

TECHNICAL SPECIFICATION OF CNC VERTICAL MACHINING CENTRE		
Sl. No.	DESCRIPTION	TENDER SPECIFICATION
1	Clamping Area	As per the requirement
2	No. of T-slots	Not less than 3 Nos.
3	Maximum load on table	More than 500 Kg
4	Longitudinal movement (X-axis)	Not more 1000 mm
5	Transverse movement (Y-axis)	Not more 600 mm
6	Vertical Movement (Z-axis)	Not more 600 mm
7	Feed rate	Max up to 1000 mm/min
8	Rapid Transverse X/Y/Z	Up to 36 / 36 / 20 mm/min
9	Spindle power(Contd./Intermitent)	Not less than 3.7/5.5 kw
10	Speed	60-8000 rpm
11	Spindle Taper	BT-40
12	Auto Tool Changer:	
12.1	Type of Tool Changer	Arm Type
12.2	No. of Tools	20 Nos.
12.3	Max. tool dia. with adjacent pocket full/empty	75/125 mm
12.4	Max. Tool length	Up to 300 mm
12.5	Maximum Tool Weight	7 Kg.
12.6	Tool changing time	2.5 Sec.
13	Accuracy:	
13.1	Positioning accuracy	±0.01 mm or better
13.2	Repeatability	±0.005 mm or better
14	CNC System:	Simens / Fanuc Oi Mate MD/Siemens 828D
15	Standard features:	
15.1	Stress relieved Casting base & Column	
15.2	Coolant Tank with Chip Tray	
15.3	Air blast for spindle nose cleaning	
15.4	Rigid Taping	
15.5	Manual pulse generator	
15.6	Auto tool clamp-declamp	
15.7	Electronic/Hydraulic Counter balancing for Vertical milling head	
15.8	Brake motor for vertical axis	
15.9	LM Guideways and ball - screws for all three axes	
15.10	Centralised oil lubrication for guide ways and ball screw	
15.11	Metallic covers and telescopic covers for guide way protection	
15.12	Machine lamp	
15.13	Machine Guard	
16	Standard Machines Accessories along with machine:	
16.1	Operation & Maintenance Manuals	
16.2	Maintenance Tool Kit	
16.3	Pull Studs-20 Nos.	
16.4	Coolant gun	
16.5	Vice with swivel base : Jaw width 200 mm, opening 175 mm	
16.6	A.C.Unit for Electrical Cabinet	
16.7	Voltage Stabilizer-10 KVA	
16.8	Clamping Kit	
16.9	Leveling Pads & Screws	
16.10	Air Compressor of suitable capacity to run the machine	
16.11	Air Drayer:	
a)	Type	Refregeration Type
b)	Air Discharge	Min. 10 Cfm@ 10 Kgf Pressure
17	Start up Tool Kit:	
17.1	Dia.50 face milling cutter-1 No.	
17.2	Inserts for above cutter-10 Nos.	
17.3	BT40 facemill adapter-1 Nos.	
17.4	Dia.2,4,6,8 & 10 mm solid carbide endmill-1 No. each	
17.5	Dia.2,4,6,8 & 10 mm Solid carbide drill-1 no each	
17.6	BT40 ER25 collet chuck holder-6 Nos.	
17.7	ER25 spring collet dia.2,4,6,8 & 10-2 no. each.	
17.8	Dia. 2, 4,6, 8 & 10 mm Tap-1 No. each	
18	Optional Accessories:	
18.1	Spares For 2 Years with Details & Price of Individual Spares	