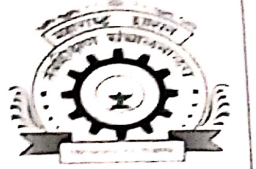


शासकीय तंत्रनिकेतन मुंबई



(महाराष्ट्र शासनाची शैक्षणिक स्वायत्त संस्था)
४९, खैरबादी, अली यावर जंग मार्ग, बंद्रे (पूर्व), मुंबई - ४०००५१
दूरध्वनी : ९०२९००१२२५ संकेतस्थळ : www.gpmumbai.ac.in
ई-मेल : gpmumbai@gpmumbai.ac.in
पाचार्य ई-मेल : Principal.gpmumbai@dtmaharashtra.gov.in
Principal@gpmumbai.ac.in
कार्यालय ई-मेल : office.gpmumbai@dtmaharashtra.gov.in



No:GPM/store-Q/2023-2024/ 2205
Date :- 13th December, 2023

Invitation for Quotation

1. Institute Website
2. Institute Notice Board
3. desk11@dtmaharashtra.gov.in/ mrkirad@gmailcom
4. romumbai@dtmaharashtra.gov.in / jrnikhade@gmailcom
5. rbtemumbai@msbte.com
6. Collector.mumbaisuburb@maharashtra.gov.in

Sub:- Quotation for Consumable Materials (due on dt.18/1/2024)

Please send your sealed quotation for the following items on the terms and conditions mentioned below. The quotation should be reached at institute on or before 13/1/2024.

ANNEXURE

Sr.No.	Name of the item with specification	Quantity
	Attached ANNEXURE - A	

TERMS AND CONDITIONS

1. The Quotations must be submitted in the drop box kept in store on or before the 5.00 pm. Dt. 18/1/2024 Quotations will be opened next day at 3.30pm .
2. Taxes if extra should be mentioned in your offer letter separately. Otherwise rates will be calculated as including taxes.
3. Rate should be valid for 6 Months from the date of confirmation letter.
4. Due any circumstances if you not able to supply the goods as per or requirements, you have to inform us accordingly immediately
5. The undersigned reserves the right to accept or reject any offer or all offers without assigning any reason thereof.

(Dr. Nitiket N. Mhala)
Principal,

Govt. polytechnic ,Bandra, Mumbai

Copy to-

The Head of the IT Dept.for publishing on the Institute's webside in time limit.



ANNEXURE - A (page No. 1)

Sr No.	Name of the item with specification	Quantity	Remark
		02	Electrical Dept.
01	कॉम्बीनेशन प्लायर 8" "(टपारिया मेक)	04	
02	नियॉन टेस्टर 440 वोल्ट "(टपारिया मेक)	04	
03	वायर स्टिपर 6 "(टपारिया मेक)	01 बॉक्स	
04	इन्सुलेशन टेप (30 नग)	12	
05	रजिस्टर 100 पानी	12	
	रजिस्टर 200 पानी	02	
06	150 एम.एम. कनेक्टर	02	
07	200 एम.एम इन्सुलेटेड स्कु ड्रायव्हर "(टपारिया मेक)	01	
08	क्ला हॅमर 0.25 kg.	01 बंडल	
09	प्लेक्झिबल वायर 1 sq/mm (पॉलिक्ब मेक) 90 मीटर	01 पॅकेट	
10	केबल टाय 100 एम.	01 पॅकेट	
11	केबल टाय 150 एम.	01 पॅकेट	
12	केबल टाय 200 एम.	01 पॅकेट	
13	केबल टाय 250 एम.	01 पॅकेट	
14	यु नेल क्लिप 5 एम.	01 पॅकेट	
15	यु नेल क्लिप 7 एम.	01 पॅकेट	
16	यु नेल क्लिप 10 एम.	01 बॉक्स	
17	25 x 8 वुडन स्कु	01 बॉक्स	
18	35 x 8 वुडन स्कु	01 बॉक्स	
19	45 x 8 वुडन स्कु	25 No.	
20	LED Tube Light 22 Watt	25 No.	
21	Single Pole Switch , 6 Amp Anchor Make	25 No.	
22	5 pin Socket , 6 Amp Anchor Make	25 No.	
23	Single Pole Modular Switch , 6 Amp Anchor Make	20 No.	
24	5 pin Modular Socket , 6 Amp Anchor Make	15 No.	
25	3 Pin Top, , 6 Amp Anchor Make	01 Box	
26	3 Pin Top, , 16 Amp Anchor Make	04 Nos	
27	Insulation Tape , 12 mm	10 Nos.	
28	Multi Testing Line Tester , 440 v	05 Nos	
29	Drill Bit Concrete , 5 mm	05 Nos	
30	Drill Bit Metal, 3 mm	05 Nos	
31	Drill Bit Metal, 5 mm	05 Nos	
32	Drill Bit Metal, 7 mm	50 Nos.	
33	Capacitor, 3.5 Mfd	05 Nos	
34	Cable Tie, 100.mm	05 Nos	
35	Cable Tie, .150,mm	05 Nos	
36	Cable Tie, ,200,mm	05 Nos	
37	Cable Tie, ,250,mm	05 Nos	
38	Cable Tie, ,300mm	05 Nos	
39	MCB 1 Pole, 16. Amp	05 Nos	
40	MCB 1 Pole, .32,, Amp	05 Nos	

ANNEXURE - A (page No. 2)

Sr.No.	Name of the item with specification	Quantity	Remark
		05 Nos	Electrical Dept.
41	MCB 1 Pole, ,64, Amp	05 Nos	
42	MCB 2 Pole, 16. Amp	05 Nos	
43	MCB 2 Pole, .32,, Amp	05 Nos	
44	MCB 2 Pole, ,64, Amp	05 Nos	
45	MCB 3 Pole, 16. Amp	05 Nos	
46	MCB 3 Pole, .32,, Amp	05 Nos	
47	MCB 3 Pole, ,64, Amp	05 Nos	
48	MCB 4 Pole, 16. Amp	05 Nos	
49	MCB 4 Pole, .32,, Amp	05 Nos	
50	MCB 4 Pole, ,64, Amp	05 Nos	
51	MCB 1 Pole, ,Modular Type 6, Amp	05 Nos	
52	MCB 1 Pole, ,Modular Type 10, Amp	05 Nos	
53	MCB 1 Pole, ,Modular Type 16, Amp	05 Nos	
54	MCB 1 Pole, ,Modular Type 32 Amp	05 Nos	
55	1.5 Sq/mm Flexible Wire (Multi Stand) Red, Color	03 No.	Lab.No.007 / 106 A
56	1.5 Sq/mm Flexible Wire (Multi Stand) Yellow, Color	03 No.	& 106 B / 106 C
57	1.5 Sq/mm Flexible Wire (Multi Stand) , Blue Color	03 No.	
58	1.5 Sq/mm Flexible Wire (Multi Stand) , Black Color	03 No.	
59	Electric Hand Tools , 6" Combination Piler,	03 No.	
60	Electric Hand Tools , Wire Stripper.	03 No.	
61	Electric Hand Tools , Neon Tester 440v..	03 No.	
62	Electric Hand Tools , Insulated Screwdriver Set, 250 grm.	03 No.	
63	Electric Hand Tools , Straight pin Hammer .	01 No.	
64	Network Switch (Manageable Switch)	10 Nos	
65	Antivirus Software,Quick Heal	200 No	
66	LED Tube Light 22 Watt	150 No	
67	Fan capcitor 2.5 Watt	30 Nos	
68	Insulation Tape ,	04 Nos.	
69	Electric Tester 40 V.,Tapariya Make	03 Nos	
70	Insulation Player 8" , Tapariya Make	05 Nos	
71	Wire Stripar 6 " Tapariya Make	05 Nos	Workshop
72	MR ग्रेड प्लॉयवुड 8' x 4' x 18 mm	05 Nos	
73	सनमायका, 8' x 4' x 1 mm ,Brown Colour	50 Nos	
74	Teak wood बिडींग पट्टी 20 mm x 06 mm x 4 Fut	03 Kg.	
75	फेविकाॅल	04 Ltrs.	
76	ऑईल पेन्ट	02 Ltrs.	
77	टर्पेनटाईन	04 Nos	
78	ब्रश 2"	06 Nos	
79	Foidable (Pocket) Measuring Tape ,3m long, 16mm width Steel Tape		

Govt. Poly. Bandra, Mumbai
ANNEXURE - A (page No. 3)

Sr.	Name of the item with specification	Quantity	Remark
80	First Aid Box	20 Nos	For all dept.
81	Black Board Duster	60 Nos	For all dept
82	Stapler Small	14 Nos.	
83	Stapler Pin Small Box	100 Nos.	
84	Sketch Pen	2 4 Nos.	
85	Whitner Pen	24 Nos.	
86	Ink Pad	12 Nos.	
87	Parmanen t Marker Pen (Black)	24 Nos.	
88	Parmanen t Marker Pen (White)	24 Nos.	
89	Punch Machine Small	12 Nos.	
90	U Pin	24 Box	
91	Dustless Chaik Box (White)	50 Box	All Dept.
92	Dustless Chaik Box (Colour)	11 Box	All Dept.
93	A4-Size Paper 75 gsm	100 Ream	
94	Pin	12 Box	
95	Box Files	50 Nos.	
96	Spring Files	120 Nos.	
97	Course Files	120 Nos.	
98	Stamp Pad Ink , 50 MI (Blue)	12 Nos.	
99	Stamp Pad	12 Nos.	
100	Pen Blue	12Nos	
101	Pen Red	12Nos	
102	Paper Weight	12Nos	
103	Cello Tape	12Nos	
104	Camel Gum Bottel 150 MI	24 Nos.	
105	Air Freshnaiers 240 ml	12 Nos.	
106	Fevisticks	12Nos	
107	Highlighter Yelow Colour	12Nos	
108	Drawing Pins	12 Box	
109	Paper Flags	24 Packets	
110	Nephthalene Ball 500 gm.Packet	24 packets	
111	Detergent Powder	25 kg.P	
112	Sunny -Phiynel (Floor Cleaner Liquid) 01 Ltr.	20 Nos..	
113	Sunny -Phiynel (Floor Cleaner Liquid) 05 Ltr.	10 Nos	
114	Wheel Powder 500 kg	02 Nos	
115	Soft Broom	48 Nos	
116	Hard Broom	24 Nos	
117	Bleaching Powder	05 Kg.	
118	Lifeboy Soap 100gm	24 Nos	
119	White Duster	24 Nos	
220	Dusbeen Small	24 Nos	
221	Plastick Stary	05 Nos	
222	Match Box	10 Nos.	
223	Scissor	03 Nos	

Govt. Poly. Bandra, Mumbai

ANNEXURE - A (page No. 4)

Sr.	Name of the item with specification	Quantity	Remark
224	Cold Mounting Resin(Powder +Liquied) for Metallograpgy , (Unit Kg.)	01 No	Mech. Dept
225	Lavigated Alumina Powder Grade III, (Unit Kg.)	01 No	
226	Hacksaw Blades (HSS),300mm x 13mm x 0.63mm, 24TPI	05 Nos.	
227	EN8 Steel Rod Dia 32 mm (Unit Kg.)	03 Nos.	
228	EN24 Steel Rod Dia 32 mm (Unit Kg.)	03 Nos.	
229	EN19 Steel Rod Dia 32 mm (Unit Kg.)	03 Nos.	
230	Polish Papers for polishing metalsurfaces of 80 grade	10 Nos	
231	Polish Papers for polishing metalsurfaces of 120 grade	10 Nos.	
232	Polish Papers for polishing metalsurfaces of 600 grade	10 Nos	
233	Polish Papers for polishing metalsurfaces of 1000 grade	10 Nos	
234	Polish Papers for polishing metalsurfaces of 1200 grade	10 Nos	
235	Safety Goggles	10 Nos	
236	Godrej Navtal , 7 Levers Roudnd Pad lock, Brass Fnish	03 Nos	
237	NITINOL Wire ,0.5mm diameter	01 meter	

List of Consumables (Instrumentation Dept.)

Sr. No	Name of subject	Name of Experiment / Topic	Specification of chart / cat log	Qty.	Remark
1	IM	Displacement Measurement Using LVDT	3x2 ft duly Laminated on both side, 5 mm thick Sun board sheet with 5 mm thicknes	1	
2	IM	Bourdon Tubes- C type	3x2 ft duly Laminated on both side, 5 mm thick Sun board sheet with 5 mm thicknes	1	
3	IM	water level using the capacitive level transducers	3x2 ft duly Laminated on both side, 5 mm thick Sun board sheet with 5 mm thicknes	1	
4	IM	Measurement of temperature using RTD and thermocouple	3x2 ft duly Laminated on both side, 5 mm thick Sun board sheet with 5 mm thicknes	1	
5	IM	To measure Flow rate using Rotameter	3x2 ft duly Laminated on both side, 5 mm thick Sun board sheet with 5 mm thicknes	1	
6	ICD	Op amp IC symbol, Pin diagram of IC741, OP-07	3x2 ft duly Laminated on both side, 5 mm thick Sun board sheet with 5 mm thicknes	1	
7	ICD	Instrumentation amplifier using 3 op amp	3x2 ft duly Laminated on both side, 5 mm thick Sun board sheet with 5 mm thicknes	1	
8	ICD	Active Filter using op amp	3x2 ft duly Laminated on both side, 5 mm thick Sun board sheet with 5 mm thicknes	1	
9	ICD	Signal conditioning of Strain Gauge	3x2 ft duly Laminated on both side, 5 mm thick Sun board sheet with 5 mm thicknes	1	
10	ICD	Op amp applications- Summing amplifier, Subtractor, Integrator, Differentiator, Comparator	3x2 ft duly Laminated on both side, 5 mm thick Sun board sheet with 5 mm thicknes	1	

List of Consumables (Instrumentation Dept.)

Sr. No	Subject	Component	Qty	Remark
1.	PCS & MIS	Pneumatic Air Tubing Hose Blue 8mm OD x 5mm ID PU Pipe Flexible (Working Pressure : 10 Bar, Length : 15 Meter)	1	For Conduction of Lab Practicals
2.	PCS & MIS	Pneumatic Air Tubing Hose Blue 6mm OD x 4mm ID PU Pipe Flexible (Working Pressure : 10 Bar, Length : 10 Meter)	1	For Conduction of Lab Practicals
3.	PCS & MIS	Pneumatic Straight Union 5mm x 5mm Push to Quick Connect Fittings 5mm Tube OD Hose Connector	10	For Conduction of Lab Practicals
4.	PCS & MIS	Pneumatic Straight Union 6mm x 6mm Push to Quick Connect Fittings 6mm Tube OD Hose Connector	10	For Conduction of Lab Practicals
5.	PCS & MIS	Taparia DEP o6 Double Ended Spanner Set (DEP-o6)	1	For Conduction of Lab Practicals
6.	PCS & MIS	Digital Multi-Meter	2	For Conduction of Lab Practicals
7.	PCS & MIS	TAPARIA Screw Driver Set with Bulb - 840 (Neon, Silver and Green)	2	For Conduction of Lab Practicals

List of Consumables (Instrumentation Dept.)

Sr.No.	Name of Consumable	Qty.	Remark
1	IC 741	50	
2	IC555	20	
3	OP-07	10	
4	Breadboard	20	
5	Registers of Different Values (1k Ω , 2k Ω , 4.7k Ω , 10k Ω , 12k Ω , 15k Ω , 20K Ω , 100k Ω and 82 Ω , 470 Ω) Pack	1	
6	1K POT	10	
7	10 K POT	10	
8	10 k NTC Thermister	5	
9	0.01 microfarad ceramic Capacitor	20	
10	0.1 microfarad ceramic Capacitor	20	
11	0.001 microfarad ceramic Capacitor	20	
12	9 V Battery (For Multimeter)	15	
13	Multimeter	5	
14	Connecting single stand wire	2 bundle	
15	IC 7805 Voltage Regulator	10	
16	Multimeter connecting probes	10	
17	CRO connection Probes	10	
18	22 K POT	10	
19	5 mm RED LED	25	
20	5 mm Yellow LED	25	
21	5 mm Green LED	25	
22	Brown Tape	5	
23	Capacitors (electrolytic): 1 μ F 16V, 10 μ F 25V, 22 μ F 25V, 100 μ F 25V, 220 μ F 25V 1000 μ F 50V	10	
24	Ultrasonic sensor module	5	
25	Temperature sensor module: LM35	5	
22	Permanent Marker	5	
23	Cello Tape (1 inch wide)	5	
24	IC LM324	10	
25	Photo Diode	10	

Applied Electronics, Microcontroller Advanced Embedded Systems Consumables List

Sr.	Modules/ Components	Qty.	Remark
1	Two Colour LED Module	5	
2	RGB LED Module	5	
3	Push Button Module	5	
4	Breadboard Power Supply Module	5	
5	Photoresistor Sensor Module	5	
6	Tilt Sensor Module	5	
7	Reed Switch Module	5	
8	Magnetic Hall Sensor Module	5	
9	Infrared Obstacle Avoidance Sensor Module	5	
10	PIR Sensor Module	5	
11	Rotary Encoder Module	5	
12	Speed Sensor Module	5	
13	Infrared Flame Detection Sensor Module	5	
14	Active Piezo Buzzer Module	5	
15	Passive Piezo Buzzer Module	5	
16	Microphone Sound Sensor Module	5	
17	NTC Thermistor Temperature Sensor Module	5	
18	MQ2 Gas Sensor Module	5	
19	HC-SR04 Ultrasonic Module	5	
20	DHT11 Humidity and Temperature Sensor Modules	5	
21	DHT22 Humidity and Temperature Sensor Modules	5	
22	Dual Axis Joystick Module	5	
23	5V Relay Module (4 relay)	5	
24	DS1307 RTC module	5	
25	Infrared Receiver Module	5	
26	Infrared Transmitter Module	5	
27	Laser Transmitter Module	5	
28	Laser Receiver Module	5	
29	Knock Sensor Module	5	
30	Soil Moisture Sensor Module	5	
31	BMP180 Barometric Pressure Sensor Module	5	
32	MPU6050 Accelerometer / Gyroscope Module	5	
33	Logic Level Converter Module	5	
34	RF433MHz Transmitter and Receiver pair	5	
35	NRF Transmitter and Receiver pair	5	
36	HC-05 Bluetooth Module	5	
37	Xbee Pro S2C Module	2	
38	SIM800A GSM module	2	
39	OV7670 Camera Module	5	
40	Jumper wires: male-male (40 wires Ribbon)	5	

Applied Electronics, Microcontroller Advanced Embedded Systems Consumables List

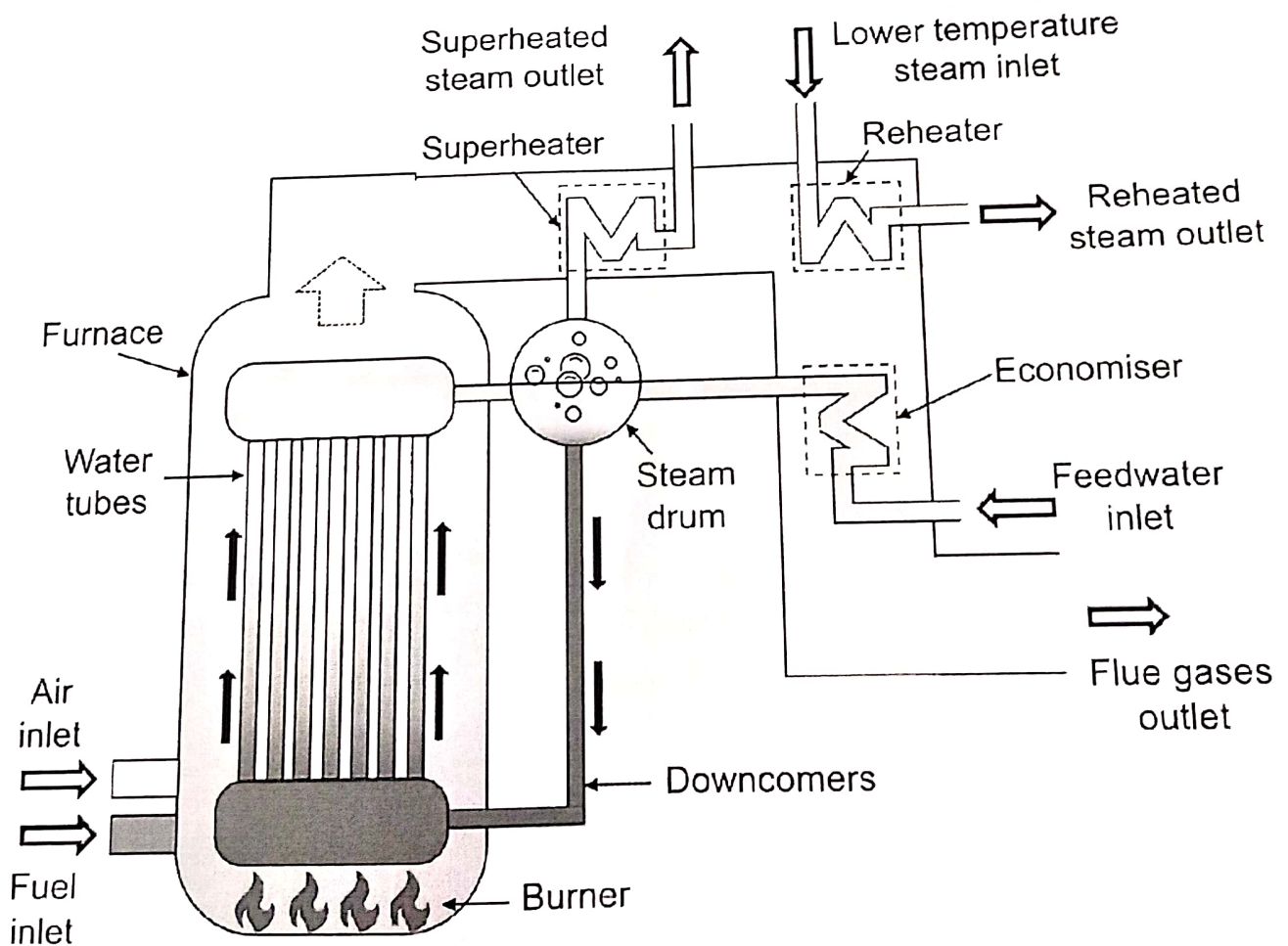
Sr.	Modules/ Components	Qty.	Remark
41	Jumper wires: male- female (40 wires Ribbon)	5	
42	Jumper wires: female-female (40 wires Ribbon)	5	
43	TYN612	20	
44	BT36	20	
45	Temp. Therometer (0 to 100 degree Celcius	2	
46	Solid state Relay DC	5	
47	Solid State Relay AC	5	
48	0.3mm single core wire bundle	2	
49	Transformers 24-0-24, 1 Amp	5	
50	Transformers 12-0-12, 1 Amp	5	
51	Transformers 6-0-6, 1 Amp	5	
52	Wire stripper	5	
53	Soldering Gun	5	
54	Soldering Metal 0.5Kg	1	
55	Red Black twisted pair flexible wire 1 bundle	1	
56	RS232 to USB converter cable	5	
57	Micro USB to USB Cable	5	

List of charts to be purchased are required for respective courses.

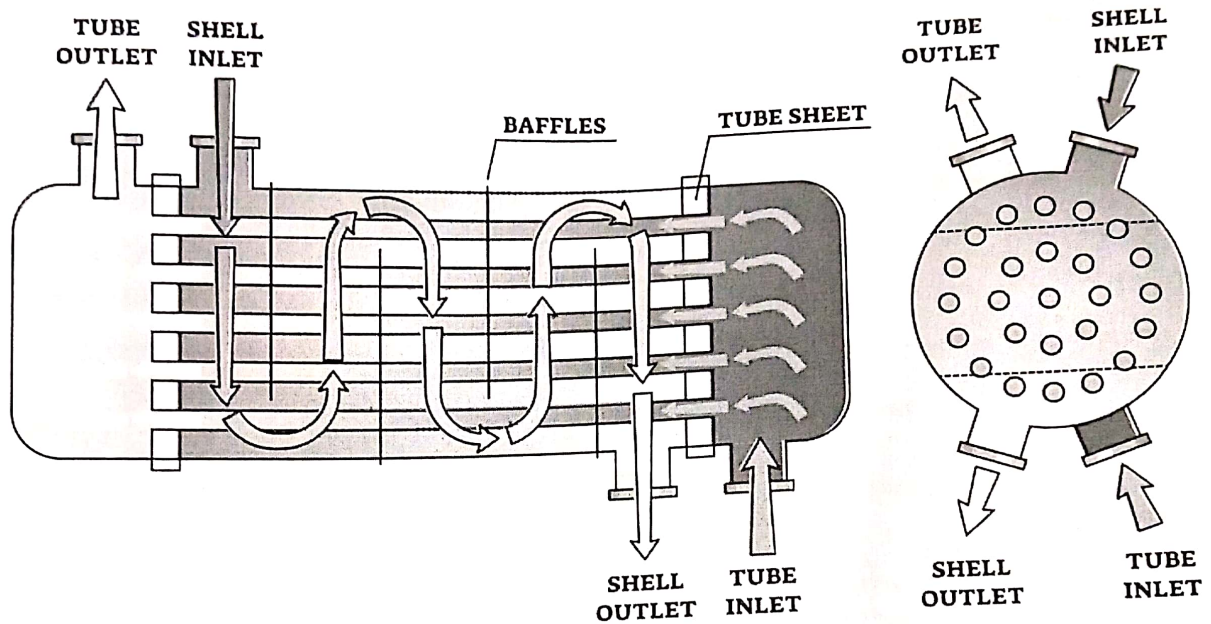
Sr. No.	Name of subject	Name of experiment/topic	Specification of chart	Qty.	Remark
1	Unit operation	Boiler	3x2 ft. Laminated Sunboard sheet of 5mm thickness	1	
2		Heat exchanger	3x2 ft. Laminated Sunboard sheet of 5mm thickness	1	
3		Evaporator	3x2 ft. Laminated Sunboard sheet of 5mm thickness	1	
4		Distillation	3x2 ft. Laminated Sunboard sheet of 5mm thickness	1	
5		Dryer	3x2 ft. Laminated Sunboard sheet of 5mm thickness	1	
		Crystallizer	3x2 ft. Laminated Sunboard sheet of 5mm thickness	1	

Mr. Uday.B.Shinde
Lecturer instrumentation

Boiler

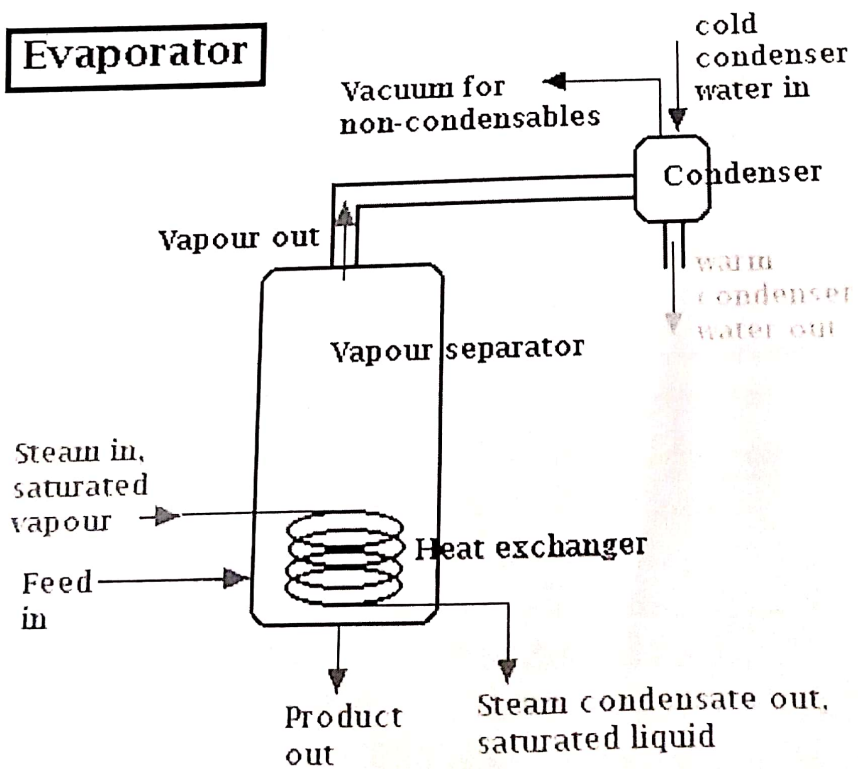


Heat exchanger

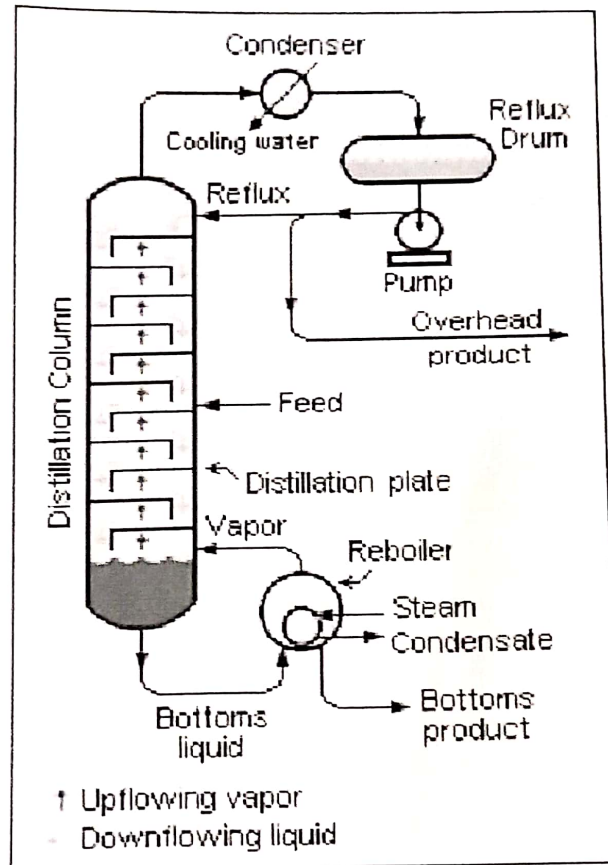
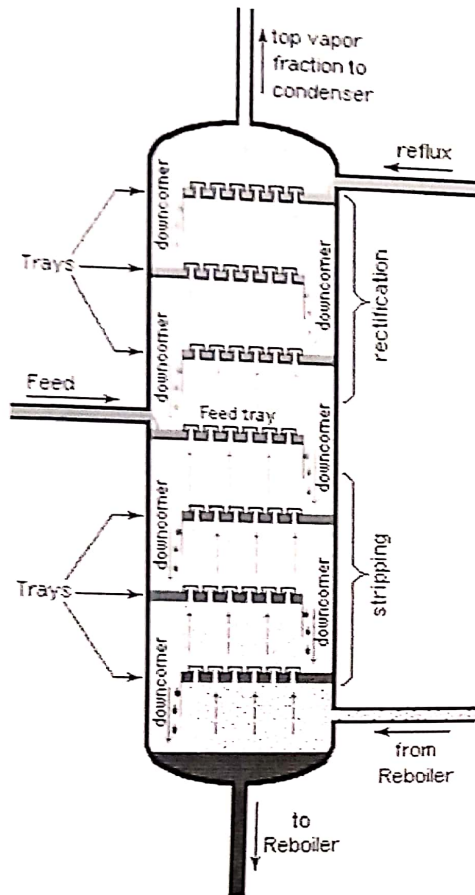


Evaporator

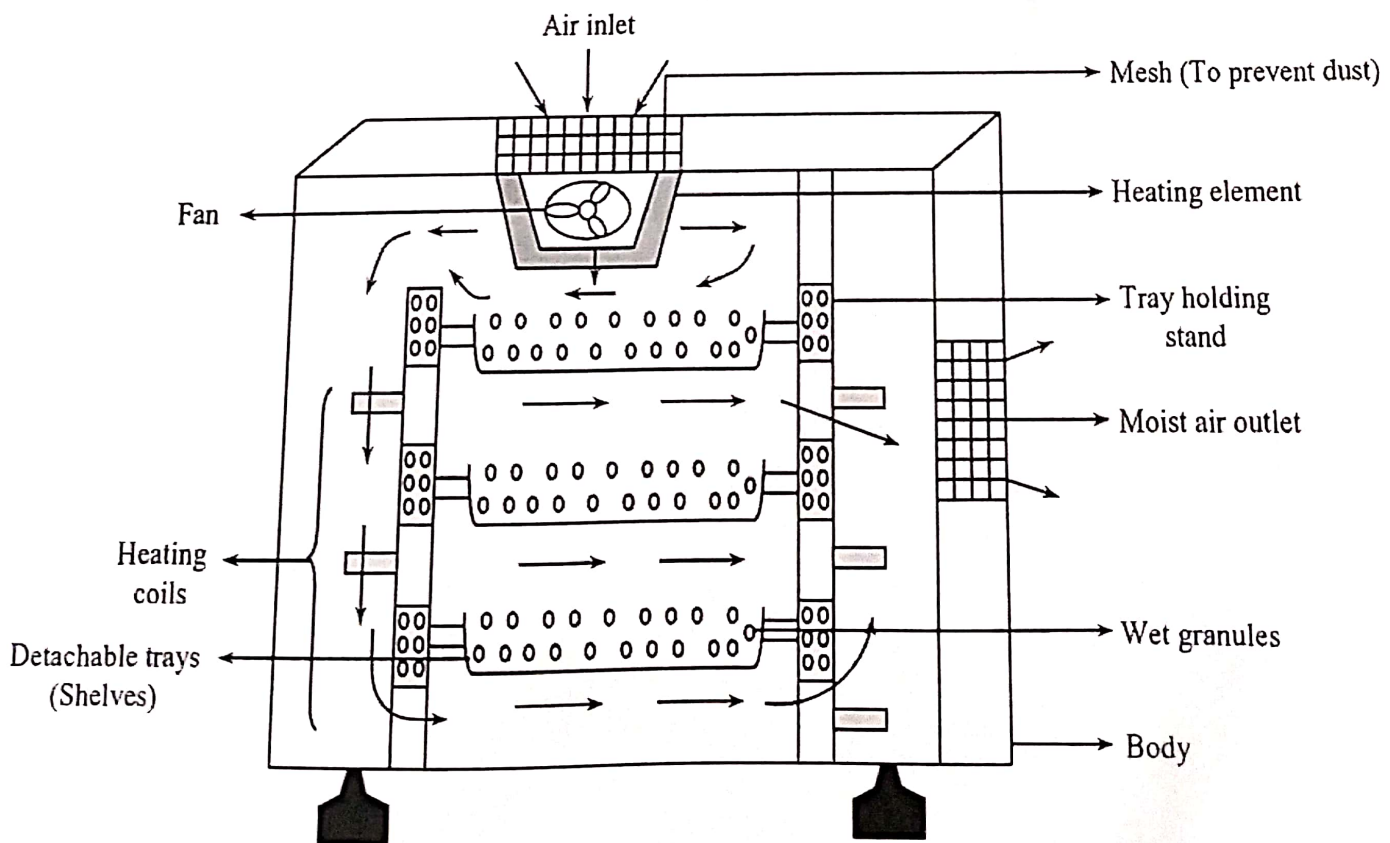
Evaporator



Distillation

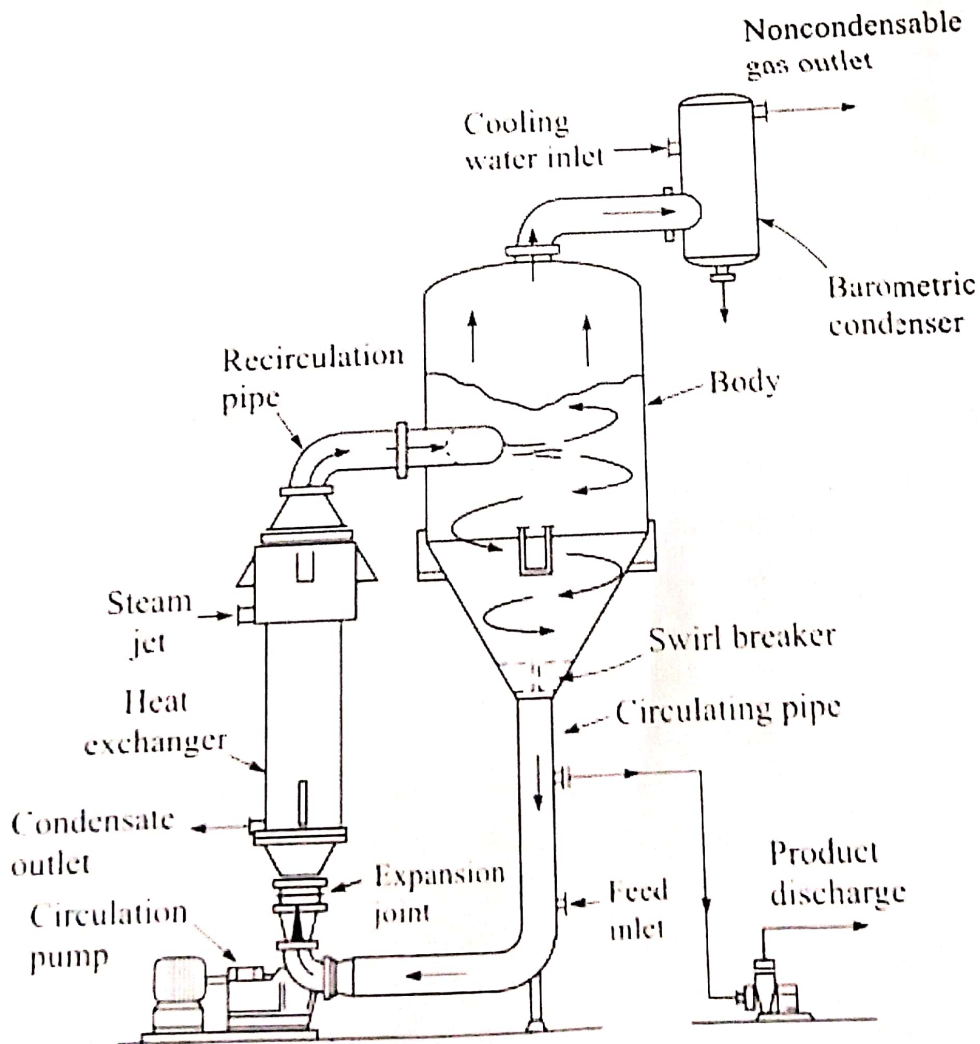
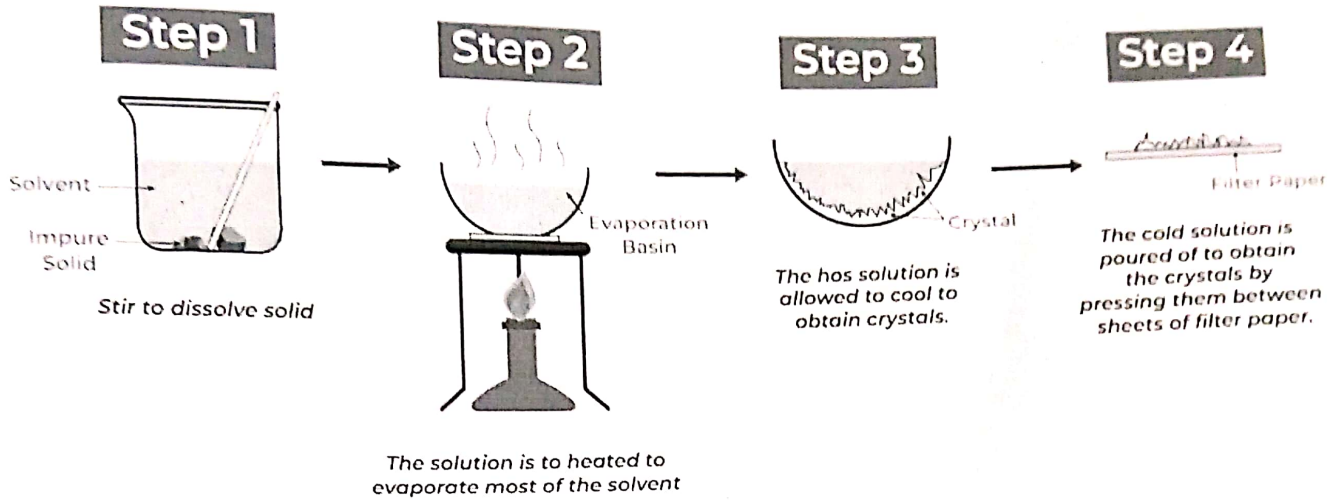


Dryer



Crystallizer

Crystallization



List of charts to be purchased are required for respective courses.

Sr. No.	Name of subject	Name of experiment/topic	Specification of chart	Qty.	Remark
1	Biomedical Engineering	Cardiovascular System	3x2 ft. Laminated Sunboard sheet of 5mm thickness	1	
2		Respiratory system	3x2 ft. Laminated Sunboard sheet of 5mm thickness	1	
3		Nervous system	3x2 ft. Laminated Sunboard sheet of 5mm thickness	1	
4		Different types of physiological system of human body	3x2 ft. Laminated Sunboard sheet of 5mm thickness	1	
5		Biomedical recorder- ECG, EMG, EEG	3x2 ft. Laminated Sunboard sheet of 5mm thickness	1	
6	Digital Techniques	Digital logic gate -NOT, AND, OR, NAND, NOR, EX-OR, EX-NOR (Function, Symbol, Pin out Diagram, Boolean expression, Truth table)	3x2 ft. Laminated Sunboard sheet of 5mm thickness	1	
7		Flip flop- SRFF, DFF, TFF, JKFF (Symbol, Pin out Diagram, Boolean expression, Truth table)	3x2 ft. Laminated Sunboard sheet of 5mm thickness	1	
8		NAND and NOR as universal gate (Symbol, circuit Diagram, Boolean expression, Truth table)	3x2 ft. Laminated Sunboard sheet of 5mm thickness	1	
9		Different types of shift register	3x2 ft. Laminated Sunboard sheet of 5mm thickness	1	
10		Different types of COUNTER	3x2 ft. Laminated Sunboard sheet of 5mm thickness	1	
11	Electronic measurement and instrumentation	Different types of analog instrument (PMMC instrument principle, DC ammeter, DC voltmeter, Ohmmeter)	3x2 ft. Laminated Sunboard sheet of 5mm thickness	1	
12		Different types of Digital instrument (Ammeter, voltmeter, digital frequency counter, DMM)	3x2 ft. Laminated Sunboard sheet of 5mm thickness	1	
13		CRO- Principle, construction, block diagram	3x2 ft. Laminated Sunboard sheet of 5mm thickness	1	
14		DSO- Principle, construction, block diagram	3x2 ft. Laminated Sunboard sheet of 5mm thickness	1	

Mrs. S.T. Shinde
Lecturer instrumentation

Subject: POWER PLANT INSTRUMENTATION
List of charts/CatLog

Sr.	Experiment/Topic	Specifications	Qty	Remarks
01	Thermal Power Plant	3x2 ft duly laminated on bothside, Sunboard with 2mm thickness.	02	
02	Hydro-Electric Power Plant		02	
03	Coal handling System		02	
04	Ash handling system		02	
05	Nuclear Power Plant		02	
06	Gas Power Plant		02	
07	Tidal Power plant		02	
08	Solar Power Plant		02	
09	Types of High Pressure Boiler		02	
10	Piping and Instrumentation Diagram of Boiler		02	
11	Types of turbine		02	
12	Types of Nuclear reactor		02	
13	Wind Power Plant		02	

In-charge Teacher