

Name of trade (s) for which affiliation sought :

ELECTRICIAN

Total Number of units: 2

No. of units in I shift : 1

No. of units in II shift : 1

No. of units in III shift :

S. No	Name of the tools, equipment and machinery as per syllabus	Number required for Instruct or and Trainees for one unit as per DGE&T norms	Total (units) affiliated and sought for affiliation)	Total number actually available for all the units	Indicate shortage if any	Percent -age of availability (Item wise)
1	2	3	4	5	6	7
TOOL KIT						
1	Rule wooden 4 fold 60 mm.	16+16	Two	32	Nil	100%
2	Plier insulated 150mm.	16+16	Two	32	Nil	100%
3	Plier side cutting 150 mm	16+16	Two	32	Nil	100%
4	Screw Driver 100mm.	16+16	Two	32	Nil	100%
5	Screw Driver 150mm.	16+16	Two	32	Nil	100%
6	Electrician connector, screw- driver 100mm. insulated handle thin stem.	16+16	Two	32	Nil	100%
7	Heavy duty screw driver 200mm.	16+16	Two	32	Nil	100%
8	Electrician driver 250mm thin stem insulated handle	16+16	Two	32	Nil	100%
9	Punch centre 150 mm x 9 mm.	16+16	Two	32	Nil	100%
10	Knife double bladed Electrician.	16+16	Two	32	Nil	100%
11	Neon Tester	16+16	Two	32	Nil	100%
12	Rule steel 300mm.	16+16	Two	32	Nil	100%
13	Saw tennon 250mm.	16+16	Two	32	Nil	100%
14	Hammer, cross peen 115 grams with handle	16+16	Two	32	Nil	100%
15	Hammer ball peen 0.75 kg. with handle.	16+16	Two	32	Nil	100%
16	Firmer chisel wood 12mm.	16+16	Two	32	Nil	100%
17	Gimlet 6mm.	16+16	Two	32	Nil	100%
18	Bradawl	16+16	Two	32	Nil	100%
19	Scriber 150 mm x Ø 4mm (Knurled centre position)	16+16	Two	32	Nil	100%
20	Pincer 150mm.	16+16	Two	32	Nil	100%
SHOP TOOLS, INSTRUMENTS & MACHINERY						
1	C. Clamps 200mm, 150mm, 100mm.	02 each	Two	02 each	Nil	100%
2	Spanner 150mm adjustable 15 degree.	02	Two	02	Nil	100%
3	Blow lamp 0.5 liter.	02	Two	02	Nil	100%
4	Melting pot	01	Two	01	Nil	100%
5	Ladle	02	Two	02	Nil	100%
6	Chisel cold flat 25mm x 200mm.	02	Two	02	Nil	100%
7	Chisel wood firmer 25mm & 6 mm.	04	Two	04	Nil	100%
8	Drill machine hand 0 to 6mm	01	Two	01	Nil	100%

	capacity.					
9	Electric drill machine portable 6mm capacity.	01	Two	01	Nil	100%
10	Pillar Electric drill machine 12mm capacity.	01	Two	01	Nil	100%
11	Allen key.	01 set.	Two	01 set.	Nil	100%
12	Oil can 0.12 liter.	02	Two	02	Nil	100%
13	Grease gun	01	Two	01	Nil	100%
14	Out side micrometer 0 to 25 mm.	01	Two	01	Nil	100%
15	Bench Grinder motorized	01	Two	01	Nil	100%
16	Rawal plug tool and bit	02 set	Two	02 set	Nil	100%
17	Pulley Puller	01	Two	01	Nil	100%
18	Bearing Puller	01	Two	01	Nil	100%
19	Hygrometer	02 sets	Two	02 sets	Nil	100%
20	Techno-meter 0 to 100 deg. centigrade.	01	Two	01	Nil	100%
21	Scissors blade 150mm.	04	Two	04	Nil	100%
22	Crimping tool	01 set	Two	01 set	Nil	100%
23	Wire stripper 20 cm	01	Two	01	Nil	100%
24	Chisel cold flat 12mm	04	Two	04	Nil	100%
25	Mallet hard wood 0.50 kg.	04	Two	04	Nil	100%
26	Hammer Exeter type 0.40 kg.	08	Two	08	Nil	100%
27	Hacksaw frame 200mm, 300mm adjustable.	04 (2 each)	Two	04 (2 each)	Nil	100%
28	Square try 150mm blade	04	Two	04	Nil	100%
29	Divider 150mm, outside & inside caliper.	02 each	Two	02 each	Nil	100%
30	Plier flat nose 100mm.	04	Two	04	Nil	100%
31	Plier gas round nose 100mm.	04	Two	04	Nil	100%
32	Plier Gas 150mm.	04	Two	04	Nil	100%
33	Tweezers 100mm.	04	Two	04	Nil	100%
34	Snip straight 150mm.	02	Two	02	Nil	100%
35	Snip bent 150mm.	02	Two	02	Nil	100%
36	Spanner D.E. metric standard set.	02	Two	02	Nil	100%
37	Drill hand brace 0 to 100mm.	04	Two	04	Nil	100%
38	Drill S.S. Twist block 2mm, 5mm, 6mm set of 3.	04	Two	04	Nil	100%
39	Plane, smoothing cutters, 50mm	04	Two	04	Nil	100%
40	Gauge, wire imperial.	02	Two	02	Nil	100%
41	File flat 200mm 2 nd cut	08	Two	08	Nil	100%
42	File half round 200mm 2 nd cut.	04	Two	04	Nil	100%
43	File round 200mm 2 nd cut.	04	Two	04	Nil	100%
44	File flat 150mm rough.	04	Two	04	Nil	100%
45	File flat 250mm bastard	04	Two	04	Nil	100%
46	File flat 250mm smooth	04	Two	04	Nil	100%
47	Rasp, half round 200 mm bastard.	04	Two	04	Nil	100%
48	Iron, soldering 25 watt, 65 watt, 125 watt.	04 each	Two	04 each	Nil	100%
49	Copper bit soldering iron 0.25 kg.	04	Two	04	Nil	100%
50	De-soldering gun	04	Two	04	Nil	100%
51	Vice hand 50mm. Jaw.	04	Two	04	Nil	100%

52	Vice Table jaw 100 mm	08	Two	08	Nil	100%
53	Vice Hand 50 mm jaw	04	Two	04	Nil	100%
54	Pipe cutter to cut pipes upto 5 cm.dia.	04	Two	04	Nil	100%
55	Pipe cutter to cut pipes above 5cm dia	01	Two	01	Nil	100%
56	Stock and die set for 20 mm to 50mm G.I. pipe.	01 set	Two	01 set	Nil	100%
57	Stock and dies conduit.	01	Two	01	Nil	100%
58	Multi meter 0 to 1000 M Ohms, 2.5 to 500 volt.	06	Two	06	Nil	100%
59	Digital Multi meter (3 ½ digits)	02	Two	02	Nil	100%
60	A.C. Voltmeter M.I. 0-500 V. A.C.	01	Two	01	Nil	100%
61	Milli Voltmeter centre zero 100-0-100 m volt.	01	Two	01	Nil	100%
62	D.C. Milli ammeter 0-500ma	01	Two	01	Nil	100%
63	D.C. Ammeter MC 0-1 A.	01	Two	01	Nil	100%
64	Ammeter M.C. 0-5 A.	01	Two	01	Nil	100%
65	Ammeter MC 0-15-25 A.	01	Two	01	Nil	100%
66	A.C. Ammeter M.I. 0-5 A.	01	Two	01	Nil	100%
67	A.C. Ammeter M.I. 0-15-25 A.	01	Two	01	Nil	100%
68	K.W. Meter 0-1-3 Kw	02	Two	02	Nil	100%
69	A.C. Energy meter (Single phase 5 Amp. 230V.)	01	Two	01	Nil	100%
70	Single phase power factor meter	01	Two	01	Nil	100%
71	Frequency meter	01	Two	01	Nil	100%
72	Tacho meter with stop watch	02	Two	02	Nil	100%
73	Current transformer	02	Two	02	Nil	100%
74	Potential transformer	02	Two	02	Nil	100%
75	Growler	01	Two	01	Nil	100%
76	Tong tester/Clamp meter 0-100 Amp. AC	01	Two	01	Nil	100%
77	Megger 500 volts.	01	Two	01	Nil	100%
78	Wheat stone bridge complete with galvanometer and battery	01	Two	01	Nil	100%
79	Relays-Over current, under voltage, etc. 3 volt, 100 amp.	02 each	Two	02 each	Nil	100%
80	Contactors 3 phase, 440 volt, 16 amp. 2 NO & 2NC auxiliary contacts.	02	Two	02	Nil	100%
81	Contactors 3 phase, 440 volt, 32 amp. 2 NO & 2NC auxiliary contacts.	02	Two	02	Nil	100%
82	Limit Switch	02	Two	02	Nil	100%
83	Rotary Switch 16A.	02	Two	02	Nil	100%
84	Load bank 5 KW (Lamp/heater type)	02	Two	02	Nil	100%
85	Brake test arrangement with two spring balance of 0 to 25 kg. rating.	02 set	Two	02 set	Nil	100%
86	Knife switch DPDT fitted with fuse terminals 16 amp.	12	Two	12	Nil	100%
87	Knife switch TPDT fitted with fuse terminals 16 amp.	12	Two	12	Nil	100%
88	DC power supply 0 – 100 volt, 5 amp.	02	Two	02	Nil	100%
89	Inverter 1 KVA Input 12 volt DC.	01	Two	01	Nil	100%

	Output 220 volt AC with 12 battery.					
90	Voltage stabilizer – Input 150-230 volt AC, Output 220 volt AC	01	Two	01	Nil	100%
91	Rheostat 0 – 1 Ohm, 5 Amp., 0 – 10 Ohm, 5 Amp, 0 – 25 Ohm, 1 Amp., 0 – 300 Ohm, 1 Amp.	02 each	Two	02 each	Nil	100%
92	Domestic appliances: -		Two		Nil	100%
	(a) Electric hot plate 1500 Watt. 220V. with temperature control	02		02		
	(b) Electric kettle, 1000 Watts 230V.	02	Two	02	Nil	100%
	(c) Electric iron 1200 watts, 220V. with temperature control.	02	Two	02	Nil	100%
	(d) Immersion heater 750/1000/1500 W., 230V.	02	Two	02	Nil	100%
	(e) Geyser 25 litre 240 V. (Storage type).	01	Two	01	Nil	100%
93	Flux meter	02	Two	02	Nil	100%
94	Laboratory type induction coil 6 volt to 800-10,000 volt.	01	Two	01	Nil	100%
95	3-Point D.C. starters.	01	Two	01	Nil	100%
96	4-point D.C. starters.	01	Two	01	Nil	100%
97	Cut out, reverse current, over load voltage relays.	01 each.	Two	01 each.	Nil	100%
98	Starter for 3-phase, 400 V. 50 cycles, 2 to 5 H.P. A.C. motors :-		Two		Nil	100%
	(a) Direct on line starter.	01		01		
	(b) Star delta starter with manual, Semi-Auto and Automatic.	01	Two	01	Nil	100%
	(c) Auto transformer type starter.	01	Two	01	Nil	100%
99	Electrical machine trainer :- Suitable for demonstrating the construction and functioning of different types of D.C. machines and A.C. machines (single phase and three phase). Should be complete with friction brake dynamo meter, instrument panel and power supply units.	01 per institute	Two	01 per institute	Nil	100%
100	Motor Generator (AC to DC) consisting of :- Motor induction squirrel cage, 7 HP 400 volts, 50 cycles, 3-phase with star delta starter and switch directly coupled to DC shunt generator 5 KW 440 volts and switch board mounted with regulator, air circuit breaker, ammeter, voltmeter knife blade switches and fuses, set complete with case iron and plate, fixing bolts, foundation bolts and flexible coupling.	01	Two	01	Nil	100%

101	Motor Generator (DC to AC) set consisting of :- Motor shunt 5 HP., 440 volts with starting compensator and switch directly coupled to generator AC 3.5 KVA., 400/ 230 volts, 3-phase, 4 wire, 0.8 PF 50 cycles with exciter and 1 switch board mounted with regulator, circuit breaker, ammeter, voltmeter frequency meter, knife blade switch and fuses etc. Set complete with cast iron bed plate, fixing bolts, fixing bolts, foundation bolts, & flexible coupling.	01	Two	01	Nil	100%
102	Used DC Generators-Series, Shunt, and Compound type for overhauling practice.	01 each	Two	01 each	Nil	100%
103	D.C. shunt generator 2.5 K.W. 220V. with control panel.	01	Two	01	Nil	100%
104	DC compound generator, 2.5 K.W. 250V. with control panel including filed rheostat, voltmeter, ammeter and circuit breaker.	01	Two	01	Nil	100%
105	Diesel generator 5 KVA, 440 V. AC 3 phase with change over switch, over current circuit breaker and water-cooled with armature, star-delta connections.	01	Two	01	Nil	100%
106	Motor series D.C., 220 volt, 0.5 to 2 HP. Coupled with mechanical load.	01	Two	01	Nil	100%
107	Motor shunt D.C., 220 volt, 2 to 3 HP.	02	Two	02	Nil	100%
108	Motor DC compound-would 220 volt, 2 to 3 HP with starter & switch.	02	Two	02	Nil	100%
109	Motor of AC squirrel cage, 3-phase, 400 volt, 50 cycles, 2 to 3 HP with star delta starter and triple pole iron clad switch fuse.	01	Two	01	Nil	100%
110	Motor AC phase-wound slipring type 5 HP 400 volts, 3-phase, 50 cycles with starter and switch.	01	Two	01	Nil	100%
111	Motor AC series type 230 volt, 50 cycles, 1/4 HP with mechanical load.	01	Two	01	Nil	100%
112	Motor AC single phase, 230 volt. 50 cycles 1 H.P. capacitor type with starter switch 1 HP.	01	Two	01	Nil	100%
113	Motor universal 230 volt, 50 cycles 1/4 HP with starter/ switch.	01	Two	01	Nil	100%
114	Stepper motor with digital controller	01	Two	01	Nil	100%
115	Fan A.C. 230 volt 1200mm	02	Two	02	Nil	100%
116	Transformer single phase, 1 KVA 230/115-50-24-12 volts, 50 cycles core type, air Cooled.	03	Two	03	Nil	100%

117	Transformer three phase, 5 KVA 440/230 volts, 50 cycles, delta / star, shell type oil cooled.	02	Two	02	Nil	100%
118	Variable auto transformer 0-250V. 8 amps.	02	Two	02	Nil	100%
119	Oscilloscope –Dual Trace, 30 MHZ	01	Two	01	Nil	100%
120	Function Generator	01	Two	01	Nil	100%
121	Discrete component trainer	01	Two	01	Nil	100%
122	Linear I.C. Trainer	01	Two	01	Nil	100%
123	Digital I.C. Trainer	01	Two	01	Nil	100%
124	Bath impregnating	02	Two	02	Nil	100%
125	Oven Stoving	01	Two	01	Nil	100%
126	Oil testing kit	01	Two	01	Nil	100%
127	Battery charger with variable output 1 KW	01	Two	01	Nil	100%
128	Hydrometer	01	Two	01	Nil	100%
129	A.C.B. 5 KVA	01	Two	01	Nil	100%
130	M.C.B. 16 amp.	01	Two	01	Nil	100%
131	Thyristor/IGBT controlled D.C. motor drive 1 HP with tacho- generator feed back arrangement.	01	Two	01	Nil	100%
132	Thyristor/IGBT controlled AC. motor drive VVVF control, 3 phase, 2 HP.	02	Two	02	Nil	100%
133	Lockers with 2 drawers (standard size)	04	Two	04	Nil	100%
134	Bench working 2.5 x 1.20 x 0.75 meter	01	Two	01	Nil	100%
135	Almirah 2.5 x 1.20 x 0.5 meter	01	Two	01	Nil	100%
136	Instructor's table	02	Two	02	Nil	100%
137	Instructor's Chair	02	Two	02	Nil	100%
138	Fire extinguisher	04	Two	04	Nil	100%
139	Fire buckets	04	Two	04	Nil	100%
140	Metal rack 100 x 150 x 45 cm	04	Two	04	Nil	100%

NOTE:-

1. For each unit a trainee tool kit from Sl.No.1 to 19 of "Tool Kit" and locker is required.
2. If two units are working simultaneously in any shift, additional shop's General Outfit, item from Sl. No. 1 to 98 of "Shop Tools" Instruments & Machinery" is required for second unit.
3. For each two units in a shift, one set of Machinery & Equipment form Sl. No. 99 to Sl. 140 are required.

000