



OFFICE OF THE PRINCIPAL, B.J.B.AUTONOMOUS COLLEGE, BHUBANESWAR

No. 254 /Dt. 22/01/24

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TENDER CALL NOTICE

Sealed tenders are invited from registered firms/dealers/suppliers having valid GST registration, PAN and IT Clearance for supply of laboratory equipments for the College so as to reach the undersigned through registered/speed post only latest by 5.00 PM on or before 01.02.2024. The undersigned reserves the right to accept or reject any or all quotations without assigning any reason thereof. The details of terms and conditions and department wise list of equipments are available in the website of the College www.bjbcollege.in.

Documents to be submitted with the tenders.

1. Copy of GST registration certificate
2. Copy of updated GST clearance
3. Copy of PAN Card of the firm
4. Income Tax Return certificate for the three preceding financial years
5. Manufacture's authorization certificate

Terms and Conditions

1. The bidders must submit the tenders department wise in the separately envelopes mentioning clearly the name of the Department on the envelope.
2. The bidder must submit the tender in the enclosed tender format only as given in Annexure – I.
3. The bidder must provide the general information about the firm in the enclosed proforma as given in Annexure – II.
4. The quotations must be sent though registered/speed post only to Principal, BJB Autonomous College, Bhubaneswar, 751014 with all relevant documents so as to reach latest by 5.00 PM on or before 01.02.2024.
5. The undersigned is not responsible for any postal delay.
6. Incomplete tenders or tenders received after last date are liable to be rejected.
7. EMD of Rs.15,000/- (Rupees Fifteen thousand) only is to be submitted by the bidder in shape of accounts payee demand draft drawn in favour of Principal, B.J.B. Autonomous College, Bhubaneswar payable at Bhubaneswar in any Nationalized Bank.

Principal, 22-01-24
B.J.B. Autonomous College,
Bhubaneswar

Memo No. 255 Dt. 22/01/24

Copy to OIC, College Website/Accounts Section/Section Officer/Guard File for information.

Principal, 22-01-24
B.J.B. Autonomous College,
Bhubaneswar

ANNEXURE – I
TENDER FORMAT

Name of the Department :

Sl. No.	Name of the equipment	Specifications	Make/Brand	Price per unit (₹)	GST (₹)	Total Price including GST (₹)

ANNEXURE – II
GENERAL INFORMATION ABOUT THE FIRM/BIDDER
(To be filled in by the Bidder)

1. Name of the Bidder :
 2. Full address of the Bidder:
 3. Mobile Number :
 4. Email ID :
 5. Registration No. of Firm :
 6. PAN :
 7. GST Registration No. with up-to-date GST Clearance Certificate :
 8. IT Return for the last three financial years :
 9. Details of EMD : D.D. No.....DateAmount
- drawn on the Bank

Seal and signature of the Bidder

Department of Botany
Technical Specifications for Laboratory Equipments

PCR Machine (PTC Tempo Thermal Cycler)

- The system should support minimum sample volumes ranging from 10 μ l / tube.
- Sample Capacity: The system to be capable to use 96 well PCR plates / 8 x 12 PCR Strips /96 x 0.2ml tubes.
- The 96x0.2 mL veriflex blocks should have six or more different temperature zones with a differential of 5 $^{\circ}$ C zone to zone. These zones should be comprised of individual peltier elements. The system should maintain thermal characteristics between optimization and isothermal condition to eliminate further optimizations.
- Programmable Heat Lid: Heated lid should be programmable between 50 to 100 $^{\circ}$ C.
- Block ramp rate minimum 3.5 degree C/sec & Sample ramp Rate minimum 3 degree C/sec.
- The thermal cycler should have programmable ramp rate. The system to support Block Temperature Range starting from 0 $^{\circ}$ C – 100 $^{\circ}$ C.
- The system to have a Temperature Accuracy \pm 0.25 $^{\circ}$ C at 35 $^{\circ}$ C – 99.9 $^{\circ}$ C, Temperature Uniformity < 0.5 $^{\circ}$ C
- On board Tm calculator facility to approximate the optimal annealing temperature.
- Memory: The system to have provision to save up to 700 Protocols in the instrument. System to be open to expansion of memory via USB memory stick.
- Warranty: The system should have a warranty period of 1 year.

Refrigerated high speed Bench top centrifuge

- Temperature range of -11 $^{\circ}$ C- + 40 $^{\circ}$ C.
- Should come with short-spin key, fast pre-cooling and stand-by/ continuous cooling option.
- With high centrifugation speed 30,000 x g (17,000rpm) or more, adjustable from 100rpm upwards.
- Must have a standby cooling. And a programming function to shutoff/deactivate the compressor after inactivity of 8 hrs. which will save energy and extend compressor life.
- Timer for run can be set up to 99minutes/ continuous.
- Must have "At set rpm" function which enables timer countdown to be started only when selected speed is achieved.
- Digital display of time, speed and temperature. Programmable time and speed using Key pad.
- Must be able to store atleast 50 routine procedures with minimum 5 programmable buttons for frequently used programs in the first level.
- Able to switch display between rcf and rpm speed setting, Separate short spin key.
- Acceleration time to max rpm \leq 14 sec, Braking time to max rpm \leq 14 s.
- Low noise levels less than 56db at max speed.
- The centrifuge must be CE & IEC 1010-2-020 certified.
- Stainless steel chamber, Brushless maintenance free drive, Automatic motorised locking when lid almost closed.
- Versatility with 12 different rotors option: 10 fixed angle rotors and 2 swing out rotors.



- Fixed angle rotor: - 30x1.5/2ml, high speed rotor 24x1.5/2ml with 30000xg, 48x1.5/2ml with 18000xg, 16x5.0ml with 21000xg, 6x15/50ml falcon with 7500xg, 18x1-2ml cryo tubes, 24 spin column tubes, 8x8- PCR strips.
- Swing-bucket rotors for 24x1.5/2.0 ml tubes with 16,000xg and for 2 x DWP or MTP not higher than 29 mm with 2,200xg or more.
- Rotors and lids should be made of anodised aluminium to ensure chemical resistance, Automatic imbalance and rotor recognition
- Rotor must be autoclavable at 121°C for 20min to eliminate any contaminating material
- It should come with 12 months comprehensive warranty
- Centrifuge to be supplied along with fixed angle rotor for 30x1.5/2.0ml tubes with 4000rpm & 21000xg.

✓ **Molecular Imager Gel Doc XR+ System with Image Lab Software
1708195**

Gel imaging system, includes darkroom, UV transilluminator, epi-white illumination, camera, cables, Image Lab software compatible with Windows or Mac OS

Applications

Chemiluminescence	No
Fluorescence*	Yes
Colorimetry/densitometry	Yes
Gel documentation	Yes

Hardware Specifications

Maximum sample size	28 x 36 cm
Maximum image area	19.4 x 26 cm
Excitation source	Epi-white light and trans-UV (302 nm) are standard (optional 365 nm lamp available); optional trans-white conversion screen and XcitaBlue™ UV/blue conversion screen available
Illumination control	3 modes (trans-UV, trans white, epi-white)
Detector	CCD
Image resolution	4 megapixels
Pixel size (H x V)	4.65 x 4.65 µm
Filter holder	3 positions (2 for filters, 1 without filter)
Emission filters	1 included (standard), 3 optional
Dynamic range	>3.0 orders of magnitude
Pixel density (gray levels)	4,096
Dynamic flat fielding	Application specific, for all applications
Instrument size (L x W x H)	36 x 60 x 96 cm
Instrument weight	32 kg
Operating Ranges	
Operating voltage	110/115/230 V AC nominal
Operating temperature	10–28°C (21°C recommended)
Operating humidity	<70% noncondensing

Automation Capabilities

Workflow automated selection	Application driven; user selected or recalled by a protocol
Workflow automated execution	Controlled by a protocol via application specific setup for image area, illumination source, filter, analysis, and reporting
Workflow reproducibility	100% repeatability via recallable protocols; from image capture to quantitative analysis and reports
Autofocus (patent pending)	Precalibrated focus for any zoom setting or sample height
Image flat fielding**	Dynamic; precalibrated and optimized per application
Autoexposure	2 user-defined modes (intense or faint bands)

TSM

✓
-20° C REFRIGERATR

✓
Technical Specification for Laminar airflow

Laminar Cabinets Inner Chamber & Outer Chamber made of stainless steel high efficiency particular air filters, to achieve the air purification upto 0.3 Microns in Working area.

Working area 4 ft x 2 ft x 2 ft

Blower fitted with ¼ HP Motor, with RPM 1200 to 1400. Pre-filters made of high grade nylon Net fixed in S.S. frame for first Stage air purification, through blower system.

Closed Inner Chamber fitted with HEPA having very accurate performance rate of air filtration, rated 99.99%, resulting in ceasing all air bore molecule of particle upto 0.3 micron in working Area of Laminar Bench.

Working area of Laminar Airflow Cabinets illuminated by fluorescent light ;cabinets operated at 230V. Single Phase 50Hz. AC Supply.

Fitted with UV Germicidal lamp for sterilization.

Fitted with Acrylic Front Door sliding type

Fitted with Manometer for Measurement of HEPA Filters Choking system.

Fitted with Cock for Gas Connection.


HOD, BOTANY 16.01.23

LABORATORY EQUIPMENTS FOR DEPARTMENT OF ANTHROPOLOGY

SL. NO	NAME OF THE INSTRUMENT	UNITs REQUIRED
1	Osteometric Board	20
2	Digital Spreading Calliper	10
3	Digital Sliding Calliper	20
4	Refrigerator for keeping sera and other chemicals	1
5	Digital height measurement machine	6
6	Karada Scan (omron)	4
7	Phadebas Paper	2
8	Blade tools	10
	Chopper, Chopping	10
	Points	10
	Microliths	10
	Burin	10
	Chisel	10
	Pick	10
	Scraper	10
	Ringstone	10
Hand axe	10	
9	Glass Slide for Blood Test	10
10	Auto Pricking Pen	5
11	Auto Pricking Needles for Blood test	5
12	Gluko Meter Digital	5
13	Blood pressure Machine Digital	5
14	Digital Skinfold Calliper	5
15	Laboratory bowl for cleaning of used slides	5
16	Colourblind Chart	10
17	Anthropometer Rod	5
18	DNA Chart	2
19	Long Bones Chart	2
20	Skull View Chart	2
21	Animal Cell Function and Structure Chart	2
22	Cell Chart	2

23	Chromosome Chart	2
24	Fingerprint and Palm Chart	2
25	Mandibulometer	2
26	Model Skeleton	4
27	Model Long Bones (SET)	10
28	Model Skull	10
29	Model Mandible	8
30	Model Pelvic Bone	10
31	Marttin's Tubular Craniophore	4
32	Martin's Cubic Craniophore	4
33	Horizontal needle	4
34	Sahlis haemoglobin meter	4
35	Goniometer (Mollision type)	4
36	Total body fat monitor	2
37	Steel tape	8
38	Dermatoglyphics kit	10
39	Stethoscope	2
40	Stamp Pad	5
41	Stamp Pad Ink	5

HoD, Anthropology

Department of Chemistry, BJB Autonomous College
Specifications of the list of Equipment's

Sl.	Item	Specification	Quantity
1	Visible spectrophotometer (Single Beam Microprocessor based)	Wavelength Range: 350 to 950 or better. Wavelength accuracy: ± 5 nm or better Photometric resolution: 0.1% T, 0.001 Abs Bandwidth: 10 nm or better Source: Tungsten halogen lamp or equivalent Readout display: 4-digit LED Grating: 600 lines/nm or better Measuring mode: Conc., % Transmission, Abs. Sample holder: Single position 10 mm cuvette Operating Power: 230 V \pm 10%, 50 MHz	02
2.	Visible spectrophotometer (Double Beam Microprocessor based)	Wavelength Range: 350 to 950 or better. Wavelength accuracy: ± 2 nm or better Photometric resolution: 0.1% T, 0.001 Abs Bandwidth: 5nm or better Stray light: 0.3% T or better Variable scan speed Source: Tungsten halogen lamp or equivalent Readout Display: LCD Grating: 600 lines/nm or better Measuring mode: Conc., % Transmission, Abs. Operating mode: single/multi-wavelength, spectrum and time scan Sample holder: For reference and sample 10 mm cuvette Provision for data processing, saving facility Provision of RS232 port for data transfer Operating Power: 230 V \pm 10%, 50 MHz	01
3	UV-Visible spectrophotometer (Double Beam Microprocessor based)	Provision of touch screen (LCD) with inbuilt Windows 10 operating system or higher Wavelength Range: 190 to 1100 or better. Wavelength accuracy: ± 0.5 nm or better Photometric accuracy: 0.005 at 1.0 Abs or better Bandwidth: 2nm or better Stray light: 0.05% T or better Variable scan speed Source: Tungsten halogen lamp and Deuterium lamp Automatic baseline correction, lamp selection, sample position, wavelength selection, cut-off filter selection Readout Display: LCD Grating: 1200 lines/nm or better Measuring mode: Conc.(k-factor), % Transmission, Abs., multicomponent Operating mode: single/multi-wavelength, spectrum and time scan Sample holder: For reference and samples 10 mm cuvette (Min 5 positions)	01

		Provision for data processing, saving facility Provision of RS232 port for data transfer Operating Power: 230 V \pm 10%, 50 MHz Standard accessories	
4.	Digital pH meter (Manual)	pH / mV Range: 0-14 pH / \pm 1999 mV pH Resolution: 0.01 pH mV Resolution: 1 mV pH Relative Accuracy: \pm 0.02 pH Temperature Range: 0 to 100°C Calibration Check Facility: In-built with Instrument Calibration Error Indication: For 7.00 pH and 4.01 pH Short Link: Provided to diagnose the Display: 3½ digit Large LED Display Provision of Push Button for operation. Power Supply: 230VAC \pm 10%, 50 Hz Supplied with Combination Glass pH Electrode (0 - 70°C), and other standard accessories	04
5	Digital conductivity meter (Manual)	Conductivity Range: 0 μ S – 200 mS with 1.0 cell constant Resolution: 0.1 μ S Accuracy: \pm 1% Temperature: 0 – 100 °C (Manual) Readout: 3 digits LED Accessories: 01 cell with all other standard accessories Power Supply: 230VAC \pm 10%, 50 Hz	02
6	Digital Potentiometer	Range: 0 \pm 1999 mV Resolution: 1 mV Readout: 3 ½ digit LED mv Accuracy \pm 1%, Inbuilt magnetic stirrer with variable control Power supply 230V \pm 10%AC, Supplied with ORP Electrodes, Electrode Stand & Dust Cover. Accessories: Combined Pt and reference electrode and other standard accessories	02
7	Electronic Single pan Balance (with Glass Draft Shield)	Capacity: 200 g Readability: 0.001 g (1 mg) Repeatability: \pm 0.001 g Linearity: \pm 0.002 g Multifunction Weighing Units Pan Size: 80 - 90 mm Display: LCD with backlight Provision of RS232 Interface Calibration: Automatic calibration with External weight Tare Range: Full Operating Temperature: 10-40 C Power supply: AC 220V/ 50-60 Hz	02

8	Hot Air Oven (with digital PID controller)	Capacity: 95-100 litres With air circulation Fan Hot Air Oven with Digital temperature Controller Temp. Inner Chamber Size (mm): 450x450x450 Digital temp. range: Ambient to 250°C Temperature stability: 0.1-0.2°C Inner chamber SS and outer body MS powder coated Power: 220/230V, AC Single Phase 50 Hz Heavy gauge element from three sides with insulation of glass wool Two Trays	01
9	Digital Ultrasonic Cleaner	Tank Capacity: 2.5 – 3.0 L Inner Tank and Outer Body: SS Lid material: SS 304 Digital RED LED display Ultrasonic power - 100W, Heating power - 100W Tank size (mm): 240x140x100 Time setting: 1-99 min Time setting: 0-80°C Frequency: 40 50 Hz	01
10.	Laboratory Centrifuge	Rotor Capacity (ml): 16x15 ml Type of Head: Swing Out Head Digital (LED) speed indicator with stepless regulator Digital Timer Range: 0-90 minutes or better Maximum Speed (RPM): 5000 or more Power Supply (single phase): 220- 240 V, 50 Hz Maximum Rcf: 3500 or better Provision of Safety lid lock Accessories: Extra rotor head with provision of tubes	01
8.	Orbital Shaker	Body Material: MS painted with Epoxy Powder. Tray Material: SS for beakers by use of spring bottle holder. Tray size: 425 mm X 425 mm Shaking speed: 20-200 Orbital strokes per minute. (without load) Digital speed indication: None Permanent Magnet Geared DC motor with 25 mm dia. Continuous operation limit: Max up to 10-12 hours Essential accessories: SS Lotus clamps or spring clamps for holding the flasks of 250 ml capacity (16 numbers)	01
9.	Magnetic stirrer (without hot plate)	Capacity: 2 litre Dimensions (WxHxD) mm: 150 x 220 x 150 Staring speed display Stirring Paddle (PTFE coated)	02

11.	Magnetic stirrer (with hot plate)	Capacity: 2 litres Dimensions (WxHxD) mm: 200 x 225 x 185 Starting speed display Stirring Paddle (PTFE coated)	02
12.	Digital Potentiometer	Range: 0 ±1999 mV Resolution: 1 mV Readout: 3 ½ digit LED mv Accuracy ±1%, Inbuilt magnetic stirrer with variable control Power supply 230V ±10%AC, Supplied with ORP Electrodes, Electrode Stand & Dust Cover. Accessories: Combined Pt and reference electrode and other standard accessories	02
13.	UV Chamber	UV Fluorescence Inspection Cabinet Suitable for visualization of TLC	01
14.	Vacuum Pump (Portable, Oil free)	Material: All parts made from Special graded aluminium die cast material Diaphragms: 2 ply Nylon or Teflon, reinforced neoprene rubber Valves: SS 316 material Noise free, Built in micro suction filter Double stage motor in parallel Max. flow (LMP): 25	01
15.	Refrigerator (Branded)	Capacity: 220 litres Double door with freezer at the top Three star or above Minimum: 7 years warranty on compressor	01
16.	Microwave Oven	<ul style="list-style-type: none"> • 32 L • Convection: Can be used for along with reheating, defrosting and heating of sample • Feather Touch : Modern, easy-to-use touch controls 	1
17.	Thermometer 0 to 310 °C (50 no)	Colour yellow Included Components thermometer Outer Material Glass,Plastic Specification Met CE Display Type Analog Product Care Instructions Glass!Handle with care Item Length 30 Centimetres Upper Temperature Rating 360 Degrees Celsius Response Time 500 Milliseconds	20
18.	Thermometer-0 to 110 °C (100 no),	Special Feature Alcohol Colour Yellow Outer Material Glass Display Type Analog Power Source Battery Powered Item Length 30 Centimetres Upper Temperature Rating 110 Degrees Celsius Response Time 500 Milliseconds Immersion Depth 250 Millimetres	50

19.	Buchner Funnel setup	Buchner funnel with sintered disc Porosity grade 4 <ul style="list-style-type: none"> • Made of 3.3 borosilicate glass • Especially useful where the filter paper may be attacked by filtered material • Generally used in qualitative inorganic analysis and preparative chemistry • Resistant to corrosion and heat 	20
20.	Stalagmometer	Borosilicate glass Stalagmometer straight	20
21.	UV Chamber	UV Fluorescence Inspection Cabinet Suitable For : Visualization of TLC	1
22.	Muffle Furnace 1000 deg C	Muffle Furnace Laboratory model With Digital Temp. Controller. Maximum Temp 900 Deg, Working Temp 800 deg. Heavy gauge inner chamber high temp. block with kainthal wire element and 100 mm insulation of high temp. blanket to maintain temp. ACCURACY ± 2 OR 3° Size-225X100X100 (9"X4"X4"),	1
23.	Bunsen burner	Bunsen burner, Zinc PDC base with 13 mm brass pipe for L.P.G.	64
24.	Blowpipe	BLOW PIPE (BRASS), 8" Heavy with nozzle	50
25.	Test tube holder	Cross pattern, Stainless steel with wooden handle	80
26	Hot Gun	Working temperature 60 – 550 °C Airflow 350 – 550 l/min Heat-up time 1 s Control, airflow 3 Sound pressure level 70 dB(A) Sound power level 3 dB Total vibration values Vibration emission value ah 1.5 m/s ²	02
27.	Nichrome Wire	Nichrome Wire (500 gm)	1
28.	column chromatography	Laboratory Chromatography Column with Joint Fritted Disc And PTFE Stopcock	30
29.	Mortar and Pestle	6-inch Dia White Colour Round Shape Porcelain Mortar Pestle for Labs	30
30.	Muffle Furnace 1000 deg C	Muffle Furnace Laboratory model With Digital Temp. Controller. Maximum Temp 900 Deg, Working Temp 800 deg. Heavy gauge inner chamber high temp. block with kainthal wire element and 100 mm insulation of high temp. blanket to maintain temp. ACCURACY ± 2 OR 3° Size-225X100X100 (9"X4"X4"),	01
31.	Polarimeter	Digital Automatic Polarimeter Domestic advanced digital circuit and microcomputer control. graphical LCD display. Storage of three times resuBSSCOs for Re-M (repetition measurement) and calculation of average value. Measurement of dark-colored sample.	01

		USB interface. Measurement range -70° to +70°(optical rotation) and- 200° to+ 200° Z (sugar scale). Most Suitable for sugar content measurements. (HSN Code : 90275030)	
32.	Turbidity meter 132 manual	Accurate and elegant manual instrument Range: 0 – 1000 NTU Readout: 3 ½ digit LED Accessories: 4 test tubes & Light Shield	02
33	Visible Spectrophotmer	Spectrophotmer 167 at a glance: Micro-controller based 2 Line 20 Characters LCD 340 – 999 nm Range %T, Abs, Conc. measuring modes Single Wavelength, Multi Wavelength, Scan Operating modes 5 nm Bandwidth 4 Position automatic sample changer (Optional) Printer interface (Optional)	01
33	Inverter with battery	Luminous Inverter 3 KV + 4 no battery, 12 volt, 150 HA/ 180 HA Or Exide Inverter 3 KV + 4 no battery, 12 volt, 150 HA/ 180 HA Or Micro-tech Inverter 3 KV + 4 no battery, 12 volt, 150 HA/ 180 HA	01

DEPARTMENT OF CHEMISTRY. B.J.B(A) COLLEGE, BHUBANESWAR

LIST OF CHEMICALS

SI No	ITEM NAME	SPECIFICATION	QUANTITY
1	2,4-DNPH	25gm	4
2	Absolute Ethyle alcohol(C ₂ H ₅ OH)	500ML	5
3	Acetaldehyde(CH ₃ CHO)	500ML	4
4	Acetamide(CH ₃ CONH ₂)	500gm	2
5	Acetanilide	500 gm	2
6	Acetic acid(CH ₃ COOH)(Glacial)	500ML	8
7	Acetic Anhydride (CH ₃ CO) ₂ O	500ML	1
11	Acetone(CH ₃ COCH ₃)	500ML	6
12	Acetophenone	500 ml	2
13	Acetyl Chloride	500 ml	4
14	Acrylonitrile	501 ml	2
15	Adipic Acid	500 gm	1
16	Aluminium Powder	500gm	1
18	Aluminium Sulphate(Al ₂ (SO ₄) ₃ .24H ₂ O)	500gm	2
19	Sodium Arsenate	250gm	2
20	Ammonium Carbonate	500gm	6
21	Ammonium Chloride(NH ₄ Cl)	500gm	10
22	Ammonium iodide solution(NH ₄ I)	500ml	1
23	AMMONIUM METAVANADATE	100 gm	1
24	Ammonium Molybdate(NH ₄) ₂ MoO ₄	500gm	1
26	Ammonium Sulphate(NH ₄) ₂ SO ₄	500gm	4
27	Ammonium Sulphide(NH ₄) ₂ S	500g	1
28	Ammonium thiocyanate(NH ₄ SCN)	500g	2
29	Anhydrous Ferric chloride(FeCl ₃)	500gm	2
30	Aniline(C ₆ H ₅ NH ₂)	500ML	8
31	Animal charcol	500gm	2
32	Barfoed's Reagent	125 ml	2
33	Barium Sulfate	500gm	1
34	BENZALDEHYDE	500 ml	5
35	Benzamide(C ₆ H ₅ CONH ₂)	500gm	2
37	BENZO PHENONE	500gm	2
38	Benzoic acid(C ₆ H ₅ COOH)	500gm	4
39	Benzoyl Chloride	500ml	6
40	Benzyl chloride	500ml	1
41	Borax(Na ₂ B ₄ O ₇ .10H ₂ O)	500gm	2
42	BROMINE(LIQUID)	500ml	6
43	BROMO-BENZENE	250 ml	1
44	Cadmium chloride(CdCl ₂)	100gm	1
45	Cadmium Nitrate(Cd(NO ₃) ₂)	100gm	1
46	Calcium carbonate(CaCO ₃)	500gm	4
47	Calcium Fluoride(CaF ₂)	500gm	2
48	Calcium Nitrate(Ca(NO ₃) ₂)	500gm	1
49	Calcium sulphate(CaSO ₄)	500gm	2
50	Calcium sulphite(CaSO ₃)	500gm	1
51	CALCON	5 gm	2
52	Carbon Disulphide(CS ₂)	500ml	1
53	Carbon tetra chloride	500ml	5
54	Ceric ammonium nitrate	100gm	2
55		100gm	1
56	Chloroform	500 ml	1
57	Cinchonine-KI Reagent	100ml	1
58	Cinnamic acid	250gm	1
59	Cobalt Acetate		1
60	Conc. Hydrochloric acid(HCl)	2.5lt	4

61	Conc.Ammonium hydroxide	2.5lt	4
62	Conc.Nitric acid(HNO3)	2.5lt	4
63	Conc.Sulphuric acid(H2SO4)	2.5lt	4
64	Copper foil	5sheet	1
65	Copper sulphate(CuSO4.5H2O)	500g	4
66	COPPER TURNING	500gm	1
67	Cyclohexane	500ml	1
68	Cyclohexanol	500ml	1
69	D-Glucose	500 gm	5
70	Dichloromethane		1
71	DIETHYL ETHER	500ml	2
72	Dimethyl Amine(CH3)2NH	500ML	1
73	Dimethyl glyoxime(dmg)	50g	4
74	Disodium salt of EDTA	100g	6
75	Dry THF		1
76	Eriochrome Black -T Indicator	100g	2
77	ETHANOL	500 ml	1
78	Ethyl acetate(CH3COOC2H5)	500ml	4
79	ethyl methyl ketone	500 ml	2
80	FAS(Ferrous Ammonium sulphate)	500gm	2
85	Ferrous Sulfide(FeS)	1KG	5
86	Ferrous sulphate(Fe2(SO4)3	500gm	4
87	Formaldehyde	500ml	4
88	Fructose	500 gm	4
89	Galactose	100 gm	1
90	Glycine		2
91	Hexane	500 ml	8
94	Hydrogen Peroxide(30%)	500 gm	8
95	Iodine solution	500ml	4
96	Lactose	500 GM	2
97	Lead Acetate(Pb(CH3COO)2)	500 GM	4
98	Lead Nitrate(Pb(NO3)2	500gm	4
1	Lead Sulfate	250 gm	1
99	Magnesium chloride(MgCl2)	500gm	2
100	MAGNESIUM METAL TURNING	1 KG	1
101	Magnesium Nitrate(Mg(NO3)2	500gm	2
102	Magneson Reagent	100ml	6
103	Maltose	500 gm	1
104	Manganese dioxide(MnO2)	500gm	4
105	Manganese(II)Sulphate(MnSO4)	500gm	1
106	m-Cresol	500 ml	1
107	Mercuric chloride	100gm	4
109	Mercurous Nitrate(Hg2(NO3)2	500gm	1
110	Methanol	500 ml	10
111	Methyl acetate(CH3COOCH3)	500ml	4
113	Methyl Orange	100gm	2
114	Methyl Red	100gm	2
115	METHYLENE BLUE	200 ml	2
117	m-Toluidine	500gm	1
118	N,N-Diphenyl amine	100ml	2
119	Nesseles reagent K2(HgI4)	100ml	1
120	Nickel ammonium Sulphate(Ni(NH3)6)SO4	500gm	2
121	Nickel chloride(NiCl2)	500gm	1
122	Nickel Nitrate(Ni(NO3)2	500gm	1
123	Nitro benzene(C6H5NO2)	500ML	4
124	N-phenyl Annthranilic Acid	25 gm	4
125	O-Cresol	100gm	2
126	O-Phosphoric Acid	500 gm	2

127	Ortho-toluidine	500ml	2
128	Oxalic Acid	500 gm	6
129	p-Aminophenol	250gm	2
130	p-Anisidine	100gm	2
131	p-Aminobenzoic acid	100gm	2
132	Pattern and Reeder's Indicator	5 gm	2
133	p-Cresol	100 gm	1
134	pentane	500ml	4
135	Petroleum Ether	500 ml	4
136	PH Paper		20
137	Phenol	500gm	4
2	Phenolphthalein indicator	100ml	4
138	Phthalic Acid	500 gm	2
139	P-nitrophenol	5 gm	2
140	p-Nitrotoluene	500 gm	2
140	Potassium Bromate	500 gm	1
141	Potassium Hydroxide(KOH)	500gm	6
142	Potassium Pyroantimonate	100 gm	4
143	Potassium bromide(KBr)	500gm	6
144	Potassium chloride(KCl)	500gm	6
145	Potassium chromate(K ₂ CrO ₄)	500gm	6
146	Potassium dichromate(K ₂ Cr ₂ O ₇)	500gm	6
147	Potassium oxalate(K ₂ C ₂ O ₄)	500gm	2
148	Potassium permanganate(KMnO ₄)	500gm	6
150	Potassium ferrocyanide (K ₄ (Fe(CN) ₆)	500gm	4
151	Potassium hydrogen sulfate(KHSO ₄)	500 gm	2
152	Potassium Hydroxide(KOH)		6
153	Potassium iodide(KI)	100gm	8
154	Potassium Thiocyanate(KSCN)	500gm	2
155	Propanal	500ml	1
156	P-Toluidine	500 ml	1
157	Pyridine	500 ml	1
158	Resorcinol	100gm	4
159	Rhodamine-B Reagent	25 gm	1
160	Salicylic Acid	500 gm	4
161	Schiff Reagent	500ml	2
162	Silica	5KG	1
163	Silica gel mesh size(60-120)	5 KG	1
166	Silver Iodide	10 gm	1
167	Silver nitrate(AgNO ₃)	25gm	2
169	Sodium acetate(CH ₃ COONa)	500gm	2
170	Sodium Arsenate(Na ₃ AsO ₄)	500 gm	2
171	Sodium Bicarbonate	500 gm	4
172	Sodium Bismuthate	25gm	2
173	Sodium Carbonate	500gm	8
174	SODIUM Chloride	500gm	4
175	Sodium dihydrogen phosphate(NaH ₂ PO ₄)	500gm	2
176	Sodium hydroxide(NaOH) PELLET	500g	4
178	Sodium Laureth Sulfate(SLS)	500 Gm	1
179	Sodium meta bisulphite(Na ₂ S ₂ O ₅)	500gm	1
180	Sodium Metal	500 gm	2
181	Sodium Nitrate(NaNO ₃)	500gm	3
182	Sodium Nitrite(NaNO ₂)	500gm	3
183	Sodium Nitropruside	100 gm	3
184	Sodium Oxalate(Na ₂ C ₂ O ₄)	500gm	5
185	Sodium Peroxoborate(NaBO ₃ .4H ₂ O)	100gm	2
186	Sodium Phosphate	100 gm	2
187	Sodium Starch glycolate	500gm	2

188	Sodium sulphate(Na ₂ SO ₄)	500gm	2
189	Sodium sulphide(Na ₂ S)	500gm	6
190	SODIUM Sulphite	500 GM	2
191	Sodium thiosulphate(Na ₂ S ₂ O ₇ ·5H ₂ O)	500gm	6
192	Sodium Tungstate(Na ₂ WO ₄)	100gm	1
193	Sodium Vanadate(Na ₂ VO ₃)	100gm	1
194	Sodiumbisulphite(NaHSO ₃)	500gm	1
195	SodiumThiosulphate	500gm	6
197	Strontium chloride(SrCl ₂)	500gm	1
198	Strontium Nitrate(Sr(NO ₃) ₂)	500gm	1
200	Sucrose	500 GM	4
201	Sulfanilic Acid	100gm	1
203	Thiamine hydrochloride	25g	2
204	Thio urea(CH ₃ CSNH ₂)	500gm	2
206	Tin Granules/Tin foil	100gm	2
207	Titanium Dioxide	500 gm	1
208	TLC plates(Alumina Foil)	10 Pkt	5
210	Toluene	500 ml	2
211	Urea(CH ₃ CONH ₂)	500gm	2
212	Charcoal block	6 KG	1
219	Xylenol Orange	5gm	1
213	Yellow Ammonium Sulphide(NH ₄) ₂ S	500ml	6
214	ZINC CHLORIDE	500 gm	1
215	ZINC DUST	500 gm	1
217	α-Naphthol	100gm	2
218	PAN indicator	5 gm	1
219	Ascorbic acid	100 Gm	1
219	Hexamine	100 gm	
219	sulphosalicylic acid	100 gm	1
219	ammonium acetate	500 gm	2
219	β-Naphthol	100gm	4
221			

LABORATORY EQUIPMENTS REQUIREMENT FOR EDUCATION DEPARTMENT

Sl. No.	Name of the material /item/Equipment	Qty.
1	Public Address System of Component Machine	1
2	Speaker Two (02)	2
3	Microphone Cordless with System	1
4	With Cord and Microphone Stand	1
5	Equipment keeping Cabinet with lock system (Godrej Company)	1
6	BB Cloth	50
7	pointer	10
8	Globe	5
9	India map (Plastic Coated)	5
10	Odisha map (Plastic Coated)	5
11	world map (Plastic Coated)	5
12	Different continent maps (Plastic Coated)	5
13	Atlas (Plastic Coated)	5
14	Personality Chart (Philosophical) (Plastic Coated)	10
15	Personality chart (Historical) (Plastic Coated)	10
16	Constitutional Chat (Plastic Coated)	5
17	Ravens Progressive Metrics Standard 10 Booklets, 100 Answer scoring key, 2 manual Indian norms	1 set
18	B.K Passi , Passi test of Creativity	1
19	B.K Verma IVRS Based daily monitoring of Mid-day-meal measurement	2
20	HP Pen drive 128GB	1

HOD

**INTENDING LIST OF EQUIPMENTS FOR THE DEPARTMENT OF GEOGRAPHY
FINANCIAL YEAR 2023-24**

SI No.	ITEMS	SPECIFICATION	QUANTITY
1	Altimeter	Godrej	3
2	Digital Hygrometer Thermometer Humidity Meter with Clock LCD Display	ApTechDeals HTC-1 Digital Hygrometer Thermometer Humidity Meter With Clock LCD Display	5
3	Maximum Minimum Thermometer	Dr Care 6676 Digital Maximum Minimum Thermometer Without Probe Thermometer	3
4	Self-recording Barometer	Real Instruments DS302 Digital Barometer Altimeter 700 - 9000 m	1
5	Plane Table (with all accessories)		2
6	Wind vane (Ordinary)	SUN RISE INDUSTRY	1
7	Measuring Tap		3
8	Ranging rods		2
9	Lesser Pointer		3
10	Mirror or Pocket Stereoscope	Golden Engineering	1
11	Dumpy Level with Tripod	Dumpy Level DL 9 Engineers Level 225 mm with Tripod Stand dumpy level DL-9 Non-magnetic Engineer's Precision Level (23 cm) Pack Of One By UTC	2
12	Laptop	Dell 15 Laptop, Intel Core i3-1115G4 Processor/8GB DDR4/512GB SSD/Intel UHD Graphics/15.6" (39.6cm) FHD 120Hz Refresh, 250 nits/Mobile Connect/Win 11+MSO'21/15 Month McAfee/Black/Thin & Light-1.66kg	2
13	Prismatic Compass	M.A & SONS Prismatic Compass with Stand and Box	2
14	Theodolite with Tripod Stand	TARANO Electronic Digital Theodolite	1
		Hanzla Collection 20 Seconds Brass Vernior Theodolite 15" Transit Surveyors Silver Alidade Vintage Surveying Instrument With Wooden Box	1

15	Rotameter	CRAFTWAFT Handheld Metal Rotameter Map Reading, Measuring Distance, Range Indicator Instrument for Students, Teachers, Professionals	3
16	Planimeter	Golden Engineering	3
17	Toposheets	Open Series, SOI	16
18	Satellite Imagery	Survey of India	1
19	Areal Photograph Good Quality		4
20	GPS	Gramin Etrex 20 Handled GPS	2
21	Anemometer with Van Digital	HTC	1
22	New Political Map of India (laminated) 2020 edition		1
23	Physical Map of India(laminated)		1
24	Map of Odisha (Raised Relief Map of non-plastic)		1
25	Physical Map of Odisha(laminated)		3
26	Political Map of Odisha(laminated)		1
27	Khordha District Political Map		1
28	BHUBANESWAR Municipality ward map		1
29	Map of South Asia Political		3
30	Map of South Asia Physical		2
31	Land use map of India		3
32	Land use map of Odisha		3
33	Minerals distribution map of India		3
34	Soils map of India		3
35	Soils map of Odisha		3
36	Natural vegetation map of India		3
37	Natural vegetation map of Odisha		3

38	Climate Map (Odisha)		3
39	Tribal population map (Odisha)		3
40	Drainage Map (Odisha)		3
41	Climate Map of India(Summer condition)		3
42	Climate Map of India(Winter condition)		3
43	W. map of pressure & winds (small)		3
44	Bottom relief of Indian Ocean Map		3
45	Seismic map of the World		3
46	Map of the World (Ocean Current)		3
47	Geological Map		5
48	Census of India 2011- Administrative Atlas of India		1
49	The Orient Black Swan School Atlas- Eight Edition		2
50	Lab equipment solar lunar Eclipses Model		1
51	Geog. Plastic Relief Model Conventional signs		1
52	Model Earth Quake		1
53	Tectonics Model		1
54	Model Glacial landscape		1
55	Karst, caves & water Action Landform model		1
	TOTAL		

HOD, DEPARTMENT OF GEOGRAPHY

MATHEMATICS LABORATORY

SL NO	Equipment/Apparatus for Mathematics Laboratory	Description	Quantity
1.	All in one Desktop PC	<ul style="list-style-type: none"> • 13th Generation Intel® Core™ i5 processor • Windows 11 Home Single Language in S mode • 60.5 cm (23.8) diagonal FHD touchscreen display with Intel® UHD Graphics <ul style="list-style-type: none"> • 16 GB DDR4-3200 RAM • 1 TB SSD Hard drive • Touchscreen, HP 710 White Wireless Keyboard and mouse combo, True Vision 1080p FHD IR tilt privacy camera, 1 HDMI-out 1.4 	08
2.	Printer	<ul style="list-style-type: none"> • A4 Black and White Laserjet Printers, Perfect for Business <ul style="list-style-type: none"> • Print, copy, scan • Prints up to 42/40 ppm (LTR/A4) • Apple AirPrint™, Ethernet, Mopria™, USB, Wi-Fi®, Bluetooth Touchscreen, Duplex Printing. 	02
3.	Colour Printer	<ul style="list-style-type: none"> • A4 Colour Laser Multifunction Printer, Perfect For Business <ul style="list-style-type: none"> • Print, Copy, Scan, ADF, Duplex • Dynamic Security enabled printer • Print speed up to 35/33 ppm black & color letter/A4) USB, Ethernet, Wi-Fi <ul style="list-style-type: none"> • Duplex Printing 	01

To

The Principal
B J B Autonomous College,
Bhubaneswar

Sub: Procurement of Lab Equipment

Ref: Office Resolution Dated: 08-01-2024 // HE Letter No.881/Dt: 06-01-2024

Madam

With respect to the subject cited above, I am furnishing herewith the list of equipments with brief specification and approximate price for necessary action at your end.

Sl No	Name of the Apparatus /Equipment	Specification in brief	Quantity
1	Travelling Microscope	LC: 0.001cm, square brass pillar with stainless steel scale BESTO /OMEGA/ INDOSAW	10
2	Prism Spectrometer	LC: 20sec Brass /Stainless Steel BESTO/OMEGA/INDOSAW	06
3	e/m measurement by Braun Tube	OMEGA/NISCO/NVIS	01
4	e/m measurement by Magnetron Valve	OMEGA-EM-33/NVIS/INDOSAW	01 Set
5	e/m measurement by Thomson method	OMEGA/NVIS/INDOSAW	01 Set
6	Interactive Flat Panel Digital White Board	Android 11, (OPS - i5, 10th Gen, 16GB /256GB, Windows) (75 Inches with OPS)	01
7	V-I characteristics of a Tunnel diode	OMEGA/NISCO/NVIS	02
8	Surface Tension by capillary rise method	Complete Set NISCO/OMEGA/PISSCO/BESTO	02
9	Verification of Network Theorem in DC circuits	OMEGA (ETB-64)	02
10	Measurement of Stefan's Constant	OMEGA/NISCO/NVIS/BESTO	02
11	Planck's Constant by using colored LED	OMEGA/NISCO/NVIS	02
12	Verification of Richardson's $T^{3/2}$ Law	OMEGA/NVIS/INDOSAW / NISCO	01 Set
13	Digital Stop watch	RACER	10
14	1/10 Thermometer for heating experiments		10
15	Prism for Spectrometer (equilateral)	25mm×25mm; Flint/Crown Refractive Index = 1.5	10

Sl No	Name of the Apparatus /Equipment	Specification in brief	Quantity
16	Multi-Vibrator (Astable, Bstable, Multi stable)	OMEGA/NVIS/NISCO complete set	02 Sets
17	Characteristics of Hartley Oscillator	OMEGA/NVIS/NISCO	02 Sets
18	Characteristics of Colpitt Oscillator	OMEGA/NVIS/NISCO	02 Sets
19	Wave meter	OMEGA/NISCO	02 Sets
20	Characteristics of UJT	OMEGA/NVIS/NISCO	02 Sets
21	Field Effect Transistor	OMEGA/NVIS	02 Sets
22	Michelson Interferometer	NVIS 6115	01
23	Malus Law	NVIS 6023	01

Yours faithfully

Bhubaneswar

Date: 12-01-2024

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(MRUNALINEE PATNAIK)

Head of the Dept of Physics

Department of Psychology
BJB (Autonomous) College
Bhubaneswar

Core Paper-5 (UG course) and SPSS practical paper (PG course) aim at developing knowledge and understanding of the application of statistics within psychology and familiarity with software packages of statistics and their application. In order to develop a computer lab, we require the following facilities.

EQUIPMENT AND TESTING MATERIALS

Table-1: EQUIPMENTS

SL. NO.	ITEMS	NO OF ITEMS	DESCRIPTION
1	DESKTOP	10	Intel i7, Windows 11 preloaded OS, 8GB DDR RAM (Expandable), HDD-1TB SSD, 21" LED monitor, USB keyboard, Optical scroll mouse, Intel® UHD Graphics 700 above
2.	INVERTER BATTERY COMBO	2	V-Guard Prime 1050 UPS+ VT165 150AH BATTERY
3.	UPS	10	LUMINOUS 600 PRO UPS
6.	Computer Chairs	10	
7.	Computer Tables	10	

Table-2: EQUIPMENTS- TESTING MATERIALS

SL. NO.	ITEMS	NO OF ITEMS	DESCRIPTION
1.	Raven's Standard Progressive Matrices (Indian Norms)	1	General Overview Manual (Can be used in all 3 Form) APM and MHV Occupational User's Guide Manual for Raven's Progressive Matrices and Vocabulary Scales
2.	16PF Fifth Edition (Original)	1	Administrator's Manual, 16PF Interpretive Report Manual;16PF questionnaires (pkg/10), 16PF Answer Sheets (pkg/25), plus one 16PF Interpretive Report via Net Assess
3.	Differential Aptitude Test	1	Manual and Tests
4.	The Creativity Test	1	
5.	Abuse Risk Inventory for Women	1	
6.	Job Satisfaction Scale	1	
7.	Life Satisfaction Scale	1	
8.	COPE-UP (RESILIENCE) SCALE	1	
9.	Academic (Resilience)Scale	1	
10.	Emotional Intelligence Inventory (S.K. Mangal)	1	
11.	Passi Test of Creativity	1	

12.	Brain Based Intelligence Test	1.	Dr.J.P.Das
13.	Academic Stress Scale for College Students	1	Dr. Vikas S. Minchekar
14.	Psychological Wellbeing Scale	1	D. S. Sisodia and Pooja Choudhary.
15.	Psychological Hardiness Scale	1	Arun Kumar Singh
16.	Attitude of Adolescents towards Geriatric Population Scale	1	Swagata Adyalkar
17.	Youth Problem Inventory	1	M. Verma
18.	Social Media Dependency Scale	1	Neha Bhushan
19.	Mental Health Scale	1	Dr. Mubashir Gull and Prof. Akbar Husain

20.	Abuse Risk Inventory for Women	1	
21.	Job Satisfaction Scale	1	B. L. Dubey
22.	Life Satisfaction Scale	1	Dr. Ashok Pratap Singh
23.	The Resilience Scale	1	Sakshi Seth Grover
24.	Academic (Resilience)Sc ale	1	Dr. Karanbir Kaur and Dr. Gurmit Singh
25.	Beck Hopelessness Scale	1	Aaron T. Beck

26.	Weschler Intelligence Scale for Children (WISC)	1	
27.	Emotional intelligence Scale by Hyde , Pethe & Dhar	1	
28.	Table Screen (Wooden) 18” ×24”	10	
29.	Memory Apparatus	10	

TABLE-3: TOTAL TENTATIVE BUDGET

1.	EQUIPMENTS	Rs. 9,23,470
2.	EQUIPMENTS- TESTING MATERIALS	Rs. 2,01,800
TOTAL		Rs. 11,25,270

The above budget may be kindly sanctioned and obliged.

**Head of the Department
Department of Psychology
B.J.B Autonomous College**

DEPARTMENT OF ZOOLOGY

Sl. No.	Product Description	Weight/Vol.	Quantity
1	Giemsa Stain Solution	250 ml	1
2	Acetocarmine Stain Solution	250 ml	1
3	Methylene Blue 1% Aqueous Solution	250 ml	2
4	Bromophenol Blue	25 g	1
5	Eosin	100 g	1
6	Bradford Reagent	500 ml	2
7		500 g	1
8	Jack Bean Meal ex. Urease extrapure	100 g	1
9	SGOT Kit	1 Pkt	2
10	SGPT Kit	1 Pkt	2
11	Alkaline Phosphatase Assay Kit	1 Pkt	2
12	Phosphate Buffer pH 7.2	100 g	1
13	Schiff's Reagent	500 ml	2
14	Periodic Acid	25g	2
15	DNA Sodium Salt Calf Thymus extrapure	250 Mg	1
16	Hydrochloric Acid 6N Aq. Solution	500 ml	1
17	ABO blood kit - Monoclonal antibody for blood typing	1 Pkt	10
18	RBC diluting Fluid	500 ml	2
19	WBC diluting fluid	500 ml	2
20	Phenolphthalein indicator (powder)	100g	1
21	Calcium	100g	1
22	Magnesium	100g	1

23	Ferric chloride	100g	1
24	Potassium Iodide	500ml	1
25	Resorcinol $\geq 98\%$, FG	100g	1
26	H ₂ SO ₄ (Conc.)	500ml	1
27	3,5-Dinitrosalicylic acid	100ml	1
28	Oleic acid	5g	1
29	Trichloro Acetic Acid (TCA)	500ml	1
30	HYDROGEN PEROXIDE	500ml	2
31	Permanent mounting medium,	60ml	2
32	Aqueous mounting medium	60ml	2
33	Hydrophobic barrier Pen	Marking glass slides	1
34	Hematoxylin	25g	1
35	Ethanol (M)	500ml	10
36	Methanol (M)	500ml	4
37	Isopropanol (M)	500ml	2
38	Ultrapure agarose	100g	2
39	Nuclease free Water	(DEPC Treated) 200ml	5
40	Metaphosphoric acid (HPO ₃)	pellets of 5g	1
41	Sodium bicarbonate (NaHCO ₃) $\geq 99.7\%$	500g	1
42	Xylene mount	500ml	1
43	Trypan Blue solution	100ml	1
44	Xylene Cyanol FF	10g	2
45	Magnesium Chloride	100g	1
46	Sodium Phosphate Monobasic Anhydrous	500g	2

47	Sodium Phosphate Dibasic Anhydrous	500g	2
48	Potassium Dihydrogen Orthophosphate	500g	2
49	Potassium Phosphate Dibasic Anhydrous	500g	2
50	EDTA (Ethylenediaminetetraacetic acid)	1Kg	2
51	Magnesium Chloride	100g	2
52	Calcium carbonate	500g	2
53	Ammonium chloride	2.5 Kg	1
54	Ammonium hydroxide solution	500ml	2
55	2,6-Dichlorophenol-indophenol sodium salt dihydrate	5g	1
56	Oxalic acid	250	2
57	Furfural (Furan-2-carboxaldehyde)	500ml × 2	2
58	Benedict's Solution	500 mL	1
59	Barfoed's Reagent	250 mL	1
60	Molisch Reagent	100mL	2
61	Fehling's Solution A	500 mL	1
62	Fehling's Solution B	500 mL	1
63	Bial's Reagent	250 mL	1
64	Biuret Reagent	250 mL	1
65	Ninhydrin	25g	1
66	a-Naphthol	100g	1

67	Sodium Hypobromite Solution	500mL	1
68	Lead acetate	500g	1
69	Chloroform	500mL	2
70	Potassium permanganate	500g	1
71	Bromine Water	500mL	1
72	Formaline	500 ml	2
73	Borax	25 gms	1
74	Lugol's solution	100 ml	4
75	Methylene Blue Trihydrate	100gms	2
76	Canada Balsam	500ml	1
77	Glycerine gelly	100 ml	5
78	Hoyer's medium	100 ml	5
79	Manganese sulphate	500 gms	2
80	Alkali Iodide azide	500ml	2
81	starch solution	125ml	5
82	Sodium thiosulphate	500 gms	2
83	Phosphate buffer	500 gms	2
84	Magnesium sulphate	500 gms	2
85	Calcium chloride	500 gms	2
86	Ferric chloride	500gms	2
87	NaOH	500 gms	2
88	Allylthiourea solution	100 ml	2
89	K ₂ Cr ₂ O ₇	500 gms	2
90	Sulphamic acid	500 gms	1
91	silver sulphate	100gms	1
92	Ferroun Indicator solution	100ml	2
93	Fe(NH ₄) ₂ (SO ₄) ₂	500 gms	2
94	Mercuric sulphate	100gms	1
95	Glacial acetic acid	500ml	2

96	Gentian Violet solution (1%)	200ml	2
97	Potassium Chloride, For Laboratory (Anhydrous)	500g	2
98	Potassium Bromide, For Laboratory (Anhydrous)	500g	2
99	SDS PAGE Teaching Kit		5
100	Glutathione S-transferase Assay Kit		1
101	DOT ELISA Teaching kit		5
102	Orcinol, 98%	1g	1
103	Spleen	Mammalian Histological slides	1
104	Thymus	Mammalian Histological slides	1
105	Lymphnode	Mammalian Histological slides	1
106	Bone marrow	Mammalian Histological slides	1
107	All endocrine glands	Mammalian Histological slides	8
108	Gonads	Mammalian Histological slides	2
109	Anthrone	100mg	2