

S.No	Description	Qty
01	CNC Lathe Machine (Horizontal) alongwith standard accessories <b>(Make China (European standard))</b>	02 sets
1.1	Capacity. Turning Dia $\phi$ = 600 mm Turning length: 1000mm X-axis travel= + 350mm (above spindle center) X-axis travel= - 40mm (below spindle center) Z-axis travel = 1200 mm Bed slant angle = 30 ° or 45 °	
1.2	NC control Fanuc Oi-TD or equivalent (preferably Fanuc), with all basic functions and macro programming	
1.3	Main spindle Spindle speed = 10-2000Rpm (step less) Spindle motor power = 23/26 kW Spindle bore $\phi$ = 132mm 3 jaw self centering hydraulic chuck ( $\phi$ = 381mm) with adjustable pressure (2 bar to 30 bar) Note spindle motor & axis servo motors should be of fanuc preferably.	
1.4	Turret (Hydraulic or electric) Type = BMT/VDI Tool stations = 12 Nos External tool size = 32 x 32 mm Boring bar holder, I.D= 50mm	
1.5	Tail stock Hydraulically operated quill with live center Quill $\phi$ = 125mm Quill stroke = 125mm Taper = MT # 4 Programmable powered movement	
1.6	Accuracy Positioning = $\pm$ 0.005 mm/300mm Repeatability = $\pm$ 0.003 mm	
1.7	Electric power supply input Machine must be designed according to our power supply input i.e. 3-phase , 380v, 50 Hz (Transformer to be provided if required)	
1.8	Auto lubrication system (installed)	
1.9	Tool presetter (installed)	
2	<b>Accessories</b>	
2.1	15" hydraulic 3-jaw chuck (compatible)	01 No
2.2	20" hydraulic 3-jaw chuck (compatible)	01 No
2.3	Hard jaws for above mentioned chuck	04 sets
2.4	Soft jaws for above mentioned chuck	10 sets
2.5	OD tool clampers for turret	12 sets
2.6	Facing tool holders for turret	12 sets

2.7	Boring bar holders for turret (ID=50mm)	12 sets
2.8	Sleeves for boring bars. OD=50mm, ID=8,10,12,16,20,25,32,40mm	8 each
2.9	Standard working light	2 nos
2.10	Precision leveling plate for turret	2 Nos
2.11	Leveling pads	2 set
2.12	Air conditioner for electrical cabinet (if required)	2 set
2.13	Coolant tank & motor (High pressure)	2 set
2.14	Chips collection moveable tub	2 set
2.15	Tool kit	
3	<b>Additional spares</b>	4 Nos
3.1	Filters for Hydraulic pumps	12 Nos
3.2	Machine lamp	04 each
3.3	Solenoid valves (for chuck, turret, tail stock)	02 sets
3.4	List of essential spares alongwith price	02 sets
4	<b>Documents /Manuals</b>	
	Complete set of machine , Manual/documents and Fanuc control manuals in English (including Operation, Maintenance and parameter manuals, parameter list, electrical diagram, Inspection certificate)	
5	<b>Inspection and training</b>	
	Pre-shipment Inspection and training of three officials for two weeks approx. at manufacturer premises.	
6	<b>Important notes.</b>	
	Complete technical brochure of machine must be provided alongwith quotation	
	Assembly of machine must be performed at manufacturer's site no third party assembly is acceptable	
	Only quotations from manufacturers/principals with 20 years or more experience in CNC lathe machine manufacturing are acceptable.	
	Only quotations from manufacturers/principals which follow following standards (for machine accuracy & repeatability) and acceptable.	
	ISO 230-2 (Europe) or	
	BSI BS4656 part 16 (British) or	
	VDI/DGQ 3441 (German) or	
	JIS B 6336-1986 (Japanese) or	
	ASME B5.54-92 (USA)	
	Note. Complete information about manufacturer regarding experience and manufacturing standards must be provided alongwith quotation	