

SESSION 2024-25

LIST OF EQUIPMENTS TO BE PURCHASED FOR DEPARTMENT OF BOTANY, S G WOMEN'S COLLEGE, ROURKELA

SL NO	EQUIPMENTS NAME	Specification	QUANTITY
1	Compound light microscope	Olympus	15
2	Spectrophotometer	Digital UV	2
3	Centrifuge	Digital	2
4	Wilmott's bubbler	Big size	15
5	Farmer's potometer	Big size	15
6	Ganong's potometer	Big size	14
7	Gel Electrophoresis	Horizontal	2
8	Autoclave	Vertical with steel chamber	1

N. Das
HOD BOTANY

Dept. of Chemistry Equipment list

Sl no	Equipment	Specification	Quantity
1	Oil vacuum pump for sample drying	Double stage, With vacuum gauge, Vacuum of 0.001 torr	1
2	Probe Sonicator	With Soundproof box, capacity 500ml	1
3	Kipp's apparatus	Polypropylene, 1 L	1
4	Refrigerator	Double door, capacity 245 L or higher, inverter tech, frost free, 3 star rating or higher	1
5	Printer with scanner	Laser jet (A4 Black and White LaserJet, Multifunction Printer, Print, Copy and Scan, Print speed up to 21 ppm (black), USB	1
6	Hot air oven (5-250 °C)	Stainless steel inside wall, Inner wall dimension (WxDxH): 455x 455x605 mm, 3 selves, heating element: Nichrome wire/ kanthal A1, LED Display, Mineral Wool	1
7	Vertical Double distillation water unit	Capacity 1.5L/hr, Quartz Heater and Quartz Boiler with Quartz Condenser.	1
8	Rotary Shaker	9x250 ml	1
9	Desktop with keyboard, mouse and UPS	11th Gen Intel core i5, 16 GB RAM, 1 TB SSD, inbuilt Wifi, 23 inch monitor, same OEM make mouse and keyboards port no 4 or more, internal DVD read and write, antivirus 5 years	1
10	Table top digital conductivity meter	0 μ S – 200 mS. Resolution : 0.1 μ S. Temperature : 0° C – 100° C (Manual) Readout : 3 digits LED.	1

Note:

- All the items must have ISI standard also the brand of item must be mentioned in the technical bid.
- All equipment should be of reputed make and as per specification
- Specification should be mentioned clearly

Rohit Singh
11/12/2024

HOD, Chemistry

Chemistry Laboratory Furniture List

Sl No	Items	Specification	Quantity
1	Wooden Tables for equipment, with side cabinet and drawers. (Anti-termite, waterproof)	4.5 ft(length)x2.6 ft (width)x2.5ft (height) Ply wood/Solid wood	4(Nos)

Note:

- All the items must have ISI standard also the brand of item must be mentioned in the technical bid.
- All equipment should be of reputed make and as per specification.

Udayan Singh
HOD, Chemistry

Department of Chemistry - List of Consumables

Note: All chemical should be of good quality and of reputed make.

Sl No	Items	Quantity
1	Whatman -40 filter paper	5 pkt
2	Precoated TLC (Silica)	1 pkt
3	Methanol	500 ml
4	Ethanol	2.5 L
5	Hexane	2.5 L
6	Acetone	5 L
7	Chloroform	2.5 L
8	Ethyl acetate	2.5 L
9	Isopropyl alcohol	1 L
10	Hydrochloric acid	2.5 L
11	Glacial Acetic Acid	2.5 L
12	Nitric acid	2.5 L
13	Sulfuric acid	2.5 L
14	Sodium hydroxide	500 gm
15	Sodium Thiosulphate	500 gm
16	Buffer tablet (pH 4 and 7)	1 bottle each
17	Sodium Acetate	500 gm
18	Ammonium hydroxide	500 gm
19	D-Glucose	500 gm
20	Sodium Metal	1 kg
21	Parafilm	1 pkt
22	Silicon Oil	500 ml
23	Sodium Potassium tartrate	500 gm
24	Sodium nitrite	500 gm
25	Sodium nitrate	500 gm
26	Potassium bromide	100 gm
27	Zn-dust	100 gm
28	Methyl acetate	500 ml
29	EDTA	500 gm
30	Silver nitrate	100 gm
31	Phenol	500 mL
32	Copper sulphate	1 kg
33	Aniline	500 ml
34	Acetyl chloride	500 ml
35	Iodine (Granules)	100 gm
36	Potassium Iodide	500 gm
37	Phenolphthalein indicator	50 gm
38	Potassium dichromate	500 gm
39	Ortho-Nitrophenol	500 gm
40	Para-Nitrophenol	500 gm
41	B-naphthol	100 gm
42	Ferric chloride	500 gm
43	Column for Chromatography (Diameter 2 cm, length 45 cm)	5 No
44	Glycine	500 gm
45	Sodium Sulphate	500 gm
46	Potassium permanganate	500 gm

HOD, Chemistry

20/05/2021

Submitted by the department as per
list for the session 2020-21

**LIST OF THE EQUIPMENTS
DEPARTMENT OF EDUCATION**

SL NO	TITLE OF THE TEST	AUTHOR	QUANTITY
1	Group test general mental ability (English) Psychological test.	S. jalota.	1
2	Verbal test of scientist creativity (English) Psychological test.	V.p Sharma and g.p Shukla.	1
3	Mahesh Bhargava hand book of intelligence Concept, theories, assessment & application (English) Psychological test.	Mahesh Bhargava.	1
4	Concept achievement (formation) test (English) Psychological test.	M Rajamanickam.	1
5	Critical thinking scale (English) Psychological test.	Hemant Lata Sharma and priyambada.	1
6	General classroom achievement test (GCAT)(English) Psychological test.	A.K Singh & A.sen Gupta.	1
7	Career decision making scale (English) Psychological test.	K Singh.	1
8	White board (4x6) of size Writing board nonmagnetic, marker board dry erase.		1

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Department of Home Science

Sl No	Item	Quantity
01	Refrigerator 400LT Model No -GLS422 SPZY	01


Dept. of Physics		
Sl. No.	Item	Specifications
1	Desktop	Processor- i5, 10 generation
		RAM - 8 GB
		ROM- 500 GB
		Monitor - 21.5 inch
2	Printer	Laser printer
		Laser MFP 1188W Monochrome Laser
3	Table	Computer table
		L48 inch× height 30inch x width 24 inch

Aspre Keyar
HOD
Dept. of Physics

Sl. No.	Name of the Equipment	Company	Specifications	Price in Rs.
1.	Smart UV-VIS Double Beam Spectrophotometer with LCD Touchscreen	Branded	Wavelength range - 190 - 1100 nm optical system - Double beam Modality - Beerstep Spectral Bandwidth - 1 nm Detector - Silicon photodiode Lamp type - Tungsten Halogen Lamp, Deuterium Lamp Photometric Reproducibility - $\pm 0.2\%$, T	
2.	Vertical laminar Airflow Cabinet	Branded	Laminar Airflow cabinets Klotter Body An efficiency of 99.997% down to 0.3 μ m. Micros along with appropriate mesh blowing surrounds the cabinet complete with HEPA filter. Size of filter - 2'x2'x6" 3'x2'x6" 4'x2'x6" Working area - 2'x2'x2'3'x2'x2'4'x2'x2' Illumination (with Zeit) - 2x40w x 4x40w	

Dr. H. O. D
Zoology
Deep

3 Compact centrifuge Centrifuge	Branded	Max capacity - 40 Max speed Range (RPM) - 16000 Application - Academic work, Research Dimensions (W X D X H) Cmm - 480 X 585 X 530 Max RCF - 16600.
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H.O.P.
Department of Zoology

List of
Chemicals / Museum Specimen

1. Whole mount slides Binary fission, and
Conjugation in Paramecium.

② - whole mount slides of Euglena, Amoeba
and Paramecium.

3. Museum specimen

Obelia, Aequorea, Metridium, Meandrina,
Madrepora, Ctenophore.

- Planaria, Geopelia, Chaetopterus

- Pteropoda americana, Palamneus,
Daphnia,

- Octopus, Cucumaria, Pila, Unio & Ostrea.

- Petromyzon

- Tetradon / Diadon, Necturus, Bufo

- Triton, Salamander, Sorex, Herpestes,
Erinaceus

Slides

T.S. and L.S. of sycamore, spongilla,
spicules and spongin fibres.

- Buccal epithelial cells, striated muscle cells.

- All stages of Mitosis and Meiosis.

- Permanent slides - Squamous epithelium.


- Polytene chromosome of Blattella germanica.
Adrenal gland.

Skeleton

Skeleton of frog and Varanus.

Mammalian skull of herbivorous and
Carnivorous animals.

Sl. No.	List of chemicals	Quantity
1.	Nitric acid	500g
2.	Bromine water	500ml
3.	Diphenyl amine Reagent	500g
4.	LB broth	500g
5.	Ferric chloride solution	500ml
6.	standard RNA sample	1ml
7.	Phenol / chloroform	500ml
8.	RNase	500µl
9.	SDS	100g
10.	EDTA.	50g
11.	Tris - EDTA buff ^r or Tris base	500g
12.	Acrylamide	50g
13.	N,N-methylene-bis-acrylamide	50g
14.	Tris - Hcl buffer	
15.	Glycine	50g
16.	Glycerol (100%)	500ml
16.	β-mercaptoethanol	100ml
17.	Promethazine blue	50mg
18.	Coomassie brilliant blue - (CBB)	100mg
19.	Ethanol	


 02/01/2025
 H.O.D.
 Department of Zoology