

MAHARAJA RANJIT SINGH PUNJAB TECHNICAL UNIVERSITY, BATHINDA

Purchase of Machines for Workshop at PIT Rajpura

Sr. No.	Description of Item	Qty.	Unit
1	Pillar type Drilling machine Drilling Capacity:- 25 mm Distance between spindle and upright 355mm No. of spindle speed 12 (32-1400 rpm) No. of power feed 9 (0.11-1.73 mm/rev.) Power of main motor 5hp Power of elevating motor 1hp Table :- Working surface 500x630 mm, Maximum Distance between spindle and table 750 mm	1	No.
2	Cut off Machine (Portable Disc type) Power input 220/230V-50/60Hz-2400W Load Speed 3800 rpm/min Cutting disc Dia 355mm	2	Nos.
3	Sheet Cutting M/C Foot Operated 48" Blade	1	No.
4	Mech. Operated Press 5 T. Capacity with die set of washer	1	No.
5	Sheet Bending M/C Hand Operated 48" Blade	1	No.
6	Hand Press Pillar Type with die set of round punch	1	No.
7	Sheet Bending Roller	1	No.
8	Bench Drill Machine Capacity 12mm with all standard accessories including vice, sleeves etc	2	Nos.
9	Pedestal Grinder with wheel size 250x25x31.75 mm, power motor 1HP 415 v, AC three phase, 2500 RPM minimum	3	Nos.
10	Circular saw machine : Blade dia. 200mm Low speed 4700rpm	1	No.
11	Jigsaw: Cutting depth 20mm, Power input 720 w, 500-2800rpm	1	No.
12	Multipurpose machine Top table L x W 1600 x 260mm Side patam table L x W 605 x 212mm Speed of 4 cutting bade 4000rpm. Electric motor 2hp 1440rpm. Bandsaw blade length 3900mm	1	No.
13	Hand Operated Coil Winding M/C	2	Nos.
14	Plate form weighting digital m/c 100kg	1	No.
15	Sand riddle electrical operated m/c	1	No.
16	Sand Muller capacity 50kg	1	No.
17	Bench Grinder, 1 HP 230V, 2800 RPM	1	No.
18	Sensitive drilling machine – capacity 12mm Motorized- with drill chunk and key etc.	1	No.
19	Power hacksaw machine to accommodate 21" or more length blade.	1	No.
20	SS and SC centre lathe (all geared) with minimum specification as: Centre height 150mm and centre distance 1500 mm along with 3& 4 jaw chunk, auto feed system , safety guard, taper turning attachment, motorized coolant system, lighting arrangement & standard accessories	4	sets
21	Shearing machine (lever type) hand operated complete with 300 blade length	1	No.

22	<p><u>Universal Milling Machine</u> Longitudinal traverse 700-800mm Cross traverse 300-400mm Vertical traverse 200-350mm Swivel of table on either side 45° Speed range rpm 30 to 1800 with universal dividing head , circular table , long arbors , slab arbor , slotting attachment , vertical indexing head , etc .</p>	1	No.
23	<p>Horizontal and Vertical milling machine Vertical</p>	1	No. each
	<p>Horizontal Table Length x width 1350x310mm Longitudinal traverse 700 – 800mm Cross traverse 200 – 265mm Vertical traverse 300 – 400mm Speed range rpm 20 to 1800</p>	1	No. each
24	<p><u>Tool and Cutter Grinder</u> Largest diameter of cutter that can be ground 10-100mm Max. admit between centers 230mm Max. length of cutting edges ground 120mm With standard equipment like adaptor bushes, cutter head holder assembly, adaptors, extension spindle, flanges fro grinding wheel etc.</p>	1	No. each
25	<p><u>Universal cylindrical Grinding Machine</u> Max. dia ground (effective) 250mm Max. grinding length 300mm Height of centre 130mm Max. distance between centers 340mm With special accessories like face plate, steady, radius and face dressers, find hand feed attachment etc.</p>	1	No.
26	Rock well hardness testing machine with standard accessories	1	No.
27	Hydraulic press 16T with all safety measures	1	No.
28	<p>Surface Grinding Hydraulic Working Surface of Table 500 x 225 Max. Table Travel 525 x 250 Magnet Chuck Suitable 200 x 450 Max. Distance Centre of Spindle to Table 375 Vertical Down Feed on Hand Wheel 0.01 MICROFEED (Elevation) 0.002 / 1Div Wheel Speed 2800 RPM Table Speed 5-20 m/min.</p>	1	No.
29	<p>Surface Grinding Mechanical (Mannual) Working Surface of Grinding Area 225 x 350 mm Max. Magnetic Table Travel L x B 250 x 360 mm Max. Grd. Height Under Wheel 240mm Vertical Feed Graduation 0.01 mm Cross Feed Graduation 0.05 mm Spindle Speed 2800 RPM</p>	1	No.
30	<p>Ram Turret/ M1TR Milling Machine Table size of Vertical Drive Milling Machine 220 x 975 Longitudinal Travel Manual 535 Vertical Travel 345 Cross Travel 245 Power Feed 520 Ram Travel 250</p>	1	No.