

S No	Package No	Name of items	Specifications	Trade / Course for which it is required	Total Qty Required	NSQF Syllabus Serial No
1	1	Desktop Computer	CPU: 64 Bit i5 processor, Speed: 3 GHz RAM:-4 GB DDR-III , Hard disk - 1 TB, Wi-Fi Enabled. Network Card: Integrated Gigabit Ethernet, with USB Mouse, USB Keyboard and Monitor (19" Inch) Licensed Operating System and Antivirus compatible with trade related software.	COPA - 6 Mechanic Two & Three wheeler - 1	7 Nos	COPA - 01 MT&TW - 216
2	1	Pentium IV Computer	2.8 GHz , 1 GB RAM, 80 GB HDD, DVD Combo Drive, 21" Monitor, optical scroll mouse,multimedia key board, 32 bit LAN card with UPP port. necessary Drivers. etc.	ELECTRICIAN - 2	2 Nos	ELECTRICIAN - 135
3	1	Instructor's laptop with latest configuration pre-loaded with operating system and MS Office package.	Laptop• 10th Generation Intel® Core™ i7 processor• Intel® Core™ i7-10510U Processor (1.8 GHz base frequency, up to 4.9 GHz base with Intel® Turbo Boost Technology, 8 MB cache, 4 cores)• Windows 10 Home Single Language 64• 16 GB DDR4-2666 SDRAM (1 x 16 GB)• 512 GB PCIe® NVMe™ M.2 SSD• NVIDIA® GeForce® MX250 (2 GB GDDR5 dedicated)• 35.56 cm(14) diagonal FHD IPS micro-edge WLED-backlit multitouch-enabled edge-to-edge glass (1920 x 1080)• Wireless: Realtek Wi-Fi 5 (2x2) and Bluetooth® 5 combo• Audio Features : B&O, dual speakers, HP Audio Boost• Web cam : HD Camera with integrated dual array digital microphone	WELDER - 1 COPA - 1	2 Nos	WELDER - 94 COPA - 02
4	1	Digital Web Cam	color: Black/White , HD Support, Built in Microphone, 8MP image Resolution, Wireless interface, Night vision	COPA - 3	3 Nos	COPA - 11
5	1	DVD or Blu-Ray Writer	24X or higher external (usb)	COPA - 2	2 Nos	COPA - 12
6	1	Mini Dongle for Bluetooth devices Connection	Mini Bluetooth CSR 4.0 USB Dongle Adapter for Windows Computer, Compatibility -Windows 10, Windows 8, Windows 7, CSR 4.0 Dongle -Support Bluetooth voice and data transmission	COPA - 4	4 Nos	COPA - 20
7	1	Headphone &mic. set	Speaker Size : 40mm Frequency range : 20 - 20KHz Speaker impedance : 32 Ohm+15% Speaker sensitivity : 105 db+3db Microphone impedance : 2.2K Ohm Maximum power : 100 mw Standard Operating voltage : 4.5 v wire length : 1.8 Metres	COPA - 5	5 Nos	COPA - 21
8	1	MS Office	2016 (professional)	COPA - 25 Licenses	25 Licenses	COPA - 27
9	1	Antivirus for – clients / workstations in profile	validity of an year or more which should be renewed upon expiry	COPA - 25 Licenses	25 Licenses	COPA - 28
10	1	Tally	ERP 9	COPA - 13 Licenses	25 License	COPA - 33

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11	1	Online UPS	<p>5 KVA online UPS Technology : Microprocessor based Digital Control, IGBT bases, True on line double conversion, AC to DC conversion and then DC TO AC Waveform : Pure Sine Wave Input Voltage : 110-270 v Input Frequency : 45-55 Hz Input Power Factor : >0.90 Output Voltage : 208 v/220/230/240 V AC-Selectable Ouput Power Factor : 0.9 Output Frequency : 50 Hz Over Load on Batteries : 105 %-125% for at least 120 sec, if overload exceedsUPSshall go on in Bypass mode and auto recover on removal of load Display : LCD Alarms : Audible Alarms shgould be provided for mains fail, Battery low and fault conditions Operating Conditions : 0-40 deg C RH maximum, non condensing audible noise -50 dB at front 1 Meter. Cooling : Air forced type Software support : Novel Netware/UNIX/Windows NT/Solaris Batteries : SMF - VRLA type Backup Time/VAH : 5 Hours</p>	COPA - 1	1 No	COPA - 15
12	2	Network Laser Printer	<p>Laser Printer Monochrome - A4Printing : Black, Ports : 1 Hi-Speed USB 2.0; 1 Host USB; 1 Gigabit Ethernet 10/100/1000T network; 1 Wireless 802.11b/g/nNetwork ready : Standard (built-in Ethernet, Wi-Fi) Connectivity, standard : -1 Hi-Speed USB 2.0; 1 Host USB; 1 Gigabit Ethernet 10/100/1000T network; 1 Wireless 802.11b/g/</p>	Mechanic Two & Three wheeler - 1 COPA- 1 ELECTRICIAN - 1	3 Nos	MT&TW - 221 COPA - 09 ELECTICIAN - 136
13	2	Laser Printer	<p>Laser jet Printer Colour : A4 Size Multi Function Printer (MFP) •Printing : Colour •Print, copy, scan •Print Speed : 21 -30 PPM •Ethernet networking, USB, Wireless (Wi-Fi®), Wireless direct printing • Duplex Printing (Automatic) •Automatic document feeder, Front USB flash drive port</p>	COPA - 1	1 No	COPA - 8

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14	2	LCD projector with screen	<p>Projector 1 Lithium Polymer batteries required. Hardware Interface USB, HDMI, Response Time 3 Milliseconds Screen Size 24 Centimeters, Image Aspect Ratio 16:9, Image Contrast Ratio 120000:1, Aspect Ratio 16:10, Horizontal Resolution 854 Pixels, Max Vertical Resolution 480 Pixels, Noise Level 25 dB, Wattage 55 Watts, Power Source Battery Powered Battery Cell Composition Lithium Ion Speaker Output Channel Quantity 2, Total Usb Ports 2, Connector Type USB, HDMI Form Factor, Portable Should Include Rechargeable Battery & Remote With 3000 lumens</p> <p>Screen : Inlight 8 Feet x 6 Feet, 120 Inches Diagonal, In 4:3 Ratio Supports UHD-3D-4K Technology Universal Eyelets Type Projector Screen (Width 243 cm x 183 cm Height) with motorized</p>	Mechanic Two & Three wheeler - 1 WELDER - 1	2 Nos	MT&TW - 222 WELDER - 95
15	3	Wooden Work Bench	<p>2400 x 1200 x 900 mm Wooden leg size 4x4 Inch Wooden Top 1.5 Inch Thickness</p>	FITTER- 2	2 Nos	FITTER - 90
16	3	Lockers with 8 drawers (standard size).	6x3x1.5 feet	FITTER- 3	3 Nos	FITTER - 92
17	3	Wooden Working Bench	<p>2.5 m x 1.20 m x 0.75 m Wooden leg size 4x4 Inch Wooden Top 1.5 Inch Thickness</p>	ELECTRICIAN-1	1 No	ELECTRICIAN - 164
18	3	Metal Rack	100cm x 150cm x 45cm	ELECTRICIAN-4	4 Nos	ELECTRICIAN - 168
19	3	white board	4X6 feet	ELECTRICIAN-1	1 No	ELECTRICIAN - 171
20	3	Anvil 12 sq. inches working area with stand	Anvil 12 sq. inches working area with stand 50KG	WELDER- 1	1 No	WELDER - 65
21	3	Swage block	12X12X4 Inches	WELDER- 1	1 No	WELDER - 66
22	3	Wooden Work bench	<p>250 x 120 x 60 cm Wooden leg size 4x4 Inch Wooden Top 1.5 Inch Thickness</p>	Mechanic Two & Three wheeler- 2	2 Nos	MT&TW - 152
23	3	Computer Operator Chair	without arms mounted on castor wheels, adjustable height	Mechanic Two & Three wheeler - 2 COPA - 12	14 Nos	MT&TW - 214 COPA - 41

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24	3	Computer Table	laminated top 150X650X750 mm with sliding tray for key board and one shelf of storage	Mechanic Two & Three wheeler- 2	2 Nos	MT&TW - 215
25	3	Instructor Chair	with armrest mounted on castor wheels, adjustable height/Standard	COPA- 2	2 Nos	COPA - 38
26	3	Instructor Table	steel instructor table size 4'x2'x21/2' with one drawer and one cupboard and top laminated	COPA- 1	1 No	COPA - 38
27	3	Printer table	650X500X750 mm	COPA- 3	3 Nos	COPA - 42
28	3	White Board	Quartet Dry Erase Board, Porcelain, Magnetic Whiteboard, 4 x 6 Feet, Aluminum Frame	COPA- 1	1 No	COPA - 45
29	4	Vernier caliper	150 mm, L.C - 0.02mm	FITTER - 4	4 Nos	FITTER - 28
30	4	Surface plate C.I with Stand and Cover	600 x 600 mm	FITTER - 1	1 No	FITTER - 33
31	4	Out Side Micrometer	0 - 25 mm least count 0.01mm	ELECTRICIAN - 2	2 Nos	ELECTRICIAN - 72
32	4	Thermometer Digital	0° C - 150° C	ELECTRICIAN - 1	1 No	ELECTRICIAN - 73
33	4	Cylinder bore gauge	20 to 160 mm capacity	Mechanic Two & Three wheeler - 1	1 No	MT&TW - 44
34	4	Tyre pressure gauge with holding nipple	0 to220 psi	Mechanic Two & Three wheeler -2	2 Nos	MT&TW - 142
35	4	Vacuum gauge	0 to 760 mm of Hg	Mechanic Two & Three wheeler -2	2 Nos	MT&TW - 143
36	4	Compression testing gauge suitable for petrol engine. with standard accessories	50 to 300 psi /0 to 20kg/cm2	Mechanic Two & Three wheeler - 2	2 Nos	MT&TW - 42
37	5	Ohm Meter; Series Type & Shunt Type, portable box type	50/2000-ohm analog	ELECTRICIAN - 2 Nos. Each	2 each	ELECTRICIAN - 94
38	5	Digital Multi Meter	DC 200mv -1000v,0 - 10A & AC, 200mv- 750v , 0-10A, resistance 0-20MΩ and 3 1/2 digit	ELECTRICIAN - 10	10 Nos	ELECTRICIAN - 95
39	5	A.C. Voltmeter M.I. analog, portable box type housed in Bakelite case	Multi range 75 V - 150V - 300V -600V	ELECTRICIAN - 3	3 Nos	ELECTRICIAN - 96

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40	5	Milli Voltmeter centre zero analog, portable box type housed in Bakelite case	100 - 0 - 100 mV	ELECTRICIAN - 1	1 No	ELECTRICIAN - 97
41	5	Ammeter MC analog, portable box type housed in Bakelite case	0 - 500 mA, 0-5 A, 0-25 A	ELECTRICIAN - 2 Nos each	2 each	ELECTRICIAN - 98
42	5	AC Ammeter MI, analog, portable box type housed in Bakelite case	0 - 1 A, 0-5 A, 0-25 A	ELECTRICIAN - 2 Nos each	2 each	ELECTRICIAN - 99
43	5	Kilo Wattmeter Analog portable type housed in Bakelite case	0-1.5-3KW, pressure coil rating- 240v/440v, current rating-5A/10A	ELECTRICIAN - 2	2 Nos	ELECTRICIAN - 100
44	5	Digital Wattmeter	230 V, 1 KW, 50 Hz	ELECTRICIAN - 2	2 Nos	ELECTRICIAN - 101
45	5	A.C. Energy Meter	Three Phase, 15 A , 440 V induction type	ELECTRICIAN - 1	1 No	ELECTRICIAN - 102
46	5	Power Factor Meter Digital	440 V, 20 A, Three Phase portable box type	ELECTRICIAN - 1	1 No	ELECTRICIAN - 104
47	5	Frequency Meter	45 to 55 Hz	ELECTRICIAN - 1	1 No	ELECTRICIAN - 105
48	5	Magnetic Flux Meter	0-500 tesla	ELECTRICIAN - 2	2 Nos	ELECTRICIAN - 106
49	5	Lux meter	lux meter LCD read out 0.05 to 7000 lumens with battery.	ELECTRICIAN - 2	2 Nos	ELECTRICIAN - 107
50	5	Tong Tester / Clamp Meter	0 - 100 A (Digital Type)	ELECTRICIAN - 1	1 No	ELECTRICIAN - 110
51	5	Megger	Analog - 500 V	ELECTRICIAN - 2	2 Nos	ELECTRICIAN - 111
52	5	Digital Multimeters	Digits of Resolution : 3.5 digits Max. Reading Speed : 5 readings /s Basic 1-Year DCV Accuracy : 0.5% Measurement Functions: <ul style="list-style-type: none"> • DCV and ACV • DCI and ACI • 2-wire resistance • Frequency • Capacitance • Diode test • Temperature • Continuity test with visual and audio alerts 	Mechanic Two & Three wheeler- 3 COPA - 4	7 Nos	MT&TW - 84 COPA - 18
53	6	Electric Induction plate	1500 Watt, 240V	ELECTRICIAN - 1	1 No	ELECTRICIAN - 126
54	6	Electric Kettle	1500 Watts, 240V	ELECTRICIAN - 1	1 No	ELECTRICIAN - 126

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55	6	Electric Iron	Automatic - 750 W, 240 V	ELECTRICIAN - 1	1 No	ELECTRICIAN - 126
56	6	Immersion Heater	1500 Watt, 240V	ELECTRICIAN - 1	1 No	ELECTRICIAN - 126
57	6	A.C. Ceiling Fan	68 Watt, 230 V	ELECTRICIAN - 1	1 No	ELECTRICIAN - 126
58	6	AC Table Fan	68 Watt, 230 V	ELECTRICIAN - 1	1 No	ELECTRICIAN - 126
59	6	Geyser (Storage type)	10 litre	ELECTRICIAN - 1	1 No	ELECTRICIAN - 126
60	6	Mixture & Grinder	750 W, 240 V	ELECTRICIAN - 1	1 No	ELECTRICIAN - 126
61	6	Washing Machine Semi Automatic	5 Kg, 240V	ELECTRICIAN - 1	1 No	ELECTRICIAN - 126
62	6	Motor Pump set	Centrifugal type 1 HP, 1 Phase, 240 V	ELECTRICIAN - 1	1 No	ELECTRICIAN - 126
63	6	Air conditioner	Split type 1.5 ton	COPA - 3	3 Nos	COPA - 43
64	7	Contactors & auxiliary contacts	3 phase, 415 Volt, 25 Amp with 2 NO and 2 NC	ELECTRICIAN - 2	4 Nos	ELECTRICIAN - 60
65	7	Limit Switch	Limit Switch, Liver operated 2A 500v, 2-contacts	ELECTRICIAN - 2	2 Nos	ELECTRICIAN - 62
66	7	Rotary Switch	16 A/440v	ELECTRICIAN - 2	2 Nos	ELECTRICIAN - 63
67	7	a. Cut out Relays	a. 16A, 440V	ELECTRICIAN - 2	2 Nos	ELECTRICIAN - 64
		b. Reverse current	b. 16A, 440V	ELECTRICIAN - 2	2 Nos	ELECTRICIAN - 64
		c. Over current	c. 16A, 440V	ELECTRICIAN - 2	2 Nos	ELECTRICIAN - 64
		d. Under voltage	d. 360V-440V	ELECTRICIAN - 2	2 Nos	ELECTRICIAN - 64
68	7	Pin Type, shackle type, egg type & suspension type insulators including hardware fitting		ELECTRICIAN - 2 Each	8 Nos	ELECTRICIAN - 65
69	7	Hydrometer	For L.A Battery	ELECTRICIAN - 1	1 No	ELECTRICIAN - 66

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70	7	Hand Drill Machine	0-6 mm capacity	ELECTRICIAN - 1	1 No	ELECTRICIAN - 67
71	7	Brake Test arrangement with two spring balance rating	0 to 25 kg	ELECTRICIAN - 1	1 No	ELECTRICIAN - 70
72	7	Laboratory Type Induction Coil	1000 W	ELECTRICIAN - 2	2 Nos	ELECTRICIAN - 71
73	7	Knife Switch DPDT fitted with fuse terminals	16 Amp	ELECTRICIAN - 4	4 Nos	ELECTRICIAN - 75
74	7	Knife Switch TPDT fitted with fuse terminals	16 Amp/ 440 V	ELECTRICIAN - 4	4 Nos	ELECTRICIAN - 76
75	7	Earth Plate	60cm X 60cm X 3.15mm Copper Plate	ELECTRICIAN - 1 Each	2 Nos	ELECTRICIAN - 78
			60cm X 60cm X 6mm GI Plate			ELECTRICIAN - 78
76	7	Earth Electrode	Primary Electrode 2100x28x3.25mm Secondary Cu Strip 20x5mm	ELECTRICIAN - 1	1 No	ELECTRICIAN - 79
77	7	Fuses	HRC	ELECTRICIAN - 4 Each	12 Nos	ELECTRICIAN - 82
			Glass			
			Rewire Type			
78	7	Rheostat (Sliding type)	0 - 25 Ohm, 2 Amp	ELECTRICIAN - 1 Each	4 Nos	ELECTRICIAN - 83
			0 - 300 Ohm, 2 Amp			
			0 -1 Ohm, 10Amp			
			0 -10 Ohm, 5 Amp			
79	7	Capacitors	Electrolytic	ELECTRICIAN - 2 Each	10 Nos	ELECTRICIAN - 84
			Ceramic			
			Polyester film			
			Variable			
			Dual run			
80	7	Various Lamps	Halogen Incandescent	ELECTRICIAN - 1 Each	6 Nos	ELECTRICIAN - 86
			Lamp Fluorescent tube			
			High-pressure sodium Lamp			
			HP mercury vapor Lamp			
			Low-pressure sodium Lamp			
			LED			
		Twisted Pair				

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81	7	Ribbon Cable	1 mtr each	ELECTRICIAN - 1 mtr Each	8 mtr	ELECTRICIAN - 88
		Metallic Sheathed Cable				
		Direct-Buried Cable				
		Underground Feeder Cable				
		Coaxial Cable				
Multi-Conductor Cable						
82	7	Bus bar with brackets	1 mtr each	ELECTRICIAN - 3	3 Nos	ELECTRICIAN - 89
83	7	Wheat Stone Bridge with galvanometer and battery	Wheat Stone Bridge Experimental setup	ELECTRICIAN - 2	2 Nos	ELECTRICIAN - 114
84	7	Phase Sequence Indicator	3 Phase, 415 V	ELECTRICIAN - 1	1 No	ELECTRICIAN - 116
85	7	Growler	230 V, 50 Hz, Single Phase, Adjustable jaws, Testing armature with ampere meter and testing probes.	ELECTRICIAN - 1	1 No	ELECTRICIAN - 117
86	7	Soldering Iron	25 Watt, 65 Watt and 120 Watt, 230 Volt	ELECTRICIAN - 2 Nos each	8 Nos	ELECTRICIAN - 121
87	7	Temperature controlled Soldering Iron	50 Watt, 230 Volt	ELECTRICIAN - 2	2 Nos	ELECTRICIAN - 122
88	7	Discrete Component Trainer	Discrete Component (for diode and transistor circuit) with regulated power supply +5,0- 5 V,+12 ,0-12 V	ELECTRICIAN - 1	1 No	ELECTRICIAN - 123
89	7	Voltage Stabilizer	AC Input - 150 - 250 V, 600 VA AC Output - 240 V, 10 A	ELECTRICIAN - 1	1 No	ELECTRICIAN - 129
90	7	DC Power Supply	0 - 30 V, 5 A	ELECTRICIAN - 2	2 Nos	ELECTRICIAN - 130
91	7	Solar panel with Battery	18 Watt	ELECTRICIAN - 1 Set	1 Set	ELECTRICIAN - 134
92	7	Wiring Board	3 meter x1 meter with 0.5 meter projection on the top	ELECTRICIAN- 1	1 No	ELECTRICIAN - 165
93	7	Portable electric drill Machine	0-6mm capacity	Mechanic Two & Three wheeler - 1	1 No	MT&TW - 101
94	8	DC Shunt Motor	2.5 KW, 220 V	ELECTRICIAN - 1	1 No	ELECTRICIAN - 141
95	8	Synchronous motor with accessories like starter, excitation arrangements.	3 Phase, 3 HP, 440V, 50Hz, 4 Pole	ELECTRICIAN - 1	1 No	ELECTRICIAN - 147

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96	8	Thyristor/IGBT controlled A.C. Motor drive with	VVVF control 3 Phase, 2 HP	ELECTRICIAN - 1	1 No	ELECTRICIAN - 149
97	8	Single phase Transformer, core type, air cooled	1 KVA , 240/415 V, 50 Hz	ELECTRICIAN - 1	1 No	ELECTRICIAN - 150
98	8	Used DC Generators-series, shunt and compound type for overhauling practice		ELECTRICIAN - 1	1 No Each	ELECTRICIAN - 154
99	8	Pillar Electric Drill Machine Motorized	12-20 mm Capacity, 1HP, 440V, 3 phase, Induction Motor with DOL starter, Bench Type	ELECTRICIAN - 1	1 No	ELECTRICIAN - 155
100	8	Manual Motor coil Winding Machine	With step arbor	ELECTRICIAN - 1	1 No	ELECTRICIAN - 159
101	8	Ceiling fan coil Winding Machine	250V, 50 Hz, 1-Φ, with speed control	ELECTRICIAN - 1	1 No	ELECTRICIAN - 160
102	8	Primary current injection set	220V, 50 Hz, 1-Φ, output current - 200 A (min) with timer	ELECTRICIAN - 1	1 No	ELECTRICIAN - 161
103	8	Shaded Pole Motor	Fractional HP, 240 V, 50 Hz	ELECTRICIAN - 1	1 No	ELECTRICIAN - 163
104	9	Motor vehicle (3 wheeler)	BS6 engine (Petrol & LPG) Max Power - 7.38 Kw(9.9 HP @ 4700 rpm Max Torque - 17.8 Newton Meter @ 2300 rpm Clutch type - Multiplate Wet Clutch Gear Box - Constant Mesh Gears - 4 Forward, 1 reverse Suspension - Front - Hydraulic Telescope with helical Compression Spring damper Rear- Hydraulic Telescope with Rubber Compression Spring damper Steering - Handle Bar Type Brake - Drum Brake, Hydrolicaly Actuated Internal expanding Shoe type Tyre - 4.50-10, 4 PR, Battery - 12V, 40Ah Wheel Base - 1920mm, Overall width - 1435mm Overall Length - 2880mm, Overall Height - 1920mm Max Ground Clearance - 200mm Seating Capacity - Driver + 3, Fuel Tank Capacity - 3 Litre, LPG Capacity - 20.6 Litre	Mechanic Two & Three wheeler - 1	1 No	MT&TW - 170

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105	10	Air Plasma cutting equipment	with all accessories, capacity to cut 12 mm clear cut Phase Three Phase Power Factor 0.7 Input voltage 415V - 50/60 Hz Input Power 7.0 Max KVA Current Range 80 Amp Cutting Capacity 12 mm Compressed Air Requirement 200 Ltr/Min @ 5 Bar	WELDER - 1	1 No	Welder - 45
106	10	Air compressor suitable for above air plasma cutting system.	Horse Power 3 HP Discharge Pressure 12 kg/cm2 Compressed Air Requirement 270 Ltr/Min @ 5 Bar Power Source AC Three Phase Number Of Compression Stages Single Stage	WELDER - 1	1 No	Welder - 46
107	10	Spot welding machine 15 KVA with all accessories	Material: Copper wire, Pure silicon stamping Package Contents: 1 Spot Welding Machine With 2 brass rod 14 Inches spot upto 12 gauge MS sheet	WELDER - 1	1 No	Welder - 48
108	10	Bench grinder fitted with fine grain size silicon carbide green grinding wheel	Abrasive material - green silicon carbide Power input 350w Speed- 3000/3600rpm grinding wheel 150 mm dia	WELDER - 1	1 No	Welder - 51
109	11	Steel Rule with metric & British graduation	150 mm, Stainless steel	FITTER - 33	33 Nos	FITTER - 1
110	11	Try Square.	150 mm blade	FITTER - 76	76 Nos	FITTER - 2
111	11	Caliper hermaphrodite spring type	150 mm	FITTER - 84	84 Nos	FITTER - 4
112	11	Scriber	150 mm	FITTER - 7	7 Nos	FITTER - 7
113	11	Screw driver	150mm insulated flat type	FITTER - 84	84 Nos	FITTER - 9
114	11	Hammer ball peen with handle	450 grams (1 lb)	FITTER - 84	84 Nos	FITTER - 11
115	11	Hammer ball peen with handle.	220 grams (1/2 lb)	FITTER - 84	84 Nos	FITTER - 12
116	11	File	Shape: Flat Grade: Second cut Size:250 mm	FITTER - 84	84 Nos	FITTER - 13
117	11	File	Shape: Flat Grade: Smooth Size:250 mm	FITTER - 32 ELECTRICIAN - 2	34 Nos	FITTER - 14 ELECTRICIAN - 53

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118	11	File	Shape: Half Round Grade: Second cut Size:150 mm	FITTER - 41	41 No	FITTER - 15
119	11	Hacksaw frame fixed type	300 mm	FITTER - 54 WELDER - 38	92 Nos	FITTER - 16 WELDER - 10
120	11	File	Shape: Knife Edge Grade: Smooth Size:150 mm	FITTER - 4	4 Nos	FITTER - 45
121	11	File	Shape: Triangular Grade: Smooth Size:200 mm	FITTER - 10	10 Nos	FITTER - 47
122	11	File	Shape: Square Grade: second cut Size:250 mm	FITTER - 2	2 Nos	FITTER - 49
123	11	Chisel cold flat	9 mm X 100 mm	FITTER - 10	1 No	FITTER - 79
124	11	Bench Vice	150 mm	FITTER - 20	20 Nos	FITTER - 89
125	11	Stainless steel rule	300mm	WELDER - 34 ELECTRICIAN - 10	44 Nos	WELDER - 7 ELECTRICIAN - 11
126	11	File	Shape: Half Round Grade: Bastard Size:300 mm	WELDER - 36	36 Nos	WELDER - 11
127	11	File	Shape: Flat Grade: Bastard Size:350 mm	WELDER - 42	42 Nos	WELDER - 12
128	11	Hammer ball pane	1 kg with handle	WELDER - 38	38 Nos	WELDER - 13
129	11	Spanner D.E.	6 mm to 32mm	WELDER - 2 Mechanic Two & Three wheeler - 4 ELECTRICIAN - 2	8 Nos	WELDER - 23 MT&TW-14 ELECTRICIAN - 42
130	11	First Aid box	First Aid box and Kit, size: 30x27x12cm, wall mounded, Red and White metal	WELDER - 1	1 No	WELDER - 34
131	11	Center Punch	10 mm. Dia. x 100 mm.	Mechanic Two & Three wheeler - 4	4 Nos	MT&TW - 4

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132	11	Hands file, Second cut flat	20 cm.	Mechanic Two & Three wheeler - 6	6 Nos	MT&TW - 8
133	11	Spanner, ring set of 12	Metric sizes 6 to 32 mm. BIS standard	Mechanic Two & Three wheeler - 4	4 Nos	MT&TW - 15
134	11	Spanners socket with speed handle, T-bar, ratchet and universal of 28 pieces with box	6 mm to 32 mm Socket and all accessories set BIS Standard	Mechanic Two & Three wheeler - 2	2 Nos	MT&TW - 16
135	11	Steel tool box with lock and key (folding type)	400x200x150 mm	Mechanic Two & Three wheeler - 6	6 Nos	MT&TW - 18
136	11	File	Shape: Flat Grade: Bastard Size:20 cm	Mechanic Two & Three wheeler - 4	4 Nos	MT&TW - 56
137	11	File	Shape: Half Round Grade: Second cut Size:20 cm	Mechanic Two & Three wheeler - 4 ELECTRICIAN - 2	6 Nos	MT&TW - 57 ELECTRICIAN - 49
138	11	File	Shape: Square Grade: Second cut Size:20 cm	Mechanic Two & Three wheeler - 4	4 Nos	MT&TW - 58
139	11	Hacksaw frame adjustable	20-30 cm	Mechanic Two & Three wheeler - 10 ELECTRICIAN - 2	12 Nos	MT&TW - 67 ELECTRICIAN - 32
140	11	Piston ring compressor	3 to 8 inches dia, BIS Standard	Mechanic Two & Three wheeler - 2	2 Nos	MT&TW - 94
141	11	Piston Ring expander and remover.	4 to 8 inches dia, BIS Standard	Mechanic Two & Three wheeler - 2	2 Nos	MT&TW - 95
142	11	Stud remover with socket handle	6mm to 12mm dia , BIS Standard	Mechanic Two & Three wheeler - 1	1 No	MT&TW - 132

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143	11	Taps and wrenches - Metric	Size - 6mm to 18mm with all accessories in complete set	Mechanic Two & Three wheeler - 2	2 Nos	MT&TW - 136
144	11	Measuring Steel Tape	5 meter	ELECTRICIAN - 42	42 Nos	ELECTRICIAN - 1
145	11	Combination Plier Insulated	200 mm	ELECTRICIAN - 42	42 Nos	ELECTRICIAN - 2
146	11	Screw Driver Insulated	4mm X 150 mm, Diamond Head	ELECTRICIAN - 42	42 Nos	ELECTRICIAN - 3
147	11	Screw Driver Insulated	6mm X 150 mm	ELECTRICIAN - 10	10 Nos	ELECTRICIAN - 4
148	11	Electrician screw driver thin stem insulated handle	4mm X 100 mm	ELECTRICIAN - 42	42 Nos	ELECTRICIAN - 5
149	11	Heavy Duty Screw Driver insulated	5mm X 200 mm	ELECTRICIAN - 10	10 Nos	ELECTRICIAN - 6
150	11	Electrician Screw Driver thin stem insulated handle	4mm X 250 mm	ELECTRICIAN - 42	42 Nos	ELECTRICIAN - 7
151	11	Punch Centre	9mm X 150 mm	ELECTRICIAN - 42	42 Nos	ELECTRICIAN - 8
152	11	Knife Double Bladed Electrician	100 mm	ELECTRICIAN - 10	10 Nos	ELECTRICIAN - 9
153	11	Neon Tester	500 V	ELECTRICIAN - 42	42 Nos	ELECTRICIAN - 10
154	11	Hammer, cross peen with handle	250 grams	ELECTRICIAN - 42	42 Nos	ELECTRICIAN - 12
155	11	Hammer, ball peen With handle	500 grams	ELECTRICIAN - 4	4 Nos	ELECTRICIAN - 13
156	11	Spanner Adjustable drop forged, SS	300mm	ELECTRICIAN - 2	2 Nos	ELECTRICIAN - 16
157	11	Blow lamp brass	0.5 ltr	ELECTRICIAN - 1	1 No	ELECTRICIAN - 17
158	11	Grease Gun	0.5 ltr. Capacity	ELECTRICIAN - 1	1 No	ELECTRICIAN - 21
159	11	Bradawl		ELECTRICIAN - 2	2 Nos	ELECTRICIAN - 22
160	11	Pully Puller with 3 legs	300mm	ELECTRICIAN - 1	1 No	ELECTRICIAN - 23
161	11	Bearing Puller (inside and outside)	200 mm	ELECTRICIAN - 1 No each	2 Nos	ELECTRICIAN - 24

S No	Package No	Name of items	Specifications	Trade / Course for which it is required	Total Qty Required	NSQF Syllabus Serial No
162	11	Scissors blade, SS	200mm	ELECTRICIAN - 4	4 Nos	ELECTRICIAN - 26
163	11	Crimping Tool	1.5 sq mm to 16 sq mm	ELECTRICIAN - 2	2 Nos	ELECTRICIAN - 28
			16 sq mm to 95 sq mm	ELECTRICIAN - 2	2 Nos	ELECTRICIAN - 28
164	11	Wire Cutter and Stripper	150 mm	ELECTRICIAN - 4	4 Nos	ELECTRICIAN - 29
165	11	Mallet hard wood	0.50 kg	ELECTRICIAN - 1	1 No	ELECTRICIAN - 30
166	11	Hammer Extractor type	250 grams	ELECTRICIAN - 2	2 Nos	ELECTRICIAN - 31
167	11	Hacksaw frame	Fixed 150 mm	ELECTRICIAN - 2	2 Nos	ELECTRICIAN - 32
168	11	Divider	150 mm spring type	ELECTRICIAN - 2	2 Nos	ELECTRICIAN - 36
169	11	Pliers long nose insulated	150 mm	ELECTRICIAN - 4	4 Nos	ELECTRICIAN - 37
170	11	Pliers flat nose insulated	200 mm	ELECTRICIAN - 4	4 Nos	ELECTRICIAN - 38
171	11	Pliers round nose insulated	100 mm	ELECTRICIAN - 4	4 Nos	ELECTRICIAN - 39
172	11	Tweezers	150 mm	ELECTRICIAN - 4	4 Nos	ELECTRICIAN - 40
173	11	Drill hand brace	0-100mm	ELECTRICIAN - 2	2 Nos	ELECTRICIAN - 43
174	11	Drill S.S. Twist block	2 mm, 5 mm and 6 mm set of 3	ELECTRICIAN - 3	3 Sets	ELECTRICIAN - 44
175	11	Plane cutters	50 mm X 200mm	ELECTRICIAN - 2	2 Nos	ELECTRICIAN - 45
176	11	Smoothing cutters	50 mm X 200mm	ELECTRICIAN - 2	2 Nos	ELECTRICIAN - 46
177	11	Gauge, wire imperial stainlees steel marked in SWG & mm	Wire Gauge - Metric	ELECTRICIAN - 2	2 Nos	ELECTRICIAN - 47
178	11	File flat	200mm 2nd cut with handle	ELECTRICIAN - 6	6 Nos	ELECTRICIAN - 48
179	11	File round	200 mm 2nd cut with handle	ELECTRICIAN - 2	2 Nos	ELECTRICIAN - 50

S No	Package No	Name of items	Specifications	Trade / Course for which it is required	Total Qty Required	NSQF Syllabus Serial No
180	11	File flat rough	150 mm with handle	ELECTRICIAN - 2	2 Nos	ELECTRICIAN - 51
181	11	File flat bastard	250 mm with handle	ELECTRICIAN - 2	2 Nos	ELECTRICIAN - 52
182	11	File Rasp, half round	200 mm bastard with handle	ELECTRICIAN - 2	2 Nos	ELECTRICIAN - 54
183	11	Copper bit soldering iron.	0.25 kg	ELECTRICIAN - 2	2 Nos	ELECTRICIAN - 55
184	11	Hand Vice	50 mm jaw	ELECTRICIAN - 3	3 Nos	ELECTRICIAN - 57
185	11	Table Vice	100 mm jaw	ELECTRICIAN - 4	4 Nos	ELECTRICIAN - 58
186	11	Oil Can	250 ml	ELECTRICIAN - 1	1 No	ELECTRICIAN - 59
187	11	Crimping Tool	RJ-45	COPA - 5	5 Nos	COPA - 16
188	11	Screw Driver Set	<ul style="list-style-type: none"> • Contents : 1 x Jackly 31 in 1 Screwdriver Toolkit • Material : Plastic • Colour : Yellow • Product Dimensions : 5.5 x 5.5 x 12 cm • Weight : 200 g 	COPA - 4	4 Nos	COPA - 19
189	11	LAN Tester	LAN Tester UTP cat5 cable tester (RJ 45)	COPA - 5	5 Nos	COPA - 25
190	11	Punching Tool	Cable Cat5 RJ11 RJ45 Network Punch Down Impact Tool	COPA - 5	5 Nos	COPA - 26
191	11	Cleaning tray	45x30 cm. Aluminum	Mechanic Two & Three wheeler - 4	4 Nos	MT&TW - 41
192	11	Bench Vice	12cm Jaw	Mechanic Two & Three wheeler - 4	4 Nos	MT&TW - 152
193	11	Fire extinguishers	CO2 type Fire extinguishers, Capacity- 2kg	WELDER- 1 COPA -2	3 Nos	WELDER - 69 COPA - 47
194	11	Fire Buckets	Standard size - Capacity : 9 Ltrs	COPA - 2	2 Nos	COPA - 48
195	11	Rubber mat	2' x 4' x 1"	ELECTRICIAN - 2	2 Nos	ELECTRICIAN - 90
196	11	Electrician Helmet	Yellow Colour	ELECTRICIAN - 2	2 Nos	ELECTRICIAN - 91
197	11	Safety Belt	Standard quality	ELECTRICIAN - 2	2 Nos	ELECTRICIAN - 93

S No	Package No	Name of items	Specifications	Trade / Course for which it is required	Total Qty Required	NSQF Syllabus Serial No
198	12	Compressor unit	suitable for Pressure: 8 bar, Delivery: 50 lpm (or more), Reservoir capacity: 24 Litres (or more), 230V, 50 Hz, with pressure regulator and water separator	FITTER -1	1 No	FITTER - 197
199	12	Pneumatic Trainer Kit, each consisting of the following matching components and accessories:		FITTER - 1 set	1 Set	FITTER - 198
200	12	I. Single acting cylinder	Max. stroke length 50 mm, Bore dia. 20 mm	FITTER	1 No	
		II. Double acting cylinder	Max. stroke length 100 mm, Bore dia 20 mm, magnetic type	FITTER	1 No	
		III. 3/2-way valve	manually-actuated, Normally Closed	FITTER	2 Nos	
		IV. 3/2-way valve	pneumatically-actuated, spring return	FITTER	1 No	
		V. One-way flow control valve		FITTER	2 Nos	
		VI. 5/2-way valve	with manually-operated switch	FITTER	1 No	
		VII. 5/2-way valve	pneumatically-actuated, spring return	FITTER	1 No	
		VIII. 5/2-way pneumatic actuated valve	double pilot	FITTER	1 No	
		IX. 3/2-way roller lever valve	direct actuation Normally Closed	FITTER	2 Nos	
		X. Shuttle valve (OR)	Qn=80-800 per min, Input - M5-G 1/4, Output M5-G 1/4	FITTER	1 No	
		XI. Two-pressure valve (AND)	Input - M5-G 1/8, Output M5-G 1/8	FITTER	1 No	
		XII. Pressure gauge	0-16 bar	FITTER	1 No	
		XIII. Manifold with self-closing	NRV, 6-way	FITTER	1 No	
		XIV. Pushbutton station for electrical signal input	with 3 illuminated momentary-contact switches (1 NO + 1 NC) and 1 illuminated maintained- contact switch (1 NO + 1 NC), Contact load 2A	FITTER	1 No	
		XV. Relay station	with 3 relays each with 4 contact sets (3NO+1NC or Change-over type), 5 A	FITTER	1 No	
		XVI. 3/2-way single solenoid valve	with LED	FITTER	1 No	
		XVII. 5/2-way single solenoid valve	with manual override and LED	FITTER	1 No	

S No	Package No	Name of items	Specifications	Trade / Course for which it is required	Total Qty Required	NSQF Syllabus Serial No
		XVIII. 5/2-way double solenoid valve	with manual override and LED	FITTER	1 No	
		XIX. Power supply unit,	Input voltage 85 – 265 V AC, Output voltage: 24 V DC, Output current: max. 4.5 A, short-circuit-proof.	FITTER	1 No	
		XX. Profile plate, Anodised Aluminium	1100x700 mm, with carriers, mounting frames and mounting accessories (To be fitted onto the pneumatic workstation)	FITTER	1 Set	
201	12	Pneumatic Workstation with 40 square mm aluminium profile legs, wooden work surface, and one pedestal drawer unit having 5 drawers, each with handles and individual locks, on metallic full panel drawer slide:	(1) Worktable – Size (Approx.) L1200mmXW900mmXH900 mm, with four castor wheels including two lockable wheels at the front side, (2) Drawer – Size (Approx.) – L460mmxW495mm xH158mm each, and overall size of Drawer unit (Approx.) L470mmxW495mmxH825m m and (3) Drawer slide height (Approx.) 85mm.	FITTER - 1	1 No	FITTER - 199
202	12	Carrier for mounting components, such as PB & relay boxes.	221-502/000-004, WAGO Black, 2 cond TB	FITTER - 1	1 No	FITTER - 200
203	12	Cut section model for pneumatic components		FITTER	1 Set	FITTER - 201
		Hydraulic Trainer Kit, each consisting of the following matching components and accessories:		FITTER	1 No	FITTER - 202
		I. Hydraulic Power pack	with (1) external gear pump having a delivery rate of 2.5 lpm, (approx.) @ 1400 rpm operating pressure 60 bar, coupled to a single-phase AC motor (230 V AC) having start capacitor and ON/OFF switch and overload protection, (2) pressure relief valve adjustable from 0 – 60 bar, (3) oil reservoir, ≥5 litres capacity having sight glass, drain screw, air filter, and P and T ports.	FITTER	1 No	
		II. Pressure relief valve	pilot-operated	FITTER	1 No	
		III. Drip tray, steel	size 1160 mm x 760 mm.	FITTER	1 No	
		IV. Pressure Gauge	Glycerin-damped, Indication range of: 0 – 100 bars	FITTER	1 No	
		V. Four-Way distributor	with five ports, equipped with a pressure gauge	FITTER	1 No	
		VI. Double acting hydraulic cylinder	with a control cam, Piston diameter16 mm, Piston rod diameter10 mm, Stroke length 200 mm.	FITTER	1 No	
		VII. Suitable Weight	for vertical loading of hydraulic cylinder	FITTER	1 No	

204	12	VIII. Mounting kit for weight	for realizing pulling and pushing load.	FITTER	1 No	
		IX. 3/2-way directional control valve	with hand lever actuation.	FITTER	1 No	
		X. 4/2-way directional control valve	with hand lever actuation.	FITTER	1 No	
		XI. 4/3-way directional control valve	closed-centre position, with hand lever actuation.	FITTER	1 No	
		XII. Non-return valve.				
		XIII. Pilot-operated check valve	Pilotto open.	FITTER FITTER	1 No 1 No	
		XIV. One-way flow control valve	Withintegrated check valve.	FITTER	1 No	
		XV. T-Connector with self-sealing coupling nipples (2 Nos.) and quick coupling socket (1 No.).		FITTER	2 Nos	
205	12	XVI. Profile plate,	Anodised Aluminium, 1100x700 mm, with carriers, mounting frames and mounting accessories (To be fitted onto the Hydraulic workstation)	FITTER	1 Set	
		Hydraulic Workstation with 40 square mm aluminium profile legs, wooden work surface, and one pedestal drawer unit having 5 drawers, each with handles and individual locks, on metallic full panel drawer slide:	(1) Worktable - Size (Approx.) L1200mmxW900mmxH900 mm, with four castor wheels including two lockable wheels at the front side, (2) Drawer - Size (Approx.) - L460mmxW495mm xH158mm each, and overall size of Drawer unit (Approx.) L470mmxW495mmxH825m m and (3) Drawer slide height (Approx.) 85mm.	FITTER - 1	1 No	FITTER - 203
206	12	Cut-section models for hydraulic components		FITTER - 1	1 No	FITTER - 204

Sd/..
Director of Employment and Training

// Forwarded by order //

K. R. Shetty
For Director of Employment and Training

30/09/20

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