

**TENDER SCHEDULE NO:-S/4**

Bill of Quantities/ Schedule of Requirements for TRADE : "TURNER "

LIST OF Short Fall of MACHINERY

DELEVERY POINT:- ITI CHHOTA JAGULIA, P.O. Chhota Jahulia, P.S. Barasat, Dist. North 24 Parganas, PIN :- 743294

Sl.No.	Description of Item with Specification	QtyRequired	UNIT	RATE (Rs)	TOTAL AMOUNT (Rs)	
					In figures	In words
1	Lathe S.S. & S.C. (All geared head stock) 15 cm center height, to admit 120cm between centers. Machine to be motorized and supplied with coolant installation, 1-jaw Independent chuck 250mm, 3-jaw self centering chuck 150mm, fixed steady, face plate, driving plate, 4-way tool post, quick change gear box for Metric or British threads, live and dead centers with taper attachments.	1 No.	each			
2	Lathe S.S. & S.C. (All geared type) 20 cm center height, 120cm between centers, gap bed machine to be motorized and supplied with coolant installation, 4-jaw Independent chuck 300mm, 3-jaw self centering chuck 200mm, fixed steady, face plate, driving plate, 4-way tool post, quick change gear box for Metric or British threads, live and dead centers with taper attachments.	1 Nos.	each			
3	Lathe tool room S.S. & S.C. (All geared type) 15cm center height, 120cm between centers. Machine to be motorized and supplied with coolant installation, 1-jaw Independent chuck 250mm, 3-jaw self centering chuck 150mm, fixed steady, traveling steady, face plate, driving plate, 1-way tool post, draw in type collets set upto 25mm, 0.5mm, relieving attachments.	1 No.	each			
4	Lathe S.S. & S.C. (Cone pulley type) 15cm height 90 cm between centers. Machine to be motorized 4-jaw Independent chuck 250mm, 3-jaw self centering chuck, 150mm single tool post.	1 No.	each			
5	Grinding machine pedestal type D.E. 150mm dia. Wheel with wheel guard and vision	1 No.	each			
6	Grinding machine pedestal type E.E. 150mm dia. Wheel with wheel and vision guard	1 No.	each			
7	Drill machine pillar type - motorized up to 12mm Capacity.	1 No.	each			
8	Power saw machine - hydraulic feed system - 400mm Blade size.	1 No.	each			
9	Capstan Lathe 250mm sawing, 25mm spindle bore with all accessories and attachment including collect chucks and sets.	1 No.	each			

10	<p>CNC Lathe  Specifications.  Chuck Dia 250mm.  Max. Turning Dia 300mm.  Max. Turning Length 1000mm.  Turrete (BTP/80) 8Station.  Tool Shank 25 X 25 mm.  Spindle Power 7.50 / 11 Kw.  Spindle Speed 50 - 3000 RPM.  Spindle Nose A2-6.  Rapid 24m/ min.  Positioning Accuracy 0.008 mm.  Repeatability +- 0.003 mm.  CNC Package Fanuc 0i Mate TC.  Machine Weight (Approx) 4000 KG.  <b>Standard Accessories:</b> AC Spindle Drive, Hydraulic chuck with cylinder,  Centralised Lubrication system, coolant system,  Linear motion guideways, Boring bar holder,  8 stat Bi - Directional Traverse, Facing tool holder.  <b>Standard Instruction :</b> Installation at site including electrical installation from  Existing power point to stabilizer and stabilizer to machine. Operational training to  the instructor.</p>	1 No.	each			
11	CNC Training Tools assorted	1 Set	Set			
12	CNC Boring tools assorted	1 Set	Set			
13	CNC Grooving tools (External & Internal)	1 Set	Set			
14	VCP	1 No.	each			
15	Color TV monitor	1 No.	each			
16	Related Video & Audio Cassette Electronic Vernier Caliper inch & mm 8"/200 mm. LCM 0.005"/0.001 mm	2 Nos.	each			
17	Dig metric electronic outside Micrometer (0 to 25 mm & 25 to 50 mm) LC 0.001 mm	1 No.	each			
18	<b>CNC Trainer Drilling (Fanuc/ Siemens CNC System)</b>	1 No.	each			
	Drilling Capacity : In Aluminium : 12mm, In Cast Iron : 8mm.					
	Table Size : Approximate 500 mm X 200 mm.					

	Travel : X Axis : 250 mm, Y Axis : 180 mm.					
	Feed Rate : 0 - 2000 mm / min.					
	Rapid Feed : 5000 mm / min.					
	Z Axis Spindle (or) quill Travel : 250 mm.					
	Distance Between Spindle face and table ( Manually adjustable and locked) : 20 - 270 mm.					
	Spindle Speed infinitely variable : 50 -2800 RPM.					
	Spindle Motor : 1.0 KW (1.2 HP ).					
	Axes Servo Motor : X : 1.27 Nm, 400w, Y : 1.27 Nm, 400w, Z : 5 Nm, 400w.					
	1)Machine Vice 100mm with Opening . : 1 No.					
	2) RD 20 collet chuck ( Built in with motorized spindle) : 1 No.					
	3) Collets dia 3,4,5,6,8,10 & 12mm. : 1 No each.					
	4) Centre Drill dia 1.2 X shank dia 8mm. : 1 No.					
	5) Twist Drill dia 3,4,5,6,8,10 & 12mm. : 1 No each.					
	6) Suitable Stabiliser 3 KVA of single phase : 1 No.					
	7) Coolant Tank with Coolant Motor. : 1 No.					
19	<b>CNC Milling</b> TABLE SIZE: Clamping Surface 900 mm X520 mm. T-slots (No. X Size X Pitch) 5 x 18 x 100. WORKING RANGE: Longitudinal table travel (X Axis) 650mm. Cross table travel (Y-Axis) 520 mm. Head Stock travel (Z-Axis) 560 mm. Spindle Nose to table top (min - max.) 120-680 mm. Spindle center to column front 550 mm. SPINDLE: Type Cartridge Nose Taper BT40. Power 5.5 KW Continuous. & 7.5 KW 15 minutes. Speed 40-8000 RPM. AUTOMATIC TOOL CHANGER Tool storage capacity 24. Type of tool change Twin arm. Type of pull stud. Din 69872.	1 No.	each			

<p>Max tool diameter 80 mm.  Max tool weight 7 Kgs.  CONTROLLER:  CNC System Fanuc / Siemens.  AXIS DRIVE:  Rapid Travers (X / Y / Z) 30/30/20 m/min.  Feed Rate 1-10000 mm / min.  ACCURACY:  Positioning 0.008 mm.  Repeatibility +-0.003 mm.  <b>Standard Accessories</b> : Fanuc / Siemens CNC system, AC main spindle motor, Colent system, Lubrication system, Automatic tool changer, Electric cabinet with AC Unit.  <b>Standard Instruction</b> : Installation at site including electrical installation from Existing power point to stabilizer and stabilizer to machine. Operational training to the instructor.</p>					
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We agree to supply the above goods in accordance with the technical specification as per terms and conditions specified in Tender Notice.  
We also confirm that the normal commercial Warrantee/Gurantee of 12 months shall apply to all the offered goods.  
We also confirm that we have taken steps to ensure that no person acting for us or on our behalf will engage in corrupt, fraudulent, collusive, coercive or obstructive practice.  
We agree to make necessary arrangements for Inspection and Testing of all the above items at places within Kolkata Metropolitan area before dispatch to the consignee.

Signature of Supplier.