

**GOVERNMENT I.T.I (GIRLS), VENKATESWARAPURAM, NELLORE
S.P.S.R.NELLORE (DISTRICT)**

Available MECHANIC (REF. & AC) TRADE TOOLS/MACHINERY/EUIPMENT (as per syllabus)

A. TRIANEES TOOL KIT

SL NO	Name of the Tools/Equipment/Machinery	Quantity per Unit	No. of Units	Total Quantity
1	2	3	4	5
1	File flat rough double cut, 200mm	21 No's	2(1+1)units	42 No's
2	File, half round, fine double cut, length 150mm	21 No's	2(1+1)units	42 No's
3	File, round, fine double cut length, 150 mm	21 No's	2(1+1)units	42 No's
4	File flat, fine double cut, length 150 mm	21 No's	2(1+1)units	42 No's
5	File square, fine double cut,length 150mm	21 No's	2(1+1)units	42 No's
6	File triangular fine double cut length 150mm	21 No's	2(1+1)units	42 No's
7	Scriber150mm length	21 No's	2(1+1)units	42 No's
8	Centre punch length 100mm	21 No's	2(1+1)units	42 No's
9	Try square 150 mm	21 No's	2(1+1)units	42 No's
10	Divider spring joint length 150mm	21 No's	2(1+1)units	42 No's
11	Caliper spring joint in side length 150mm	21 No's	2(1+1)units	42 No's
12	Caliper, odd leg, spring joint length 150mm	21 No's	2(1+1)units	42 No's
13	Hammer ball pain 220gms	21 No's	2(1+1)units	42 No's
14	Cold Chisel flat and cross cut length 150mm	21 No's	2(1+1)units	42 No's
15	Engineers rule 300mm long	21 No's	2(1+1)units	42 No's
16	Tape measuring 10m graduation in mm	21 No's	2(1+1)units	42 No's
17	Pliers combination insulated length 200mm	21 No's	2(1+1)units	42 No's
18	Pliers long nose 200 mm (215 mm)	21 No's	2(1+1)units	42 No's
19	Pliers flat nose 150mm	21 No's	2(1+1)units	42 No's
20	Line tester 500V heavy duty	21 No's	2(1+1)units	42 No's
21	Tweezers 10 cm	21 No's	2(1+1)units	42 Nos
22	Surface plate 45 x45 cms	1 No.	2(1+1)units	1 No.
23	Oil can 500 ml	5 No's.	2(1+1)units	5 No's.
24	Surface Gauge universal 150 mm	5 No's.	2(1+1)units	5 No's.
25	Bench vice 300mm jaw	10 No's.	2(1+1)units	10 No's.
26	Hack saw tubular metal frame adjustable 300 mm	10 No's.	2(1+1)units	10 No's.
27	Snip sheet metal straight nose 200mm	10 No's.	2(1+1)units	10 No's.
28	Snip sheet metal curved nose 200 mm	10 No's.	2(1+1)units	10 No's.
29	Anvil 100X200mm	1 No.	2(1+1)units	1 No.
30	Stakes [different Types] 100mm,	1 No each	2(1+1)units	1 No each
31	Tin smith 400mm	1 No.	2(1+1)units	1 No.
32	Wooden mallet /Nylon mallet 500 gm good finish	5 Nos.	2(1+1)units	5 Nos.
33	Round Punch 3mm,4mm,6mm	5 Nos. each	2(1+1)units	5 Nos each
34	Grover set 4mm forming	1 set	2(1+1)units	1 set

SL NO	Name of the Tools/Equipment/Machinery	Quantity per Unit	No. of Units	Total Quantity
35	Electrical drill portable drill with chuck and key, capacity 6.4mm	5 No's.	2(1+1)units	5 No's.
36	Tape measuring graduation in mm 2m	5 No's.	2(1+1)units	5 No's.
37	Screw driver, plastic handle, 6mm TIP length 100mm to 150 mm	6 No's	2(1+1)units	6 No's
38	Screw driver, plastic handle, Flat tip 10mm, tip length 200 mm & 250 mm	6 No's each	2(1+1)units	5 No's each
39	Philips screw driver complete set in leather case	5 No's.	2(1+1)units	5 No's.
40	Screw driver, plastic handle, Flat tip handle 3mm TIP length 100mm to 150 mm insulated	5 No's	2(1+1)units	5 No's
41	Soldering iron exchangeable copper tip 65watt	10 No's.	2(1+1)units	10 No's.
42	Knife folded stainless steel –150mm	10 No's.	2(1+1)units	10 No's.
43	Tong tester (clamp on multi meter) 0-10-30 amps 0-500 v	5 No's.	2(1+1)units	5 No's.
44	Voltmeter, AC/DC portable precision grade Digital Panel board type 0 to 500 volt	5 No's.	2(1+1)units	5 No's.
45	Ammeter, AC/DC portable precision grade Digital Panel board type 0 to 30 amp	5 No's.	2(1+1)units	5 No's.
46	Megger 1000v	5 No's.	2(1+1)units	5 No's.
47	Wattmeter multi-range up to 1 KW	1No.	2(1+1)units	1No.
48	Multimeter digital type	5 No's.	2(1+1)units	5 No's.
49	Tenon saw 250 mm	5 No's.	2(1+1)units	5 No's.
50	Firmer chisel 6,12,25mm	2 No's.	2(1+1)units	2 No's.
51	Rawal plug tool 6 mm	2 No's.	2(1+1)units	2 No's.
52	K.W. meter 0 -1 K W	4 No's.	2(1+1)units	4 No's.
53	Fire extinguisher ABC dry powder type2 kg capacity	1 No.	2(1+1)units	1 No.
54	Fire buckets 10 litres	1 No.	2(1+1)units	1 No.
55	D.E spanner 6-32mm	5 Set	2(1+1)units	5 Set
56	Ring spanner 6-32mm	5 Set	2(1+1)units	5 Set
57	Diagonal cutter 15cm	5 No's.	2(1+1)units	5 No's.
58	Service Oscillator	1 No.	2(1+1)units	1 No.
59	C.R.O Single beam 5 MHZ	2 No's.	2(1+1)units	2 No's.
60	C.R.O Dual trace/ Double beam 60 MHZ	2 No's	2(1+1)units	2 No's
61	A.F.O Oscillators	2 No's.	2(1+1)units	2 No's.
62	Tong, Close mouth and pick up	1 No.	2(1+1)units	1 No.
63	Welding table for gas/Arc 1200x760	1 each	2(1+1)units	1 each
64	Flaring tool set, single type for tube. 4.7mm to 16mm OD	5 No's.	2(1+1)units	5 No's.
65	Swaging tool, punch type, set of size for tube. 4.7 mm to 16 mm OD	5 Sets	2(1+1)units	5 Sets
66	Swaging tool, screw type with adaptor set of size for tube 4.7 mm to 16 mm OD	5 Sets	2(1+1)units	5 Sets
67	Bending spring external type, for copper tube 3mm to 16mm DIA	5 Sets	2(1+1)units	5 Sets
68	Pipe cutter miniature for copper tube 3mm to 16mm DIA	5 Sets	2(1+1)units	5 Sets

SL NO	Name of the Tools/Equipment/Machinery	Quantity per Unit	No. of Units	Total Quantity
69	Pinch of tool, for copper tube, 6mm to 18mm DIA	5 Sets	2(1+1)units	5 Sets
70	Ratchet spanner of 6.4 sq.mm reversible	5 Sets	2(1+1)units	5 Sets
71	Capillary plug gauge	5 Sets	2(1+1)units	5 Sets
72	Piercing pliers & reversing valve with access fitting 6-18 mm	5 Sets	2(1+1)units	5 Sets
73	Spanner double ended 4.7mm to 16mm	5 Sets	2(1+1)units	5 Sets
74	Ring spanner off set 4.7mm to 16mm	5 Sets	2(1+1)units	5 Sets
75	Wrench adjustable length 150mm	5 Sets	2(1+1)units	5 Sets
76	Wrench adjustable length 200mm	5 Sets	2(1+1)units	5 Sets
77	Wrench adjustable length 250mm	5 Sets	2(1+1)units	5 Sets
78	Valve key handle[Treated as consumable] – 4.7mm & 6.4mm sq.	5 Sets	2(1+1)units	5 Sets
79	Pressure gauge Digital type diameter 63mm with Recalibration set (dia 50mm) (Calibration screw not required in digital gauge)	5 Sets	2(1+1)units	5 Sets
80	Compound gauge, Digital type(diameter 63mm with recalibration set screw,scale vacuum 76 mm, pressur 15 kg/sq,cm(dia 50mm,0-500psi) calibration screw not requires in digital	5 Sets	2(1+1)units	5 Sets
81	Service man thermometer in metal case– 30 C to +30 C	5 Sets	2(1+1)units	5 Sets
82	Scissor, gasket cutting stainless steel length 25mm	5 Sets	2(1+1)units	5 Sets
83	L-Allen key set size 1.5mm to 6.4mm	5 Sets	2(1+1)units	5 Sets
84	T-Allen key set size 5/32” to 1/8”	5 Sets	2(1+1)units	5 Sets
85	Pipe cutter with built in reamer and space cutter, for copper tube 3mm to 32mm	5 No’s.	2(1+1)units	5 No’s.
86	Pipe /Tube bender lever type 3-16 mm	1 no each	2(1+1)units	1 no each
87	Spanner double ended 19mm to 31.8 mm	5 No’s.	2(1+1)units	5 No’s.
88	Pipe wrench size 50mm to 150mm	5 No’s.	2(1+1)units	5 No’s.
89	Gas leak detector for halogen gas Halide Torch	5 No’s.	2(1+1)units	5 No’s.
90	Sling psychro meter mounted on aluminium back,scale 50 C to +50 C	5 No’s.	2(1+1)units	5 No’s.
91	Lapping plate 250mm x 200mm	2 No’s.	2(1+1)units	2 No’s.
92	Hammer ball peen 450 gms	5 No’s.	2(1+1)units	5 No’s.
93	Puller 3 legged with flexible arm 300mm	5 No’s .	2(1+1)units	5 No’s .
94	Hand blower portable complete 1/10 HP	2 No’s.	2(1+1)units	2 No’s.
95	Spirit level precision metallic 200mm	2 No’s .	2(1+1)units	2 No’s .
96	Stop watch	2 No’s.	2(1+1)units	2 No’s.
97	Tap set with matching drills 3 mm to 16mm	3 No’s.	2(1+1)units	3 No’s.

SL NO	Name of the Tools/Equipment/Machinery	Quantity per Unit	No. of Units	Total Quantity
98	Tap set with matching drills ¼" to 5/8"	3 No's.	2(1+1)units	3 No's.
99	Refrigerant cylinder 2.5 Kg	3 No's.	2(1+1)units	3 No's.
100	Vernier caliper length 250mm	2 No's.	2(1+1)units	2 No's.
101	Micrometer outside measurement 0-25mm	2 No's .	2(1+1)units	2 No's .
102	Heating kit with infrared bulb (200 w capacity)	2 No's.	2(1+1)units	2 No's.
103	Plumbing hammer weight 200 gm	2 No's.	2(1+1)units	2 No's.
104	Multimeter analogue type	5 No's.	2(1+1)units	5 No's.
105	Tachometer digital, multi range 0 r m p to 3000 r m p. Portable small size in leather case	2 No's.	2(1+1)units	2 No's.
106	Micron vacuum gauge capable of reading upto 20 microns	2 No's.	2(1+1)units	2 No's.
107	Sensor thermometer (digital) -50 degree Celsius to150 degree 23Celsius	2 No's.	2(1+1)units	2 No's.
108	Fin straightened/fin comb.(With strong steel wire based combing on wood)	3 No's.	2(1+1)units	3 No's.
109	Filler gauge 0.05mm-1mm	3 No's.	2(1+1)units	3 No's.
110	Wire gauge metric and with worth(Steel plate embossing converse of British & Metric)	2 No's.	2(1+1)units	2 No's.
111	Dial thermometer remote control, armored capillary dial 75mm – 50C to +50 C	3 No's.	2(1+1)units	3 No's.
112	Anemometer Digital type	1 No.	2(1+1)units	1 No.
113	Compressors testers for small hermetic compressors Fixed with electrical input/output indicating facilities	2 No's.	2(1+1)units	2 No's.
114	Engineers square 150mm with 5' tolerance	5 No's.	2(1+1)units	5 No's.
115	Digital thermometer [Treated as consumable] Graduated disc analogy type	1 No.	2(1+1)units	1 No.
116	Temperature &Humidity recorder Capacity to record 24 hrs record	1 No	2(1+1)units	1 No
117	Instrumentation screw driver set 100mm	5 No's.	2(1+1)units	5 No's.
118	Digital weighing machine 100kgs	1 No	2(1+1)units	
119	Cylinder 134 a 5 kg)	1 No's.	2(1+1)units	1 No's.

B.General Machinery Shop outfit

SL NO	Name of the Tools/Equipment/Machinery	Quantity per Unit	No. of Units	Total Quantity
1	Split phase induction motor ¼ hp, 230 V	1 No.	2(1+1)units	1 No.
2	Capacitor start induction motor ½ Hp, 230 V	1 No..	2(1+1)units	1 No..
3	AC 3 Phase motor, 400/50 Hz 2 Hp	1 No.	2(1+1)units	1 No.
4	Star delta starter 2 hp	1 No.	2(1+1)units	1 No.
5	Auto Transformer starter 3hp	1 No.	2(1+1)units	1 No.
6	D.O.L Starter 2 hp	1 No.	2(1+1)units	1 No.
7	Portable air – LPC brazing kit 2 kg. LPC cylinder, torches, houses, stand make	1 No.	2(1+1)units	1 No.
8	Oxy-acetylene welding set complete , cylinders,regulators welding torches with difference nozzles	1 No	2(1+1)units	
9	Refrigerator 165L carrying with HFC-134a &HC	2 Each	2(1+1)units	2 Each
10	Frost free Refrigerator 200L carrying with HC blend	2 No's	2(1+1)units	
11	Three/Four door refrigerator 300L carrying with HC R-600a	2 No's	2(1+1)units	
12	Bench Drilling machine 20 mm capacity,200-2500rpm	1 No..	2(1+1)units	1 No..
13	Grinding Machine 200mm,3000rpm,Double ended 1/2 hp	1 No.	2(1+1)units	1 No.
14	<p>Evacuating and refrigerant charging station, consist of</p> <p>a)Rotary two stage vacuum pump and motor (with gas ballast and anti such back)</p> <p>b) manifold with gauges and valves and capable of pulling vacuum up to 50 microns of Hg and with provision of connecting to a microns level vacuum gauge</p> <p>b)Graduated charging cylinder with provision for temperature correction and all necessary isolating valves (CAP. 2 kg. In lieu of (b) above and with accuracy of +/-1 g for charging hydrocarbons</p> <p>II) Evacuating and charging station as above but fitted with weighing scale)</p>	1 No..	2(1+1)units	1 No..

SL NO	Name of the Tools/Equipment/Machinery	Quantity per Unit	No. of Units	Total Quantity
15	Two stage rotary vacuum pump capacity approx. 60 – 10rpm capable of evacuating to 50 microns of Hg and fitted with gas ballast, anti such back valve and single phase motor	1 No	2(1+1)units	
16	Air compressor, two stage for oil – less dry air, with rush proof tank assembly, heater and controls max. pr. 10 kgs /sq.m Capacity 45 ltr. Motor 1 hp.	1 No.	2(1+1)units	1 No
17	Reciprocating compressor provision of capacity control etc. for demonstration. Capacity 9000Kcal/hr. semi hermetic open type.	1 No.	2(1+1)units	1 No.
18	Dry N2 in cylinder 2 stage regular or commercial N 2 in cylinder with drier unit and 2 stage regular 7meter cube	1 No..	2(1+1)units	1 No..
19	Window A.C 1 Ton with R-22 or HFC Blend reciprocating compressor	2 No's	2(1+1)units	
20	Split A.C. 1.5 Ton with R134a or R-22 reciprocating compressor	2No's	2(1+1)units	1No
21	Duct able split A.C 1.5 ton 1.5 Ton with R134a or R-22 reciprocating compressor	1 No.	2(1+1)units	1 No.
22	Recovery unit with cylinders (CFC & 134a	1 each.	2(1+1)units	1 each.
23	Cassette Air conditioner 4500 kcal/hr with R-404 .	1 No.	2(1+1)units	1 No.
24	De scaling pump set with stainless steel impeller and housing complete with motor 1/2 hp and accessories	1 No..	2(1+1)units	1 No..
25	Fan coil unit with watervalves(2 & 3 way)	1 No..	2(1+1)units	1 No..
26	Shell and tube, DX chillers (small) 5 Ton with Cu tubing only	1 No..	2(1+1)units	1 No..
27	Circulating water pump (small) 0.5 H.P with stainless steel tank capacity 20 litres with in let/ outlet provision.	1 No.	2(1+1)units	1 No.
28	Shell and tube type condenser 5 Ton	1 No	2(1+1)units	1 No
29	Rotary hermetic compressor 2 Ton	1 No.	2(1+1)units	1 No.
30	Screw compressor 5Ton	1 No	2(1+1)units	
31	Bottle cooler visible 200L carrying with HFC-134a & reciprocating compressor	1 No	2(1+1)units	
32	Deep freezer 200 L carrying with HFC-134a& reciprocating compressor	1 No..	2(1+1)units	1 No..
33	Water cooler storage type 200 L carrying with HFC-134a & reciprocating compressor	1 No.	2(1+1)units	1 No.
34	Ice candy plant 2 ton with capacity to make 32 ice candy at a time with Forma tray, stainless steel	1 No.	2(1+1)units	1 No.

	tank on trolley			
35	Air-conditioning, direct and indirect System.Complete with all controls including humidity control capacity 15000Kcal/Hr	1 No.	2(1+1)units	1 No.
36	Package A/C 5 ton capacity, Water cooled type with open type compressor reciprocating type	1 No.	2(1+1)units	1 No.
37	Car A.C components(full kit) a) Wobble plate compressor with mounting brackets. b)Serpentine Evaporator c) Parallel Flow Condenser d) Hoses, tubes, Receiver, Ex. valve. e)Electrical components & wiring Harness	1 Set	2(1+1)units	1 Set
38	CAR AC tutorial model	1 set	2(1+1)units	1 set

C. Workshop Furniture

SL NO	Name of the Tools/Equipment/Machinery	Quantity per Unit	No. of Units	Total Quantity
1	Class room table- one table for each trainee size of 2.5 provisions with open rack. Frame square conduit of 1" top ½" sun mica ply board	10 No's.	2(1+1)units	10 No's.
2	Work bench 2000x1000x700mm with 2" pipe frame.top with teak slab and fixing with ¾" good quality rubber sheet	6 No's.	2(1+1)units	6 No's
3	Almarah 195x90x48cm outer sheet 20SWG inner partition with four shelves of 22SWG	4 No's.	2(1+1)units	4 No's.
4	Lockers 195x90x48cm set six locker in one structure 20SWG inn	2 No's.	2(1+1)units	2 No's.
5	Glass board portable 2.5'x4' with stand	2 No's	2(1+1)units	2 No's
6	Instructor table 4'x2'x2.5' with steel tubular frame and sun mica top	1 No.	2(1+1)units	1 No.
7	Instructor chair standard revolving with wheel	1 No.	2(1+1)units	1 No.
8	Computer table standard with drawers & self to accomodate UPS & CPU	1 No.	2(1+1)units	1 No.
9	Computer chair revolving type metal based and metal wheel standard one	1 No.	2(1+1)units	1 No.

SL NO	Name of the Tools/Equipment/Machinery	Quantity per Unit	No. of Units	Total Quantity
10	White board 4'x3' ferrous base sheet to hold magnetic duster with white finish surface	1 No.	2(1+1)units	1 No.
11	Chart stand6'x3' providing with hanging clip top and bottom plate	1 No.	2(1+1)units	1 No.
12	Computer latest version with printer Ddr-3-1333MHzs, GB-6, Harddisk-1TB, processor –i5 second generation,laser jet, LED monitor 32"	1 No.	2(1+1)units	1 No.
13	LCD PROJECTOR/LED /LCD TV BIZ SIZE	1 No.	2(1+1)units	1 No
14	LAPTOP latest version	1 No.	2(1+1)units	1 No
15	UPS 650VA	1 sets	2(1+1)units	1 sets
16	Stool 2'x1.5'	10 No's.	2(1+1)units	10 No's
17	Bookshelf with glass panel	6'x3'	2(1+1)units	1 No..
18	Storage rack	6'x3'	2(1+1)units	2 No.
19	Storage shelf	6'x3'	2(1+1)units	2 No.