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(VT-I-3/2024)

From,

Dr. B.B.Mohanty,  
Controller of Examinations.

To

The Principal,  
All Govt.& Private ITI s / TTCs /NSTI of Odisha .

Sub: Bill of Materials for AITT August-2024 Practical Examinations for CTS  
Trainees-Regarding.

Ref: DGT Notification Guidelines Vide FTS. No. E. 44186 dated 27/06/2024

Sir/Madam,

In inviting a reference to the DGT Notification on the subject cited above, I am to  
say that AITT August-2024 Practical Examinations for CTS Trainees have been  
scheduled with effect from 1<sup>st</sup> August-2024 to 6<sup>th</sup> August-2024.

In view of the above, the Bill of Materials developed by the SCTE&VT, Odisha  
are enclosed herewith for procurement of Raw Materials & smooth conduct of AITT  
August-2024 Practical Examination.

Yours faithfully,

Encl: As above.

  
Controller of Examinations

**BILL OF MATERIAL REQUIRED FOR PRACTICAL AITT-AUGUST-2024 MAINS EXAMINATIONS  
TO BE HELD FROM 1<sup>ST</sup> AUGUST-2024 TO 6<sup>TH</sup> AUGUST-2024.**

**Year-2(2<sup>ND</sup> Year)**

**ELECTRICIAN**

1. Push button switch (Green/Red)
2. Indicator lamp with holder
3. Relay, 0-15Amp/ 415V
4. MCB 3 Pole 25Amp, 415V
5. Wire ferrule Lug

**FITTER**

1. M.S. Flat 140mm X 75mm X 12mm

**DRAUGHTSMAN CIVIL**

1. Desktop computer with Auto Cad software
2. Plotter
3. A3 size Xerox paper

**DRAUGHTSMAN MECHANICAL**

1. Auto-CAD Software

**ATTENDANT OPERATOR CHEMICAL PLANT**

1. Infusion set – 02, Violet color – 50ml
2. Distilled water - 10liter
3. Kerosene oil - 5liter

**INFORMATION COMMUNICATION TECHNOLOGY SYSTEM MAINTENANCE**

1. Display Driver Card
2. Desktop PC
3. UPS
4. Linux OS
5. Windows Startup Repair Software
6. Router
7. Rj45
8. Switch

**INSTRUMENT MECHANIC**

1. Different type of thermocouple
2. Rotating vane meter
3. Ph meter and buffer solution.



**LABORATORY ASSISTANT CHEMICAL PLANT**

1. Chemicals & apparatus available in the laboratory.

**MACHINIST**

1. Metal: Cast iron
2. Cast iron block
3. Size: 100X100X10mm- 01 No
4. Size: 35x35x120mm- 01 No

**MECHANICS AGRICULTURE MACHINERY**

1. Rotavator & Fertilizer
2. Cotton waste
3. Spare parts as required
4. Trainees tool kit
5. Grease
6. Grease gun
7. Kerosene/Diesel
8. Air impact wrench

**MECHANIC MINING MACHINERY**

1. Earthling plate & different types of fuse
2. Oil cane, Grease etc.

**MECHANICAL MACHINE TOOL MAINTENANCE**

1. MS Bar –Dia 60 x L 80

**MECHANIC MOTOR VEHICLE**

1. Wheel balancing machine
2. Trainees tool kit
3. Wheel
4. Weight various size
5. Emery paper( 80)
6. Differential assembly
7. Dial gauge
8. cotton waste
9. kerosene oil
10. Differential oil
11. Thrust washer
12. Adhesive paste
13. Packing paper
14. Brake pad
15. Brake fluid
16. Grease
17. Disc brake assembly



**OPERATOR ADVANCED MACHINE TOOLS**

1. MS Rod ( $\phi 40 \times 85 \text{mm}$ )

**PAINTER GENERAL**

1. Enamel gray colour
2. 3 inch brush
3. Turpentine oil
4. 320 sand paper
5. Stencil paper
6. Stencil cutter

**ELECTRONICS MECHANIC**

1. Trainees tool kit
2. Signal generator
3. AM trainer kit
4. Regulated power supply (0-30v/2a)
5. DMM
6. Led drivers
7. Microcontroller
8. LDR, leds 5mm, flexible wires
6. Breadboard, relay 5
7. Assorted resistors, capacitors and transistors

**TEXTILE WET PROCESSING TECHNICIAN**

1. Cotton fabric
2. Vat dye stuff
3. Wetting agent (TRO)
4. Sodium chloride
5. Sodium hydroxide
6. Sodium hydrosulfite
7. Detergent
8. Sodium carbonate

**REFRIGERATION AND AIR CONDITIONING TECHNICIAN**

1. Compressor oil
2. Gasket
3. Lapping paper

**SURVEYOR**

1. Drawing sheet A3-One for Each
2. Pencil HB
3. Eraser
4. Set of scale
5. Cello Tape



**TECHNICIAN MECHATRONICS**

1. M.S Flat (70\*60\*20) mm - each 1 No

**TOOL & DIE MAKER (JIG & FIXTURE)**

1. Mild steel rod Dia. 55 x 80 mm

**TURNER**

1. MS round bar  $\phi$  50 mm x 165 mm length (Part A)
2. MS round bar  $\phi$  50 mm x 50 mm length (Part B)

**WIREMAN**

1. Super enameled copper wires
2. Empire sleeves- 1mm,2mm
3. Air dry vanish
4. Resin core solder- 16SWG
5. Soldering paste
6. Smooth emery paper 1 piece.
7. Fabric based fiber sheet-3mm and 6mm thick
8. Insulation Papers
9. Centre tapped Transformer-240v/ 12v-0-12v 1no
10. Diode- IN 4007 4 nos
11. Electrolytic capacitor- 1000MF/12V 1 no
12. Carbon resistance- 1Kilo ohm/0.25w 1no
13. Base board 1no
14. Multi strand wire-23/0.002-650v

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



**BILL OF MATERIAL REQUIRED FOR PRACTICAL AITT-AUGUST-2024 MAINS EXAMINATIONS  
TO BE HELD FROM 1<sup>ST</sup> AUGUST-2024 TO 6<sup>TH</sup> AUGUST-2024.**

**Year-1( 1<sup>st</sup> Year)**

**ELECTRICIAN**

1. Resistors 2, 10, 50 ohms 5Watt
2. Cells for Wheatstone Bridge
3. Rheostat 10ohms, 5Amps
4. Distilled water
5. Petroleum jelly
6. Sand paper
7. Concentrated Sulphuric acid
8. Clean jar for mixing 1litre capacity
9. Choke 40watt 0.43Amp 250v
10. Wire wound resistor 500ohm, 0.5Amp

**FITTER**

1. M.S. Flat 75mm X 60mm X 12mm

**MECHANIC DIESEL**

1. Multi cylinder 4 stroke diesel engine.
2. Injector cleaning kit
3. Engine oil
4. Diesel
5. Petrol
6. 12 V , Battery (Lead acid)
7. Cotton waste
8. Scan tool.
9. Spare injector

**DRAUGHTSMAN MECHANICAL**

1. Drawing Sheet
2. Pencil
3. Sharpener
4. Eraser
5. Cello tape



**DRESS MAKING**

1. Poplin / Voile- 2 mtrs.
2. Matching thread- 2 nos.
3. Canvas- 25 cm.
4. Nylon button- 8 nos.
5. Hooks- 6 nos.
5. Brown paper / Pattern paper- 2nos.
6. Tool kit- 1 nos.

**ADDITIVE MANUFACTURING TECHNICIAN (3D PRINTING)**

1. PLA Pro 3D Printing Filament 1.75mm of 1kg spool
2. 800cc Onyx Filament Spool

**ATTENDANT OPERATOR CHEMICAL PLANT**

1. Wire gauze , clamp with stand , Brunner , Distillation flask.
2. Cork-4Nos, Distillation Adapter, Thermometer, Condenser.
3. Conical flask (Receiving flask), condenser stand.
4. Vegetable oil (castor oil, Soybean oil), Sodium hydroxide (caustic soda), Sodium chloride (common salt)
5. MS flat-(75\*75\*10) mm
6. Hacksaw blade (1pack)
7. Hacksawing frame (21)

**ARCHITECTURAL DRAUGHTSMAN**

1. Auto cad
2. Drawing Sheet
3. Drawing Board

**BAKER & CONFECTIONER**

1. Refined Flour, Yeast, Sugar, Butter, Salt.
2. Oil, Ragi Powder, Jaggery Powder, Wheat Flour.
3. Amul Powder, Banana, Milk, Curd.
4. Whipping Cream, Tutti Frutti.

**BASIC COSMETOLOGY**

1. Nail varnish remover, Cuticle oil or cream, Whitening pencil, Nail varnish, Cuticle remover, Nail bleaches, Nail strengthener, Hand lotion and cream.
2. Manicure shampoo, Foot cream, Cold Cream, Face scrub, Cleansing Milk, Face Pack, Disposable Towel/Tissue, Antiseptic Lotion/Astringent, Hair shampoo, Tonner, Moisturizing cream.



3. Makeup kit, Primer, Krylon Base pallet, Primer, MAC base pallet, Kajol, Coconut oil, conditioner, Hair serum, Makeup fixer, Setting spray, Shinning Spray, Styling Spray, Hair Gel, Eyebrow Thread, Frosting Cap, Hair colour (Red, medium brown, Blond,) (LOREAL).
4. Developer 30 volume & 40 volumes.
5. Blender.

### **CENTRAL AIR-CONDITION PLANT MECHANIC**

1. Refrigeration Oil
2. Gasket
3. Emery Paper .

### **COMPUTER HARDWARE AND NETWORK MAINTENANCE**

1. Different type of Resistors, Capacitors, Diodes, ICs and Transistors as required.
2. All PC accessories and parts as required.
3. RJ 45 Connector, LAN Cable as required.

### **DESKTOP PUBLISHING OPERATOR**

1. One Personal Computer with window-7, Page Maker, Corel draw, Photoshop, MS-Office. One Laser/Inkjet Printer
2. A-4 photocopier paper for taking out prints. Printed text pages for composing.
3. Internet Connection.

### **FOOD BEVERAGES & SERVICE ASSISTANT**

1. Large tray with inlay, Place mats, napkin W/, table Knife.
2. Table fork, coffee spoon, bread Knife, coffee Spoon, and bread Knife, Coffee Cup.
3. Coffee Saucer, Fruit Bowl, Jam or honey & butter, milk, bread basket.
4. Toothpick holder w/, sugar, Coffee mate.
5. Toothpick s & p shaker, juice glass, Thermos pot, Tea Pot.

### **FOOD PRODUCTION GENERAL**

1. Egg , salt, Turmeric powder, oil, Potato
2. Goo lab jamun Powder, Atta, Jeera, dal.
3. Tomato, Onion, Paneer, milk maid, sugar, red chili.

### **HORTICULTURE**

1. Budding knife, polythine strip, rose plant
2. Grafting knife, polythine strip, mango plant
3. Apple, colors ,ascends ,citric acid, potassium met bisulphate, steel bowel, mosquito net, l cup sugar
4. Potato chips-potato, chili powder, chat masala ,oil





**INFORMATION COMMUNICATION TECHNOLOGY SYSTEM MAINTENANCE**

1. Resistor
2. Capacitor (Non-electrolyte)
3. Transistor-BC548
4. Varro board
5. Ribbon wire
6. Hard Disk

**INSTRUMENT MECHANIC CHEMICAL PLANT**

1. Metal: M.S Flat, size-70mmx10mm-40kg
2. Connecting wire-20mtrs

**INDUSTRIAL PAINTER**

1. Primer
2. Thinner
3. Paint
4. Sand paper
5. Polyester putty
6. Welding rod
7. Ms flat
8. Wood putty.

**INSTRUMENT MECHANIC**

1. Lamp, holder, wire, multimeter.
2. Step down Transformer
3. Transistor, step down transformer, Cart board, electronic rain bow wire, Capacitor, resistor

**WIREMAN**

1. Wattmeter, Voltmeter, Ammeter, Connecting wires.
2. Three Phase Variac, Rheostat, Diode, Cell.
3. Transformer, Armature, DC generator, Battery, LED.

**WELDER**

1. MS plate 50 ISF 10-150 - 2 pieces
2.  $\varnothing$ 1.2mm GMAW wire
3. MS plate 50 ISF 10-150 - 2 pieces
4.  $\varnothing$ 3.15 mm medium coated MS electrode - 2pieces

**DRAUGHTSMAN CIVIL**

1. Drawing sheet
2. Pencil (H, HB,2H)
3. Eraser
4. Mini drafter
5. Cello tape
6. Sharpener
7. Sand paper



**LABORATORY ASSISTANT (CHEMICAL PLANT)**

1. Caustic soda
2. Dilute Hcl
3. Bulb (3nos)
4. 3 meter wire
5. Carbonate salt
6. Sulphite salt
7. Sulphide salt
8. Nitrite salt
9. Chloride salt
10. Bromide salt

**LIFT AND ESCALATOR MECHANIC**

1. 5pin socket -230 volt ,6amp
2. One way switch 230 volt,6amp
3. 100 watt electric bulb
4. Copper connecting lead 0.75 sq/mm – 20 mtr.
5. Indicator 6amp,230 volt
6. Pvc casing capping (30 mm×10mm )
7. Pvc terminal box
8. Wooden screw (6×12 mm)-10 nos
9. Two way switch 6amp,250 volt
10. Batten lamp holder 6amp,250 volt
11. Terminal plate 2 way
12. Pvc Tee and elbow -02 nos each
13. Diode -10 nos

**MACHINIST**

1. Metal: Cast iron 100X100X10mm-01 No

**MECHANICS AGRICULTURE MACHINERY**

1. Cotton waste
2. Grease
3. Grease gun
4. Kerosene/Diesel
5. Air impact wrench
6. Spare parts as per required

**STONE MINING MACHINE OPERATOR**

1. GI FLAT of : Length - 5000 mm, Width - 25 mm, Thickness - 5 mm
2. Steel Tape
3. File
4. Hacksaw
5. Pencil for Marking
6. Dumper Simulator



**STONE PROCESSING MACHINE OPERATOR**

1. Marble stone of : Length - 5000 mm, Width - 60 mm, Thickness - 15 mm
2. Steel Tape
3. Circular Saw Machine
4. Grinding Machine
5. Pencil for Marking
6. Coolant Measuring Tape

**MECHANIC AUTOBODY PAINTING**

1. Body Panel
2. Fender
3. Plastic Bumper
4. Hand Block Abrasives
5. Dry guide coat
6. Degreasing cloth
7. Degreaser
8. Polyester Putty with hardener
9. 2k primer surface
10. 2k non-sanding primer
11. 2k putty
12. Hardener for Primer surface and non-sanding primer
13. Plastic primer
14. 2k thinner for base coat and clear coat
15. Prepared colour
16. Fast drying clear
17. 2k Hardener for clear
18. Round disk paper.
19. Cotton Cloth

**SURVEYOR**

1. Drawing sheet A3-One for Each
2. Pencil HB
3. Eraser
4. Set of scale
5. Cello Tape

**TOOL & DIE MAKER (JIG & FIXTURE)**

1. Mild steel rod Dia. 30 x 85 mm

**FOUNDRYMAN**

1. Aluminum Metal, Sand, pattern, Moulding box.
2. Peen Rammer, Flat Rammer, Strike off Bar, Vent wire.
3. Sprue pin, Riser Pin, Smoother, Shovel.
4. Trowel, cotton waste, kerosene, Hard Coke.
5. Hacksaw, Riddle.



**TURNER**

1. Metal: Mild steel DIA 40X160 MM

**WELDER (GMAW &GTAW)**

1. M S Pipe diameter (60 x 100 X 3 WT)mm - 2Nos
2. Aluminum sheet-(150 x 50 x 2) mm - 2Nos

**CARPENTER**

1. Hard wood 60 x 25 x 300 -2 Nos
2. Sand paper No.100 and No.120

**MARINE ENGINE FITTER**

1. Cotton waste, Lube oil, Banyan cloth

**MASON (BUILDING CONSTRUCTOR)**

1. Measuring tape 30 mtr.
2. Cement
3. Sand
4. Bricks
5. Tray
6. Trowel
7. Fly Ash
8. 1/2 inch Stone chips
9. 12 mm  $\phi$  M.S rod
10. 6 mm  $\phi$  M.S rod
11. M.S. Try Square 2' length
12. Level Spirit
13. Plumb

**SOLAR TECHNICIAN ( ELECTRICAL )**

1. Solar Panels – (40W , 75W , 250W) , DC Load Bank (1 kW) , DC Voltmeter , DC Ammeter , DC Wattmeter , MC4 Connectors , Connecting wires and DC cables.
2. Load Bank with Incandescent Lamp (100W) – 10 Nos , MI Voltmeter 0-300V , MI Ammeter 0 - 1A , 0 – 10 A - 1 No , Wattmeter 250V , 5Amps – 1 No , Power Factor Meter (250V 5Amps) , Auto Transformer 0-270V/8A , Connecting Wires , I.C.D.P Switch (16 Amps , 250V).
3. Solar Panel 250W – 4 Nos , Array Junction Box ,12V 10A MPPT Charge Controller , DC Cables (Red & Black – 6mm<sup>2</sup>) , Solar Battery (12V 100Ah) – 4 Nos , Voltmeter , Ammeter , MC4 Connector (Male & Female ) – 5 pairs , 50-100 ft Measuring Tape , Compass , Clinometers , Spirit Level.

**SEWING TECHNOLOGY**

1. Poplin / Voile- 2 mtr.
2. Matching thread- 2 nos.
3. Button / Hooks - 6 nos.
4. Brown paper / Pattern paper- 2nos.
5. Tool kit- 1 nos.



**REFRIGERATION AND AIR CONDITIONING TECHNICIAN**

1. R-22 (Refrigerant)
2. R-22 (Refrigerant)
3. Brazing Gas
4. Brazing Rod
5. Brazing Flux
6. Cotton Waste
7. Wire (152 mm) copper
8. 100 watt Bulb
9. PVC Tape
10. Match box

**TECHNICIAN ELECTRONICS SYSTEM DESIGN & REPAIR**

1. Resistors of different values.
2. Diode 1N4007
3. IC7812
4. Capacitor 100 $\mu$ f,10 $\mu$ f
5. Varro Board

**MECHANIC TRACTOR**

1. Distilled water
2. Engine oil
3. Diesel
4. kerosene
5. Cotton waste
6. Detergent
7. Sand paper
8. Engine coolant
9. Grease

**MECHANIC AUTO BODY REPAIR**

1. MS sheet (150x50x2) mm=2 Nos
2. Body panel
3. Oxygen and Acetylene gas
4. Filler rod and Brazing rod
5. Degreasing cloth
6. Degreaser
7. Body filler with hardener
8. Round disk paper.
9. Cotton Cloth

**PAINTER-GENERAL**

1. A4 size drawing sheet.
2. Black poster colour.
3. 4 and 5 number flat brush.
4. A4 size drawing sheet.
5. Poster colour 1 box.
6. 2 number flat and round brush.
7. A1 size paper.
8. Black poster colour.



**PLASTIC PROCESSING OPERATOR**

1. High Density Polyethylene (HDPE) - 500 gram

**PLUMBER**

1. 150mm x 20mm Ø PPR Pipe 02 pc, 20mm socket
2. European water closet 01 pc, flushing cistern - 01 pc steel screw , white cement as per required, SWR pipe & fitting for wc connection as per required , CPVC pipe & fitting , cm solvent cement, for water supply connection as per required.

**MECHANIC ELECTRIC VEHICLE**

1. Relays
2. Diodes
3. Solenoids
4. DMM

**TECHNICIAN MECHATRONICS**

1. Mild Steel Flat (65\*55\*5) mm =2 each

**MECHANIC MINING MACHINERY**

- 1 MS Flat (55x55mm)
- 2 Diesel 10 ltr.
- 3 MS Rod(Ø35)

**MECHANICAL MACHINE TOOL MAINTENANCE**

1. Cast Iron Cube (60 X 60 X 60) mm

**MECHANIC MOTOR VEHICLE**

1. Vehicle/ engine with starter motor
2. Trainees tool kit
3. Multimeter
4. Copper bush
5. Emery paper( 80)
6. Battery cable
7. 12v battery
8. Crank shaft
9. Cotton waste
10. Kerosene oil
11. Outside micrometer (25-50 and 50-75)
12. Dial gauge
13. V' block
14. Distilled water
15. Electrolyte
16. Cell tester
17. Hydrometer



**OPERATOR ADVANCED MACHINE TOOLS**

1. CI Block ( 100 x 50 x50 )mm

**ELECTRONICS MECHANIC**

1. Assorted scr, triac, diac, ujt, mosfet
2. Zener diode 5.6v
3. Hook up wires
6. IC 555
7. Resistors 330 $\Omega$ , 470 $\Omega$ , 1k $\Omega$ , 10k $\Omega$
8. Capacitors 0.01 $\mu$ f, 0.1 $\mu$ f, 4.7 $\mu$ f
9. Preset 10k $\Omega$

**TEXTILE WET PROCESSING TECHNICIAN**

1. Cotton Fiber, wool fiber, silk fiber.
2. Hydrochloric acid
3. Sulphuric acid
4. MS flat (155x55x5 mm)

**SHEET METAL WORKER**

1. G.I Sheet- 600X4500X0.45 mm(26 SWG)
2. 20 nos. Rivet Size M4\* 12mm

**INDUSTRIAL ROBOTICS & DIGITAL MANUFACTURING TECHNICIAN**

1. Pneumatic Tubing, Push-to-Connect Fittings Gripper, Pneumatic Valves.
2. Air Compressor, Pressure Regulator, Tubing Cutter, Thread Sealant Tape Spanner/Wrench, Air Filter.

**DRONE PILOT (JUNIOR)**

1. Solder Wire.
2. Soldering Paste.
3. 1.5mm Heat Shrink tube black 10cm
4. Double sided Tape
5. Silicon Wire 16AWG 20 cm

**MANUFACTURING PROCESS CONTROL & AUTOMATION**

1. Computer System
2. PLC Programming Software: For creating and testing the ladder logic, such as Siemens TIA Portal, Allen-Bradley RS Logix, or Schneider Electric Ecostruxure.
3. SCADA Software: For designing the SCADA interface and simulating control and monitoring, such as Ignition, Wonder ware, or Sremens Win CC.

**PUMP OPERATOR CUM MECHANIC**

- |                               |  |
|-------------------------------|--|
| 1. Cotton Waste-              | 2 Kg.  |
| 2. Emery Sheet-               | 180 MM (5 Pcs)-120 MM (5Pcs), 60 MM (5 Pcs). |
| 3. Soldering iron-            | 40 W-2 pcs.                                  |
| 4. Solder-                    | Soft Solder-2 Pcs.                           |
| 5. Flux-                      | 100gm-2 Pcs.                                 |
| 6. Diesel-                    | 5 Ltr.                                       |
| 7. Single Strand Copper wire- | 0.75mm-1 Coil.                               |
| 8. PVC Elbow                  | 25 MM 04 Pcs.                                |
| 9. PVC Valve                  | 25 MM 01 No                                  |
| 10.PVC Tee                    | 25 MM 04 Nos.                                |



**SMARTPHONE TECHNICIAN CUM APP TESTER**

1. DMM
2. Old Hand set
3. Solder
4. Flux

**ADVANCED CNC MACHINING**

1. MS Round Bar 150mm, Dia-  $\phi$  40

**IoT TECHNICIAN (SMART AGRICULTURE)**

1. Sensor trainer-kit.
2. Arduino UNO
3. DC motor
4. Motor driver
5. Jumper Wires
6. PV module Analyzer
7. Digital Trainer kit

**IoT TECHNICIAN (SMART CITY)**

1. Arduino Uno.
2. Diode, Transistors, Resistors, Capacitors, Inductors
3. Bluetooth module
4. Solar trainer kit
5. Led, Buzzer
6. Jumper Wires

**IoT TECHNICIAN ( SMART HEALTHCARE)**

1. Respiration Rate Monitor Trainer Kit
2. Servo Motor
3. Arduino UNO
4. Jumper Wires
5. Resistors, SMD Resistors

**ELECTRICIAN-POWER DISTRIBUTION**

1. SPDT Switch 6A, 250v- 01 no.
2. Resistors –different values
3. Connecting leads 14/0.2mm-01no.
4. PVC insulated copper wire-as required
5. Lug board-01 no.
6. Toggle switch-01 no.
7. SPST Switch 1A-02 nos.
8. Patch chord-as required
9. Diode in 4007-04 nos
10. Step down transformer 240/12 v-02 no.
11. Bread board 150x150mm-02 nos.

**MAINTENANCE MECHANIC (CHEMICAL PLANT)**

- 1 Filter paper- 01 pkt.
- 2 Blue and red litmus paper- 01 pkt each
- 3 Coconut oil- 500ml
- 4 NaoH Crystal- 500gm
- 5 NaCL Crystal- 500gm
- 6 Distilled water- 01ltr.

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

