

Sourashtra College (Autonomous)
Department of Chemistry
 List of Equipments

Sl. No	Name	Total
1	Balance – Table top	03
2	Chemical Balance – Double pan	04
3	Demineral Plant	01
4	Digital Conductivity meter	08
5	Digital Colorimeter	07
6	Digital polarimeter	04
7	Digital Potentiometer	09
8	Digital Balance – single pan – 4 digit	04
9	Digital balance – single pan – 3 digit	01
10	Digital balance – single pan – 2 digit	01
11	Hot Air oven	01
12	Hot plate	06
13	Heating mantle 1 LT	01
14	Suction pump (oil)	01
15	Stop clock	09
16	pH meter	12
17	Vacuum pump – oil free	02
18	Spectrophotometer	02

DEPARTMENT OF PHYSICS

List of equipments in the Laboratory

Sl.No.	Name of the item	No.Available
1	Air-Blower	Nil
2	Almirah(wooden) with glass doors	2
3	Audio-oscillator with fixed frequency	5
4	Audio-oscillator variable(Audio-generator)	16
5	Air-wedge apparatus	3
6	Analog Multimeter	1
7	Bifilar pendulum with block,clamp and stand	Nil
8	Battery substitute	5
9	Battery Eliminator (AC)	28
10	Battery Charger	Nil
11	Beakers with various measurable values	12
12	Brass slotted weights	21 sets
13	Berenger Balance	2
14	Bi-prism (Fresnel's)	4
14A	B.P. Apparatus	1
15	Concave lens 2"	2
16	Convex lens 2"	25
17	Computer	1
18	Concave mirror 2"	10
19	Convex mirror 2"	6
20	Commutator	22
21	Copper voltameter	Nil
22	Crucibles with lid	5
23	Cutting Plier	1
24	Condensing lens	11

25	Clamp pressed with double open end	13
26	Clamp G (Iron 6" X 4")	17
27	Calorimeter with wooden box	Nil
28	Conductivity Cell (U-shaped)	2
29	Charts	7
30	Carey-foster Bridge	4
31	Constant Pressure head	2
32	China dish	2
33	Compound bar pendulum	3
34	Daniel Cell (substitute)	6
35	DPDT switch	10
36	Dial decade condenser (all ranges)	24
37	Deflection magnetometer	2
38	Digital Frequency counter	3
39	Discrete component Trainer	1
40	Digital Multimeter	1
40A	Digital LCR meter	1
40B	Digital PH meter	1
41	Electro-magnet	1
41A	Electronic Balance	1
41B	Function Generator	4
42	Field along the axis of the coil	2
43	Fixed condenser	8
44	Fortin's barometer	1
44A	Frequency measurement meter	1
45	Grating –diffraction	4

46	Hammer	1
47	Hollow Prism	4
48	Hot Plate	Nil
49	Half meter scale	5
50	Head-phone	6
51	Hystersis Apparatus with solenoid	1
51A	Hare's Apparatus	1
52	Inductance Coil	15 pairs
53	Inertia disc (torsion pendulum)	4
54	I.C.Trainer	5
55	Joule's calorimeter	Nil
56	Knife	1
57	Knife edges (Iron)	5 set
58	Knife edges (wooden)	7set
59	Key (charge-discharge)/Tap key	20
60	Leclanche cell (substitute)	7
61	Lee's Disc apparatus	2
62	Logic Gates (I.C)	2
63	Meter scale	25
64	Moving coil Galvanometer	20
65	Magnets (Bar) steel 2"	7pair
66	Moving coil Voltmeter (all ranges)	29
67	Moving coil Ammeter (all ranges)	62
68	Metal cylinder	16
69	Metre bridge	2

70	Micro-processor	Nil
71	Micro-meter (Screw gauze)	12
72	Millikan's apparatus	1
73	Multimeter (analog)	3
74	Mercury vapour lamp with set	5 set
74A	Magnifier Lens Metal handle big	4
75	Newton's ring apparatus	4
76	Oscilloscope (CRO)	13
77	Lamp House wooden set	5
78	OP-AMP circuits	3
78A	Oswald viscometer	3
79	Protractor semi circular	Nil
80	Pulley-Aluminium single	17
81	Prism 2" and small angled prism	16
82	Plug-Key single	30
83	Potentometer 10m	6
84	Pulse generator	1
85	Power units	34
85A	Power supply (Dual)	10
85B	Polarimeter	1
86	Resistance High/2,3,4,5 ohms	19
87	Retard stand (Iron)	26
88	Resistance Boxes (all ranges)	60
89	Rheostats (all types)	24
90	RCL Bridge	1
91	Rigid bar (Youngs mod.expt)	4

92	Reading lens	11
92A	Stethoscope	1
93	Steam Boiler 2litres capacity	2
94	Steel almirah and cup board	95
	Scientific Calculator	Nil
96	Stop-Clock	4
97	Stop-watch/Digital	Nil
98	Soildering Iron Stand	4
99	Spanner-Double end	Nil
100	Scissors	1
101	Stove (Kerosene)	1
102	Siclair's heater (steam)	2
103	Spot galvanaometer (reflecting)	11
104	Sonometer weights slotted	16
105	Searle's Young's Modu.apparatus	5
106	Spectrometer	11
107	Single optic lever	4
108	Sodium vapour lamp set/bulb	7 set
109	Searle's double bar pendulum	4
110	Searle's Static torsion apparatus 1/2m/1m	2
111	Scale and telescope/reading telescope	6
112	Thermometer (Deg.C)	4
113	Tangent galvanometer	6
114	Tripod stand	Nil
115	Tuning Fork	60
116	Travelling microscope	9
117	Temp.coefficient resis.coil	1
118	Telescope	3
119	Thermocouple	2

120	Transformer (High voltage)	1
121	Transformer (Multi-purpose)	5
122	Tap Key	3
123	Vernier Calipers	8
124	Vibration magnetometer	2
125	VTVM	8
126	Weight-box (200gms)	3 set
127	Ultrasonic Interferometer (2MHz)	1 set
128	Fibre Optic Trainer	2 set
129	Diode Laser source	2
130	Electrical expt apparatus	1 set
131	Heat experiment apparatus	1set
132	Light experiment apparatus	1 set
133	Sound experiment apparatus	1 set
134	Bio-visual chart	2
135	Series resonance apparatus	1
136	Carey-Foster Bridge expt apparatus	2
137	Bridge circuit expt apparatus	1
138	Refractive index apparatus	1
139	Conductivity measurement apparatus	1
140	Newton's rings apparatus	1
141	CRO	1
142	Co-efficient of Mutual Inductance apparatus	1
143	IC trainer for IC experiments	1
144	AC sonometer experiment apparatus	3

SOURASHTRA COLLEGE (AUTONOMOUS)

Accredited with B+ grade by NAAC

DEPARTMENT OF PHYSICS (SF)

S.NO.	INSTRUMENT NAME	VARIANT	QUANTITY
1	AMMETER	0-1A	2
		0-2A	4
		0-5A	3
		0-10A	3
2	MILLIAMMETER	0-1	3
		0-10	15
		0-25	10
		0-50	7
		0-100	6
		0-250	3
		0-500	7
3	MICRO AMMETER	0-50	12
		0-100	8
		0-250	3
		0-500	8
4	GALVANOMETER	10-0-10	15
5	VOLTMETER	0-2	1
		0-5	7
		0--10	5
		0-30	2
6	AUDIO FREQ OSCILLATOR	VARIABLE	15
		FIXED	7
		DIGITAL	6
7	BEAKER	GLASS100ML	11
		PLASTIC100ML	6
		PLASTIC 1L	2
8	CRO	DUAL	10
		SINGLE	5
9	DECADE CAPACITANCE BOX	3 DIAL	9
		4 DIAL	9
10	DECADE RESISTANCE BOX	2 DIAL	15
		4DIAL	42
11	TRAVELLING MICROSCOPE		12
12	SPECTROMETER		10
13	SPOT GALVANOMETER		12
14	STOP CLOCK		5
15	SCALE AND TELESCOPE		5
16	REG. POWER SUPPLY	VARIABLE	15
		12-0-12	5
		12V FIXED	5
		2V FIXED	12
		9V FIXED	5
		1.5-15V VAR	5
17	RHEOSTAT	2-4-6V	2
		SINGLE	15
		DOUBLE	7

18	MERCURY VAPOR LAMP+ TRANSFORMER		7
19	Na VAPOR LAMP + TRANSFORMER		2
20	1M WOODEN SCALE		30
21	KNIFE EDGE	WOOD	8PCS
22	IC TRAINER KIT 4BIT		11
23	IC TRAINER KIT WITH IC TESTER		5
24	ULTRASONIC METER		1
25	PLUG KEY	1WAY	8
		2 WAY	18
26	SEQUENTIAL KEY		5
27	TAP KEY		18
28	INDUCTION COIL HALL APPARATUS		3
29	INDUCTION COIL	0-500	31
30	STD CONDENSOR	1MFD	5
		2MFD	5
		3MFD	5
		5MFD	5
31	COMMUTATOR	KEY	15
32	KELVIN RATIO BOX		4
33	DIGITAL MULTIMETER	BIG	9
34	ANALOG MULTIMETER		3
35	VERNIER CALIPPER		11
36	SCRE GAUGE		7
37	READING LENS		20
38	OPTIC LEVER MIRROR		6
39	SPIRIT LEVEL		3
40	VTVM		9
41	COMPOUND PENDULUM		2
42	LEE'S DISC APPARATUS		1
43	MICROPROCESSOR 8086		6
44	INTERFACE BOARD	7 SEGMENT	4
		TRAFFIC	4
		STEPPER	4
		DAC	4
		ADC	4
45	STEPPER MOTOR + SUPPLY		4
46	4 DIGIT DISPLAY BOARD		4
47	HALL EFFECT MAGNET		2
48	GRATING	15K LPI	4
		600 LPMM	4
49	PRISM	GLASS	3
		CROWN BIG	3
		CROWNSM	3
		SMALL ANG	4
		HOLLOW	2
50	HEAD PHONE	SINGLE	10
51	thermometer	alchol	3
		mercury	2
52	convex lens		9
53	BIPRISM	40X30	2

		50X40	3
54	MICROMETER TF THICKNES		2
55	MICHELSON INTERFEROMETER		1
56	OPTIC BENCH		1
57	HALL EFFECT TELESCOPE		1
58	METAL KNIFE EDGE		6
59	METAL CLAMP		6
60	HARE'S APPARATUS		1
61	TORSION PENDULUM		2
62	POTENTIOMETER		5
63	POWER SOURCE OF CALLIBRATION OF AMMETER AND VOLTMETER HIGH VOLT		1
64	HE NE LASER KIT		1
65	WEIGHINH GLASS BOX	BIG	1
66	SLOTTED WIGHTS	50gmn	7
		100gm	2

**SOURASHTRA COLLEGE
DEPARTMENT OF BIOCHEMISTRY**

LIST OF EQUIPMENTS – BIOCHEMISTRY LAB

S.NO.	NAME OF THE EQUIPMENT	UNIT (NO.)
1.	PCR- Thermal cycler	1
2.	Digital electronic single balance	1
3.	UV-VIS spectrophotometer –with system (single cuvette)	1
4.	Whirlpool double door fridge	1
5.	Hybridization oven	1
6.	Lyophilizer	1
7.	Deep freezer(-20°C)	1
8.	Laminar Airflow chamber -1	1
9.	Vortex spin	1
10.	Magnetic stirrer	1
11.	IFB Microwave oven	1
12.	Microcentrifuge (REMI) RM12	1
13.	Water bath	2
14.	Hot air oven	1
15.	REMI Lab centrifuge	1
16.	REMI Microcentrifuge (R24)	1
17.	Lab centrifuge	1
18.	Cold room	1
19.	Window AC unit	2
20.	Colori meter	2
21.	Cooling incubator	1
22.	Plant Tissue Culture – Laminar Airflow chamber	1
23.	Bifocal microscope	1
24.	Cooling centrifuge REMI	1
25.	Incubator	1
26.	Laminar Airflow chamber -2	2
27.	Shaker incubator	1
28.	Microcentrifuge (REMI) RM12	1

29.	Animal Tissue culture – Laminar Chamber	1
30.	Hot plate	1
31.	Cyclomixer	1
32.	Fermenter	1
33.	Sonicator	1
34.	Light Microscope	4

SOURASHTRA COLLEGE, MADURAI.
DEPARTMENT OF MICROBIOLOGY

1. Cooling Centrifuge
2. Laminar Air Flow Chamber
3. UV VIS Spectrometer
4. Microplate Reader
5. Vortex Mixture
6. Micro Centrifuge
7. Incubator
8. Light microscopes
9. Hot water bath
10. Autoclave
11. Gel Electrophoresis
12. UV illuminator
13. UV Transilluminator
14. Soxhlet apparatus
15. Deep freezer -20° C
16. Refrigerator
17. Hot plate

SPORTS FACILITIES
INFRASTRUCTURE AVAILABLE

1. GYMNASIUM
2. 200 METRES TRACK
3. HOCKEY COURT
4. VOLLEY BALL COURT
5. KHO-KHO COURT
6. KABADDI COURT
7. TABLE-TENNIS HALL
8. HANDBALL COURT
9. BASKET BALL COURT
10. PHYSICAL FITNESS CENTRE

EQUIPMENTS AVAILABLE (HRD)

1. MULTI GYM
2. TWISTER DOUBLE
3. HIP FLEXER
4. PONY RIDER
5. CYCLING
6. WEIGHT PLATES WITH RODS
7. LIFTING STAND
8. TREAD MILL
 - (a) MANUAL
 - (b) MOTORISED
9. BENCH PRESS
10. BELT VIBRATOR
11. CURL BENCH
12. LAT ROWING BAR
13. ROMAN CHAIR
14. PLATE & DUMBELLS RACK
15. 100 Kgs WITH ADJUSTMENT ROD
16. DOUBLE CABLE CROSS
17. HYPER EXTENSION