

Proforma – A

Office of the Principal  
Government Science College, Chatrapur, Ganjam, 761020


Office Circular No.: 2688 / GSCC/ 2024

Date: 16 /08/2024

**QUOTATION CALL NOTICE**

Sealed quotations are invited from authorized dealers/suppliers with valid GST, ITCC, PAN clearance for supply of branded laboratory equipment's and computers including software's for different departments. Detail specifications of the above will be available from college website [gsc.ac.in](http://gsc.ac.in). The quotation must reach to the undersigned (Speed post only) by 22<sup>nd</sup> August 2024 and the same will be opened in the chamber of the principal at 11 AM on 23<sup>rd</sup> August 2024. The quotation price must include all taxes with free delivery, installation and demonstration. The authority reserves the right to cancel or reject any or all quotation without assigning any reason thereof.

For details, please refer to the website [www.gsc.ac.in](http://www.gsc.ac.in)

  
10.8.24  
PRINCIPAL  
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Chatrapur

**PHYSICS DEPARTMENT**  
**GOVT. SCIENCE COLLEGE, CHATRAPUR**

Sl. No.	Name of the experiments	Specification
1.	Determination of diameter of a narrow wire using an optical bench.	Optical bench Narrow wire (fit on frame) Ramsden eyepiece Slit
2	Determination of wavelength of a sodium light using Michelson's Interferometer	Michelson's interferometer set up kit
3	Determine the width of a single slit using spectrometer	Adjustable Single slit spectrometer Spirit level A small mirror
4	Determination of wavelength of monochromatic light using Fresnel's Biprism Fresnel's Biprism complete set up	with optical bench eyepiece Convex lens uprights
5	Study of elliptically polarized light by Babinet's compensator with quarter wave plate.	Complete setup
6	Determine the width of slit and opaque space using double slit width and spectrometer	Double slit Glass plate Spectrometer
7	Study of elliptical polarized light by Malu's Law by Photo voltaic cell	Complete setup
8	Study of logic gates AND, OR, NOT, NAND, NOR, EXOR Trainer Kit box	Complete setup
9	Making of AND, OR, NOT Gates using NAND Gates Trainer Kit box	Complete setup
10	Characteristics of F.E.T. (Field Effect Transistor) apparatus	Characteristics of F.E.T. (Field Effect Transistor) kit
11	Verification of Boolean Algebra kit	Complete trainer kit
12	PN junction diode	Complete trainer kit
13	Zener diode characteristics apparatus	Complete trainer kit

  
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10/08/2024

**PHYSICS DEPARTMENT**  
**GOVT. SCIENCE COLLEGE, CHATRAPUR**

14	Determination of energy gap by PN junction method	PN junction diode with oven Thermometer Micro meter(range- 50 $\mu$ A) 3V voltage source 15 V ac source
15	Determination of dielectric constant of a given sample by lecher wire method complete setup.	Complete setup
16	Planck's constant by Photoelectric method	Complete setup
17	Measurement of velocity of light by Lecher wire	Complete setup
18	Determination of e/m by Braun tube method and Magnetron valve method	Complete setup
19	G M Counter: i) characteristics of Geiger tube II) inverse square law III) absorption coefficient of aluminium foil	Complete setup
20	Determination of Energy gap of a semiconductor by Four Probe method	Complete setup
21	Determination of BH curve of a given ferromagnet with CRO	Complete setup
22	Study of Dispersion relation of an electric analogue of monoatomic linear chain	Complete setup
23	Determination of specific rotation of sugar solution using polarimeter	Complete setup
24	Study of polarization of light by reflection and determination of polarizing angle for air glass interface	Complete setup
25	Study PE hysteresis loop of a ferroelectric crystal	Complete setup
26	Half subtractor, full subtractor, adder-subtractor using full adder IC	Complete setup
27	To build flipflop (RS , clocked RS, D type and JK) circuit using NAND gate Trainer kit box	Complete setup
28	To determine the value of e/m by magnetic focusing or bar magnet	Complete setup
29	Study of various biasing configuration of BJT for normal class A operation	Complete setup
30	To study the variation of thermo emf of a thermo couple with difference of temperature of its two junctions	Complete setup
31	To determine magnifying power of a telescope	Complete setup

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Pradyuma Madhu  
10/08/2024

**PHYSICS DEPARTMENT**  
**GOVT. SCIENCE COLLEGE, CHATRAPUR**

32	Determination of radius of curvature of a convex/ concave mirror by using Kohlrausch's method	Complete setup
33	CRO	Complete set up
34	Inverter including battery	220Ah-Battery

Pradyumn Maehri  
10/08/2024



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Mathematics department equipment's:

Item	Specification
1. Microsoft Office	Office Home & Student 2021 Version



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Badal Chavro  
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NOTESHEET

Sir,

According to the instruction of DHE, Odisha and letter no. HE-PTC-RUSA-0008-2018/H. E, BBSR, dated 26.07.2024, we have planned to buy the following equipment's/items from the Rusa fund to make the fully functional of computer laboratory which have been completed in April - 2021 under Rusa-1.0.


Kindly take the necessary steps to buy the followings items.

Sr. No.	Name of Equipment's	Specifications	Quantity	Approx. Amount of one item	Total amount
1	COMPUTER (Single large UPS)	i5, 8GB Ram, 250GB SSD, 1TB HDD)	30	Rs. 45000/-	Rs. 1350000
2	PRINTER	MFP LASER PRINTER	17	Rs.15000/-	Rs. 255,000
4.	AC	1.5 TON	04	Rs. 30000/-	Rs. 120000
5.	CAMERA	WEATHERPROOF SECURITY CAMERA	04	Rs. 4000/-	Rs. 16000
6.	MATLAB SOFTWARE	ACADEMIC /Campus wide license	10	Rs. 30000/-	Rs. 300000
				TOTAL	Rs. 20,41,000

  
Rusa co-ordinator

Place it before the  
purchase committee  
Approved

  
26-7-24

Approved  


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## Government Science College, Chatrapur

### List of Equipment Required for the ZOOLOGY Department

Sl No	Name of the Equipment	Specification
1	-20-degree Celsius freezer	200L
2	Horizontal electrophoresis unit	15X10 am gel tray, 30 samples per comb, larger sub cell GT unit
3	Burettes and stand	32 nos. of 50 ml, borosilicate glass, plastic stand
4	Mini centrifuge with eppendorff tube	8 position tube rotor, fast interchangeable rotor, low voltage power consuming
5	UV Trans luminator	Filter size 210X210, wave length 312
6	PCR Machine	96 well, 10-15 microliter sample holder, 8 inch graphical touch screen, tem. range 4-100 degree centigrade
7	Micropipette stand	2 nos
8	Sphygmomanometer	Manual with sthetho
9	Pipette	2ml-5 nos , 5ml-5 nos, 10ml-5 nos and stand
10	Micropipette with tip	200 microlit. – 1 no., 1ml – 1 nos., 2ml- 1 nos , 5ml- 1 no, 10ml-1 no.
11	UV-vis Spectrophotometer	Wave length with 0.1nm increment, 200-1000 nm range, 4 position sample changer, single position 20 - 50 mm cuvette holder
12	Nicrom loop for streaking	10 nos
13	Test tube holder	Platic-5 and steel- 5
14	Centrifuge tube	Graduated 15 ml ( 20 nos)
15	BOD bottol	50 ml : 5 nos
16	Binocular	Objective diameter 42 mm, magnification 10X



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**List of Equipment Required for the Chemistry Department**

Sl No	Name of the Equipment	Specification
1	UV - Visualization Chamber	UV Chamber with Visible, Short Range and Long Range UV Lamp for Visualization of Sample
2	PC for Computation	Intel Core -i7 13 <sup>th</sup> Gen (16 Cores and 24 Threads), 16 GB DDR 4, 1 TB HDD, 512 GB SSD, Windows 11 pro 64 bit, Linux. Monitor
3	Centrifuge	Speed 4000 RPM, RCF > 2000G, Capacity 200 ml, single phase
4	Weighing Balance	Accuracy 0.1mg
6	Double Beam PC Based UV-visible Spectrophotometer	Systronics

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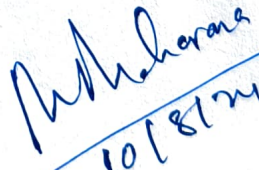
  
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BOTANY DEPARTMENT: EQUIPMENTS LIST

Serial no	Name of Equipment	Specification	No of Units
1.	UV spectrophotometer with quartz cubit(2 set)	Spectral range 200nm to 830nm	01
2.	Thermocycler with power pack	0.1ml tubes 96well plates. Thermal range 0 to 100 degree	01
3.	-20 degree freezer	180L	01
4.	Incubator Shaker	Spinix orbital shaker MCO1	01
5.	Micropipettes.	1ml(100-1000microliter, 200 microliter, 20 microliter)	01 each

  
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COMMERCE DEPARTMENT:

1. WORD PROCESSING
2. DATABASE MANEGEMENT SYSTEM
3. HTML
4. TALLY ERP-9

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10/08/24

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