

LIST OF TOOLS & EQUIPMENTS

Name of the trade:- WELDER					
No. of units in 1st shift : 1 unit		in 2nd shift : 1 unit			
in 3rd shift : 1 unit					
Total Units : 3 unit					
Sl. No.	Name of the General Machinery and Installation	Number required for one unit as per NCVT norms / syllabus	Total number of equipment required for the total units affiliated	Total number actually available for all the units	Indicate shortage if any
1	2	3	4	5	6
1	Leather hand Gloves 14"	17 pair	17 pair	17 pair	NIL
2	Cotton hand Gloves 8"	17 pair	17 pair	17 pair	NIL
3	Leather Apron leather	17	17	17	NIL
4	S.S wire brush 5 rows and 3 rows	17	17	17	NIL
5	Leather hand sleeves 16"	17 pairs	17 pairs	17 pairs	NIL
6	Safety boots for welders	17 pairs	17 pairs	17 pairs	NIL
7	Leg guards leather	17 pairs	17 pairs	17 pairs	NIL
8	Rubber hose clips ½"	20	20	20	NIL
9	Rubber hose oxygen 8 mm dia X 10 Mts long as per BIS	2	2	2	NIL
10	Rubber hose acetylene 8 mm dia X 10 Mts long as per BIS	2	2	2	NIL
11	Arc welding cables multi cored copper 400/600 amp as per BIS	45 mtr.	45 mtr.	45 mtr.	NIL
12	Arc welding single coloured glasses 108mmX82mmX3mm. DIN 11A & 12A	34	34	34	NIL
13	Arc welding plain glass 108 mm x 82 mm x 3 mm.	68	68	68	NIL
14	Gas welding Goggles with colour glass 3 or 4A DIN	34	34	34	NIL
15	Safety goggles plain	34	34	34	NIL
16	Spark lighter	6	6	6	NIL
17	AG 4 Grinding wheels	10	10	10	NIL
1	Welding helmet fiber	17	51	51	NIL

2	welding hand shield fiber	17	51	51	NIL
3	Chipping hammer with metal handle 250 Grams	17	51	51	NIL
4	Chisel cold flat 19mm x 150mm	17	51	51	NIL
5	Centre punch 9 mm x 127 mm	17	51	51	NIL
6	Dividers 200 mm	17	51	51	NIL
7	Stainless steel rule 300 mm	17	51	51	NIL
8	Scriber 150 mm double point	17	51	51	NIL
9	Flat Tongs 350mm long	17	51	51	NIL
10	Hack saw frame fixed 300 mm	17	51	51	NIL
11	File half round 300 mm bastard	17	51	51	NIL
12	File flat 350 mm bastard	17	51	51	NIL
13	Hammer ball pane 1 kg with handle	17	51	51	NIL
14	Tip Cleaner	17	51	51	NIL
15	Try square 6"	17	51	51	NIL
16	Spindle key	4	4	4	NIL
17	Screw Driver 30 mm blade and 250 mm blade	1	1	1	NIL
18	Number punch 6 mm	2	2	2	NIL
19	Letter punch 6 mm	2	2	2	NIL
20	Magnifying glass 100 mm dia.	2	2	2	NIL
21	Universal weld measuring gauge	2	2	2	NIL
22	Earth clamp 600A	6	6	6	NIL
23	Spanner D.E. 6 mm to 32 mm	2	2	2	NIL
24	C-Clamps 10 cm and 15 cm	2	2	2	NIL
25	Hammer sledge double faced 4 kg	1	1	1	NIL
26	S.S. tape 5 meters flexible in case	1	1	1	NIL
27	Electrode holder 600 amps	6	6	6	NIL
28	H.P. Welding torch with 5 nozzles	2	2	2	NIL
29	Oxygen Gas pressure regulator double stage	2	2	2	NIL
30	Acetylene Gas Pressure regulator double stage	2	2	2	NIL

31	CO ₂ Gas pressure regulator, with flow meter	2	2	2	NIL
32	Argon Gas pressure regulator, with flow meter	2	2	2	NIL
33	Metal rack 182 cm X 152 cm X 45 cm	1	1	1	NIL
34	First Aid Box	1	1	1	NIL
35	Steel lockers with 8 Pigeon holes	2	2	2	NIL
36	Steel Almirah/cupboard	2	2	2	NIL
37	Black Board and easel with stand	1	1	1	NIL
38	Flash back arrester (torch mounted)	4 pairs	4 pairs	4 pairs	NIL
39	Flash back arrester (Cylinder mounted)	4 pairs	4 pairs	4 pairs	NIL
40	Welding Transformer with all accessories (400A , OCV 60 – 100 V, 60% duty cycle)	1	1	1	NIL
41	Welding Transformer with all accessories (300A , OCV 60 – 100 V, 60% duty cycle)	1	1	1	NIL
42	D.C Arc welding rectifiers set with all accessories (400 A. OCV 60 – 100 V, 60% duty cycle)	1	1	1	NIL
43	GMAW welding machine 400A capacity with air cooled torch, Regulator, Gas preheater, Gas hose and standard accessories	1	1	1	NIL
44	AC/DC GTAW welding machine with water cooled torch 300A, Argon regulator, Gas hose water circulating system and standard accessories.	1	1	1	NIL
45	Air Plasma cutting equipment with all accessories, capacity to cut 12 mm clear cut	1	1	0	1
46	Air compressor suitable for above air plasma cutting system	1	1	0	1
47	Auto Darkening Welding Helmet	2	2	0	2

48	Spot Welding machine to 15 KVA with all accessories	1	1	0	1
49	Portable Gas cutting machine capable of cutting straight & Circular with all accessories	1	1	0	1
50	Pedestal grinder fitted with coarse and medium grain size grinding wheels dia. 300 mm	1	1	1	NIL
51	Bench Grinder fitted with fine grain size silicon carbide green grinding wheel dia. 150 mm.	1	1	0	01 no.
52	AG 4 Grinder	2	2	0	2
53	Suitable gas welding table with fire bricks	2	2	2	NIL
54	Suitable Arc welding table with positioner	6	6	6	NIL
55	Trolley for cylinder (H.P. Unit)	2	2	2	NIL
56	Hand shearing machine capacity to cut 6 mm sheets and flats	1	1	1	NIL
57	Power saw machine 14"	1	1	1	NIL
58	Portable drilling Machine (Cap.6mm)	1	1	1	NIL
59	Oven, electrode drying 0 to 350 ^o C, 10 kg capacity	1	1	1	NIL
60	Work bench 340x120x75 cm with 4 bench vices of 150 mm jaw opening	4 sets	4 sets	4 sets	NIL
61	Oxy Acetylene Gas cutting blow pipe	2 sets	2 sets	2 sets	NIL
62	Oxygen, Acetylene Cylinders	2 each	2 each	2 each	NIL
63	CO ₂ Cylinder	2	2	2	NIL
64	Argon Gas Cylinder	2	2	2	NIL
65	Anvil 12 sq. inches working area with stand	1	1	1	NIL
66	Swage block	1	1	1	NIL
67	Die penetrate testing kit	1	1	0	1
68	Magnetic particle testing Kit	1	1	0	1
69	Fire extinguishers (foam type and CO ₂ type)	1	1	1	NIL
70	Fire buckets with stand	4	4	4	NIL
71	Portable abrasive cut-off machine	1	1	0	1

72	Suitable Gas cutting table	1	1	1	NIL
73	Welding Simulators for SMAW/GTAW/GMAW	1	1	0	1 (optional)
1	Instructor's table and chair (steel)	1	1	1	NIL
2	Students Chairs with writing pads	16	16	16	NIL
3	White board size 1200mmX900mm	1	1	1	NIL
4	Instructors Laptop with latest (vista & above) configuration pre-loaded with operating system, and MS office package	1	1	0	1
5	LCD projector with screen	1	1	0	1
6	Welding process, Inspection & codes DVD/CDs	1	1	0	1 (optional)

Name of the trade:- Electrician

**No. of units in 1st shift: 01
in 3rd shift : NIL**

in 2nd shift : 01

Total Units : 2 Units

Sl. No.	Name of the General Machinery and Installation	Number required for one unit as per NCVT norms / syllabus	Total number of equipment required for the total units affiliated	Total number actually available for all the units	Indicate shortage if any
1	Steel Tape, 15 m length	17	34	34	NIL
2	Plier Insulated, 150 mm	17	34	34	NIL
3	Plier Side Cutting, 150 mm	17	34	34	NIL
4	Screw Driver, 100 mm	17	34	34	NIL
5	Screw Driver, 150 mm	17	34	34	NIL
6	Electrician Connector, screw driver insulated handle thin stem, 100 mm	17	34	34	NIL
7	Heavy Duty Screw Driver , 200 mm	17	34	34	NIL
8	Electrician Screw Driver thin stem insulated handle, 250 mm	17	34	34	NIL
9	Punch Centre , 150 mm X 9 mm	17	34	34	NIL

10	Knife Double Bladed Electrician	17	34	34	NIL
11	Neon Tester	17	34	34	NIL
12	Steel Rule 300 mm	17	34	34	NIL
13	Hammer, cross peen with handle	17	34	34	NIL
14	Hammer, ball peen With handle	17	34	34	NIL
15	Gimlet 6 mm.	17	34	34	NIL
16	Bradawl	17	34	34	NIL
17	Scriber (Knurled centre position)	17	34	34	NIL
18	Pincer 150 mm	17	34	34	NIL
19	C- Clamp 200 mm, 150 mm and 100 mm	2	4	4	NIL
20	Spanner Adjustable 150 mm,300mm	2	4	4	NIL
21	Blow lamp 0.5 ltr	1	1	1	NIL
22	Melting Pot	1	1	1	NIL
23	Ladel	1	1	1	NIL
24	Chisel Cold firmer 25 mm X 200 mm	2	4	4	NIL
25	Chisel 25 mm and 6 mm	2	4	4	NIL
26	Hand Drill Machine	1	1	1	NIL
27	Portable Electric Drill Machine 6 mm capacity	1	1	1	NIL
28	Pillar Electric Drill Machine 12 mm capacity	1	1	1	NIL
29	Allen Key	1	1	1	NIL
30	Oil Can 0.12 ltr	1	1	1	NIL
31	Grease Gun	1	1	1	NIL
32	Out Side Micrometer	2	4	4	NIL
33	Motorised Bench Grinder	1	1	1	NIL
34	Rawl plug tool and bit	2	4	4	NIL
35	Pully Puller	2	4	4	NIL
36	Bearing Puller	2	4	4	NIL
37	Pipe vice	4	8	8	NIL
38	Thermometer 0 to 100 deg Centigrade	1	2	2	NIL
39	Scissors blade 150 mm	4	8	8	NIL
40	Crimping Tool	2	4	4	NIL
41	Wire stripper 20 cm	2	4	4	NIL
42	Chisel Cold flat 12 mm	2	4	4	NIL

43	Mallet hard wood 0.50 kg	4	8	8	NIL
44	Hammer Extractor type 0.40 kg	4	8	8	NIL
45	Hacksaw frame 200 mm 300 mm adjustable	2	4	4	NIL
46	Try Square 150 mm blade	4	8	8	NIL
47	Outside and Inside Divider Calliper	2	4	4	NIL
48	Pliers flat nose 150 mm	4	8	8	NIL
49	Pliers round nose 100 mm	4	8	8	NIL
50	Tweezers 100 mm	4	8	8	NIL
51	Snip Straight and Bent 150 mm	2	4	4	NIL
52	D.E. metric Spanner	2	4	4	NIL
53	Drill hand brace	4	8	8	NIL
54	Drill S.S. Twist block 2 mm, 5 mm 6 mm set of 3	4	8	8	NIL
55	Plane, smoothing cutters 50 mm	2	4	4	NIL
56	Gauge, wire imperial	2	4	4	NIL
57	File flat 200 mm 2nd cut	8	16	16	NIL
58	File half round 200 mm 2nd cut	4	8	8	NIL
59	File round 200 mm 2nd cut	4	8	8	NIL
60	File flat 150 mm rough	4	8	8	NIL
61	File flat 250 mm bastard	4	8	8	NIL
62	File flat 250 mm smooth	4	8	8	NIL
63	File Rasp, half round 200 mm bastard	4	8	8	NIL
64	Soldering Iron 25 watt, 65 watt, 125 watt	2	4	4	NIL
65	Copper bit soldering iron 0.25 kg.	2	4	4	NIL
66	Desoldering Gun	4	8	8	NIL
67	Hand Vice 50 mm jaw	4	8	8	NIL
68	Table Vice 100 mm jaw	8	16	16	NIL
69	Pipe Cutter to cut pipes upto 5 cm. dia	4	8	8	NIL
70	Pipe Cutter to cut pipes above 5 cm dia	2	4	4	NIL
71	Stock and Die set for 20 mm to 50 mm G.I. pipe	1	2	2	NIL
72	Stock and Dies conduit	1	2	2	NIL
73	Ohm Meter; Series Type & Shunt Type	2	4	4	NIL

74	Multi Meter (analog) 0 to 1000 M Ohms, 2.5 to 500 V	2	4	4	NIL
75	Digital Multi Meter	6	12	12	NIL
76	A.C. Voltmeter M.I. 0 –500V A.C	1	2	2	NIL
77	Milli Voltmeter centre zero 100 – 0 – 100 m volt	1	2	2	NIL
78	D.C. Milli ammeter 0 -500m A	1	2	2	NIL
79	Ammeter MC 0-5 A, 0- 25 A	1	2	2	NIL
80	A.C. Ammeter M.I. 0-5A, 0-25 A	1	2	2	NIL
81	Kilo Wattmeter 0-1-3 kw	1	2	2	NIL
82	A.C. Energy Meter, Single phase 5 amp. Three Phase 15 amp	1	2	2	NIL
83	Power Factor Meter	1	2	2	NIL
84	Frequency Meter	1	2	2	NIL
85	Flux meter	1	2	2	NIL
86	Wheat Stone Bridge with galvanometer and battery	1	2	2	NIL
87	Laboratory Type Induction Coil	1	2	2	NIL
88	DC Power Supply 0-30V, 2 amp	1	2	2	NIL
89	Rheostat 0 -1 Ohm, 5 Amp 0 -10 Ohm, 5 Amp 0- 25 Ohm, 1 Amp 0- 300 Ohm, 1 Amp	1	2	2	NIL
90	1 Phase Variable Auto Transformer	1	2	2	NIL
91	Battery Charger	1	2	2	NIL
92	Hydrometer	1	2	2	NIL
93	Miniature Breaker 16 amp (Raw Material)	1	2	2	NIL
94	Working Bench 2.5 m x 1.20 m x 0.75 m	4	8	8	NIL
95	Fire Extinguisher CO2, 2 KG	2	4	4	NIL
96	Fire Buckets	2	4	4	NIL
97	Instructor's table	1	2	2	NIL
98	Instructor's chair	2	4	4	NIL
99	Metal Rack 100cm x 150cm x 45cm	4	8	8	NIL
100	Lockers with 16 drawers standard size	2	4	4	NIL
101	Almirah 2.5 m x 1.20 m x 0.5 m	1	2	2	NIL
102	Black board/white board	1	2	2	NIL
103	Tachometer	1	2	2	NIL
104	Current Transformer 415 Volt,50 Hz, CT Ratio 150 / 5 Amp, 5VA	1	2	2	NIL
105	Potential Transformer 415 Volt,50Hz,	1	2	2	NIL

	PT Ratio 11KV/ 110V, 10VA				
106	Growler	1	2	2	NIL
107	Tong Tester / Clamp Meter 0 – 100 amp. AC	1	2	2	NIL
108	Megger 500 volts	1	2	2	NIL
109	Contactor & auxiliary contacts 3 phase, 440volt, 16amp (Raw Material)	1	2	2	NIL
110	Contactor & auxiliary contacts 3 phase, 440 volt, 32 amp. (Raw Material)	1	2	2	NIL
111	Limit Switch (Raw Material)	1	2	2	NIL
112	Rotary Switch 16 A (Raw Material)	1	2	2	NIL
113	Load Bank 5 KW(Lamp / heater Type)	1	2	2	NIL
114	Brake Test arrangement with two spring balance 0 to 25 kg rating	1	2	2	NIL
115	Knife Switch DPDT fitted with fuse terminals 16 amp (Raw Material)	4	8	8	NIL
116	Knife Switch TPDT fitted with fuse terminals 16 amp (Raw Material)	4	8	8	NIL
117	Voltage Stabiliser Input: 150 – 230 volt AC Output: 220 volt AC	1	2	2	NIL
118	3- point D.C. Starter	1	2	2	NIL
119	4- point D.C. Starter	1	2	2	NIL
120	Electrical Machine Trainer – Suitable for demonstrating the construction and functioning of different types of DC machines and AC machines (single phase and three phase). Should be fitted with friction brake arrangement, dynamo meter, instrument panel and	1	1	1	NIL
121	Motor-Generator (AC to DC) consisting of : Squirrel Cage Induction Motor with star delta starter and directly coupled to DC shunt generator and switch board mounted with regulator, air breaker, ammeter, voltmeter, knife blade switches and fuses, set compl	1	2	2	NIL
122	Used DC Generators-series, shunt and compound type for overhauling practice	1	1	1	NIL
123	D.C. Shunt Generator with control panel,2.5 KW, 220V	1	1	1	NIL
124	D.C. Compound Generator with control panel including fitted rheostat, voltmeter, ammeter and breaker, 2.5 KW, 220 V	1	1	1	NIL
125	Diesel Generator Set with change over switch, over current breaker and water-cooled with armature, star-delta connections AC 3 phase, 5 KVA, 240 volt	1	1	1	NIL
126	DC Series Motor coupled with mechanical load 0.5 to 2 KW, 220 Volts	1	1	1	NIL
127	DC Shunt Motor 2 to 2.5 KW, 220 volts	1	1	1	NIL
128	DC compound Motor with starter and switch 2 to 2.5 KW ,220 volts	1	1	1	NIL

129	Single phase Transformer, core type, air cooled 1 KVA, 240/415 V, 50 Hz	1	1	1	NIL
130	Three phase transformer, shell type oil cooled with all mounting 3 KVA, 415/240 V, 50 Hz, (Delta/Star)	1	1	1	NIL
131	Oscilloscope Dual Trace, 30 MHZ	1	1	1	NIL
132	Function Generator	1	1	1	NIL
133	Discrete Component Trainer	1	1	1	NIL
134	Linear I.C. Trainer	1	1	1	NIL
135	Digital I.C. Trainer	1	1	1	NIL
136	Oil Testing Kit	1	1	1	NIL
137	Hygrometer	1	1	1	NIL
138	a. Cut out Relays b. Reverse current c. Over current d. Under voltage	1	1	1	NIL
139	Starters for 2 to 5 H.P. A.C Motors a. Resistance type starter b. Direct on line Starter c. Star Delta Starter- manual, semi-automatic and automatic d. Auto Transformer type	1	1	1	NIL
140	Motor Generator(DC to AC) set consisting of - Shunt Motor with starting compensator and switch directly coupled to AC generator with exciter and switch board mounted with regulator, breaker, ammeter, voltmeter frequency meter, knife blade switch and fuses	1	1	1	NIL
141	AC Squirrel Cage Motor with star delta starter and triple pole iron clad switch fuse. 2 to 3 HP, 3-phase, 400 volts, 50 cycles	1	1	1	NIL
142	AC phase-wound slip ring Motor with starter and switch 5 HP, 400 volts, 3-phase, 50 cycles	1	1	1	NIL
143	A.C. Series type Motor with mechanical load ¼ HP, 230V, 50 Hz	1	1	1	NIL
144	Single Phase Capacitor Motor with starter switch 1 HP 230 volt 50 cycles	1	1	1	NIL
145	Universal Motor with starter/switch 230 volt, 50 cycles ¼ HP	1	1	1	NIL
146	Stepper Motor with Digital Controller	1	1	1	NIL
147	Shaded Pole Motor	1	1	1	NIL
148	Bath Impregnating	1	1	1	NIL
149	Oven Stove	1	1	1	NIL
150	Synchronous motor 3 Phase, 3 HP, 415V, 50Hz, 4 Pole, with accessories.	1	1	1	NIL
151	Lux meter	1	1	1	NIL
152	Inverter- 1 KVA with 12 V Battery Input- 12 volt DC, Output- 220 volt AC	1	1	1	NIL

153	Domestic Appliances – a) Electric Hot Plate 1500 watt b) Electric Kettle, 1500 watts c) Electric Iron 1500 watts d) Immersion Heater 1500 watt e) A.C. Fan f) Geyser (Storage type) 15 ltr minimum g) Mixture & Grinder	1	1	1	NIL
154	Thyristor/IGBT controlled D.C. motor drive with tacho-generator feedback arrangement 1 HP	1	1	1	NIL
155	Thyristor/IGBT controlled A.C. motor drive with VVVF control 3 Phase, 2 HP	1	1	1	NIL
156	Pentium IV Computer or latest (Server-Linux), 2.8 GHz & above, 1 GB RAM, 80 GB HDD, DVD Combo Drive, 15/17" Monitor, optical scroll mouse, multimedia key board, 32 bit LAN card with UPP port, necessary Drivers, etc.	2	2	2	NIL
157	Ink jet/ laser printer	1	1	1	NIL
158	Washing Machine	1	1	1	NIL
159	Motor Pump set 1 HP, 1 Phase, 240 V	1	1	1	NIL
160	Pin Type, shackle type & suspension type insulators (Raw Material)	2	2	2	NIL
157	Ink jet/ laser printer	1	1	1	NIL
158	Washing Machine	1	1	1	NIL
159	Motor Pump set 1 HP, 1 Phase, 240 V	1	1	1	NIL
160	Pin Type, shackle type & suspension type insulators (Raw Material)	2	2	2	NIL

Name of the trade:- FITTER

**No. of units in 1st shift: 01
in 3rd shift :01**

in 2nd shift : 01

Total Units : 3 Units

Sl. No.	Name of the General Machinery and Installation	Number required for one unit as per NCVT norms / syllabus	Total number of equipment required for the total units affiliated	Total number actually available for all the units	Indicate shortage if any
1	Steel Rule 15 cm with metric graduation	17	51 nos.	51 nos.	Nil
2	Try Square 10 cm blade.	17	51 nos.	51 nos.	Nil
3	Caliper inside 15 cm spring.	17	51 nos.	51 nos.	Nil
4	Caliper 15 cm hermaphrodite	17	51 nos.	51 nos.	Nil
5	Caliper outside 15 cm spring	17	51 nos.	51 nos.	NIL
6	Divider 15 cm spring	17	51 nos.	51 nos.	Nil
7	Straight Scriber 15 cm.	17	51 nos.	51 nos.	Nil
8	Centre Punch 10 cm	17	51 nos.	51 nos.	Nil
9	Screw driver 15 cm	17	51 nos.	51 nos.	Nil
10	Chisel cold flat 10 cm	17	51 nos.	51 nos.	Nil
11	Hammer ball peen 0.45 kg. With handle	17	51 nos.	51 nos.	Nil
12	Hammer ball peen 0.22 kg. With handle.	17	51 nos.	51 nos.	NIL
13	File flat 25 cm. second cut	17	51 nos.	51 nos.	Nil
14	File flat 25 cm. smooth	17	51 nos.	51 nos.	Nil
15	File half round second cut 15 cm.	17	51 nos.	51 nos.	Nil
16	Hacksaw frame fixed 30 cm.	17	51 nos.	51 nos.	Nil
17	Safety goggles.	17	51 nos.	51 nos.	NIL
18	Dot slot punch 10 cm.	17	51 nos.	51 nos.	Nil
19	Steel Rule 30 cm	4	4 nos.	4 nos.	Nil
20	Steel Rule 60 cm.	4	4 nos.	4 nos.	Nil
21	Straight edge 45 cm steel	2	2 nos.	2 nos.	Nil
22	Surface plate 45 x 45 cm CI / Granite.	2	2 nos.	2 nos.	Nil
23	Marking table 91 x 91 x 122 cm.	1	1 no.	1 no.	Nil
24	Universal scribing block 22 cm.	2	2 nos.	2 nos.	Nil
25	V-Block pair 7 cm and 15 cm with clamps	2	2 nos.	2 nos.	Nil
26	Square adjustable 15 cm blade.	2	2 nos.	2 nos.	Nil
27	Angle plate 10 x 20 cm.	2	2 nos.	2 nos.	Nil
28	Spirit Level 15 cm metal	1	1 no.	1 no.	Nil
29	Punch letter 3 mm set.	1	1 no.	1 no.	Nil
30	Punch number set 3 mm.	1	1 no.	1 no.	Nil
31	Punch hollow 6 mm to 19 set of 5	2	2 nos.	2 nos.	Nil
32	Punch round 3mm x 4 mm set of 2	2	2 nos.	2 nos.	Nil
33	Portable hand drill (Electric) 0 to 6 mm	2	2 nos.	2 nos.	Nil
34	Drill twist straight shank 1.5 to 12 mm by 0.5 mm	1	1 Set	1 Set	Nil
35	Drill twist straight shank 8 mm to 15 mm by ½ mm	1	1 Set	1 Set	Nil
36	Taps and dies complete set in box B.A	1	1 no.	1 no.	Nil
37	Taps and dies complete set in box with-worth.	1	1 no.	1 no.	Nil
38	Taps and dies complete set in box 3-18 mm set of 10	1	1 no.	1 no.	Nil
39	File warding 15 cm smooth	4	4 nos.	4 nos.	Nil
40	File knife edge 15 cm smooth	4	4 nos.	4 nos.	Nil
41	File cut saw 15 cm smooth	4	4 nos.	4 nos.	Nil

42	File feather edge 15 cm smooth	4	4 nos.	4 nos.	Nil
43	File triangular 15 cm smooth	2	2 nos.	2 nos.	Nil
44	File round 20 cm second cut	8	8 nos.	8 nos.	
45	File square 15 cm second cut	4	4 nos.	4 nos.	Nil
46	File square 25 cm second cut	4	4 nos.	4 nos.	Nil
47	Feeler gauge 10 blades	1	1 Set	1 Set	Nil
48	File triangular 20 cm second cut.	8	8 nos.	8 nos.	NIL
49	File flat 30 cm second cut.	8	8 nos.	8 nos.	Nil
50	File flat 20 cm bastard	8	8 nos.	8 nos.	Nil
51	File flat 30 cm bastard.	8	8 nos.	8 nos.	Nil
52	File Swiss type needle set of 12.	2	2 Sets	2 Sets	Nil
53	File half round 25 cm second cut.	8	8 nos.	8 nos.	NIL
54	File half round 25 cm bastard.	4	4 nos.	4 nos.	Nil
55	File round 30 cm bastard.	4	4 nos.	4 nos.	Nil
56	File hand 15 cm second cut.	8	8 nos.	8 nos.	NIL
57	Card file.	8	8 nos.	8 nos.	Nil
58	Oil Stone 15 cm x 5 cm x 2.5 cm	4	4 nos.	4 nos.	Nil
59	Stone carborandum 15 cm x 5 cm x 5 cm x 4 cm.	2	2 nos.	2 nos.	Nil
60	Oil Can 0.25 liters.	2	2 nos.	2 nos.	Nil
61	Pliers combination 15 cm	2	2 nos.	2 nos.	Nil
62	Soldering Iron 350 gm.	2	2 nos.	2 nos.	Nil
51	Blow Lamp 0.50 liters.	2	2 nos.	2 nos.	Nil
64	Spanner D.E. 6 -26 mm set of 10 pcs.	8	8 nos.	8 nos.	NIL
65	Spanner adjustable 15 cm	2	2 nos.	2 nos.	Nil
66	Interchangeable ratchet socket set with a 12 mm driver, sized10-32 mm set of 18 socket & attachments.	1	1 Set	1 Set	Nil
67	Box spanner set 6-25 mm set of 8 with Tommy bar.	1	1 Set	1 Set	Nil
68	Glass magnifying 7 cm	2	2 nos.	2 nos.	Nil
69	Clamp toolmaker 5 cm and 7.5 cm set of 2.	2	2 nos.	2 nos.	Nil
70	Clamp "C" 5 cm	2	2 nos.	2 nos.	Nil
71	Clamp "C" 10 cm	2	2 nos.	2 nos.	Nil
72	Hand Reamer adjustable cover max 9 , 12,18mm – set of 3	1	1 Set	1 Set	Nil
73	Hand Reamer taper 4 -9mm set of 6 OR 4 -7 mm set of 4.	1	1 Set	1 Set	Nil
74	Reamer parallel 12 - 16mm set of 5.	1	1 no.	1 no.	Nil
75	Scraper flat 15 cm.	8	8 nos.	8 nos.	Nil
76	Scraper triangular 15 cm	8	8 nos.	8 nos.	Nil
77	Scraper half round 15cm	8	8 nos.	8 nos.	Nil
78	Chisel cold 9 mm cross cut 9 mm diamond.	8	8 each	8 each	Nil
79	Chisel cold 19 mm flat	8	8 nos.	8 nos.	Nil
80	Chisel cold 9 mm round noze.	8	8 nos.	8 nos.	NIL
81	Stud Extractor EZY – out	2	2 nos.	2 nos.	Nil
82	Combination Set 30 cm.	2	2 nos.	2 nos.	Nil
83	Micrometer 0 – 25 mm outside.	2	2 nos.	2 nos.	Nil
84	Micrometer 25 – 50 mm outside.	3	3 nos.	3 nos.	Nil
85	Micrometer 50 –75 mm outside.	2	2 nos.	2 nos.	Nil
86	Micrometer inside 25 - 50 mm with extension rods.	1	1 no.	1 no.	Nil
87	Vernier caliper 15 cm	1	1 no.	1 no.	Nil
88	Vernier height gauges 30 cm.	1	1 no.	1 no.	Nil
89	Vernier bevel protractor.	1	1 no.	1 no.	Nil
90	Screw pitch gauge.	1	1 no.	1 no.	Nil
91	Wire gauge, metric standard.	1	1 no.	1 no.	Nil
92	Drill twist Taper Shank 12 mm to 25 mm x 1.5. Drill chuck 12 mm. Pipe wrench 40 cm Pipe wrench 30 cm Pipe vice 100mm Adjustable pipe tap set BSP with die set cover pipe size 15, 20, 25,32,38,50 mm.	1	1 no.	1 no.	Nil

	Wheel dresser (One for 4 units). Machine vice 10 cm Ma				
93	Drill chuck 12 mm.	1	1 no.	1 no.	Nil
94	Pipe wrench 40 cm	1	1 no.	1 no.	Nil
95	Pipe vice 100mm	1	1 no.	1 no.	Nil
96	Adjustable pipe tap set BSP with die set cover pipe size 15, 20, 25,32,38,50 mm.	1	1 no.	1 no.	Nil
97	Wheel dresser (One for 4 units).	1	1 no.	1 no.	Nil
98	Machine vice 10 cm.	1	1 no.	1 no.	Nil
99	Machine vice 15 cm	1	1 no.	1 no.	Nil
100	Sleeve drill Morse 0 - 1, 1 - 2, 2 - 3.	1	1 Set	1 Set	Nil
101	Vice bench 12 cm jaws.	16	16 nos.	16 nos.	NIL
102	Vice leg 10 cm jaw.	2	2 nos.	2 nos.	Nil
103	Bench working 240 x 120 x 90 cm.	4	4 nos.	24 nos.	NIL
104	Almirah 180 x 90 x 45 cm.	2	2 nos.	2 nos.	Nil
105	Lockers with 6 drawers (standard size).	2	2 nos.	2 nos.	Nil
106	Metal rack 182 x 182 x 45 cm	1	1 no.	1 no.	Nil
107	Instructor Table	1	1 no.	1 no.	Nil
108	Instructor Chair	1	1 no.	1 no.	Nil
109	Black board with easel.	1	1 no.	1 no.	Nil
110	Fire extinguisher (For 4 Units)	2	2 nos.	2 nos.	Nil
111	FIRE BUCKETS.	2	2 nos.	2 nos.	Nil
112	Machine vice 100mm.	2	2 nos.	2 nos.	Nil
113	Wing compass 25.4 cm or 30 cm.	2	2 nos.	2 nos.	Nil
114	Hand hammer 1 kg. with handle.	2	2 nos.	2 nos.	Nil
115	Torque wrench (14 to 68 Nm)	1	1 no.	1 no.	Nil
116	Hammer smith 2 kg. With handle.	2	2 nos.	2 nos.	Nil
117	Tongs roving 350mm.	2	2 nos.	2 nos.	Nil
118	Tongs fiat 350mm.	2	2 nos.	2 nos.	Nil
119	Smith's square 45 cm x 30 cm.	1	1 no.	1 no.	Nil
120	Cold set rod 25X200mm.	2	2 nos.	2 nos.	Nil
121	Hot set rod 25X200mm.	1	1 no.	1 no.	Nil
122	Swages top & bottom 12 mm /19	1	1 Each	1 Each	Nil
123	Swage block 35 x 35 x 12 cm.	1	1 no.	1 no.	Nil
124	Flatters (rod 55 mm square).	2	2 nos.	2 nos.	Nil
125	Fuller top & bottom 6 mm 9 mm (Pair).	2	2 nos.	2 nos.	Nil
126	Anvil 50 kg.	2	2 nos.	1 nos.	1 No
127	Anvil stand	2	2 nos.	1 nos.	1 No
128	Shovel.	2	2 nos.	2 nos.	Nil
129	Trammel 30cm.	1	1 no.	1 no.	Nil
130	Rake.	2	2 nos.	2 nos.	Nil
131	Quenching tank (To be made in the Institute).	1	1 no.	1 no.	Nil
132	Pocker.	2	2 nos.	2 nos.	Nil
133	Hardle.	2	2 nos.	2 nos.	Nil
134	Leather apron.	2	2 nos.	2 nos.	Nil
135	Prick punch	2	2 nos.	2 nos.	Nil
136	Mallet.	2	2 nos.	2 nos.	Nil
137	Snips straight 25 cm.	2	2 nos.	2 nos.	Nil
138	Setting hammers with handle.	2	2 nos.	2 nos.	Nil

139	Planishing hammer.	2	2 nos.	2 nos.	Nil
140	Snip bent 25 cm.	2	2 nos.	2 nos.	Nil
141	Stake hatchet.	2	2 nos.	2 nos.	Nil
142	Stake grooving.	2	2 nos.	2 nos.	Nil
143	Gauge imperial sheet.	1	1 no.	1 no.	Nil
Nil 144	Slip Gauge as Johnson metric set. (No additional number of items are required to be provided up to four batches of trainees i.e. two batches in the first shift and two in the second shift.)	1	1 Set	1 Set	Nil
145	Carbide Wear Block 1 mm – 2 mm.	2	2 each	2 each	Nil
146	Gauge snap Go and Not Go 25 to 50 mm by 5mm. Set of 6 pcs. (No additional number of items are required to be provided up to four batches of trainees i.e. two batches in the first shift and two in the second shift.)	1	1 Set	1 Set	Nil
147	Gauge plug single 3 ended 5 to 55 by 5 mm. Set of 11 pcs. (No additional number of items are required to be provided up to four batches of trainees i.e. two batches in the first shift and two in the second shift.)	1	1 Set	1 Set	Nil
148	Gauge telescopic upto 150 mm. (only one number need be provided in each I.T.I. irrespective of No. of units.)	1	1 no.	1 no.	Nil
149	Dial test indicator .01 mm on stand	1	1 no.	1 no.	Nil
150	Sine bar 125 mm.	1	1 no.	1 no.	Nil
151	Sine bar 250 mm.	1	1 no.	1 no.	Nil
152	Lathe tools H.S.S. tipped set.	2	2 nos.	2 nos.	Nil
153	Lathe tools bit 6 mm x 75 mm.	4	4 nos.	4 nos.	Nil
154	Lathe tools bit 8 mm x 75 mm.	4	4 nos.	4 nos.	NIL
155	Lathe tools bit 10 mm x 85mm.	4	4 nos.	4 nos.	Nil
156	Arm strong type tool bit holder R.H.	2	2 nos.	2 nos.	Nil
157	Arm strong type tool bit holder L.H.	2	2 nos.	2 nos.	Nil
158	Arm strong type tool bit holder straight.	2	2 nos.	2 nos.	Nil
159	Stilson wrenches 25 cm	2	2 nos.	2 nos.	Nil
160	Pipe cutter 6 mm to 50 mm wheel type.	1	1 no.	1 no.	Nil
161	Pipe bender spool type up to 25 mm. with stand manually operated.	1	1 no.	1 no.	Nil
162	Adjustable pipe chain tonge to take pipes up to 300 mm.	1	1 no.	1 no.	Nil
151	Adjustable spanner 38 cm long.	1	1 no.	1 no.	Nil
164	Dial vernier caliper 0 – 200 mm LCO 0.05 mm. (Universal type). (only one number need be provided in each I.T.I. irrespective of No. of units.)	1	1 no.	1 no.	Nil

165	Screw thread micrometer with interchangeable 0-25mm. Pitch anvils for checking metric threads 60. (only one number need be provided in each I.T.I. irrespective of No. of units.)	1	1 no.	1 no.	Nil
166	Depth micrometer 0-25 mm. 0.01 mm.	1	1 no.	1 no.	Nil
167	Vernier caliper 0-150 mm. L.C. 0.02 mm. (only one number need be provided in each I.T.I. irrespective of No. of units.)	1	1 no.	1 no.	Nil
168	Digital Micrometer 0 – 25 mm outside. L.C. 0.001 mm. (only one number need be provided in each I.T.I. irrespective of No. of units.)	1	1 no.	0 no.	1 no.
169	Comparators stand with dial indicator LC 0.01mm. (only one number need be provided in each I.T.I. irrespective of No. of units.)	1	1 no.	1 no.	Nil
170	Engineer's try square (knife-edge) 150 mm blade.	1	1 no.	1 no.	Nil
171	Surface roughness comparison plates N1-N12 grade (only one number need be provided in each I.T.I. irrespective of No. of units.)	1	1 Set	1 Set	Nil
172	Digital Vernier caliper 0-150 mm. L.C. 0.001 mm.(Optional)	1	1 no.	0 no.	1 no.
173	SS and SC centre lathe (all geared) with Minimum centre height 6"/150 mm & length 4.5"/ 1400 mm along with 3, 4 jaw chuck, auto feed system, coolant arrangement, lightening lamp, taper turning attachment, safety guard & standard accesories. (No addition	2	2 nos.	2 nos.	Nil
174	Drilling machine pillar sensitive 0-20 mm cap with swivel table motorised with chuck & key.	1	1 no.	1 no.	Nil
175	Drilling machine bench sensitive 0-12 mm cap motorised with chuck and key.	2	2 nos.	2 nos.	Nil
176	Forge portable hand blower 38 cm to 45 cm.	1	1 nos.	1 nos.	Nil
177	D.E. pedestal Grinding machine with 200mm diameter wheels rough and smooth with twist drill grinding attachment.	1	1 no.	1 no.	Nil
178	Transformer welding set 150 amps. – continuous welding current, with all accessories and electrode holder	1	1 Set	1 Set	Nil
179	Welder cable to carry 200 amps. With flexible rubber cover	20	20 Meter	30 Meter	Nil
180	Lungs for cable	12	12 nos.	12 nos.	NIL
181	Earth clamps.	2	2 nos.	2 nos.	Nil
182	Arc welding table (all metal top) 122 cm X 12 cm X 60 cm with positioner.	1	1 no.	1 no.	Nil
183	Oxy – acetylene gas welding set equipment with hoses, regulator and other accessories.	1	1 Set	1 Set	Nil
184	Gas welding table with positioner	1	1 no.	1 no.	Nil
185	Welding torch tips of different sizes	1	1 Set	1 Set	Nil
186	Gas lighter.	2	2 nos.	2 nos.	Nil
187	Trolley for gas cylinders.	1	1 no.	1 no.	Nil
188	Chipping hammer.	2	2 nos.	2 nos.	Nil

189	Gloves (Leather)	2	2 Pairs	2 Pairs	Nil
190	Leather apron.	2	2 nos.	2 nos.	Nil
191	Spindle key for cylinder valve.	2	2 nos.	2 nos.	Nil
192	Welding torches 5 to 10 nozzles.	1	1 Sets	1 Sets	Nil
193	Welding goggles	4	4 Pairs	4 Pairs	Nil
194	Welding helmet with coloured glass	2	2 nos.	2 nos.	Nil
195	Tip Cleaner	10	10 Sets	10 Sets	NIL

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