## DEPT. OF BOTANY KAPTIPADA COLLEGE, KAPTIPADA, MAYURBHANJ

Apparatus, Glassware's & Chemicals List

-	Apparatus, Glassware's & Chemicals List
SI	. ITEMS NAME
N	
	INSTRUMENTS
01	Visible Spectrophotometer
	(Microprocessor Based)
	Technical Specification
	Micro controller based visible spectrophotometer with 10mm 2 pair glass cuvette, Wavelength Range: 320-1020nm, Spectral Bandwidth: 2nm, Wavelength Interval: 1nm, Wavelength Accuracy: ±2nm, Wavelength Repeatability: ≤1nm, Photometric Accuracy: ±1%T, Photometric Repeatability: 0.5%T, Photometric Range: 0 -1.999A, 0-199.9%T, Stray Light: ≤0.3%T @340nm, Stability: ±0.004 A/h @500nm, Display: 4digit LCD Screen, Measuring Mode: Auto Abs,%T,Conc., Detector: Si Photodiode, Light Source: Tungsten lamp, Power Requirement: AC(220V/50Hz), Dimensions: (W x D x H) 450 x 520 x 320mm, Weight: 10kg, Output: RS-232C Port, Software CD: 01no, RS 232 Cable: Makes Piels Accuracy: ±2nm, Wavelength Range: 320-100 No. 5 pair to the first state of the control of the cont
02	Make: Biolinkk/Br-Biochem/Spectronics/Igene
02	Centrifuge
	Technical Specification Speed: 6000rpm, Contributed France Contributed
	Speed: 6000rpm, Centrifugal Force: 3000g, Sample Capacity: 8 x 2.0ml/1 5ml/0.5ml/0.2ml tube (additional 0.5ml and 0.2ml tube carriers) 2 x 8 x 0.2ml PCR tube strip, Time Range: 1s - 99min59s, Noise: ≤45 Db, Dimension: 176x156x121 (mm), Net Weight: ≤1.5kg, Power: 220V/110V 50-60HZ, Display: LED display the rolling speed and timing, Practice silent and stable. Free-maintenance motor, long life and safe, Delicate appearance. Multi-purpose to meet different experiments demands, The cover switch is outward designed and superstructure automatically bounces 95 degrees which is convenient for one-hand operation, The rotor is clip-on fixed. It is very convenient for rotors exchanging and pick-and-place Large radius rotor with 8 tube holes, centrifugal force is 1.5 times bigger than ordinary 6-hole rotor at the same rolling speed
	Make: Biolinkk/Br-Biochem/Spectronics/Igene
03	Research Binocular Microscope  Technical Specification  Head: Binocular, 360°rotating, 30° inclined, Observation mode: Brightfield, polarization, Eyepieces: Wide Field 10x/18mm, Objectives: Achromatic 4x,10x,40x,100x and with an anti-fungus treatment, Stage: Mechanical stage, 125x116mm with specimen holder, X-Y movement range, Vernier scale on the two axes, accuracy: 0.1mm, Focusing: Coaxial coarse and fine focusing mechanism with limit stop, Condenser: N.A. 1.2 with diaphragm adjustable height, Interpupillary distance: Adjustable between 48 and 75 mm, Illuminator: 1W white LED and external power Supply with light intensity control and Color temperature: 6.300K, Dioptric adjustment: On the left eyepiece, Nosepiece: Quadruple revolving nosepiece, rotation on ball bearings  Make: Optika Italy/Novel/Omega India/Biolinkk
04	Soil with Water Analysis (Microprocessor Base)
	PH Range: 0 to 14 pH, pH Resolution: 0.01 pH, pH Accuracy: ±0.01 pH, pH Calibration: Auto & Manual, pH Temperature /Compensation: , 0-100 °C/ (Auto/Manual), pH Auto Buffer Recognition: 4.00, 7.00 & 9.20, Conductivity Range: 0.00 μS/cm to 1000 mS/cm in 6 Auto Ranges, Conductivity Range Selection: Automatic, Conductivity Cell Constant, Adjustment: 0.05 to 2.0 (Auto / Manual), ranges, TDS Resolution: 0.01, 0.1, 1 μpm or ppt as per range, TDS Range: 0.00 ppm to 200 ppt in 5 Auto Selection: Automatic, TDS Cell Constant Adjustment: 0.05 to 2.0, (Auto/Manual), TDS Range adjustable(0.5 by default), DO Range: 0 to 20 ppm, DO Resolution: 0.1 ppm, DO Accuracy: ±0.2 ppm ±1 digit, DO Calibration: Auto & Manual, DO Temperature/ Compensation: 0-100 °C, (Auto/Manual), DO Salinity Correction: 0 to 20 mg/L, mV/ORP Range: -1999 to +1999 mV, mV/ORP Resolution: 0.2 ppt, Salinity Accuracy: ±0.2 ppm, Salinity Range: 0-50 ppt, Salinity Resolution: 0.2 ppt, Salinity Accuracy: ±0.5% Temperature/ Range: 0-50 ppt, Salinity Resolution: 0.2 ppt, Salinity Accuracy: ±0.5% Temperature/ Range: 0-50 ppt, Salinity
	Resolution: 0.1 °C, Temperature Accuracy: ±0.2% ± 1digit, Temperature Calibration: Manual Make: Spectronics/Biolinkk/Omega India/Br-Biochem

Beaker 50ml
beaker John
Beaker 100ml
Beaker 250ml
Beaker 500ml
Beaker 1000ml
Conical Flask 100ml
Conical Flask 250ml
Conical Flask 500ml
Measuring Flask 50ml
Measuring Flask 100ml
Measuring Flask 250ml
Measuring Flask 500ml
Measuring Flask 1000ml
Measuring Cylinder 10ml
Measuring Cylinder 100ml
Measuring Cylinder 250ml
Measuring Cylinder 500ml
Measuring Cylinder 1000ml
Reagent Bottle 125ml
Reagent Bottle 250ml
Reagent Bottle 500ml
Test Tube 15x125 (100 unit)
Pipette 1ml (M)
Pipette 2ml (M)
Pipette 5ml (M)
Pipette 10ml (M)
Burette 50ml
Plane Slide
Funnel 3"
Cover Slip
Blotting Paper
Dropper
Bell Jar
CHEMICALS
Molisch Reagent, Dextrose, Maltose, Copper Oxide, Barfoed's Reagent (Br-
Biochem/Biolinkk), Sodium Citrate, Orcinol, Resorcinol, LB Broth Lennox (Br-
Biochem/Biolinkk), Tryptone (Br-Biochem/Biolinkk), Yeast Extract, Sodium Chloride, Sodium
Hydoxide pellets, Tris Base (Br-Biochem/Biolinkk), Proteinase K (Br-Biochem/Biolinkk),
Phonol Chloroform Ethanol Dihonuslois asid (DAMA) (Pr. Biochem / B
Phenol, Chloroform, Ethanol, Ribonucleic acid (RNA) (Br-Biochem/Biolinkk), SDS (Br-Biochem/Biolinkk), EDTA Tric Buffor (Br Biochem/Biolinkk), Tric Harles and Care (Br Biochem/Biolinkk), Tric Harles (Br Biochem/Biochem/Biolinkk), Tric Harles (Br Bioc
Biochem/Biolinkk), EDTA, Tris Buffer (Br-Biochem/Biolinkk), Tris Hydrochloride (Br-Biochem/Biolinkk), Borobloria Asid Family Chlorida Assaura 15 (B. Biochem/Biolinkk)
Biochem/Biolinkk), Perchloric Acid, Ferric Chloride, Agarose LE (Br-Biochem/Biolinkk), Ph
Paper, Malachit Green, Polyacrylamide (Otto), Acrylamide (Br-Biochem/Biolinkk),
Ammonium Persulphate (APS) (Br-Biochem/Biolinkk), TEMED (Br-Biochem/Biolinkk), Agar
Agar, RNAase (Br-Biochem/Biolinkk), LB Medium (Br-Biochem/Biolinkk), TE Buffer (Br-Biochem/Biolinkk), Lysis Buffer (Br-Biochem/Biolinkk), TAE (Br-Biochem/Biolinkk), TBE (Br-
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Principal, Kaptipada College, Kaptipada, Mayurbhanj