

ii) Detail of infrastructure

Location	Rural
North Eastern States/Land in Hilly Area	No
Number of pieces of Land	1
Land Piece Area 1 in acres	5.1
Latitude and Longitude	Latitude - 31, 33, 47 Longitude - 76, 51, 56
Total area in acres	5.1
Land registered with	DREAMZ EDUCATIONAL SOCIETY
Land registration date	06/03/2009
Land Use Certificate issued by	Tehsildar
Land Use Certificate date	06/03/2009
Land ownership details	Registered Sale Deed

Sr. No.	Land Registration No	Date of Registration	Area of Land (acres)	Khasra Number (4)	Plot Number, Survey Number, etc	Land Situated At	Land Registered in the name Of(7)	Ownership or Govt Lease(8)	Land Use Certificate Issued(9)	Land Use Certificate Issuing Authority (10)
1	375/2009	07/03/2009	5.1	100,109, 819/110, 131,190, 197,198, 203,204, 207,208	100,109, 819/110, 131,190, 197,198, 203,204, 207,208	Kawalkot	Dreamz Educational Society	Ownership	Yes	Tehsildar

Building status	Available
Total built up area planned (Sq.mts)	9700
Total built up area ready (Sq.mts)	9600
Total Instructional area (carpet area) ready in (Sq.mts)	5300
Total Administrative area (carpet area) ready in (Sq.mts)	950
Total Amenities area (carpet area) ready in (Sq.mts)	980
Activities in the building other than AICTE approved courses(if any)	NO

Sr. No.	Level	Building Number	Building Name	Room Type	Room Number	Average Carpet Area	Furniture & Fixtures
1	DIPL OMA	1	Polytechnic	Class room	13	80	Ready
2	DIPL OMA	1	Polytechnic	Class room	14	80	Ready
3	DIPL OMA	1	Polytechnic	Class room	15	80	Ready
4	DIPL OMA	1	Polytechnic	Class room	16	80	Ready
5	DIPL OMA	1	Polytechnic	Class room	17	80	Ready
6	DIPL OMA	1	Polytechnic	Class room	18	80	Ready
7	DIPL OMA	1	Polytechnic	Class room	19	80	Ready
8	DIPL OMA	1	Polytechnic	Class room	2	80	Ready
9	DIPL OMA	1	Polytechnic	Class room	20	80	Ready
10	DIPL OMA	1	Polytechnic	Class room	21	80	Ready
11	DIPL OMA	1	Polytechnic	Class room	22	80	Ready
12	DIPL OMA	1	Polytechnic	Class room	23	80	Ready
13	DIPL OMA	1	Polytechnic	Class room	24	80	Ready
14	DIPL OMA	1	Polytechnic	Class room	25	80	Ready

15	DIPL OMA	1	Polytechnic	Class room	26	30	Ready
16	DIPL OMA	1	Polytechnic	Class room	27	30	Ready
17	DIPL OMA	1	Polytechnic	Class room	28	30	Ready
18	DIPL OMA	1	Polytechnic	Class room	29	30	Ready
19	DIPL OMA	1	Polytechnic	Class room	3	80	Ready
20	DIPL OMA	1	Polytechnic	Class room	30	30	Ready
21	DIPL OMA	1	Polytechnic	Class room	31	60	Ready
22	DIPL OMA	1	Polytechnic	Class room	32	150	Ready
23	DIPL OMA	1	Polytechnic	Class room	33	95	Ready
24	DIPL OMA	1	Polytechnic	Class room	35	80	Ready
25	DIPL OMA	1	Polytechnic	Class room	36	70	Ready
26	DIPL OMA	1	Polytechnic	Class room	4	80	Ready
27	DIPL OMA	1	Polytechnic	Class room	5	80	Ready
28	DIPL OMA	1	Polytechnic	Drawing Hall	6	200	Ready
29	DIPL OMA	1	Polytechnic	Computer Center	7	150	Ready
30	DIPL OMA	1	Polytechnic	Laboratory	8	2390	Ready
31	DIPL OMA	1	Polytechnic	Workshop	9	600	Ready

Instructional Area Common facilities

Building Number	Building Name	Room Type	Room Id	Area (Sq.mts)	Furniture & Fixtures
1	Polytechnic	Computer Center	1	200	Ready
1	Polytechnic	Library & Reading Room	2	300	Ready

Administrative Area

Sr. No.	Building Name	Room Type	Room Id	Area (Sq.mts)	Furniture & fixtures
1	polytechnic	Principal Directors Office	1	40	Ready
2	polytechnic	Housekeeping	10	10	Ready
3	polytechnic	Placement Office	11	30	Ready
4	polytechnic	Pantry for Staff	12	30	Ready
5	polytechnic	Office All Inclusive	2	150	Ready
6	polytechnic	Reception Area	3	40	Ready
7	polytechnic	Department Office	4	40	Ready
8	polytechnic	Faculty Room	5	250	Ready
9	polytechnic	Central Store	6	45	Ready

10	polytechnic	Exam Control Office	7	30	Ready
11	polytechnic	Maintenance	8	10	Ready
12	polytechnic	Security	9	10	Ready

Amenities Area

Sr. No.	Building Name	Room type	Room Id	Area (Sq.mts)	Furniture & Fixtures
1	Polytechnic	Stationery Store	1	40	Ready
2	polytechnic	Student activity / GCR	10	90	Ready
3	polytechnic	Toilet	2	210	Ready
4	polytechnic	Boys Common Room	3	75	Ready
5	polytechnic	Girls Common Room	4	75	Ready
6	polytechnic	First aid cum Sick Room	5	25	Ready
7	Boys Hostel	Boys' Hostel	6	900	Ready
8	Girls Hostel	Girls' Hostel	7	900	Ready
9	Canteen	Cafeteria	8	150	Ready
10	polytechnic	Auditorium	9	300	Ready

Circulation Area

Sr. No.	Building Number (1)	Building Name (2)	Area Type (3)	Average Carpet Area (Sq.mts) (4)	Flooring (5)	Wall & Painting(6)	Elec & Lighting (7)	Furniture & fixtures(8)	Sanitary Fittings (9)
1	1	Polytechnic	Corridors	380	Yes	Ready	Ready	Ready	Y
2	1	Polytechnic	Other Common Area (in Sq m)	230	Yes	Ready	Ready	Ready	Y

Other Facilities

All Weather Approach (Motorized Road)	YES
Backup Electric Supply	YES
Barrier free Environment	YES
CCTV Security	YES

ERP Software	YES
Electric Supply	YES
General Insurance	YES
Group Insurance	YES
Institution Web Site	YES
Insurance for Students	YES
Stand Alone Language Laboratory (Minimum 25 PCs/Laptop up to total intake of 1000.Further additional 25 PCs/Laptop per intake of 1000):	YES
Medical & Counseling facilities	YES
Notice Boards	YES
Public Announcement System	YES
Potable Water Supply	YES

Post & Banking/ATM	NO
Projectors in Classrooms	YES
Safety Provisions including fire and other calamities	YES
Sewage Disposal System	YES
Staff Quarters	YES
Telephone & FAX	YES
Transport Facility	YES
Vehicle Parking Facility	YES
First Aid Facility	YES
Rain Water Harvesting	NO
Solar Power Systems	NO
Appointment Of Student Counselor	YES
Establishment Of Anti Ragging Committee	YES
Establishment Of Committee For SC/ST	YES
Establishment of Internal Complaint Committee (ICC) Committee As per section 4 of Sexual Harassment of Women at Workplace(Prevention, Prohibition and Redressal) Act, 2013	YES
Establishment of Grievance Redressal Committee in the Institute and Appointment of OMBUDSMAN by the University	YES

Labs Detail

Sr. No.	Level	Course	Building Number	Building Name	Name of Lab
1	DIPL OMA	AUTOMOBILE ENGINEERING	1	POLYTECHNIC	AUTO MAINTENANCE LAB
2	DIPL OMA	AUTOMOBILE ENGINEERING	1	POLYTECHNIC	AUTO LAB
3	DIPL OMA	ELECTRONICS AND COMMUNICATIONS	1	POLYTECHNIC	BASIC ELECTRONICS LAB
4	DIPL OMA	ELECTRICAL ENGINEERING	1	POLYTECHNIC	BASIC ELECTRICAL ENGINEERING
5	DIPL OMA	ELECTRONICS AND COMMUNICATIONS	1	POLYTECHNIC	BASIC ELECTRONICS LAB
6	DIPL OMA	MECHANICAL ENGINEERING	1	POLYTECHNIC	CNC LAB
7	DIPL OMA	ELECTRONICS AND COMMUNICATIONS	1	POLYTECHNIC	COMMUNICATION LAB
8	DIPL OMA	CIVIL ENGINEERING	1	POLYTECHNIC	CONCRETE TECHNOLOGY
9	DIPL OMA	CIVIL ENGINEERING	1	POLYTECHNIC	CONSTRUCTION MATERIAL
10	DIPL OMA	ELECTRONICS AND COMMUNICATIONS	1	POLYTECHNIC	DIGITAL ELECTRONICS
11	DIPL OMA	ELECTRICAL ENGINEERING	1	POLYTECHNIC	ELECTRICAL MACHINE LAB
12	DIPL OMA	ELECTRICAL ENGINEERING	1	POLYTECHNIC	ELECTRICAL MEASUREMENT LAB
13	DIPL OMA	MECHANICAL ENGINEERING	1	POLYTECHNIC	FLUID MECHANIC
14	DIPL OMA	MECHANICAL ENGINEERING	1	POLYTECHNIC	MATERIAL SCIENCE LAB
15	DIPL OMA	MECHANICAL ENGINEERING	1	POLYTECHNIC	METROLOGY AND INSTRUMENTATION
16	DIPL OMA	ELECTRONICS AND COMMUNICATIONS	1	POLYTECHNIC	MICROPROCESSOR LAB
17	DIPL OMA	MECHANICAL ENGINEERING	1	POLYTECHNIC	REFRIGERATION AND AIR CONDITIONING
18	DIPL OMA	CIVIL ENGINEERING	1	POLYTECHNIC	SOIL & FOUNDATION ENGINEERING
19	DIPL OMA	MECHANICAL ENGINEERING	1	POLYTECHNIC	STRENGTH OF MATERIALS
20	DIPL OMA	CIVIL ENGINEERING	1	POLYTECHNIC	SURVEYING LAB
21	DIPL OMA	MECHANICAL ENGINEERING	1	POLYTECHNIC	THERMODYNAMICS
22	DIPL OMA	CIVIL ENGINEERING	1	POLYTECHNIC	WATER SUPPLY & WASTE WATER ENGINEERING
23	DIPL OMA	MECHANICAL ENGINEERING	1	POLYTECHNIC	WORK SHOP

Hostel Facility

Sr Num	Number of rooms having Single bed/room (area of room)(1)	Building Number(2)	Name of Building(3)	Number of rooms having Double/Two bed/room (area of room)(4)	Building Number(5)	Name of Building(6)	Number of rooms having Triple/Three bed/room (area of room)(7)	Building Number(8)	Name of Building(9)	Number of rooms having Four bed/room (area of room)(10)	Building Number(11)	Name of Building(12)
1	Boys 70 (40)		Boys Hostel	2 (40)			3 (40)			4 (2010)		
2	Girls 24 (40)			2 (40)			3 (40)	Boys Hostel		4(40)		

Detail of Lab Instruments

Mechanical Engineering

S. No.	Description of item	Qty
THERMAL LAB		
1	Lancashire boiler (model)	1
2	Locomotive boiler (model)	1
3	Bab cock & wilcox boiler(Model)	1
4	Stop valve hopking type(model)	1
5	Reducing Valve (Model)	1
6	Fusible plug (Model)	1
7	Steam injector (Model)	1
8	Blow off cock (model)	1
9	Dead weight steem stop valve(Model)	1
10	Lever safety valve(Model)	1
11	Heat transfer through radiation(Model)	1
12	Diesel Engine Four Stroke single cyl.	1
13	Thermocouple kit	1
14	Conduction (model)	1

S. No.	Description of item	Qty
METROLOGY & INSTRUMENTATION LAB		
1	Vernier Caliper (300X0.02mm)	2
2	Height Gauge	1
3	Depth Gauge	1
4	Combination set	1
5	Bevel Protector	1
6	Sine bar	3
7	Micrometer 0-25 mm	1
8	Micrometer 25 -50mm	1
9	Micrometer 75-100 mm	1
10	Slip gauge set	1
11	Surface plate	1
12	Plug gauge 17 No. advance	1
13	Plug gauge 23 No. advance	1
COMPUTERISEED & NUMARICALCONTROL LAB		

15	Convection (model)	1
16	Infra red thermometer	1

HYDRAULIC & PNEUMATICS LAB

1	Francis turbine (Model)	1
2	Pelton Wheel turbine (Model)	1
3	Pipe friction apparatus	1
4	Friction due to sudden enlargement & contraction (M)	1
5	Orifice meter Apparatus	1
6	Bernoulli's Apparatus	1
7	Ventury meter Apparatus	1
8	Renoult's Apparatus	1
9	Notch apparatus	1

APPLIED MECHANICS LAB

1	Worm & Wheel apparatus	2
2	Jib Crane	2
3	Simply supported beam Apparatus	2
4	Gravenised sand Apparatus/parallogram law of forces	2
5	Friction Slide apparatus	2
6	Screw jack	2
7	Slotted weight 10 Kg.	2
8	Slotted weight 5 Kg.	2

1	CNC trainer Laithe machine cutting oil	1
2	CNC trainer milling machine	1

REFRIGERATION & AIR CONDITIONING LAB

1	Tool kit for refrigeration	1
2	Cut section model of hermatic compressor	1
3	Cut section model of rotary compressor	1
4	Flairing tool	1
5	Cut section model of reciprocating compressor	1
6	Model of window type room air conditioner	1
7	Display board for refrigerator	1

STRENGTH OF MATERIAL LAB.

1	Impact testing machine	1
2	Rockwell Hardener tester	1
3	Spring stiffness tester	1
4	Torsion Testing machine	1
5	Universal testing machine	1

MATERIAL SCIENCE LAB

1	Metallurgical microscope	1
2	Furnace digital 1100	1
3	Polishing Machine	1
4	Furnace digital 1100 for metallurgical lab	1
5	Profile Projector	1

Automobile Engineering

S. No.	Description of item	Qty	S. No.	Description of item	Qty
AUTOMOBILE SHOP/LAB					
1	Carburator (Cut section model)	1	37	Steel scale 300 mm	

2	Chisel Flat 100 mm	1
3	Center punch 100 mm	1
4	Combination plier-200 mm	1
5	Can 5 Litt. Capacity	3
6	AC Fuel Pump - (Cut Section Model)	1
7	Battery ignition system-Model	1
8	Ball pain Hammer 1.5 lb.	0
9	Battery solution (Diluted sulphuric acid)	0.75
10	Diesel Engine Four Stroke single cylinder Model	1
11	Diesel Engine 4 stroke 4 cylinder	1
12	Differential-Cut section Model	1
13	Doble ended open spanner-Set of 11 pcs.	1
14Do(assorted)	13
15	Dial indicatiing gauge with stand	1
16	Diesel	5
17	Element Air filter Maruti (Alto)	0
18	Four stroke single cylinder engine	0
19	Filler gauge	1
20	File flat-smooth 250mm	1
21	Flushing Oil	1
22	Gear box Assy. (Cut section model)	1
23	Grease Ball bearing	0.4
24	Grease wheel bearing	0.3
25	Grease multy purpose	0.25
26	Hydraulic Jack	1
27	Head light (Model)	3
28	Hollow Punch size-10,12,16 mm	3

38	Screw Driver 200 mm	1
39	Screw Driver 250 mm	1
40	Screw Driver 150 mm	1
41	Spanner oil Filter	1
42	Tray	1
43	Waiste cloth	4
44	White Paint (2 K)	100
45	N C Putty	150
46	PU Thinner	0.25
47	M Tape	1
48	P S Primer	0.5
49	Hardner (2K)	33
50	Emery Paper (Water worn)-220-400	0
51	Petrol	5
52	Battery Water (Distilled Water)	2
53	Emery paist	1
54	carburator/ injector cleaner	1
55	thread lock/ Favi fit	1
56	Engine Coolant	1
57	Valve grinding stick	2
58	Goti handle/ Tomy bar	1
59	One set double ended ring spanner	6 to 36
60	Puncher machine(electrical)	1
61	Hand grease gun	1
62	Hand grease pipe	1
63	Puncher pad cold/cold rubber patch	1
64	Puncher pad hot	1

29	Hydrometer	1	65	Air gauge	1
30	Long Nose Plier 150 mm	1	66	Allen key 10 no,12no,14no,16no	4
31	L T Wire 4 mm (X-section area)	3	67	Piston Ring expander	1
32	Oil Can (Pump Type)	1	68	Electric soldering iron	1
33	Mobile Oil-Mak	0	69	Clamp	1
34	Old Battery	1	70	Gear oil	1
35	Oil filter Element	1	71	Engine oil	5
36	Relay horn	1	72	Cotton cloth	4
			73	Brake oil	200

Detail of Lab Instruments

Civil Engineering

S. No.	Description of item	Qty
Survey Lab		
1	Automatic level model M-24 with staff and stand(model)	1
2	Abney level (from PIE Roorkee)	5
3	Brass Alidade 600mm in box	8
4	Clinopole(from PIE Roorkee)	1
5	Dumpy level with stand	6
6	Dumpy level(from PIE Roorkee)	4
7	Ghat Tracer(PIE Roorkee)	1
8	Levelling staff	6
9	Metallic tape 30m	6
10	Magnetic needle in box	8
11	Optical Square (PWD Pattern)	1
12	Prismatic Compass 100 mm dia with stand	6
13	Prismatic Compass (From PIE Roorkee)	5
14	Plastic Tape 30 m	6

S. No.	Description of item	Qty
Concrete Lab		
1	Compaction Factor App.	1
2	Cylindrical Flask	4
3	Conical Flask	10
4	Digital Balance 30 kg	1
5	Le-chatlier App.	5
6	Length Gauge	5
7	Sieves set	22
8	Slump Appratus	2
9	Vibrating Table	1
10	Vicat' Appratus	5
Water Supply Lab		
1	Beaker 250ml	6
2	Conical Flask 250ml	10
3	DO Meter	2

15	Plane Table With Stand	8
16	Plane Table Set (From PIE Roorkee)	4
17	Survey chain 20m	5
18	Survey Chain 30m	5
19	Steel Ranging Rod 2m	40
20	Steel Ranging Rod 3m	20
21	Steel Arrow 300 mm	100
22	Steel Tape 30 m	6
23	Glass Fibre Tape 30m	15
24	Steel Tape 20 m	1
25	Spirit Level in Box	8
26	Sight Vane 24 inch	5
27	Tilting Level	1
28	Tangent Clinometer (From PIE Roorkee)	2
29	U-Fork With Box	8
30	Vernier Transit Theodolite Model VTO-20 (PIE Roorkee)	1
31	Wooden Mallet(From PIE Roorkee)	2

4	Fortein Barometer	2
5	pH-meter	1
6	Turbidity Meter	2
7	Water Meter	1

Soil Lab

1	Core Cutter Apparatus	1
2	Core Cutter with Rammer	1
3	Liquid Limit Apparatus	2
4	Moisture Can	1
5	Permeability test apparatus	1
6	STP Apparatus	1
7	Sand Replacement Apparatus	1
8	Set Of Seives	1
9	Tray For Etching	4

Detail of Lab Instruments (COMPUTER DEPARTMENT)

Internet connection

Lease line connection of BSNL having speed of 2 Mb/sec

Lab-1 (Programming Lab)

S. No.	Description of item	Qty
1	CPU	17
2	Key Board	18
3	LCD Monitor	17
4	Mouse	16
5	Revolving chair	29
6	Net Switch (24 Port)	1
7	Staff chair	1
8	Table	1
9	White Board	1

Lab-2 (Programming Lab)

S. No.	Description of item	Qty
1	CPU	32
2	Key Board	31
3	LCD Monitor	30
4	Mouse	31
5	Revolving chair	40
6	Net Switch (24 Port)	1
7	Staff chair	1
8	Table	1
9	Black Board	1

10	CC TV	1
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10	CC TV	1
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Lab-3 (Hardware Lab)

S.No	Description of item	Qty
1	CPU	9
2	Key Board	25
3	Monitor	18
4	Mouse	15
5	RAM	3
6	Hard Disk	1
7	Mother Board	4
8	DVD Drive	5
9	SMPS	9
10	Cabinet	24

Detail of Lab Instruments (APPLIED SCIENCES DEPARTMENT)

Physics lab

S. No.	Description of item	Qty
1	Screw Gauge	12
2	V. Caliper	15
3	Spherometer	12
4	Weight Box	1
5	2 Friction Less Pulleys	4
6	Clamp Stand	4
7	Cantilever	3
8	Optics Bench	8
9	Needle Stand	13
10	Lens Fixer	15
11	Ohm Law	1
12	Resistance Box with Cover	2
13	Galvanometer	6
14	One way key	2
15	2 Tap Key	2
16	PN- Junction diode	6
17	Double slit	5
18	De Sauty Bridge	2
19	Battery Eliminator	2
20	Resistance Box	4
21	Multi Meter	2
22	Digital Meter	1
23	Head Phone	2
24	Audio Oscillator	2
25	Conversion of galvanometer into ammeter	3
26	Le disk apparatus	2
27	Glass lab	12

Chemistry Lab

S. No.	Description of item	Qty
1	Glass water Distillation Plant	1
2	Water bath Thermostatically controller	2
3	Copper Water bath	20
4	Magnetic stirrer with hot plate	3
5	Muffle Furnance	1
6	Chemical balance	3
7	Heating metal	5
8	Digital hot air oven	1
9	Wash bottles	12
10	Test tube stand	24
11	Buckner funnel	12
12	Spatula	19
13	tripod stand	20
14	Burette stand	24
15	Spirit lamp	24
16	Tong stainless steel	13
17	Wire gauge	48
18	Rubber Tubing	2
19	Bunsen burner	20
20	Scientific portrait	2
21	Weight Boxes	5
22	Volumetric flask (100ml)	5
23	Volumetric flask (250ml)	4
24	Funnel Glass 3"	10
25	Funnel Poij	10
26	Pipette 10 ml	23
27	Pipette 20 ml	12

28	Lens Convex	5
29	Barometer	2
30	Calorie meter box	4
31	Spring Balance	8
32	Law of conservation of Energy	4
33	Tuning Fork	2
34	Sonio meter	4
35	Slit (Graph Paper)	2
36	Rubber Cork	4
37	Laser	2
38	Telescope	2
39	Cylindrical Bottle	6
40	Le Disk Rod	2
41	Telescope Stand	2
42	One meter Rod	3
43	Rheostat	2
44	Metallic bob	6
45	Half Meter Rod	3
46	Micro scope	2
47	Weight Box (big + small)	1
48	Young's Model Apparatus	2
49	Stop Watch	10
50	Volt Meter dc 300v	8
51	Volt Meter dc 0.6v	5
52	Ammeter dc 0.5A	6
53	Ammeter dc 2A	6
54	Ammeter dc 250mA	6
55	Resistance Box 100	2
56	Resistance Box 5000	2
57	Helium Neon Laser	1
58	Dry Cell	12
59	Resistance in series and parallel	3
60	Kirchhoff's Law	1
61	Parallelogram Law	2

28	Conical Flask 250 ml	9
29	Beaker 100 ml	17
30	Beaker 250 mL	16
31	Test Tube	85
32	Conical flask	2
33	Measuring cylinder glass 50ml	3
34	Measuring cylinder glass 100ml	5
35	Measuring cylinder glass 25ml	3
36	Measuring cylinder glass 10ml	3
37	Measuring cylinder poly 50 ml	2
38	Measuring cylinder poly 100 ml	2
39	Measuring cylinder poly 25 ml	1
40	Measuring cylinder poly 500 ml	2
41	Filter Paper Ordinary	3Pkt.
42	Filter Paper Superior	1Pkt.
43	Glass rod 8" for stirring	8
44	Play rod 6" for Stirring	4
45	China Dish 3" dia	17
46	China Dish 3" dia	10
47	Crucible silica	5
48	Clay pipe tringle	4
49	Dessicater 8"	3
50	Thermometer centigrade	4
51	Single pan balance	2
52	Electronic precision balance	1
53	Red wood viscometer set	3
54	Able Flash point App.	1
55	Burette	35
56	Dropper	4
57	Reagent Bottles(500mi)	37
58	Reagent Bottles(100ml)	5
59	Reagent Bottles (3Lit)	4

AVAILABLE CHEMICAL:-

S.NO	NOMENCLATURE
1	Sulphuric acid
2	Methyl Orange
3	HCL
4	Ethanol
5	Poatassium Cromate
6	Ferrious Sulphate
7	Poatassium Permagnate
8	Oxalic acid

S.NO	NOMENCLATURE
9	Sodium Hydroxide
10	Phenolphthelin
11	Sodium Carbonate
12	EDTA Disodium Salt
13	Ammonium Cholride
14	Eriochrome Black-T
15	Potassium Hydroxide
16	Acetone

S.NO	NOMENCLATURE
17	Copper sulphate
18	Magnisum Carbonate
19	Calcium carbonate
20	Ammonium Sulphate
21	Actic Acid
22	Potassium Iodide
23	Ammonia Solution

**Detail of Lab Instruments
(ELECTRICAL DEPARTMENT)**

Sr. No.	Description of instruments	Qty
1	Series motor	1
2	Induction motor	1
3	Dc motor	1
4	Auto transformer	2
5	1 phase transformer(230/115 v)	1
6	Auto transformer type starter	1
7	Motor starter (star delta starter)	1
8	1 phase transformer(220/220V,CAP.1 KVA)	1
9	Dc regulated power supply(30V,2A)	1
10	Single phase motor(0.25hp)	2
11	Rheostat	3
12	Measurement of power in 3 phase load by 2 wattmeter method. (PANEL)	1
13	To start and reverse the direction of single phase IM.(PANEL)	1
14	Polarity ,voltage ratio and load test on single phase transformer. (PANEL)	1
15	Swine burn test on dc motor. (PANEL)	1
16	V and I relationship 3 phase transformer. (PANEL)	
17	Polarity voltage ratio test of 3phase transformer+ 3 phase transformer. (PANEL)	1
18	Study of dc series motor + series motor.(PANEL)	1
19	To start and reverse the direction of 3 phase IM+3phase IM. (PANEL)	1
20	Dc power supply(230v,CAP 5A). (PANEL)	1

Sr. No.	Description of instruments	Qty
44	Measurement of resistance of voltmeter and ammeter	1
45	Starter	3
46	Wheatstone bridge kit	2
47	Resistance boxes	4
48	Inductance boxes	2
49	Condenser boxes	2
50	Transformer for electromagnet sonometer	1
51	Potential transformer	1
52	Ammeters	20
53	Wattmeter	5
54	Dc universal motor	1
55	Voltmeter	10
56	To measure power and power factor on 1phase circuit(PANEL)	1
57	Lamp load kit (PANEL)	1
58	Study of different types of meters(PANEL)	1
59	1 phase inductive load cap 10 A .	1
60	To measure resistance of lamp in hot and cold condition (0-200W) (PANEL)	1
61	To measure resistance of lamp in hot and cold condition (0-1000W) (PANEL)	1
62	To measure resistance of lamp in hot and cold condition (0-500W) (PANEL)	1
63	1 phase capacitive load cap 10 A(PANEL)	2

21	Angular displacement of slip ring IM + IM. (PANEL)	1
22	Speed control of dc shunt motor. (PANEL)	1
23	Speed control of 3 phase IM by frequency control method +IM. (PANEL)	1
24	OC and SC test on single phase transformer . (PANEL)	1
25	Dc shunt generator motor set.	1
26	3 phase IM.	1
27	Megger(analog)	1
28	Wattmeter	1
29	Voltmeter	1
30	Power factor meter	1
31	Ammeter(0-5a,0-20a)	2
32	Tachometer	1
33	CRO	3
34	PN junction kit	1
35	SCR kit	1
36	Zener diode kit	1
37	Transistor kit	1
38	Rheostats	4
39	Norton theorem kit	5
40	Thevenin theorem kits	2
41	Kirchhoff law kit	1
42	Galvanometer kit to convert it into voltmeter and ammeter	1
43	Ohms law kit	1

64	1 phase inductive cap 10 A(PANEL)	1
65	Study of RLC AC series circuit(PANEL)	2
66	Dc power supply(PANEL)	1
67	Prepaid energy meter.	1
68	Students various projects	1
69	To calibrate 1 phase energy meter by direct loading method(PANEL)	1
70	Earth tester	1
71	Star delta starter	1
72	Light ampere meter	1
73	Megger	1
74	Electric iron	1
75	Electric immersion water heater	1
76	Kit kat fuse (63a)	3
77	Techometer	2
78	Energymeter(1 phase)	1
79	Current transformer	2
80	MCB	3
81	Circuit breaker	1
82	Voltmeter (500v)	1
83	Frequency meter	1
84	Cell tester	1
85	Induction heater	1
86	Digital earth tester	1

LIBRARY DETAIL

Sr. No.	Description	Qty
1	Total Volume	2986
2	Total Titles	710
3	Journal	5
4	Magazine	5
5	News Paper	7

Detail of Lab Instruments (WORKSHOP)

Fitting Shop

S.No	Description of item	Qty
1	Bench Vice 5"	6
2	Bench Vice 6"	6
3	Surface Plate 400*400	2
4	Portable Hand Drill Machine	1
5	Pillar Type Sensitive drill 20mm capacity with chuck	1
6	Power Hexa	1
7	Double Ended Pedestal Grinder	1
8	Sine Bar	1
9	Slip Gauge Metric Set	1
10	Strength Edge	1
11	Universal Scriber Block	1
12	V Block Pair With Clamps 150mm	1
13	Angle Plate 100*120mm	1
14	Combination Set 300mm	2
15	Outside Calipers spring type	2
16	Inside Calipers Spring type	2
17	Divider 150mm	3
18	Scriber 150mm	3
19	Center Punch 100mm	3
20	Steel Foot Rule 12"	5
21	Try Square	6
22	File Card	1
23	Outside Micrometer 0.25mm	2
24	Vernier Caliper 200mm	2
25	Vernier Height Gauge 300mm	1
26	Vernier Bevel Protector 50mm	1
27	Screw Pitch Gauge Meter	1
28	Pipe Wrench 300mm	1
29	Pipe Wrench 350mm	1
30	Pipe Vice 15mm- 25mm	4
31	Pipe Die Ratchet Type 15mm	1
32	Machine Vice 10mm	2
33	Letter Punch Set	1
34	Number Punch Set	1

Electrical Shop

S.No	Description of item
1	Hand Crippling Tool 10mm
2	Analog Multimeter
3	Digital Multimeter
4	Analog Magger 500v
5	Energy Meter Single Phase 220V
6	Digital Clamp on Meter Jaw Size 50mm
7	Energy Meter Three Phase 440v
8	Cut View of Three Phase Induction Motor
9	DOL Starter
10	Manual Operated Star Delta starter
11	Automatic Star Delta starter 3.5HP
12	Earth Tester Kit
13	Contractor
14	Contractor 10mpl
15	Distribution box
16	MCB 6A
17	DP 20A
18	MCB 16A
19	MCB 20A
20	RCCV 220V
21	Push Button
22	Timer
23	Over Current Relay
24	Over Load Relay
25	Electrical Iron 750W
26	Electrical Iron Automatic 750W
27	Plate Heater
28	Jig Saw
29	Battery Charger
30	Hydrometer
31	Auto Transformer
32	Bearing Puller
33	Growler
34	Bty Cell Tester

35	Twist Drill HSSI 12mm	1
36	Tap and Die Set	1
37	Spanner 6mm-25mm	1
38	Hacksaw Frame Solid 250mm	5
39	Hacksaw Frame Adjustable	1
40	Dial Type Indicator	1
41	Steel Tape 3mtr	1
42	Slide Wrench 8"	1
43	Combination Plier	1
44	Sledge Hammer 10lbs	1
45	Bal Peen Hammer 1/2lbs	1
46	Ball Peen Hammer 1.1/2 lbs	1
47	Grinding Goggle	5
48	Cross Peen Hammer 1lbs	5
49	Mellet	2
50	Combination Plier 8"	1
51	Adjustable Spanner 15"	1
52	Pipe Cutter ½ - 2"	1
53	Aluminum Level	3
54	C Clamp	2
55	Screw Driver 6"	1
56	Screw Driver 8"	1
57	Screw Driver 10"	1
58	Screw Driver 12"	1
59	Allen Key Set	1
60	Chisel Round	10
61	Chisel Flat	8
62	Chisel Half	8
63	File Flat 25mm Second Cut	5
64	File Flat 25mm Second Rugh	4
65	File Flat 25mm Second Smooth	5
66	File Square 250mm Rough	4
67	File Half Round 150mm	4
68	File 250mm Rough	7
69	File 150mm Smooth	4
70	Round File 150mm Smooth	4
71	File Half Roud 150mm Smooth	4

35	Allen Key set
36	Small Hacksaw
37	Soldering Iron 35W
38	Soldering Iron 65W
39	Soldering Iron 125W
40	Center Punch
41	Blow Lamp
42	Twizer
43	Wire Striper
44	Screw Driver 6"
45	Screw Driver 10"
46	Screw Driver 12"
47	Combination Plier 8"
48	Nose Plier
49	Magnrtic Screw Driver
50	Line Tester 500V
51	Cable Cutter
52	Tennon Saw 12"
53	Dov Tail Saw
54	Bal Peen Hammer
55	Mortise Chiesel
56	Furmer Chiesel
57	Raship File Round 10"
58	Raship File half Round 10"
59	File Smooth 10"
60	S W G
61	Spanner Set 6-22"
62	Screw Driver Set
63	Try Square 6"
64	Steel Foot Rule
65	Ratchet Brace 10mm
66	Pincer
67	Earless Spray Gun 220V 65W
68	Jack Plane 14"
69	Pulley Puller
70	Socket Chisel
71	File Flat 10"

72	File Flat 150mm	6
73	File Rough 150mm	14

Sheet Metal Shop

S.No	Description of item	Qty
1	Mellet	4
2	Ball Peen Hammer	2
3	Hammer Straight	3
4	Snip	3
5	Try Square	2
6	Scrciber 150mm	2
7	Center Punch	2
8	Number Punch	1
9	Steel Foot Rule	5
10	Blow Lamp	1
11	Clipper Outside	2
12	Clipper Inside	2
13	Divider	3
14	Fabric Hammer	1
15	Hecksaw Frame	1
16	Chiesel	2
17	Hacksaw Frame Solid	1
18	Combination Plier	1
19	Nose Plier	1
20	Screw Driver	1

Smithy Shop

S.No	Description of item	Qty
1	Tong Flat	11
2	Fuller	5
3	Bench Vice 5"	2
4	Number Punch	1
5	Anvil 50Kg	6
6	Try Square	2
7	Hecksaw Frame	5
8	Bench Vice 4"	2
9	Steel Foot Rule 12"	2
10	Chisel	5
11	Tong Round	5
12	Flater	10
13	Hammer 5Kg	4
14	Hammer 500g	2
15	Blower	1
16	Muffle Furnace Single Phase	1
17	Swage Block	2
18	Hammer Bal Peen 1.5lbs	10
19	Hammer Straight Peen 1lbs	2

72	Techo Meter
73	Steel Tape 3mtr
74	Aluimum Level
75	Febric Hammer
76	Key Hole Saw
77	Ceiling Fan
78	Dril Bit
79	Grinder 6"
80	Face Sequence Indicstor

Machine Shop

S.No	Description of item
1	6' Lathe Machine
2	18" Stock Shaper Simple Type
3	24" Bend Saw
4	Wood Working Lathe Machine
5	Bend Saw Grinder 8"
6	4' Lathe machine Simpe Type
7	10' Planner Machine
8	2' Drill machine
9	Power Hammer

Carpentry Shop

S.No	Description of item
1	Wood Working Lathe Machine
2	Planner Machine
3	Power Hammer
4	24' Bend Saw
5	Carpentry vice 9"
6	Carpentry vice 8"
7	Jack Plane 14"
8	Jack Plane 9"
9	Rib Saw 14"
10	Bow Saw (Dove Tail 12")
11	Tenon Saw 12"
12	Clow Hammer
13	Cross Peen Hammer
14	Firmmer Chisel 1.25"
15	Mortise Chisel 10"
16	Four Fold Foot Rule Wooden
17	Steel Foot Rule 12"
18	Wooden Mellet 500g
19	Marking Gauge Aluminum
20	Ratchet Piece 910mm
21	Saw Set Plier Set
22	Slide Wrench 8"
23	Slide Wrench 10"

20	Chisel Hot and Cool	5
21	Divider	2
22	Inside Caliper	2
23	Outside Caliper	2
24	Flat File 250mm	2
25	Triangular File 200mm	1

24	Steel Tape
25	Try Square
26	Hacksaw Frame
27	Carpentary Vice 10"
28	Circular Saw 24"
29	Portable Electronic Drill Machine
30	Bench Grinder

Welding Shop

S.No	Description of item	Qty
1	Bench Vice 4"	3
2	Bench Vice 5"	1
3	Leather Gloves	14
4	Welding Screen	6
5	Hecksaw Frame 300mm	5
6	Flat Tong	2
7	Try Square 6"	4
8	Screw driver 18"	1
9	Spaner Set 6-22	1
10	Chiping Hammer	15
11	Combination Plier	1
12	Welding Goggles	10
13	Grinding Goggle	2
14	Single Phase Grinder	1
15	Steel Foot Rule	10
16	Swage Block	1
17	Welding Transformer 55-300Amp	1
18	Sledge Hammer 5Kg	1
19	Ball Peen Hammer	1
20	Apron	5

31	Spray Painting 250g
32	Spray Painting 500g
33	Electronic Spray Gun 0.5ltr
34	Spanner Set 6-25
35	Blow Lamp
36	Brush Painting
37	Jig Saw 480W
38	Circular Saw Blade 12"
39	Water Stone
40	Adze 500gm
41	Gimlet 3*8
42	Triangular File 6"
43	Triangular File 5"
44	Triangular File 4"
45	Pincer
46	Screw Driver
47	Brush Bit
48	Aluminum Level
49	Bench Drilling Machine
50	Rasap File
51	Combination Plier

Foundry Shop

S.No	Description of item	Qty
1	Lifter	3
2	Tongue	2
3	Rammer	2
4	Foundry Furnace	1
5	Moulding Box (12X8)	2
6	Moulding Box (12X12)	2

Machine Shop

S. No.	Description of item	Qty
1	Lathe Machine-4 Jaw	3
2	Lathe Machine-3 Jaw	5
3	Power Hacksaw	1
4	Grinder	2
5	Radial Drilling Machine	2
6	Milling Machine	1
7	Shaper Machine	2
8	Surface Grinding Machine	1

ECE Department

S. No.	Description of item	Qty
1	Adder subtractor kit	3

S. No.	Description of item	Qty
57	Tkwo stage RC Coupled amp.	3

2	Basic logic using NAND,NOR	3	58	Transistor char. App.	6
3	BCD encoder , decoder	4	59	UJT as a relaxation osc.	2
4	DTL Basic logic kit	4	60	Weign bridge osc.	4
5	Digital adder and Sub. NAND	3	61	Zener diode char.	3
6	Demux 1:16	3	62	Transistor tester	1
7	Digital trainer IC kit	4	63	Half wave cont. rectifier SCR	3
8	D/A digital to analog converter	3	64	DIAC Char.	3
9	D Latch flip flop	2	65	DSO2.5 GHZ.	3
10	Multiplexer 16:1	3	66	Drill machine	1
11	8255 CARD	2	67	Lamp intensity ac fan speed	1
12	4 bit ring counter	1	68	Opto electronic device	3
13	4 bit D/A convertor	1	69	Pressure Measurement	1
14	Digital IC tester	1	70	Strain Gauge	2
15	Ring counter 4bit	3	71	SCR. Char.	1
16	Microprocessor 8501	8	72	Speed control using SCR	3
17	CRO	7	73	TRIAC char.	5
18	Function generator	6	74	UJT char.	2
19	Signal generator	3	75	PLC demonstration kit	1
20	Signal generator AF/RF	1	76	Microwave bench	1
21	LCR bridge	1	77	Thermocouple amp.	1
22	Multimeter Digital and analog	2	78	Thermocouple trainer	1
23	Resisitor display kit	1	79	Stepper motor control	1
24	Linear IC trainer	3	80	Thermistor char. App.	1
25	Capacitor display kit	1	81	BJT	1
26	Screw driver set	1	82	Operational amp.	4
27	Soldring Iron	3	83	Linear IC	3
28	Optical fibre kit	2	84	Motor comparator	1
29	Fibre optical digital trainer	3	85	Discrete comp. trainer	1
30	Fibre optical analog trainer	3	86	AM mod. and demod kit	2
31	Microphone and loudspeaker	2	87	AM/FM receiver kit	1
32	VSWR meter	2	88	ASK	3
33	Tape recorder	3	89	Balance mod.	2
34	Dish Antenna	3	90	CDMA Trainer kit	1
35	T V B & W	1	91	Delta mod. And demod kit	4
36	Colour TV circuit	1	92	FM mod. And demod	3
37	Colour TV	1	93	FSK	3
38	Mobilephone trainer	3	94	GSM kit	2
39	Basic technique of transistor	4	95	Omni antenna	4
40	Common emmitter with -ve feedback	4	96	Pulse amp. mod. And demod kit	1
41	Common collector amplifier	1	97	PPM	2
42	Clipping circuit	2	98	Radio receiver	2
43	Common emmitter amplifier	5	99	Serial link trainer	1
44	Clamping circuit	4	100	Serial/ Parallel comm. Kit	2
45	FET amp.Common source	4	101	TDMA trainer kit	2
46	FET char.app.	4	102	PC-PC comm. Kit	1
47	Halfwave Fullwave bridge rectifier	4	103	Superhetrodyne rec.	2
48	Hartly and collpits osc.	3	104	Ass.T- network	1
49	Multi vibrator	5	105	LP & HP first butter worth filter	3

50	Mag. Screw driver	1	106	m derived LP &HP filter	1
51	OSCR osc.	3	107	Study T type LPF	4
52	P-N Junction diode	2	108	Study T type HPF	4
53	Push pull amp.	1	109	T type band pass study	2
54	Phase shift osc.	4	110	SUM. T- bridge attenuator	4
55	RC network diff.	1	111	2nd order LPF & HPF	4
56	Tri state buffer	4	112	SUM. T- network	6