

MAHARAJA RANJIT SINGH PUNJAB TECHNICAL UNIVERSITY, BATHINDA**Purchase of Hand Tools for Workshop at PIT, Rajpura**

Sr. No.	Description of Item	Qty.	Unit
1	Steel scale 12"	72	Nos.
2	Vernier caliper 150mm	10	Nos.
3	Outside micro metre (0-25mm)	2	Nos.
4	Outside micro metre (25-50mm)	2	Nos.
5	Outside caliper (Spring type) 6"	15	Nos.
6	In side caliper (Spring Type) 6"	15	Nos.
7	Surface gauge 12"	3	Nos.
8	Try Square 6"	72	Nos.
9	Flat file 12" (smooth)	72	Nos.
10	Flat file 12" (Bastard)	72	Nos.
11	Flat File 8" (Smooth)	72	Nos.
12	Flat file 8" (Bastard)	72	Nos.
13	Triangular file 8" (Smooth)	72	Nos.
14	Half Round file 10" (Smooth)	72	Nos.
15	Round File 8" (Bastard)	72	Nos.
16	Centre Punch 6"	24	Nos.
17	Ball peen Hammer (500 gm)	72	Nos.
18	Knurling Tool	5	Nos.
19	Dot Punch 6"	72	Nos.
20	Spanner Set (6-32mm) double ended	2	Set
21	Ring Spanner Set (6 to 32mm)	2	Set
22	Adjustable Wrench 10"	2	Nos.
23	Combination Plier 8"	16	Nos.
24	Flat Chisel 6"	72	Nos.
25	Tap Set (6mm to 12 mm)	6	Set each
26	Tap Handle (1/2")	6	Nos.
27	Flexible Measuring steel Tape 5 mtr	23	Nos.
28	Parallel Shank Drill bit (3mm to 12mm)	6	Nos.
29	Taper Shank Drill Bit (13mm to 25 mm)	3	Nos.
30	Diamond Dresser (1mm)	4	Nos.
31	Screw Driver 10"	17	Nos.
32	Boring Bar 6"	10	Nos.
33	Left hand side Carbide Tip Tool (1")	4	Nos.
34	Right hand side Carbide Tip Tool (1")	4	Nos.
35	HSS. Tool Bits (3/8")	50	Nos.
36	HSS. Tool Bits 1/2"	50	Nos.
37	Centre Drill 2mm	6	Nos.
38	Centre Drill 5mm	6	Nos.
39	Nylon Hammer	6	Nos.
40	Hand Hacksaw Frame 12"	72	Nos.
41	Oil Cane	6	Nos.
42	Allen Key Set (1mm to 12mm)	2	Sets

43	Welding screen helmet type with glass	6	Nos.
44	Hand type screen with glass	10	Nos.
45	Gas welding goggles	15	Nos.
46	Safety goggles	15	Nos.
47	Flat File bastard 10"	25	Nos.
48	Flat File smooth 10"	25	Nos.
49	Bench vice 6"	60	Nos.
50	Hand gloves	15	Pair
51	Chipping Hammer	10	Nos.
52	Letter punch A to Z	2	Sets
53	Number Punch 1 to 9	2	Sets
54	Hand Operated Sheet Shearing M/C 14"	1	No.
55	Scriber 6"	20	Nos.
56	Steel Rule 24"	2	Nos.
57	Snips Bend 12"	5	Nos.
58	Snips Straight 12"	10	Nos.
59	Snips Straight 10"	5	Nos.
60	Mallet Wooden 2" dia.	15	Nos.
61	Standard Wire Gauge	5	Nos.
62	Engg. Right Angle 12"	2	Nos.
63	Hollow Punch 6 mm	2	Nos.
64	Hollow Punch 10 mm	2	Nos.
65	Hollow Punch 16 mm	2	Nos.
66	Hand Rivet Machine	2	Nos.
67	Wedge Shaped Plastic Mallet 2"	5	Nos.
68	Bench Vice 4"	5	Nos.
69	Rubber Hammer 2" Dia.	5	Nos.
70	Pipe Vice 4"	1	No.
71	Railway Line Edge Piece 2'	3	Nos.
72	Nylon Hammer	2	Nos.
73	Hatchet Stake	2	Nos.
74	Bick Iron Stake	2	Nos.
75	Half Moon Stake	2	Nos.
76	Creasing Iron Stake	2	Nos.
77	Bench Mandrel Complete With Strap Clamps	4	Nos.
78	G.D. Drill Stand	1	No.
79	Riveting Hammer 250 gm.	10	Nos.
80	Hand Riveter Lazy Tong Type	2	Nos.
81	Triangular File Bastard 8"	10	Nos.
82	Dividers 6"	5	Nos.
83	Half Round File Bastard 6"	10	Nos.
84	Knife Edge File Bastard 6"	10	Nos.
85	Vernier Height Gauge 0-200mm (mitutoyo)	1	No.
86	Plastic Handle (File)	300	Nos.
87	Flat File Smooth 6"	10	Nos.

88	Bevel Square 6"	15	Nos.
89	Combination Set 12"	1	Set
90	Hammer Ball Peen 200gm	40	Nos.
91	Hammer Cross Peen 200gm	10	Nos.
92	Angle Plate 200*150*125	1	No.
93	Odd leg Caliper 6"Spring Type	10	Nos.
94	Digital caliper 150mm	1	No.
95	Flat Cold Chisel 8"	15	Nos.
96	Knife edge file Smooth 6"	10	Nos.
97	Square File Bastard 6"	10	Nos.
98	Round file smooth 10"	10	Nos.
99	Triangular file Smooth 6"	10	Nos.
100	Hammers:		
	1.Double Flat end hammer 2kg	10	Nos.
	2.Cross Peen hammers 1kg	10	Nos.
	3. Double Flat end Sledge hammers 5kg	3	Nos.
101	Tongs:- Flat Mouth Tongs	10	Nos.
	Round Mouth Tongs	20	Nos.
	Square Mouth Tongs	10	Nos.
	Pickup Tongs	10	Nos.
102	Flaters:-		
	25mm	15	Nos.
	50mm	15	Nos.
	75mm	5	Nos.
103	Fuller Set:-		
	Top Fuller & Bottom Fuller 12mm	5	Nos.
104	Swage Set:-	5	Nos.
	Top & Bottom 12mm		
105	Spoke Shave plane 2"	1	No.
106	Marking gauge 2"	10	Nos.
107	Plough plane 2"	1	No.
108	Rip saw 18"	12	Nos.
109	Key hole saw 8"	12	Nos.
110	Hand saw teeth setting (saw set plier) 6"	1	No.
111	Mortise Chisel (with handle): 8mm	10	Nos.
	10mm	10	Nos.
	12mm	10	Nos.
	16mm	10	Nos.
112	Edge ½"	5	Nos.
113	Firmer Chisel ½"	12	Nos.
	3/8"	12	Nos.
	1"	12	Nos.
	1-1/2"	12	Nos.
114	Flat file rasp cut 10"	12	Nos.
115	Oil stone Standard size	5	Nos.

116	Jack plane steel body 14"x 2"	12	Nos.
117	Smoothing plane 9"x 2"	12	Nos.
118	Carpentry vice 6"	12	Nos.
119	Rabbet plane standard size	1	No.
120	Molding plane standard size	1	No.
121	Tenon saw 12"	12	Nos.
122	Rasp cut h/r file 10"	12	Nos.
123	Triangular file 6" (Takora)	20	Nos.
124	Electric planner (Eastman)	1	No.
125	Screw driver 12"	3	Nos.
126	Firmer Chisel ½"	15	Nos.
127	Flat File Smooth 8"	15	Nos.
128	Screw Driver 6"	15	Nos.
129	Wire Stripper and Cutter	5	Nos.
130	Hand drill M/c ¼"	5	Nos.
131	Line Tester	15	Nos.
132	Hand saw small	15	Nos.
133	Multimeter (Pointer type)	5	Nos.
134	Volt Meter (0-300v)	2	Nos.
135	Amp. Meter (0-30Amp.)	2	Nos.
136	Soldering iron 65Watt	2	Nos.
137	Soldering iron 35Watt	10	Nos.
138	Pocker	10	Nos.
139	Single Phase Energy Meter 5Amp to 10Amp	2	Nos.
140	Crow Bar	2	Nos.
141	Hand Bellow	2	Nos.
142	Wheel Barrow	1	No.
143	Tool box with 29 tools	10	Sets
144	Try pole 3 pipe 20' each	1	Set
145	Ladle 15 pound	2	Nos.
146	Ladle 20 pound	1	No.
147	Round file bastard 12'	5	Nos.
148	Shovel	4	Nos.
149	Khurpa	2	Nos.
150	Spade (Kahi)	2	Nos.
151	Standard sand sleeve 12"	6	Nos.
152	Moulding box with pins	10	Sets
153	Crucible Handle 200kg	1	No.
154	Lifting Tong	1	No.
155	Try Square 6" With Graduation	10	Nos.
156	Parallel blocks 6"x2"x1/2"	1	Set
157	Parallel Block 8"x2"x1/2"	1	Set
158	Centre gauge 55degree and 60degree	3	Nos.
159	Needle file assorted (12 nos.)150mm	6	Nos.
160	Scraper flat 250mm	6	Nos.

161	Chisel cross cut 10 x 3 x 200mm	6	Nos.
162	Chisel half round 10 x 250mm	6	Nos.
163	Chisel diamond point 10 x 200mm	6	Nos.
164	Scribing block universal 300mm	6	Nos.
165	Cast iron surface plate 600 x 600mm	1	No.
166	Tape extractor 3mm to 12mm x 1.5mm (ezzy out)	1	Set
167	Screw extractor sizes 1to 8	1	Set
168	Taps and dies metric 5mm to 12 mm complete set in a box	4	Sets
169	Twist drill with St. Shank \varnothing 5 \varnothing 12 mm in steps of 0.5 mm	4	Sets
170	Twist drill with St. Shank \varnothing 8 \varnothing 12 mm in steps of 1 mm	4	Sets
171	Taper shank drills \varnothing 6 \varnothing 20 mm in steps of 1 mm	2	Sets
172	D.E spanners 3-4, 6-8, 10-12, 13-14, 15-16, 18-19, 20-22, 24-26 (8 spanners)	4	Sets
173	Allen key metric 3 to 12 mm set	2	Sets
174	Centre drills 3,4,5mm	6	Each
175	Parallel hand reamer 6mm to 12 mm in steps of 1 mm	2	Sets
176	Star dresser	4	Nos.
177	Diamond dresser with holder	4	Nos.
178	Safety goggles (personal protective equipment)	6	Nos.
179	Demagnetizer	2	Nos.
180	Steel lockers for 31 trainees (pigeon cup board)	2	Nos.
181	Steel cupboard 180 cm x 60cm x 45 cm	6	Nos.
182	Metal rack 180 cm x 60cm x 45 cm	2	Nos.
183	Fire extinguisher	2	Nos.
184	Fire buckets with stand	4	Nos.
185	Filler gauge 0.05mm to 0.3 mm by 0.05 and 0.4mm to 1 mm by 0.1 mm (13 leaves)	2	Sets
186	Metric screw pitch gauge –Range 0.4 – 6 mm pitch 60°(21 leaves)	2	Sets
187	Radius gauge 1-3 mm by 0.25 mm and 3.5- 7mm by 0.5 mm (34 leaves)	2	Nos.
188	Dial vernier caliper 0- 200mm, with 0.02mm least count	4	Nos.
189	Vernier calliper- range 300mm vernier scale 0.02mm	3	Nos.
190	Vernier bevel protractor blade range 150 and 300 mm , dial 1°, least count 5'(min) with head , acute angle attachment	2	Nos.
191	Outside micrometer 50-75mm, with 0.01mm least count	1	No.
192	Combination square sets- 300mm blade with square head , centre head , protractor head	1	No.
193	Telescope gauge range 8 -150mm (6pcs/ set)	1	No.
194	Sine bar 150 mm with stopper plate	1	No.
195	Sine table 200 mm length with magnetic bed	1	No.
196	Slip gauge box (workshop grade) -87 pieces per set	1	No.
197	Gauge block accessories consisting holder , half round jaws , scriber point , centre point , triangular straight (14pcs/set)	1	No.
198	Central square – Size400x 250mm blade	2	Nos.
199	V- block- Approx 32 x 32 x 41mm with clamping capacity of 25mm with clamps	2	Pairs
200	V- block- Approx 65 x 65 x 80mm with clamping capacity of 50 mm with clamps	2	Pairs
201	Magnetic V- Block 100 x 100 x125mm	2	Pairs

202	Angle plate 150 x 150 x 200mm	1	No.
203	Angle plate – adjustable 250 x 250 x 300mm	1	No.
204	Inside micrometer – Range 50- 75 mm std extension rods up to 200mm	1	Set
205	Depth micrometer – Range 0-25mm , accuracy 0.01 mm with std set of extension rods	1	Set
206	Magnetic stand with magnetic base 60x 47.5mm and with universal swivel clamp , dial holding rod (150mm) scriber	2	Nos.
207	Dial test indicator - lever type – range 0-0.8mm-Graduation 0.01 mm , Reading 0-100 with revolution counter	2	Nos.
208	Dial test indicator - Plunger type – range 0-10mm, Graduation 0.01 mm , Reading 0-100 with revolution counter	2	Nos.
209	Bore gauge with dial indicator (1mm range , 0-0.01mm graduation)-Range of bore gauge 18-150mm	2	Nos.
210	Straight edge –Single beveled –Size 150mm and 250mm	2	Each
211	Tool makers clamp 50mm & 75mm	4	No.Each
212	C-clamp- 50mm & 75 mm	5	No.Each
213	Side and face milling cutter Θ 100 x 10 x Θ 27mm	6	Nos.
214	Side and face cutter Θ 80 x 10 x Θ 27 mm	6	Nos.
215	Cylindrical milling cutter Θ 63 x 70 x Θ 27mm	6	Nos.
216	Slitting Saw cutter Θ 75 x 3 x Θ 27mm	3	Nos.
217	Slitting Saw cutter Θ 100 x 6 x Θ 27mm	3	Nos.
218	Slitting angle cutter Θ 75 x 16 x Θ 27mm - 60°	4	Nos.
219	Slitting angle cutter Θ 75 x 20 x Θ 27mm - 45°	4	Nos.
220	Equal angle cutter Θ 75 x 20 x Θ 27mm - 90°	6	Nos.
221	Shell End Mill Θ 50 x 36 x Θ 22 (preferably inserted tip type)	10	Nos.
222	Shell End Mill Θ 75 x 50 x Θ 22 (preferably inserted tip type)	10	Nos.
223	Parallel shank end mills Θ 6 , Θ 10 and Θ 16 are (double fluted) , Θ 20mm & Θ 25 mm (four fluted)	15	Nos. Each
224	‘T’ slot cutter with parallel shank – Θ 17.5 x 8 mm width x dia. of shank 8 mm	3	Nos.
225	Concave Milling cutter Θ 63 x 6 radius x Θ 27 mm	3	Nos.
226	Convex Milling cutter Θ 63 x 6 radius x Θ 27mm	3	Nos.
227	Disc type form milling cutter (involutes form -2 modules, 20° pressure angle)	3	Nos.
228	Tool holder (straight) to suit 6 , 8 mm sq. bit size	3	Nos. Each
229	Parting tool holder to suit 3 and 4 mm thick tool blade	3	Nos.
230	Boring bars with holders to accommodate 4 , 6 and 8 mm HSS tool bits	6	Nos. Each
231	Knurling tool (straight & diamond)	4	Nos. Each

Note: The supplier should have supply minimum 90% material of the total requirement.