

**OFFICE OF THE PRINCIPAL, PANCHAYAT COLLEGE, BARGARH
TENDER SPECIFICATION FOR RUSA/ LAB. EQUIPMENTS**

Notice No.1769 dt.20.09.2017

**For Lab. Equipment the Supplier has to quote reputed brand with valid authorisation
certificate of OEM**

PHYSICS

SL. NO.	NAME OF THE EQUIPMENTS
1	Audio Frequency Oscillator (D'Sauty's bridge) (complete set)
2	Head Phone (D'Sauty's bridge) (complete set)
3	Resistance boxes (0.1 ohm-1.0 ohm)
4	Multimeters (manual)
5	Multimeter (digital)
6	RF Oscillator (1000 kHz)
7	Ballistic Galvanometer moving needle type
8	J by Callender & Barne's Constant flow method (Complete set)
9	Co-efficient of Thermal conductivity of Cu by Searle's Apparatus (Complete set)
10	Thermal conductivity of bad conductor by Lee & Charlton's method (complete Set)
11	To determine the temperature co-efficient of resistance of Platinum (complete set)
12	To measure voltage, time period using a CRO(Complete set)
13	To test a Diode & Transistor using Multimeter (Complete Set)
14	Digital logic circuit (Complete Set)
15	To design a mono-stable Multi-vibrator of a give specification using 555 timer(Complete set)
16	To determine the work function of material of filament of directly heated vacuum diode (Complete set)
17	To determine the Planck's const. using LED's of a least 4 different colours (Complete set)
18	To show the tunnelling effect in tunnel diode using I~V characteristics (Complete set)
19	To determine the ionisation potential of mercury (complete set)
20	To set up the Millikan's oil drop apparatus & determine the charge of an electron (Complete set)
21	To study V-I Characteristics of PN junction diode & LED (Complete Set)
22	To Study the V-I characteristics of a diode & its use as voltage regulator (Complete Set)
23	BJT in CE mode (Complete set)
24	To study the frequency response of voltage gain of a RC coupled transistor amplifier (complete set)
25	Colpitt's Oscillator (Complete set)

CHEMISTRY

SL. NO.	NAME OF THE EQUIPMENTS
LABORATORY EQUIPMENT	
1	Shaking Machine for distribution
2	Fractional Thermometer (0.25)
3	Thermostat Low Temperature 20 ⁰ C.- 40 ⁰ C.
4	TLC (Thin Layer Chromatography apparatus)
5	Boiling Point apparatus
6	Ostwald Viscometer

7	Paper Chromatography
<u>Solvent & Chemicals</u>	
	For Solvent & Chemicals the bidder has to quote discount structure of reputed brand solvent & chemicals like Merck/Galxo/Loba/Hi media/Thomas beaker/Nice/CDH/Thermofisher
	The supplier must have valid authorisation certificate from the OEM.
<u>Glassware</u>	
	For glassware the bidder has to quote discount structure of Borocil, Insil, Torson & similar grade glassware.
	The supplier must have valid authorisation certificate from the OEM.
PSYCHOLOGY	
SL. NO.	NAME OF THE EQUIPMENTS
LABORATORY EQUIPMENT	
1	Intelligence Test (RSPM)
2	Glazer's Personality Test
3	Ethical Position Questionnaire (Donel San's)
4	Attitude towards Women Scale (Spence, Helmrich & Stapp)
5	Adaptation & Coping Skill
6	Conduction of Relaxation exercise Apparatus
7	Sia's Academic behaviour Scale
8	Rao's Academic Stress Scale
9	Basic Leadership Style Scale (Greenberg)
10	Effects of Frustration on performance
11	Differential Aptitude Test (DAT)
12	Individual Creativity Test
13	Group Creativity Test
ZOOLOGY	
SL. NO.	NAME OF THE EQUIPMENTS
1	S.D.S. Page unit
2	Elisa Reader
3	PCR Ellurinator attached with P.C.
4	Chromatographic Plates
5	Auto clave machine
6	Ice flakes machine
7	Deep freezer
8	Cooling centrifuge
9	Flame Photometer
10	Laminar flow
11	B.O.D. Incubator
12	Electronic microtome
13	Water bath
14	Micropipette
15	Projection microscope with P.C. attachment
16	Micro film
17	Mocro Photograph
18	Models
19	Distillation unit
20	Micro wave

21	Induction heating plate
22	Conductivity meter
23	Turbidity meter
24	Ponar grab meter
25	
26	Sacchi disc
27	Van Dorn Bottle
28	Reagent Bottle
29	Petridisc
30	Calture Plate

BOTANY

SL. NO.	NAME OF THE EQUIPMENTS
1	Laminar air flow model -BCA 26
2	Inoculation Loop
3	Gas cylinder
4	Gas pipe (2 mts)
5	Gas regulator
6	Ultra Cetrifuge with ependruf (60000-70000 rpm)
7	Gel eletrophoresis unit
8	SDS Page
9	Transluminator
10	UV-Vis Spectro-photometer
11	Soil thermometer
12	Anemo meter
13	Culture tube (Borosil) 15 cm
14	Ependruf (1 ml)
15	Petriplate -4" and 5" (Borosil)
16	Hygrometer
17	Rain gauge
18	Lux meter
19	Digital PH Meter
20	ABO Blood group test kit
21	Elisa kit
22	Thin layer chromatography
23	Water testing kit
24	Lab heater (box model)
25	Electrophoresis power supply

GENERAL COLLEGE INFRASTRUCTURE

SL. NO.	NAME OF THE EQUIPMENTS
1	Storewell (Godrej / Methodex / Featherlite type)
2	Mainsfield Almirah wooden (big)
3	Teacher's Table (Godrej / Methodex / Featherlite type)
4	Executive teacher table
5	Steel Executive Table
6	Executive Chair
7	Laboratory Student Stool
8	Office Cabinet
9	Green board/white board/Glass board
10	Hostel Cots & Bed
11	Hostel Table & Chairs & Shelf
12	Desk cum bench 3 seater (Godrej/Methodex type)
13	Glass door Almirah (Godrej/Methodex type)

14	Library Storage Unit
15	Journal Stand
16	Dustbin Trolley type
17	Student Chair with writing pad
18	Personal locker unit
19	Visitor Chair
20	Waiting Chair
21	Reading Room Chair
22	Display Board/Notice Board
23	Water purifier with cool & hot water
24	Vaccum Cleaner
25	Aluminium Lader
26	Wall magazine Board (Alluminium)
27	Inverter

ELECTRONIC / DIGITAL ITEMS

1	LCD Projector (Wi-Fi) system
2	LCD Projector sealing mount
3	Podium Digital with recording
4	Display board digital
5	Slide projector Automatic
6	Smart board
7	Desktop P.C. All in one (C i3/i5)
8	Destop P.C. (C i3 / i5)
9	Laptop i3 / i5
10	Online UPS
11	UPS
12	Spike guard
13	Laser Printer
14	Multifunctional high speed
15	Xerox machine
16	Rezo printer
17	High speed scanner
18	Table top portable scanner
19	Kindle Reader
20	Hard disc/pen drive
21	Digital Signature pad
22	Solar Emergency light
23	Silent D.G. Set Single/three phase 10kv/15kv
24	Wi-fi dongle
25	Split A.C. (L.G., Samsung, Voltas)

PROJECT BASED WORK

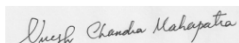
SPECIFICATION FOR LAB. FURNITURE:

1	<u>Wall Configuration:</u>
	Wall side Table with Regent Selves, Storage Unit, providing 3/4" thick ISI 710 boiling water proof ISO 9001 chemically trade coring solid ply with inside laminate / outside 1 mm thick lam. Paste with telescopic channel fittings with door & Godrej hinges Top 30mm thick Ply with jet Black Granite Silicon Sealant Black, Top Upper side electrical modular accessories fittings, one side sink water faucets, waste for PP drop in sink fitting.
2	<u>Island Configuration:</u>

	Center Table with Reagent Selves, providing 3/4" thick ISI 710 boiling water proof ISO 9001 chemically trade coring solid ply with inside laminate / outside 1 mm thick lam. Paste with telescopic channel fittings with door & Godrej hinges Top 30mm thick ply with Jet Black Granite Silicon Sealant-Black, Top Upper side electrical accessories fittings, one side sink water faucets, waste for PP drop in sink fitting, facilitating seating around the table.
3	<u>Half Circle Demonstration Table:</u>
	Providing 3/4" thick ISI 710 boiling water proof ISO 9001 chemically trade coring solid ply with inside laminate / outside 1mm thick lam. Paste with telescopic channel fittings with door & Godrej hinges Top 30mm thick Ply with lock.
4	<u>Lab Storage Unit:</u>
	Providing 3/4" thick ISI 710 boiling water proof ISO 9001 chemically trade coring solid ply with inside laminate / outside 1mm thick lam. Paste with telescopic channel fittings with door & Godrej hinges, open door with glass fittings.
	For detail of quantity & measurement of the Lab furniture visit new Laboratory of the college & Contact respective HOD.
5	Acoustic sound treatment
6	EXTENSION OF WI-FI FACILITY (For detail pl. visit college)
7	EXTENSION OF CC TV SURVEILLANCE (For detail pl. visit college)
8	OFFICE AUTOMATION (For detail pl. visit college)
<u>SPORTS MATERIALS</u>	
1	Cricket Kit
2	Football kit
3	Volley Ball Kit
4	Badminton Kit
	<i>(Kit should consist of all related sports items)</i>
<u>BOOKS & JOURNALS</u>	
1	For books & journals please visit college office during office hour for detail list of books of different department.
2	The supplier has to quote discount structure on Text book, Reference book, Journals publication-wise.



Convener
Purchase Committee



Coordinator
RUSA



Principal
Panchayat College, Bargarh