
15	Fully enclosed splash guard with sliding doors at front	1 set
16	Auto lubrication system	1 set
17	Hydraulic system	1 set
18	Coolant system	1 set
19	Chips conveyor not required	Nil
C	Spare parts package for 10 years machine operation alongwith unit price of each part	1 set
D	Machine and CNC controller manuals/relevant documents in English hard copy	1 set
E	Pre-shipment Inspection/Training on purchased machine at manufacturer's site by our 02 officials for 10 working days	
F	Please provide original technical brochure of machine along with quotation in English.	
G	Complete information about manufacturer regarding experience, manufacturing standards, accuracy of standard followed and make of each part for offered machine may be provided alongwith quotation	
H	All quoted accessories should be compatible with machine	