

ITI BURMAMINES JAMSHEDPUR
Requirment For COPA Trade

SL.No	Items (As per DGET Norms)	Quantity As per Syllabus	Quantity Available	Quantity Required
1	Antivirus for – clients / workstations in profile with validity of an year or more which should be renewed upon expiry	11	3	8
2	Tally ERP 9 or Latest	11	0	11
3	Digital Multimeters, 3.5 digit handheld type.	8	0	8
4	Standard Screw Driver Set	10	0	10
5	USB Mini Dongle for Bluetooth devices Connection	6	0	6
6	Bluetooth headphone &mic set	6	0	6

Requirment For FITTER Trade

SL.No	Items (As per DGET Norms)	Quantity As per Syllabus	Quantity Available	Quantity Required
1	Quenching tank (To be made in the Institute).	1	0	1
2	Spirit Level 15 cm metal	1	0	1
3	Gauge plug single 3 ended 5 to 55 by 5 mm. Set of 11 pcs.	1	0	1
4	Lathe tools bit 10 mm x 85mm.	4	0	4
5	Adjustable pipe chain tonge to take pipes up to 300 mm.	1	0	1
6	Screw thread micrometer with interchangeable 0-25mm. Pitch anvils for checking metric threads 60.	1	0	1
7	Digital Micrometer 0 – 25 mm outside. L.C. 0.001 mm	1	0	1
8	Surface roughness comparison plates N1-N12 grade (in set)	1	0	1
9	Digital Vernier caliper 0-150 mm. L.C. 0.001 mm.(Optional)	1	0	1
10	Drilling machine pillar sensitive 0-20 mm cap with swivel table motorised with chuck & key.	1	0	1
11	Forge portable hand blower 38 cm to 45 cm.	1	0	1

Requirement For Electronics Mechanic Trade

SL.No	Items (As per DGET Norms)	Quantity As per Syllabus	Quantity Available	Quantity Required
2	Function generator (Triangular, square and sine wave)	2	0	2
3	Or ELECTRONIC WORK BENCH Instead of sr no's (26,27,29,31,34)	2	0	2
4	Digital Multimeter (3 ½ digit)	20	12	8
7	Function generator (Triangular, square and sine wave)	2	0	2
8	Or ELECTRONIC WORK BENCH Instead of sr no's (26,27,29,31,34)	2	0	2
9	Laptops latest configuration	1	0	1
10	INTERNET BROADBAND CONNECTION	1	0	1
11	Electronic circuit simulation software with 6 user licenses	1	0	1
12	Different types of electronic and electrical cables, connectors, sockets, terminations.	as required		required
13	Different types of Analog electronic components, digital ICs, power electronic components, general purpose PCBs, bread board, MCB, ELCB	as required		required
14	Crimping tools as necessary for performing terminations mentioned week no 17-21 of SEMSTER-1	as required		required
15	DSO (colour)	1	0	1
16	SMD Soldering & De soldering Station with necessary accessories	2	0	2
17	DOL starter	1	0	1
18	AC motor ¼ HP	1	0	1
19	Or ELECTRICAL TRAINER FITTED WITH RESOURCES MENTIONED AT SI No (DOL starter, contactors, relays, MCB, Motor suitable for electrical control circuit exercises)	2	0	2
20	PAM, PPM,PWM trainer kit	2	1	1
21	Application kits for Microcontrollers 6 different applications(in set)	1	0	1
22	Sensor trainer kit (containing Various sensors like Thermocouple, RTD, Thermocouple, load cell, strain gauge, LVDT, smoke sensors, speed sensor)	2	0	2
23	Various analog and digital ICs useful for doing project works mentioned in the digital and analog IC applications modules	as required		required
24	Different types of electronic and electrical cables, connectors, sockets, terminations.	as required		required
25	SMPS of different make	4	1	3
26	UPS trainer	1	0	1
27	UPS 3 KVA with backup time minimum 30 minutes	1	0	1
28	Mobile phone (different models) at least one 3 G mobile	3	0	3

29	Smart phones of different make (android/Windows)	4	0	4
30	Precision set of screw drivers- T5, T6, T7	2	0	2
31	Tweezers – Bend tip	2	0	2
32	Cell phone power source with charger chords for different cell phones	1	0	1
33	LCD TV (21")	2	0	2
34	LED TV (21")	2	0	2
35	Solar Power Inverter 500VA	1	0	1
36	LED lighting system (in set)	2	0	2

Requirement For Turner Trade

A : TRAINEES TOOL KIT:-

SL.No	Items (As per DGET Norms)	Quantity As per Syllabus	Quantity Available	Quantity Required
1	Vernier Micrometer 0 - 25 mm o/s LC 0.001mm	3	0	3
2	Vernier Micrometer 25 - 50 mm outside reading 0.001mm	3	0	3
3	Vernier Micrometer 0 inch to 1 inch. Outside Reading 0.0001 inch	3	0	3
4	Bore dial gauge stems – 12 to 35 mm, 35 to 65 mm., dial gauge indicator of 0.01 accuracy. {IN SET}	2	0	2
5	Power saw machine – hydraulic feed system – 400 mm. Blade size.	1	0	1
6	LCD projector / large screen TV	1	0	1
7	Digimatic Electronic Vernier Caliper inch and mm 8"/200 mm. LCM 0.005"/0.001 mm	2	0	2
8	Digimatic electronic outside Micrometer (0 to 25 mm & 25 to 50 mm) LC 0.001 mm.	1	0	1

Requirement For ICTSM Trade

SL.No	Items (As per DGET Norms)	Quantity As per Syllabus	Quantity Available	Quantity Required
1	Screw driver 150mm	4	0	4
2	Steel rule 150mm	2	0	2
3	Laptop, Notebook (each)	1	0	1
4	Intel Mobile Desktop based PC with LCD monitor	1	0	1
5	Tablet	2	0	2
6	Printers:			

	deskjet	1	0	1
	passbook	1	0	1
	mfd	1	0	1
7	Network Printer	1	0	1
8	5KVA online UPS	2	0	2
9	LAN cards, wi-fi LAN cards(each)	6	0	6
10	LCD/DLP Projector(each)	1	0	1
11	Power Meter	2	0	2
12	Computer Toolkits	6	0	6
13	Motherboards (of different make)	4	0	4
14	Cabinets	4	0	4
15	Processors (of different make)	4	0	4
16	Hard Disk (500 GB or better) different types	4	0	4
17	Optical Drives	4	0	4
18	LCD/LED/TFT Monitors	2	0	2
19	Pen Drives	4	2	2
20	External Hard disk	2	0	2
21	Keyboards	4	2	2
22	Mouse	4	0	4
23	Anti static pads	4	0	4
24	Anti static wrist wraps	4	0	4
25	SMPS	4	0	4
26	External Hard Disk	2	0	2
27	Digital Camera	2	0	2
28	HD Display	2	0	2
29	Network storage	2	0	2
30	Card Reader	2	0	2
31	Game video card	2	0	2
32	Surround sound speakers	2	0	2
33	Different types of memory cards(each)	2	0	2
34	Laptop kits	12	0	12
35	Laptop spares: Cabinet with display, memory, hard Cabinet with display, memory, hard disk, battery pack, keyboard membrane, chargers	as required		required
36	SMPS Trainer kit	2	0	2
37	UPS Trainer kit	2	0	2
38	Power electronics Trainer kit	2	0	2
39	Post error debugging card	4	0	4
40	SMPS Tester	4	0	4
41	PCI slot Testing tool	4	0	4
42	Windows Server Operating System with licences	1	0	1
43	Network Management Software	1	0	1
44	Anti virus software	2	0	2
45	Data recovery software	2	0	2
46	LINUX Server Operating System (Samba / Su-se)	1	0	1
47	Open source Pc Utility / Tweak Software	As available		

48	Class room chairs	20	0	20
49	Air conditioners (optional)	2	0	2
50	Scanner	1	0	1
51	Telephone Line	1	0	1
52	Fire fighting equipments	as required		required
53	Hardware and Network Trainer Kit	6	0	6
54	Wireless Network Adapter	6	0	6
55	Wireless Access Point	4	0	4
56	Router	4	0	4
57	Managed Layer 2 Ethernet Switch 8/16/24 port	2	0	2
58	Managed Layer 3 Ethernet Switch 8/16/24 port	2	0	2
59	Network Training System	2	0	2
60	LAN Protocol Simulation and Analyser Software	2	0	2
61	Network and Internet security trainer	2	0	2
62	LAN cable tester	2	0	2
63	Network cables – UTP	as required		required
64	Network Cables – coaxial, flat, ribbon	as required		required
65	LAN Cards, wi-fi LAN Card(each)	5	0	5
66	Connectors for cables	as required		required
67	Power Meter	2	0	2
68	Media Convertor	4	0	4
69	8/16/24 port UTP jack panel	2	0	2
70	SC Couplers	12	0	12
71	SC Pigtails	12	0	12
72	Fluke Meter	2	0	2
73	Switch with POE ports	2	0	2
74	POE adapters	2	0	2
75	Network Camera (Outdoor / Indoor)(each)	2	0	2
76	Fibre Optics cable with LC connector	as required		required
77	LC connector module	as required		required

Requirment For Electrician Trade

SL.No	Items (As per DGET Norms)	Quantity As per Syllabus	Quantity Available	Quantity Required
1	Steel Tape, 15 m length	42	0	42
2	plier insulated mm	42	34	8
3	Plier Side Cutting, 150 mm	42	34	8
4	Screw Driver, 100 mm	42	34	8
5	Screw Driver, 150 mm	42	34	8
6	Electrician Connector, screw driver insulated handle thin stem, 100 mm	42	34	8
7	Heavy Duty Screw Driver , 200 mm	42	34	8

8	Electrician Screw Driver thin stem insulated handle, 250 mm	42	34	8
9	Punch Centre , 150 mm X 9 mm	42	34	8
10	Knife Double Bladed Electrician	42	34	8
11	Neon Tester	42	34	8
12	Steel Rule 300 mm	42	34	8
13	Hammer, cross peen with handle	42	34	8
14	Hammer, ball peen With handle	42	34	8
15	Gimlet 6 mm.	42	34	8
16	Bradawl	42	34	8
17	Scriber (Knurled centre position)	42	34	8
18	Pincer 150 mm	42	34	8
19	Pillar Electric Drill Machine 12 mm capacity	1	0	1
20	Pipe vice	4	2	2
21	Table Vice 100 mm jaw	8	0	8
22	Working Bench 2.5 m x 1.20 m x 0.75 m	4	0	4
23	Fire Extinguisher CO2, 2 KG	2	0	2
24	Metal Rack 100cm x 150cm x 45cm			
25	Lockers with 16 drawers standard size			
26	Hygrometer(in set)	1	0	1
27	Synchronous motor 3 Phase, 3 HP, 415V, 50Hz, 4 Pole, with accessories.	1	0	1
28	Lux meter	1	0	1
29	Inverter- 1 KVA with 12 V Battery	1	0	1
	Input- 12 volt DC,			
	Output- 220 volt AC			
30	Domestic Appliances – g. Mixture & Grinder	1	0	1
31	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	0	2
32	Ink jet/ laser printer	1		1
33	Motor Pump set 1 HP, 1 Phase, 240 V	1		1

Requirment For WELDER Trade

SL.No	Items (As per DGET Norms)	Quantity As per Syllabus	Quantity Available	Quantity Required
1	S.S Wire brush 5 rows and 3 rows			
2	Leather hand sleeves 16"			
3	Leg guards leather			

4	Rubber hose clips 1/2"			
5	Rubber hose oxygen 8 mm dia X 10 Mts long as per BIS			
6	Rubber hose acetylene 8 mm dia X 10 Mts long as per BIS			
7	Arc welding cables multi cored copper 400/600 amp as per BIS			
8	Arc welding single coloured glasses 108 mm x 82 mm x 3 mm. DIN 11A & 12 A			
9	Arc welding plain glass 108 mm x 82 mm x 3 mm			
10	Gas welding Goggles with Colour glass 3 or 4A DIN			
11	AG 4 Grinding wheels			
12	CO2 Gas pressure regulator, with flow meter			
13	Argon Gas pressure regulator with flow meter			
14	Metal rack 182 cm x 152 cm x 45 cm			
15	Steel lockers with 8 Pigeon holes			
16	Black board and easel with stand			
17	Flash back arrester (torch mounted)			
18	Flash back arrester (cylinder mounted)			
19	GMAW welding machine 400A capacity with air cooled torch, Regulator, Gas preheater, Gas hose and Standard accessories			
20	AC/DC GTAW welding machine with water cooled torch 300 A, Argon regulator, Gas hose, water circulating system and standard accessories			
21	Air Plasma cutting equipment with all accessories, capacity to cut 25 mm clear cut			
22	Air compressor suitable for air plasma cutting system			
23	Auto Darkening Welding Helmet			
24	Spot welding machine to 15 KVA with all accessories			
25	Portable gas cutting machine capable of cutting Straight & Circular with all accessories			
26	Pedestal grinder fitted with coarse and medium grain size grinding wheels dia. 300 mm			
27	Bench grinder fitted with fine grain size silicon carbide green grinding wheel dia. 150 mm			
28	AG 4 Grinder			

29	Suitable gas welding table with fire bricks			
30	Suitable Arc welding table with positioner			
31	Hand shearing machine capacity to cut 6 mm sheets and flats			
32	Portable drilling machine (Cap. 6 mm)			
33	Argon gas cylinder			
34	Swage block			
35	Die penetrant testing kit			
36	Magnetic particle testing Kit			
37	Portable abrasive cut-off machine			
38	Suitable Gas cutting table			
39	Welding Simulators for SMAW/GTAW/GMAW			

Requirement For DMM Trade

SL.No	Items (As per DGET Norms)	Quantity As per Syllabus	Quantity Available	Quantity Required
5	Chest of drawer 8 drawers(Standard)	2	0	2
6	Computer table	8	0	8
7	Computer chairs/stool	21	0	21
8	Table for server, printers (each)	1	0	1

Requirement For Raw material Trade

SL.No	Items (As per DGET Norms)
1	White Board Marker
2	Duster Cloth(2' by 2')
3	Cleaning Liquid 500 ml
4	Full Scape Paper (White)
5	PCB, solder flux etc & electronic components
6	Wires, cables Plug sockets switches of various types and other consumables
7	Resistors, Capacitors, Inductors, Diodes, LED, Transistors, Thyristors, ICs etc.
8	Spare Transformers and power devices required for servicing SMPS
9	Various types of Button Cells
10	Dry Cell
11	Hand Brush
12	Silicon grease

13	Heat sink agent
14	RAM 2GB
15	Cartridges for printer
16	Optical Mouse P/S2 or USB
17	P/S2 OR USB Key Board
18	SMPS
19	CMOS Battery
20	3 Pin Power Chord
21	Flat Cable
22	AAA battery for remote
23	AA battery for clock
24	8 GB pen drives
25	CDs
26	DVDs
27	Anti static pads
28	Anti static wrist wraps
29	Soldering wire and paste
30	Telephone cable
31	Co-axial cable
32	RJ-11 connector
33	BNC connector, T connector, terminator
34	Keystone jack
35	Patch / Jack Panel
36	Patch / Mounting cord
37	RJ-45 Info outlet with faceplate
38	RJ-45 I/O Box
39	RJ – 45 Cable extender
40	8-port HUB
41	LAN Card
42	Wi-fi LAN Card both PCI and USB
43	Display Card
44	USB to RJ-45 converter
45	RJ-45 to USB converter
46	USB HDD 1 TB
47	Drawing Sheet
48	Pencil Apsara HB,H,2H,3H
49	Eraser
50	Cello tape
51	Brown Paper Full scape
52	Pink Paper
53	Sand block paper
54	cover file
55	adhessive note
56	attendance register
57	M.S Rod Φ 63
58	ruled register 8,10,12
59	filler rod

60	M.S Pipe Φ 50 3 mm thickness
61	White Board Marker Pen
62	Mobil (ST-33)
63	Counter Shinning Drill
64	SST Drill
65	Lubricant Oil For Gear Box
66	Cutting Oil (Coolant)
67	Square Rod
68	Grease
69	Mobil-Oil
70	Emery Cloth of '0' No.
71	Apron (Leather)
72	A3 Paper
73	Legal Paper
74	One way Switch
75	One way Switch
76	Two way Switch
77	3-Pin Plug
78	Pendent Holder
79	Batten Holder
80	Angle Holder
81	Kit-Kat Fuse
82	Indicator
83	Wooden Round Block
84	Wooden Screw
85	Tumbler Switch
86	Bulb
87	Intermediate Switch
88	Flourescent Tube
89	Starter
90	Choke
91	DPIC Switch
92	TPIC Switch
93	Porcelain Cleat 2-Way & 3-Way
94	Teak Wood Batten
95	Joint Clip
96	Nail (No.-17)
97	PVC Conduit
98	PVC Junction Box 3-way
99	PVC Junction Box 4-way
100	PVC Saddle
101	PVC Tee
102	PVC Bend
103	Ceiling Rose
104	PVC wire Al and Cu
105	PVC Cu and Al wire
106	PVC Cu and Al wire

107	PVC Cu and Al wire
108	VIR Cu and Al wire
109	VIR Cu and Al wire
110	PVC Cu and Al wire
111	Cu or GI wire
112	Winding wire
113	PVC Insulation Tape
114	Soldering Solder
115	Soldering Flux
116	Fine Solder
117	Capacitor
118	CFL
119	Flexible Wire
120	Synthetic Vernish
121	Drawing Sheet 72th lbs
122	Pattern Paper
123	Brown Paper
124	Colour Chuck
125	Tracing Paper Polyster
126	Rottering Pen
127	Rottering Extencil
128	Duster Cloth
129	Cleaning Liquid
130	Full Scape Paper
131	Anti Static Pad
132	Anti Static Wrist Wraps
133	RJ-11 Connector
134	BNC Connector, T Connector, Terminator
135	Keystone Jack
136	Patch/Jack Panel
137	Patch/Mounting Card
138	RJ-45 Info outlet with Face plate
139	RJ-45 I/O Box
140	RJ-45 Cable Extender
141	8-Port Hub
142	Display Card
143	USB to RJ-45 Converter
144	RJ-45 to USB Converter
145	Laser Toner Cartridge for HP Laser Jet P1606dn Printer
146	Canon Xerox Machine Cartridge
147	Parssion Blue
148	Electrolyte
149	Cutting Paste
150	Miniture Circuit Breaker (MCB)
151	Lead Acid Battery
152	Mask

153	Hose Pipe
154	Hose Pipe
155	Hose Pipe End Fitting
156	Hose Pipe Clamp
157	'V' Belt
158	Rubber Adhesive Liquid
159	Solution Paste (Rubber)
160	GI SHEET SWG 22
161	GI SHEET SWG 20
162	REVELT
163	SCREW
164	NUT & Bolt
165	BLOCK SHEET
166	BLOCK SHEET
167	TUBE COPPER
168	TUBE COPPER
169	CAPACITOR
170	SILVER BRAZING ROD
171	FLAIRING NUT
172	DEAD NUT
173	BRAZING CAW
174	SCHRADER VALVE
175	VOLTAGE TYPE WAC RELAY
176	AMP TYPE REFRIGERATOR RELAY
177	OLP
178	THIMBLE
179	SOLDERING PASTE
180	PVC TAPE
181	TAFLON TAPE
182	SURF
183	COTTON CLOTH
184	CONDUCTOR RELAY 3TF50
185	CONDUCTOR RELAY 3TF32
186	TIMER STAR DELTA
187	veni clean for coil cleaning
188	descaling hose pipe
189	float valves
190	float valves
191	paper comprsition gushet
192	rubber gushet
193	insulated wire
194	l sochet
195	u sochet
196	cabrication oil
197	greare while
198	R 22 Refrigerat
199	R 134 a refrigerat

200	R407 C REFRIGERAT
201	LUBRICATION OIL
202	LUBRICATION OIL
203	LUBRICATION OIL
204	9 VOLT BATTAEY
205	1.5 volt battary
206	white bord duster
207	paint (red, black,)
208	Emary paper
209	Emary paper
210	CTC
211	Terminal block
212	N2 Gas
213	N2 Adoptor
214	R22 Adoptor
215	Air blower
216	Pen Drive
217	HARD COKE OR COAL
218	ALUMINIUM SCRAPE
219	LEAD SCRAPE
220	BENTONITE
221	COAL DUST
222	FRENCH CHALK
223	CRUEIBLE
224	GASKIT SHEET
225	GASKIT SHEET
226	GASKIT SHEET
227	NUT, BOLT WITH WASHER
228	NUT, BOLT WITH WASHER
229	NUT, BOLT WITH WASHER
230	NUT, BOLT WITH WASHER
231	BRAZING BRASS ROD
232	GREASE
233	GEAR OIL
234	Car Radiator COOLANT
235	MOBIL
236	BRAKE OIL