

BILL OF MATERIAL (BOM) REQUIRED FOR EACH TRAINEE FOR THE FOLLOWING TRADES DURING THE ALL INDIA TRADE TEST OF CRAFTSMEN (ANNUAL PATTERN) UNDER CRAFTSMAN TRAINING SCHEME TO BE HELD IN THE MONTH OF AUGUST'2021

421. COMPUTER OPERATOR PROGRAMMING ASSISTANT***515. MECHANIC DIESEL**

- | | | | |
|--------|--|---|-------------|
| i. | Outside micrometers all range | | |
| ii. | Vernier caliper 300 mm | | |
| iii. | Air compressor | | |
| iv. | Air blow gun | | |
| v. | Multi cylinder Diesel engine in running condition | | |
| vi. | Exhaust 5 gas analyzer/smoke meters | | |
| vii. | Oil filter wrench | | |
| viii. | Engine oil | : | As required |
| ix. | Oil filter | | |
| x. | Cotton waste | : | As required |
| xi. | Waste cloth | : | As required |
| xii. | 12 volt Lead acid Battery | | |
| xiii. | Hydrometer | | |
| xiv. | Multi meter | | |
| xv. | Battery charger | | |
| xvi. | Multi cylinder Diesel engine | | |
| xvii. | V Block | | |
| xviii. | Surface Plate | | |
| xix. | Dial Gauge | | |
| xx. | Compression gauge for Diesel engine with std accessories | | |
| xxi. | Distilled water | : | As required |

991. DRAUGHTSMAN CIVIL (1st YEAR)

- | | | | |
|-------|--------------------------------------|---|-------------|
| i. | A2 size drawing sheet | : | As required |
| ii. | A4 size sheets | : | As required |
| iii. | Auto level / Dumpy level with tripod | | |
| iv. | Leveling staff | | |
| v. | Prismatic compass with tripod | | |
| vi. | Ranging rods | | |
| vii. | Peg | | |
| viii. | Mallet | | |
| ix. | Tape | | |

DRAUGHTSMAN CIVIL (2nd YEAR)

- | | | | |
|------|---|---|-------------|
| i. | Personal computer with AutoCAD software | : | One/trainee |
| ii. | A3Sheet | : | As required |
| iii. | A4Sheet | : | As required |

442. ELECTRICIAN (1st YEAR)

- | | | | |
|------|--|---|---------|
| i. | Milliam meters 0 - 500 mA | : | 03 Nos. |
| ii. | Milliam meters 0 - 30 mA | : | 01 No. |
| iii. | Variable DC Power supply unit 0 - 30 V /1A | : | 01 No. |
| iv. | Resistors 1K | : | 04 Nos. |

v.	Lug board / Bread Board	:	01 No.
vi.	Patch cords	:	As required
vii.	Insulated screw driver 200mm	:	01 No.
viii.	Connector screw driver 100mm	:	01 No.
ix.	Voltmeter M.I. 100V	:	01 No.
x.	Voltmeter M.I. 150V	:	01 No.
xi.	Wattmeter 250V, 5A - 1250W	:	01 No.
xii.	Ammeter M.I. 5A	:	01 No.
xiii.	Frequency meter 45 to 55Hz	:	01 No.
xiv.	Combination plier 200 mm	:	01 No.
xv.	Neon tester 500 V	:	01 No.
xvi.	Transformer 100/250V 1 kVA 50 Hz	:	01 No.
xvii.	Auto-transformer input 240V output 0 to 270V, 5A	:	01 No.
xviii.	Knife switch DPST 16A, 240V	:	01 No.
xix.	Connecting cables	:	As required
xx.	Combination pliers 150mm	:	01 No
xxi.	Wire stripper 150 mm	:	01 No
xxii.	M.I. test Voltmeter 0-300V	:	01 No
xxiii.	Standard Voltmeter	:	01 No
xxiv.	Rheostat 100□/5W	:	01 No
xxv.	Variac 0-300V/5A	:	01 No.
xxvi.	Connecting leads	:	As required
xxvii.	Screw driver 150 mm	:	01 No.
xxviii.	Combination plier 150 mm	:	01 No.
xxix.	M.I Ammeter type 0-1 amp	:	02 Nos.
xxx.	M.I Voltmeter type 0-500V	:	02 Nos.
xxxi.	TPN switch 16A 500V	:	01 No.
xxxii.	Lamp BC - 40W 240V	:	06 Nos.
xxxiii.	100W 240V	:	06 Nos.
xxxiv.	200W 240V	:	06 Nos.
xxxv.	Connecting leads	:	As required
xxxvi.	Insulated combination plier 150 mm	:	01 No.
xxxvii.	Insulated screwdriver - 200 mm x4mm	:	01 No.
xxxviii.	Insulated connector screw driver -100 mm	:	01 No.
xxxix.	Long round nose plier - 150 mm	:	01 No.
xl.	D.B. Electrician's knife 100 mm	:	01 No.
xli.	Test lamp 100 W, 250 V	:	01 no
xl.ii.	Tube light fitting 1200 mm single Patti	:	01 No.
xl.iii.	Choke 40w, 250V working and non-working	:	01 each
xl.iv.	Tube light starter - 40W, 250V, working and non-working	:	01 each
xl.v.	Tube light holder plain	:	02 Nos.
xl.vi.	Starter holder	:	02 Nos.
xl.vii.	Connecting wires	:	As required
xl.viii.	Cross Peen hammer 250 gms	:	01 No.
xl.ix.	Insulated screwdriver 200 mm width 5 mm blade	:	01 No.
l.	Insulated screwdriver 150 mm width5 mm blade	:	01 No.
li.	Electrician's knife (100 mm)	:	01 No.
lii.	Mallet 5 cm dia. -500 gram	:	01 No.
liii.	Gimlet 5 mm dia. 200 mm long	:	01 No.
liv.	Hand drilling machine 6 mm capacity	:	01 No.
lv.	Drill bit 3 mm to 5 mm	:	01 each
lvi.	Try square 150 mm	:	01 No.

lvii.	Bradawl 150 mm	:	01 No.
lviii.	Insulated combination pliers 200 mm	:	01 No.
lix.	Hacksaw frame with blade (24 TPI)	:	01 No.
lx.	Steel rule (300 mm)	:	01 No.
lxi.	PVC terminal box	:	01 No.
lxii.	Wood screws No.6x12 mm	:	03 Nos.
lxiii.	Wood screws No.6x20 mm	:	04 Nos.
lxiv.	PVC--Insulated aluminium cable 1.5 sq mm. 250V grade	:	6 m
lxv.	Flush mounting two-way switch 6A, 250V	:	02 Nos.
lxvi.	Batten lamp-holder, 6A, 250V	:	01 No.
lxvii.	Terminal plate 3-way	:	01 No.
lxviii.	Bulb 40W, 250V, BC type	:	01 No.
lxix.	PVC round block (90mm x 40 mm)	:	01 No.
lxx.	PVC box 100 mm x 100 mm	:	02 Nos.
lxxi.	PVC 'Tee' 19 mm	:	02 Nos.
lxxii.	Marking Pen/Pencil/Chalk	:	As required
lxxiii.	Marking thread	:	As required
lxxiv.	PVC Insulation tape	:	1 Roll
lxxv.	Self-tapping screw (20 mm)	:	As required
lxxvi.	PVC bends 19mm	:	02 Nos.
ELECTRICIAN (2nd YEAR)			
i.	Combination pliers 200mm	:	01 No.
ii.	Screwdriver 150mm	:	01 No.
iii.	Electrician's knife 100mm	:	01 No.
iv.	Revolutions counter 4 digits	:	01 No.
v.	Ammeter MC 0-1A	:	01 No.
vi.	Voltmeter MC 0-300V	:	01 No.
vii.	M.C ammeter 0-20A	:	01 No.
viii.	DC shunt generator 2 or 4 KW 220V with suitable prime mover:	:	01 No.
ix.	Rheostat 296 ohms 2.8 Amps	:	01 No.
x.	Knife switch D.P.S.T. 16A	:	01 No.
xi.	Knife switch S.P.S.T. 16A	:	01 No.
xii.	Lamp load 220v/5kw	:	01 No.
xiii.	P.V.C. Insulated cable 2.5 sq.mm	:	5 m
xiv.	Fuse wire 10 A	:	0.2 m
xv.	P.V C Insulated flexible cable 14/0.2	:	2m
xvi.	Graph sheet	:	01 No.
xvii.	Screw driver 200 mm, 300 mm	:	02 Nos.
xviii.	Connector screw driver 100 mm	:	01 No.
xix.	Wire stripper 150 mm	:	01 No.
xx.	MI Ammeter 20A, 10A	:	02 Nos.
xxi.	MI Volt meter 0-500V	:	01 No.
xxii.	Tachometer 0-3000rpm	:	01 No.
xxiii.	3-phase Squirrel cage motor 415V, 50 Hz, 3HP, 5 HP	:	01 No.
xxiv.	DOL starter 10 Amp 415V (Control circuit wiring removed for trainee to wire-up)	:	01 No.
xxv.	TPIC switch 16A 415V	:	01 No.
xxvi.	PVC Insulated single strand (Copper cable 16 SWG, 18 SWG or equivalent)	:	0.5 m
xxvii.	Power cable single strand 2.5 mm ²	:	As required
xxviii.	GI wire 14SWG	:	8 m
xxix.	Soldering iron 25W/250V	:	01 No.

xxx.	Voltmeter MC 0-30V	:	01 No.
xxxii.	Multimeter (Digital)	:	01 No.
xxxiii.	Lug board General purpose 5 points / Bread board	:	01 No.
xxxiv.	Diode IN4007	:	01 No.
xxxv.	Resistor 470Ω (Ohm)	:	01 No.
xxxvi.	Step-down transformer, 240V/12.0.12, 500mA	:	01 No.
xxxvii.	Multi strand wire, red, blue 23/0.2 of 650V grade	:	As required
xxxviii.	Base board (Laminated board 30x15x3mm)	:	01 No.
xxxix.	Mains cord 3 core cables 23/0.2 of 650V grade	:	01 No.
xl.	Nuts, bolts and washers	:	As required
xli.	3 Pin plug 6A 250 V	:	01 No.
xlii.	Resin core solder 60/40	:	As required
xliii.	Insulated cutting pliers 150mm	:	01 No.
xliv.	D.E. spanner set 5mm to 20mm	:	01 set
xlv.	Shunt type ohmmeter 0-2K or multi meter	:	01 No.
xlvi.	Test lamp with 220V 25W lamp	:	01 No.
xlvii.	D.C shunt motor 220V 3HP	:	01 No.
xlviii.	ICDP switch 250V/16A	:	01 No.
lix.	3 Point starter suitable for shunt motor 220V 3HP	:	01 No.
l.	2.5sq mm P.V.C. copper multi-strand cable	:	18 m
li.	Fuse wire 15 amps	:	As required
lii.	Manual star-delta starter 16A, 415V (Control circuit wiring removed for trainee to wire-up)	:	01 No.
liii.	Cutting pliers 200mm	:	01 No.
liiii.	Spanner set 5mm to 200mm	:	01 set
liv.	Screwdriver 200mm	:	01 No.
lv.	Screwdriver 100mm	:	01 No.
lvi.	Megger 500V	:	01 No.
lvii.	Alternator, 3-phase, 3 KVA 415V	:	01 No.
lviii.	P.V.C. insulated copper wire 23/0.2 mm size	:	5 m
lix.	Insulation tape	:	1m
lx.	Test lamp 60W / 240V	:	01 No.

446. ELECTRONIC MECHANIC (1st YEAR)

i.	Digital multimeter with probes	:	01 No.
ii.	IC-7400	:	01 No.
iii.	Hook up wires	:	As required
iv.	LED 5mm, Red	:	01 No.
v.	Resistor 330Ω $\frac{1}{4}$ W/CR25	:	01 No.
vi.	Toggle switches miniature type SPDT	:	02 Nos.
vii.	Trainees tool kit	:	01 set
viii.	Regulated DC power supply 0-30V/2A	:	01 No.
ix.	Digital multimeter with probes	:	01 No.
x.	Soldering iron 25W/230V with stand	:	01 No.
xi.	Ammeter, 0-500mA MC	:	01 No.
xii.	Voltmeter, 0-30V, MC	:	02 Nos.
xiii.	Voltmeter, 0-10V, MC	:	01 No.
xiv.	Lug Board/PCB	:	01 No.
xv.	Zener Diode, 9.1V	:	01 No.
xvi.	Resistor, 470Ω $\frac{1}{2}$ W	:	01 No.
xvii.	Solder, flux, wire	:	As required

xviii.	CRO 20MHz dual trace	:	01 No.
xix.	Regulated dual DC power supply 0-30V/2A	:	01 No.
xx.	IC 555	:	01 No.
xxi.	Resistors, ¼ W/CR25 1kΩ	:	01 No.
xxii.	Capacitor 0.1 µF, 0.01 µF /25V	:	01 No. each
xxiii.	Preset, 10kΩ	:	01 No.
xxiv.	Oscilloscope, 20MHz	:	01 No.
xxv.	Signal Generator	:	01 No.
xxvi.	Trainees tool kit	:	01 set
xxvii.	IC-7486	:	01 No.
xxviii.	IC-7400	:	01 No.
xxix.	Miniature toggle switch SPDT	:	03 Nos.
xxx.	Regulated DC power supply 0-30V/2A	:	01 No.
xxxi.	Digital multimeter	:	01 No.
xxxii.	Transistor BC 148	:	02 Nos.
xxxiii.	Capacitor 1µf	:	02 Nos.
xxxiv.	LED 5mm Red, Green	:	01 No. each
xxxv.	Resistor 1KΩ □ ¼ W/CR25, 100KΩ □ ¼ W/CR25	:	02 Nos. each

ELECTRONIC MECHANIC (2nd YEAR)

i.	Cell phone/ Smart phone	:	01 No.
ii.	Personal computer	:	01 No.
iii.	USB cable	:	01 No.
iv.	8051 microcontroller trainer kit	:	01 No.
v.	Magnifier lens	:	01 No.
vi.	Cleaning brush	:	01 No.
vii.	IPA cleaning solution	:	01 No.
viii.	Remote control checker, tester	:	01 No.
ix.	RJ45 Crimping tool	:	01 No.
x.	Network cable tester	:	01 No.
xi.	8 port network switch	:	01 No.
xii.	Cable stripper	:	01 No.
xiii.	CAT6 cable	:	2 mts
xiv.	RJ45 plug	:	04 Nos.
xv.	Multimeter with probes	:	01 No.
xvi.	Soldering iron 25W/230V	:	01 No.
xvii.	Faulty SMPS	:	01 No.
xviii.	Solder, flux wiers	:	As required
xix.	Cleaning brush	:	01 No.
xx.	IPA cleaning solution	:	01 No.
xxi.	8051 microcontroller trainer kit	:	01 No.

502. MECHANIC MOTOR VEHICAL (1st YEAR)

i.	Compression gauge with different size adopters	:	01 No.
ii.	Oil can	:	01 No.
iii.	Cotton waste	:	As required
iv.	Banian cloth	:	As required
v.	Diesel	:	As required
vi.	Engine oil	:	As required
vii.	A running condition four cylinder four stroke diesel engine or six cylinder four stroke diesel engine	:	01 No.
viii.	Torque wrench	:	01 No.
ix.	Piston ring expander	:	01 No.

x.	Piston ring compressor	:	01 No.
xi.	Oil can	:	01 No.
xii.	Wooden mallet	:	01 No.
xiii.	Piston rings (required for std or oversize pistons)	:	1 set per trainee
xiv.	Connecting rod bearings	:	1 set per trainee
xv.	Bush for connecting rod small end	:	1 set per trainee
xvi.	Multimeter	:	01 No.
xvii.	Wire cutter	:	01 No. per batch
xviii.	Wire connectors in different sizes	:	As required
xix.	A running condition diesel vehicle	:	01 No.
xx.	Vernier caliper 0.02 mm accuracy - 300mm in size	:	01 no per batch
xxi.	Micrometer 0.01mm accuracy – 0-25mm, 25-50mm, 50-75mm, 75-100mm, 100-125mm, 125-150mm	:	1 set per batch
xxii.	Surface plate in stand	:	01 No.
xxiii.	V block	:	01 set
xxiv.	Dial test indicator	:	01 No.
xxv.	Soap oil	:	As required
xxvi.	Cam shaft for a four cylinder engine	:	01 No. per batch
xxvii.	Multimeter	:	01 No. per batch
xxviii.	Special tools for removing and holding brushes (if necessary)	:	01 set
xxix.	Vernier caliper 0.02mm accuracy – 300mm in size	:	01 set
xxx.	Petrol	:	As required
xxxi.	Auto electrical test bench	:	01 No.
xxxii.	Oil can	:	1 No. per batch

MECHANIC MOTOR VEHICAL (2nd YEAR)

i.	Scan tool	:	01 No. per batch
ii.	Multimeter	:	01 No. per batch
iii.	A running condition four cylinder petrol engine	:	01 No. per batch
iv.	Cotton waste	:	As required
v.	Baniam cloth	:	As required
vi.	Wheel hub remover	:	01 No. per batch
vii.	Sliding hammer	:	01 No. per batch
viii.	Torque wrench	:	01 No. per batch
ix.	Outside caliper	:	01 No. per batch
x.	Vernier caliper 300 mm in size	:	01 No. per batch
xi.	Brake fluid	:	5 litres per batch
xii.	Wheel cylinder	:	01 set per trainee
xiii.	Brake shoe set	:	01 set per trainee
xiv.	Bottle and hoses for bleeding	:	01 set per batch
xv.	A running condition four cylinder petrol engine	:	01 No. batch
xvi.	Cotton waste	:	As required
xvii.	Electric stove	:	01 No. per batch
xviii.	Beaker	:	01 No. per batch
xix.	Multimeter	:	01 No. per batch
xx.	Thermometer	:	01 No. per batch
xxi.	A running condition mpfi vehicle having sensors	:	01 No. per batch
xxii.	TP sensor	:	04 Nos. per batch
xxiii.	Map sensor	:	04 Nos. per batch
xxiv.	Oxygen sensor	:	04 Nos. per batch
xxv.	Ect sensor	:	04 Nos. per batch
xxvi.	Steel rule	:	01 No. per batch

xxvii.	Auto wire in different sizes	:	As required
xxviii.	Wire connector in different sizes	:	As required
xxix.	Head light bulb	:	01 set per batch
xxx.	Relay for head light	:	01 No. per batch
xxxi.	Fuses in different amp ranges	:	As required

503. MECHANIC REFRIGERATION & AIR - CONDITIONING TECHNICIAN (1st YEAR)

i.	Test cords	:	One/Trainee
ii.	Test lamp with holder	:	One/Trainee
iii.	Soldering flux	:	One/Trainee
iv.	Terminal clips	:	One/Trainee
v.	Insulation Tape	:	One/Trainee
vi.	Wire each colour R,B,G	:	One/Trainee
vii.	Capacitors start and run (suitable for the specific refrigerator) :	:	One/Trainee
viii.	Various types of relays (PTCR, Current coil, etc)	:	One/Trainee
ix.	OLP	:	One/Trainee
x.	Rubber gasket with magnetic strip	:	As required
xi.	Filler gauge	:	One/Trainee
xii.	Door switch	:	One/Trainee
xiii.	Screw Driver	:	100mm
xiv.	Philips Screw Driver set	:	01 set

MECHANIC REFRIGERATION & AIR - CONDITIONING TECHNICIAN (2nd YEAR)

i.	Refrigeration oil	:	As required
ii.	Gasket 1/16", 1/32", 1/64"	:	One/Trainee
iii.	Cotton Waste	:	As required
iv.	Banyan Waste	:	As required
v.	Kerosene oil/Diesel	:	As required
vi.	Cleaning solution	:	As required
vii.	De-scaling pump set	:	As required
viii.	Dilute HCL acid	:	As required
ix.	PH indicator	:	As required
x.	Wire brush	:	As required
xi.	Rubber gasket	:	As required

592. WIREMAN (1st YEAR)

i.	Insulated combination pliers 200mm	:	01 No.
ii.	Double blade Knife 100mm	:	01 No.
iii.	Long nose pliers 150mm	:	01 No.
iv.	Steel rule 300mm	:	01 No.
v.	Hand vice 50mm Jaw	:	01 No.
vi.	Wooden mallet	:	01 No.
vii.	Flat nose plier 150mm	:	01 No.
viii.	PVC insulated Copper 7 / 0.91 mm multi strand wire	:	0.6 m
ix.	Sand paper '00' grade	:	01 sheet
x.	Cotton cloth 300 x 300 mm	:	01 No.
xi.	Insulated combination pliers 200mm	:	01 No.
xii.	Electrician screw driver 200mm	:	01 No.
xiii.	Connector screw driver 100mm	:	01 No.
xiv.	Wire stripper 150mm	:	01 No.
xv.	Neon line tester 150mm, 500V	:	01 No.
xvi.	Regulated power supply (RPS) unit 0-30V, 5 A	:	01 No.

xvii.	MC voltmeter 0 -15V, 0 – 30V	:	01 No. each.
xviii.	MC ammeter 0 – 500mA	:	01 No.
xix.	Digital Multi meter 4½ digit	:	01 No.
xx.	PVC insulated copper 1.5 Sq mm flexible wire, 650V grade:	:	5 m
xxi.	Rheostat 100 Ω, 200 Ω and 250 Ω, 1 Amps	:	01 No. each
xxii.	Single pole tumbler switch, 240V, 6A with gang box	:	01 No.
xxiii.	Three phase induction motor, 415V, 3 HP with DOL starter arrangement	:	01 No.
xxiv.	MI voltmeter 0-500V1 No.	:	
xxv.	Wattmeter 500V / 5A, suitable to measure low power factor:	:	02 Nos.
xxvi.	Digital Multi meter 4½ digit	:	01 No.
xxvii.	PVC insulated copper 1.5 Sq mm flexible wire, 650V grade:	:	10 m
xxviii.	ICTP switch, 500V, 16A	:	01 No.
xxix.	Soldering iron 65W, 250V with stand	:	01 No.
xxx.	PVC insulated Copper 3 / 0.91 mm multi strand wire, 650V grade	:	0.6 m
xxxi.	Sand paper '00' grade	:	01 sheet
xxxii.	Cotton cloth 300 x 300 mm	:	01 No.
xxxiii.	Resin cored solder 18 SWG	:	50 grams
xxxiv.	Soldering flux for copper joint	:	5 gm
xxxv.	Hack saw frame 300mm with blade 24 TPI	:	01 No.
xxxvi.	Try square 150 mm	:	01 No.
xxxvii.	Firmer chisel 12mm 200mm	:	01 No.
xxxviii.	Poker 200mm1 No.	:	
xxxix.	Hand drilling machine, 6 mm Capacity with 3mm and 6 mm SS drill bit	:	01 No.
xl.	Ball peen hammers 250gm	:	01 No.
xli.	PVC insulated copper 1.5 Sq mm flexible wire, 650V grade:	:	5 m
xl.ii.	SPT switch, flush type, 250V, 6A	:	03 Nos.
xl.iii.	SPT switch, flush type, 250V, 16A	:	01 No.
xl.iv.	3 pin, two in one socket, flush type, 250V, 6A	:	03 Nos.
xl.v.	3 pin, two in one socket, flush type, 250V, 16A	:	01 No.
xl.vi.	Kit kat fuse unit, flush type, 250V, 6A	:	01 No.
xl.vii.	Neon indication, 250V, flushes type	:	01 No.
xl.viii.	PVC insulated 3 core, 1.5 Sq mm copper flexible cable, 1100V grade	:	6 m
xl.ix.	Plug top 3 pin, unbreakable, 250V, 16A	:	01 No.
l.	TW box, 300 x 250 mm with sun mica top	:	01 No.
WIREMAN (2nd YEAR)			
i.	Insulated combination pliers 200mm	:	01 No.
ii.	Double blade Knife 100mm	:	01 No.
iii.	Long nose pliers 150mm	:	01 No.
iv.	Electrician screw driver 200mm	:	01 No.
v.	Connector screw driver 100mm	:	01 No.
vi.	Wire stripper 150mm	:	01 No.
vii.	Neon line tester 150mm, 500V	:	01 No.
viii.	Digital Multi meter 4½ digit	:	01 No.
ix.	Diode IN 4007	:	01 No.
x.	MI voltmeter, 0-300V and 0-500V	:	01 No. each
xi.	MI ammeter, 0-5A, 0-2A	:	01 No. each
xii.	3 phase lamp load, 415V, 3Kw	:	01 No.
xiii.	Digital Multi meter 4½ digit	:	01 No.

xiv.	PVC insulated copper 1.5 Sq mm flexible wires, 650V grade:	10 m
xv.	ICTP switch, 500V, 16A	: 01 No.
xvi.	Three phase slip ring induction motor, 415V, 3 HP with rotor rheostat starter arrangement	: 01 No.
xvii.	MI voltmeter 0-500V	: 01 No.
xviii.	MI ammeter, 0- 10 A	: 01 No.
xix.	Megger 500V	: 01 No.
xx.	PVC insulated copper 1.5 Sq mm flexible wires, 650V grade:	10 m
xxi.	ICTP switch, 500V, 16A	: 01 No.
xxii.	DC compound machine, 220V, 5 HP 1500 RPM	: 01 No.
xxiii.	PVC insulated copper flexible 1.5 sq mm wire, 650V grade :	5 m
xxiv.	MI voltmeter, 0-300V	: 01 No.
xxv.	MI ammeter, 0-2A	: 01 No.
xxvi.	Single phase capacitor start and induction run motor, 230V, ¼ HP, 1440 RPM with push button starter	: 01 No.
xxvii.	ICDP switch, 250V, 16A	: 01 No.
xxviii.	Single phase transformer, 1 KVA, 440/220V, 50Hz	: 01 No.
xxix.	MI voltmeter 0-500V and 0-300V	: 01 No. each
xxx.	MI ammeter, 0- 5A	: 02 Nos.
xxxi.	Lamp load with control switch 1 KVA 240V	: 01 No.
xxxii.	Inductive load, 1 KVA, 240V	: 1 No.
xxxiii.	PVC insulated copper 1.5 Sq mm flexible wires, 650V grade:	10 m
xxxiv.	ICDP switch, 500V, 16A	: 02 Nos.
xxxv.	Capacitor, 500V, 8mfd and 4mfd	: 01 No. each

453. FITTER (1st YEAR)

i.	M.S. Flat 60 x 40 x 10mm	: 02 Nos.
----	--------------------------	-----------

FITTER (2st YEAR)

i.	M.S. Flat 60 x 50 x 10mm	: 02 Nos.
ii.	M.S. Flat 60 x 50 x 10mm	: 01 No.
iii.	M.S. Flat 32 x 30 x 10mm	: 01 No.

969. WELDER

i.	GMAW Plant with necessary material	
ii.	M.S. Flat 160 x 60 x 10mm	: 03 Nos.
iii.	GTAW plant with necessary material	
iv.	M.S. Flat 160 x 60 x 3mm	: 02 Nos.
v.	M.S. Flat 160 x 60 x 3mm	: 01 No.
vi.	Ø 1.6 CCMS filler rod	
vii.	Oxy-acetylene gas cutting plant	
viii.	Mild steel pipe Ø 50mm X 260mm length x 3mm thickness:	01 No.
ix.	GMAW machine & accessories (Ø 1.2mm filler wire, CO ₂ gas, & spatter spray)	
x.	S.S. Flat 150 x 50 x 2 mm	: 02 Nos.
xi.	GTAW with necessary material for GTAW process (S.S filler rod & argon gas)	

Note: *All tools, Instrument and equipment as per syllabus of the trade should be kept ready in working condition.
