OFFICE OF THE PRINCIPAL, SWARNACHUD COLLEGE, MITRAPUR, BALASORE

E-Mail:swarnachudc@gmail.com

Notice No:- 01/2020-21/OHEPEC

Date:- 19 11 2020

Tender Notice

Sealed quotation are invited from reputed firms/suppliers/dealers with valid GST registration, PAN, IT return & Authorisation Certificate from the manufacturer for supply of various items of Swrnachud College, Mitrapur, Balasore under World Bank assisted Project, OHEPEE, Govt. of Odisha so as to reach the undersigned on or before 2nd Dec,2020, 5PM by speed post/ registered post/ courier service. The authority reserves the right to accept or reject any or all quotations without assigning any reason there of.

For details, please log on to www.swarnachudcollege.com

Principal / Swrnachud Gollege, Mitrapur Warnachud College Mitrapur

Memo No:- 01(1)/2020 21/04/67 66

Date: 19 11 2020

Copy forward to Accounts Bursar/IDP Coordinator/Accountant/College Notice Board for information.

Byarnachud College .

Memo No:- 01(2) /2020-21/0HEPEE

Copy to D Dash, DEO-Cum-Jr. Clerk to upload in college website.

Date:- 19/11/2020



Swarnachud College, Mitrapur, Balasore

Tender Document

For

"Supply of Computers, Laptop, Projector with Screen, Inverter UPS, Battery and Laboratory Equipments, Chemicals, Specimens, Micrographs of Physics(A), Chemistry(B), Botany(C), Zoology(D)"

At

Swarnachud College, Mitrapur, Balasore.

Tender Document No: 01/2020-21/OHEPEE

Dated: 21ST Nov,2020

Issued By:

Principal, Swarnachud College, Mitrapur, 756020

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Principal
Swarnachut College
Mitrapur



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Swarnechud College Mitrapur, Balasore SCHEDULE OF TENDER

Tender No.	2 /20/
Name of the tender issuer	AMILAN AMILAN
Scope of Work	Principal, Swarnachud College, Mitrapur
Scope of Work	Supply, Installation, Nature of Service and
	Demonstration of Laboratory equipments for
	Physics(A), Chemistry (B), Botany (C),
	Zoology(D), Computer, Laptop, Projector with
	screen, Inverter & Battery. Details as per
Cost/for of To 1 D	Annexure I
Cost/fee of Tender Documents	Rs. 500/- in form of DD drawn in favour of
	Principal, Swarnachud College, Mitrapur
	payable at IOB, Chaturikhunta Branch, Mitrapur
Formack NA	at the time of submission of tender document.
Earnest Money Deposit (EMD)/BID Security	5% of Bid value in form of DD drawn in favour
(Separate for Each Part)	of Principal, Swarnachud College, Mitrapur
	payable at IOB, Chaturikhunta Branch, Mitrapur
Porforma D. I. C.	at the time of submission of tender document.
Performance Bank Guarantee (PBG) (Separate for each Part)	5% of Bid Value in form of DD drawn in favour
ior each Part)	of Principal, Swarnachud College, Mitrapur
	payable at IOB, Chaturikhunta Branch, Mitrapur
Data of issue of the day	at the time of submission of tender document.
Date of issue of tender document	21 st Nov,2020
Date & Time of Pre Bid clarification	26 th Nov,2020, 1PM
Last Date & Time for Submission of Bids	2 nd Dec,2020, 5PM
Date & Time of Opening of Technical Bids	3 rd Dec,2020, 1PM
Date & Time of Price Bids Opening	3 rd Dec,2020, 1PM
Name of the contact person for	Mr. Prasanna Kumar Mohapatra-9778257722
Communication	S.P. Chand(HOD Chemistry)-9437128979
	Dr. S.K. Panda(HOD Physics)-9437266646
	Mr. A.K. Sahu(Lect. In Botany)-9861833325
Add (Mr. S.S. Das (Lect. In Zoology)-8457073769
Address for Communication	Principal, Swarnachud College, Mitrapur,
	756020



ELIGIBILITY CRITERIA

The bidders who are desirous for above work require fulfilling the following conditions:

- 1) Must be registered under GST Act.
- 2) Must have average annual turnover for the last three years i.e. 2017-18, 18-19, & 19-20 should not be less than Rs 2 lakhs. The bidder must have audited financial statement of preceding 3 financial years.
- 3) Must have authorization certificate from the manufacturer.
- 4) Must have income tax return of preceding 3 financial years.
- 5) Must have a valid PAN.
- 6) Should not have been blacklisted by any State Govt. / Central Govt. / PSU in India. A self declaration is required as per **Annexure IV**.

Plincipal Swarnachud College Mitrapur, Balasore

BID SUBMISSION

Steps to be followed for submission of bid:

- The bid shall be submitted in three parts, the EMD, Technical Bid & the Price Bid.
- i) Earnest money Deposit (EMD): Bidder has to submit EMD of required amount in the form of Demand draft.

Order drawn in favour of "Principal, Swarnachud College" payable at payable at IOB, Chaturikhunta Branch, Mitrapur. The EMD should be sealed in one envelope marked as "EMD".

<u>Earnest Money Deposit will not carry any interest</u>. The EMD of unsuccessful bidders will be refunded on acceptance of the work order by the successful bidder. The EMD of successful bidder will be returned on submission of performance security.

The bid not accompanying EMD is liable to be rejected.

- ii) The Technical bid sealed in another envelope marked as "Technical Bid" and shall contain
 - The bidder should supply the items as per technical specification mentioned in **Annexure I**. The list of items available with the tenderer.
 - The bidder should details as per Annexure II, duly filled in, signed and complete in all respects. No alteration/ modification in the format shall be permitted.
 - A self declaration that the tenderer has not been blacklisted by any State Government/ Central Govt. / PSU in India as per Annexure IV.
 - Audited balance sheet and profit & loss account along with copy of acknowledgement of income Tax return of last three financial years i.e. 2017-18, 18-19, & 19-20.
- (iii) The Price bid shall be sealed in an envelope marked as "Price Bid" and shall contain the price bid as per Annexure III duly completed in all respects.

Rate quoted should be inclusive of GST. No extra cost will be borne by the college towards transport of goods. No price increase on account of change in tax structure, duties, levies, charges etc shall be permitted.

The three separate envelope containing EMD, technical bid and price bid should be sealed in one envelope and should be addressed as per tender schedule superscribed as "Supply of Laboratory equipments of Physics(A), Chemistry(B), Botany(C) and Zoology(D)", Computer, Laptop, Projector with screen, Inverter & Battery.



GENERAL TERMS AND CONDITION OF THE BID

Note: Bidders must read these conditions carefully and comply strictly while submitting their bids.

- 1) Bidders shall prepare the bid and submit it in a sealed envelope addressed to Principal, Swarnachud College, Mitrapur, Balasore and send it through Speed Post/Registered Post/Courier only (no hand delivery will be entertained). Each envelope should bear the name of bider, along with the tenderer number. However the authorities shall not be responsible for postal and other delays in receipt of the bids.
- 2) Bidders are requested to check for any notice / amendment/clarification etc. To the Tender Document through the website www.swarnachudcollege.com/ Notice board of the office of Swarnachud College, Mitrapur and in the print media.
- 3) The Bidders should note that Prices should not be indicated in the Technical bid and should be quoted only in the Prince Bid as per Annexure III. In case the prices are indicated in the Technical bid, the bid shall stand rejected.
- 4) "PRE-BID Meeting" with the intending bidders shall be held on 26th Nov,2020, 1PM at Swarnachud College. Any quarries related to this tender shall be sent to the mail id: swranachudcollegec@gmail.com 1 day in advance. The clarifications if any will be uploaded in the college website. All bidders are invited to attend the pre-bid meeting. No deviation to any of the term will be permitted after freezing of the same at pre-bid meeting. On the date of pre bid meeting the bidders may make a site verification where installations is to be made.

5) OPENING OF TECHNICAL BID

The Technical proposal will be opened on 3rd Dec, 2020, 1PM at Swarnachud College in the presence of the tender Committee and representative of the bidders. No separate intimation will be given to the bidders in this regard.

6) EVALUATION PROCESS

SWARA

Technical proposals will be evaluated on the basis of compliance to eligibility criteria, technical specification, and other terms & conditions stipulated in the tender document. Financial proposal will be opened only of those bidders who qualify in the technical evaluation. The Committee reserves the right to reject any or all the tenderers without assigning any reason thereof.

7) Award of Contract: Financial bids with lowest price quotation for the assignment as per Annexure-III will be considered for negotiations and award of contact. However where there is tie between bidders in lowest evaluated package price, the person having highest financial turnover in the preceding 3 financial year will be given preference.

Mitrapur

- PERFORMANCE BANK GUARANTEE: The selected bidder shall deposit performance security of 5% of bid value in the form of a demand draft/ fixed deposit receipt from a commercial bank within seven(07) working days of the date of notice of award of the tender. The performance security deposit will be retained till completion of the warranty period.
- 9) The bids not submitted in prescribed format or in prescribed manner, shall be rejected by the Tender Committee at the risk and responsibility of the bidder.
- 10) All the information as called for in the tender document should be submitted truly, clearly, legibly, transparently, unambiguously and without using any abbreviations.
- 11)In the financial bid the total figures should be written in figures followed by words.
- 12) Each page of the tender document should be signed by the bidder with seal, in token of having understood and accepted the terms and conditions of the contract and serially numbered and page marked.
- 13)A bid submitted cannot be withdrawn. The bidder or his authorized representative (one person only) will be allowed to be present at the time of opening of tenders.
- 14) The Tendering Authority reserves the right to accept any bid, and to annual the bid process and reject all bids at any time prior to award of contact, without assigning reasons & without thereby incurring any liability to the affected bidder or bidders or any obligation to inform the affected bidder or bidders of the grounds for the action.
- 15) All the transit risks shall be the responsibility of the supplier.
- 16) All the disputes shall be subjected to the jurisdiction of Civil Courts situated in Balasore.
- 17) Any matter which has not been covered under these provisions shall be governed as per the provisions of Odisha State Government Rules.
- 18) If the work is found un-satisfactory or, if the firm dishonours the contract, the performance Security Deposit may be forfeited and the job may be entrusted to another firm. In this regard the decision of the Committee is final and binding on the contractor.
- 19) Any notice given by one party to the other pursuant to this contract shall be sent in writing to Principal, Swarnachud College, Mitrapur, Balasore, 756020.
- 20) Payment Terms: All payments will be made within 07 days of submission of invoice, based on completion of respective terms & conditions. TDS will be deducted as per the rules. The invoice will be raised in favour of Principal, Swarnachud College, Mitrapur, Balasore.
- 21) Completion Period: The work shall be completed in all respect within 15 days from the date of issue of work order.

Swarns day Courses Mitrapur, Salasore 22)A firm can apply for any Parts(s) or whole of the tender. The EMD(s) and Performance Bank Guarantee(s) for Parts(s) are to be provided separately for each part(s).

ANNEXURE - I

Items to be Supplied and Installed

	DEPARTMENT OF PHYSICS(A)				
No.	Name of the equipment with Technical Specification				
rei.	Spectrometer:-				
	Technical Specification • Scale: Brass				
	 Scale: Brass Dia: 150mm, L.C-30 Second Objective: Achromatic lens, f= 178mm, Aperature 32mm 				
	att b sign of a				
	notified an atched on glass				
	5 10V Causs evoniese inbuilt magnifier				
	Triangular Cast Iron				
	a company as man Hoight: 38mm Material: FDF				
	 Mercury Vapour Lamp: 125W Transformer with metal Box 				
	Lamp house: 250 × 100mm (L×dia)				
	Aperture dia: 25mm				
2	Temperature Coefficient Instrument:-				
-	Technical Specification:-				
	Callender and Griffith bridge with jockey				
	Platinum Resistance Thermometer				
	20 0 20 22 ohm				
	II Connor				
	2				
	a size lands rad & black 50cm (pair)				
	 Hot plate Banana lead socket with U clip 				
	100 to 1500 c × 100				
	Thermometre – 10 to 150 CX 1 C Connecting leads red & black 100cm (pair)				
02					
03	Thermo-EMF Device :-				
	Technical Specification				
	 10 wire potentiometer with jockey electronic standard cell , Battery eliminator 2V/100mA, Rheostat 0-5 K ohm & thermometer 				
	Hot plate 22 2 22 23 2bm				
	Sensitive galvanometer 30-0-30, 22 ohm				
	Resistance box dial type				
	Flexible plug leads				
	• 'A' Base				
	Rod 50cm				
	Engine oil 250ml				
	Beaker 250ml				
	Two way plug key				
	Thermocouple copper-iron	N. 7			
04	Resistance Temperature Device (RTD):-				
	Technical Specification				
	Meter Bridge				
	Galvanometer				
	Resistance Box: 1 to 10000 ohm				

Swarmachud College Militapar, Balasore

- Resistance Coil- 2nos
- Battery eliminator: 2V
- RTD: PT 100
- Constant Temperature Arrangement

Quinck's Tube Instrument:-5

Technical Specification:-

POWER SUPPLY

- Voltage: 0-16V DC continuously variable & stabilized
- Voltage display: 3 ½ digital LED
- Ripple: Less than 25mV
- Overload: Current limiting protection
- Current: 5 A continuously variable, 10% to full rating
- Current display: 3 ½ digital LED
- Working voltage: 230V AC, 50 Hz single phase

DIGITAL GAUSS METER

- Range: 200G & 2kg
- Resolution: 1G at 0-200G
- Power: 220V, 50 Hz AC
- Hall probe: InAs

TRAVELING MICROSCOPE

- Travel: Horizontal 170mm
- Vertical 110mm
- Least Count: 0.01mm
- Working distance: 50mm
- Eyepiece Ramsden: 8x
- Reticle: 90° cross on glass

DIGITAL WEIGHING SCALE

Capacity: 700g, Display: Digital, Least count: 0.1g, Body: Plastic

ELECTROMAGNET

- Coils: 400 Turns, Coil Current: 4.5Amp (max.)
- Connection: 4mm safety socket
- U core: 150x130mm (LxH), 40x40mm cross section
- I Core: Length=150mm, 40x40mm cross section
- Core material: Ferromagetic

Gouy's Apparatus:-6

Techical Specification

POWER SUPPLY

- Voltage: 0-16V DC continuously variable & stabilized
- Voltage display: 3 ½ digital LED
- Ripple: Less than 25mV
- Overload: Current Limiting protection
- Cutrrent: 5 A continuously variable, 10% to full rating

10

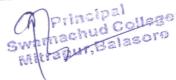
- Current display: 3 ½ digital LED
- Working voltage: 230V AC, 50 Hz single phase

DIGITAL GAUSS METER

- Range: 200G & 2KG
- Resolution: 1 GM at 0-200GM
- Power: 220V, 50Hz AC
- Hall probe: InAs

TRAVELING MICROSCHOPE

- Travel: Horizontal 170MM
- Vertical: 110mm
- Least Count: 0.01mm
- Working Distance: 50mm



- Eyepiece Ramsden: 8x
- Reticle: 90° cross on glass

DIGITAL WEIGHING SCALE

- Capacitry 700GM
- Digital Display
- Least Count: 0.1g
- Body: Plastic

ELECTROMAGNET

- Coils: 400 turns
- Coil Current: 4.5AmP(Max)
- Connection: 4mm safety socket
- U Core: 150 x 130mm(LxH), 40x40mm cross section
- I Core: Length=150mm, 40x40mm cross section
- Core material: Ferromegnetic

Norton & Thevenin Apparatus:-7

Technical Specification

- Power supply Unit: 9V DC & 5V DC
- Plug in board
- Digital Volt Meter
- Digital Ammeter
- Connecting Leads Red & Black
- Variabale Resistance Module
- Resistance Module 10, 22, 50,75,100,150,220,560 Ohm

Laser Device with Single & Double Slit:-8

Technical Specification:-

 Material: Aluminium alloy, Type: Hexagonal section, Scale: 0-100cm, Least count: 1mm OPTICAL BENCH

DIODE LASER

- Peak wavelength: 635nm, Operating voltage: 5V DC, Operating current: 250mA
- Optical power: 0.40-0.8mW, Laser Product: Class II, Operating temp.: 0-40°C
- Storage temp 10 to 50°C

- Detector: Silicon photocell, Terminals: 4mm safety socket, Aperture: 1mm, Rod: 10mm diameter PIN HOLE PHOTO DETECTOR SLIT HOLDER
 - Clear Aperture: 45x45mm, Object holder: Clip type, Mounting Rod: 10mm diameter

SADDLE WITH MICROMETER

- Material: Aluminium, Transverse Motion: 10-0-10mm, Least count: 0.02mm
- Locking: Spring loaded, Motion: X-Y axis, Holder: 10mm dia

• Frame Size: 50mm x 50mm, Clear aperture: 15mm dia. (approx), Wire thickness: 0.5mm(approx) SINGLE WIRE

• Frame Size: 50mm x 50mm, Clear aperture: 15mm dia. (approx), Wire thickness: 0.5mm(approx) **CROSS WIRE**

 Material: Aluminium, Locking: Spring loaded, Motion: X-Y axis, Holder: 10mm dia TRANSVERSE SADDLE

* Resistance: 200W, 2000, 20k, 200k & 2000K W., D.C. Voltage: 200 & 2000, mV: 20, 200 & 600V

AC Voltage: 200 & 600V, D.C. Current: 200 & 2000mA, 10A

Testing: Diode & transistor, Battery: 9V

DIFFRACTION SLIDE

- Frame Size: 50mm x 50mm
- Slit: Width= 0.06mm & Separation=0.20mm (Single, Double)





	 Diffraction grating: 80 lines/mm Diffraction grating: 300 lines/mm Single slit: Tapered Double slit: Tapered Metal gauze: 300 mesh All individually mounted in slide frames and protected by two Glass plates 				
9	CRO (Cathoderay Oscilloscope):-				
	Technical Specification:-				
	 Function Generator- 2nos, Function: Sine, Square, Triangle 				
	Frequency range: 0.1 Hz to 100KHz				
	Amplitude: 20Vpp				
	Frequency Multiplier: 1 to 10K in decade step				
	Opamp-IC741				
	CRO				
	 Operation mode: CH1, CH2, -CH1, ALT, CHOP, ADD, XY, Band width: 20MHz, Rise time:<11.7ns 				
	 Deflection coefficient: 5mV/div, -20V/div, 12 steps, Input Impedance: 1Mohm/25pF 				
*	 Time coefficient: 50ns/div, -200ms/div, 21 steps, Operation mode: Auto, Normal, TV 				
-	 Trigger source: CH1, CH2, ALT, LINE, EXT, Trigger coupling: DC, AC, LFR, HFR, TVV, TVH 				
	Screen size: 80mm x 100mm				
	Supply voltage: 230V, 50Hz				
10	Plank's Apparatus:-				
	Technical Specification:-				
ia:	Selector Switch: V-I and T-I experiment				
	Selector Switch at V-I position Voltmeter Display: 3 1/ digital 7 segment LED gute polarity 8 decimal indication.				
	Voltmeter Display: 3 ½ digital, 7 segment LED, auto polarity & decimal indication Voltage Bange: 0.000, 3.000V, Gurrent Display: 3.1/ digital, 7 segment LED.				
	 Voltage Range: 0.000-2.000V, Current Display: 3 ½ digital, 7 segment LED Current Range: 0-2000microA and 0-20mA 				
	• Temperature Display: 3 ½ digital, 7 segment LED, Temperature Range: Room temperature to 60.0°C				
	Oven: Heater pin 4 & 5. Temperature pin 1 & 2, Oven Connector: 5 pin, DIN type				
	LED Connector: 3 pin DIN type, input Voltage: 220V, 50Hz AC, Fuse: 1A, 250V				
	OVEN WITH TEMPERATURE SENSOR				
	Heating Element: 20 ohm, Oven Connector: 5 pin, DIN type, Ambient Temperature: 60°C				
	Temperature Sensor: Pt100, Output Pin: Heater pin 4 & 5, Temperature pin 1 & 2				
	LED SPECIFICATION				
	Yellow LED Size: 5mm, Wave Length: 590nm, Connector: 9pin, Din type				
	Red LED Size: 5mm, Wave Length: 590nm, Connector: 9pin, Din type				
	Orange LED Size: 5mm, Wave Length: 590nm, Connector: 9pin, Din type				
	Green LED Size: 5mm, Wave Length: 590nm, Connector: 9pin, Din type				
11	Directly Heated Filament Device:-				
	Technical Specification:-				
	DC Supply: 0-250V				
	Vacuum diodo				
-	DC Voltmeter: (Moving Coil)- 2nos				
	DC Ammeter: (Moving Coil)- 2nos DC Ammeter: (Moving Coil)- 2nos				
	Variable Pot: 2nos				
	Front panel built with high class insulated sheet				
	Circuit & Symbol diagram printed on front panel				
	Mains Power: 230V/50Hz				
12					
12	Spectrometer:-				
	Technical Specification:-				
	ADVANCED SPECTROMETER				

• Scale: Brass, Dia. 175mm

Objective: Achromatic lens, f=178mm, Aperture= 32mm

Slit: German silver with knurled screw

Reticle: 90°C cross etched on glass

Least count: 20 seconds

Eyepiece: 15X, Ramsden eyepiece

Vernier: 4 verniers (telescope & prism table)

Base: 220mm dia, Aluminum casting

DIFFRACTION GRATING

Size: 89x38mm

Aperture Size: 16 x 9mm

Rulings: 100,300,600 lines/mm

HYDROGEN TUBE

Gas: Hydrogen research grade

Violet: 420,440nm

Blue: 490nm

Red: 670nm

SPECTRUM TUBE POWER SUPPLY

Input Voltage: 220V, 50 Hz AC

Output Voltage: 0-5000V (open circuit)

Overload: 2mA (Max.) with reset switch

Socket: Spring loaded

Dielectric Measurement Instrument:

Technical Specification:-

13

HIGH VOLTAGE POWER SUPPLY

Input Voltage: 220V, ±5%, 50Hz AC, Output Voltage: 0-600V DC, Voltage Resolution: 10V

Voltage Display: Analog, Short circuit current: 100 micro Amp

POWER SUPPLY 2-12V AC/DC

• Input Voltage: 220V, ± 5%, 50Hz AC, Output Voltage: 2,3,4,5,6,8,10 & 12V AC full wave rectified,

Overload protection: Resettable thermal trip

DIELECTRIC CONSTANT KIT

A metal Rail: Metal sheet, L= 350mm approx

B Capacitor plate: Aluminum, 20cm x 20cm (LXW)

C Capacitor Plate: Aluminum, 28cm x 28cm (LXW)

D Glass sheet: 21cm x 21 cm (LxW)

E Polystyrene sheet: 21cm x 21 cm (L x W)

F Two way switch: 4mm socket, 3nos.

• G Capacitor: 0.01μF & 0.001μF

H Spacer: PVC (1,2,3,4,6mm)

ELECTROMETER AMPLIFIER

Input Impedance:>10 ohm, Input Current:< 0.5 pA, Output Voltage: upto + 10V

Output Current: 5mA, Output impedance: <1 ohm, supply voltage: 12V AC

Ir Santan Runer Render for Physon 94372-68646

DEPARTMENT OF CHEMISTRY(B)

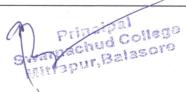
SI. No	Name of the Equipment	
1.	Refrigerator	Specification
2.	Kipps Apparatus	Double door,3star,231ltr,frost free, wine colour
3.	Crucible(30ml)	Toolin, boloslicate of good quality.
4.	Beaker (100ml)	50mi,50mi Grade G-3 of good quality
5.	Whatman filter paper	Toomi, Borosilicate of good quality
6.	Glass Jar 360mm×125mm×25mm	vvnatman 41
	2311111	Borosilicate of good quality
		A-

Hrincipal Swarnachud College Milrapur, Balasore

A			
7.	Glass Jar 200mm×125mm×25mm	Borosilicate of good quality	
8.	Conductivity meter	i) Conductivity Range 0μs to 200ms	
10 000		ii) Temp 0°C to 100°C	
1/3/	10/0/0	iii) Display-3digit LED	
		iv) Dimension: 235W×185D×85Hmm	
3	Potentiometer	i) Measuring mode range: milli volt 0 to ±	
11/2 1	M.	1999mV	
		ii) Resolution 1mV	
		iii) Polarity: Automatic	
		iv) Input impedence 10Ω	
		v) Polarisation 10μA for metal electrodes	
10.	VIS-Spectrophotometer	i) Micro controller based visible	
		,	
		spectrophotometer with 1pair glass	
		iii) Wavelength Readout: 5nm	
		iv) Measuring Mode: Auto,	
		Abs,%T,Conc.	
		v) Absorbance Range: upto 2.5Abs	
11.	Burette	vi) Display: 4digit LED	
12.	Micro oven	50ml, Borosilicate	
13.		Good quality(ISI)	
14.	Stalagometer Ostwalds visco meter	Borosilicate of good quality	
15.		Borosilicate of good quality	
16.	Lakhanpal visco meter Beaker	Borosilicate of good quality	
17.		500ml,	
18.	Beaker	250ml, of good quality	
19.	Pipeting device	10ml,25ml	
20.	Pipette	10ml, Mohr type	
	Pipette	20ml, Mohr type	
21.	Colorimeter	i) Display: 3 digit LED	
		ii) Wave length 400-700nm	
22		iii) Resolution: % T, 0.01Abs upto 1.99Abs(OD)	
22.	Thermometer	0°C-300°C	
23.	Digital pH meter With electrode	Range: 0-14pH, Resolution:0.01pH,LED display	
24.	Digital Melting point Apparatus	Inbuilt silicon, cil bath, stirrer adjustable, Greating rate	
		range upto 275°C with readability of 1°C, LT-115	
25.	Digital Boiling point Apparatus	Resolution 0.1°C, Temperature 0-3000°C with 4" TFT	
SL.No	Chemicals to be required		
26.	Sodium Carbonate		
27.	Pot. Dichromate		
28.	Pot. Permanganate		
29.	Ferrous Sulphate		
30.	Ferrous ammonium sulphate		
31. 32.	Sodium thiosulphate		
33.	Sodium oxalate		
34.	Siliver nitrate		
35.	Pot. Chloride Pot. Nitrate		
36.	Sodium bicarbonate		
		Anna and and and and and and and and and	
		14	

Swarpachus College Militaryr, Balasore

37.	Sod. Hydroxide	30 541/5	
38.	Oxalic acid		
39.	Sod. Acetate	2 5 1 1	
40.	Acetic acid	(5) /5/	
41.	Benzoic acid	* 4 11 1	
42.	Acetamilide		
43.	P. Nitrophenil		
44.	Benzamide		
45.	Urea		
46.	Oxalic acid(dehydrate)		
47.	Citric acid(monohydrate)		
48.	Phenoxy acetic acid		
49.	Malic acid		
50.	Glucose		
51.	Lactose		
52.	Ethyl acetate		
53.	Pyridine		
54.	Isoprophyl alcohol		
55.	M- phenylene diamine		
56.	Stannous chloride		
57.	Ethanol		
58.	Acetic acid		
59.	Ammonium chloride		
60.	Copper sulphate(hydrated)		
61.	Phenolphthalein		
62.	Pot. Hydroxide		
63.	Sod.acetate		
64.	Ethanol		
65.	Chloro benzene		
66.	Benzal dehyde		
67.	Glycerol		
68.	Aniline		
69.	Bromine		
70.	Glacial acetic acid		
71.	Phenol		
72.	Benzoyl Chloride		
73.	Carboxil Camp.		
74. 75.	Starch Sad Sulphate		
76.	Sod. Sulphate		
77.	Sod. Sulphide		
	Copper(11) Chloride dehydrate		
78.	Manganese (II) nitrate		- A Company of the Co
79.	Phosphoric acid		
80.	Acetone		
81.	Pot. Sulphate		
82.	Aluminium Sulphate		
83.	Pot. Iodide		
84.	Acetic anhydride		
85.	Zinc dust		· ·
86.	Salicylic acid		
87.	Ferric chloride		
88.	Phthalic anhydride		
89.	Felling 'A' soln		
90.	Felling 'B' soln		



91.	Tollen's reagent	
92.	Schiff's reagent	
93.	2,4- Dimitrophenyl hydrazine	188
94.	Sodium nitroprasside	
95.	Sodium metal	CC
96.	Ceric ammonium nitrate	23/
97.	Acetyl chloride	
98.	Benzene	•
99.	Cyclohexane	
100.	lodine	
101.	Carbon tetra chloride	
102.	Methyl acetate	
103.	Methyl red	
104.	Nickel ammonium sulphate	*.
105.	Dimethyl glyoxide	
106.	Copper Sulphate	
107.	Silver nitrate	
108.	Aluminium Sulphate	
109.	Potash alum	
110.	Cobalt Chloride	
111.	Cobalt Sulphate	
112.	Sod. Hydroxide	
113.	Calcium Oxide	
114.	Nessless reagent	
115.	Ferrous sulphate	
116.	Chlorine water	
117.	Carbon Disulphide	
118.	Pot. Parmanganate	
119.	Sod. Nitrite	
120.	Citric acid	
121.	Cinamic acid	
122.	Calioylamide	
123.	Bonzamide	
124.	Nitrobenzene	
125.	Methyl amiline	
126.	Ethylene diamine	
	P. Toluidine	
127.	Tataric acid	
128.		
129.	P- Amino phenol	
130.	P- acetylamino phenol	
131.	Ethyl iodide	
132.	Ethanolic soln.	9-23-6
133.	Magnessium Chloride	1 20 7 4 7
134.	Magnesium hydroxide	
135.	Aluminium hydroxide	
136.	Oxalic acid	
137.	EDTA	
138.	Borax powder	
139.	Diphenylamine	
140.	Barium chloride	
141.	Lead acetate	
142.	Sod. Bronmide	
143.	Pot. Chromate	
144.	Amm. Oxalate	0



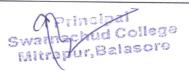
145.	Picolinic acid	110			
146.	Uranyl acetate	1/8/2			
147.	Zinc acetate	//3/	18/ x/		
148.	Uric acid	131 -	19-		
149.	α- naphthol	1/2/60	12		
150.	β- naphthol	1 4	MITTE		
151.	Phenyl hydrazine		Annual State of the State of th		
152.	Nitro phenol				
153.	M- mitro phenol				
154.	Bleaching powder	1			
155.	Amm. Hydroxide				
156.	Nitric acid				
157.	Sulphuric acid				
158.	Hydrochloric acid				
159.					
160.	List of Apparatus				3.1.23
161.	Filter paper (circular)			*	
162.	Filter paper		Whatman no. 41		
163.	Litmus paper		Blue		
164.	Litmus paper		Red		
165.	Test tube		8"		
166.	Crucible		4" and 6" dia		
167.	Tongs		10"		
168.	Test tube holder		10"		
169.	Doctor's forcef				
170.	Measuring flask-		100 ml		
171.	Measuring Flask-		250ml		
172.	Measuring cylinder:-		10ml to 1000ml		
173.	10 ml				
174.	20 ml				
175.	50 ml				
176.	100 ml				
177.	500 ml				
178.	1000 ml				
179.	Burette		50 ml		
180.	Pipette		5ml, 10ml,20ml		
181.	5 ml				
182.	20 ml				
183.	Pipetting device	3	10ml,25ml		
184.	10 ml				
185.	25 ml				
186.	Watch glass		Circular		
187.	Nichrome wire		2meter	f and the second second	

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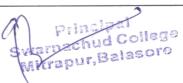
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Principal Swarnachud College Mitrapur,Balasore DEPARTMENT OF BOTANY(C)

1			
5	Sl. No.	Name of the Equipments	Specification
	1.	Auto Clave	Dimension-508×362×550, chamber dimension-254×476,
			weight(kg)-38, volume-23L, No. of trays-4, Trays dimensions-
			168×20×414 voltage(V0 and frequency (H ₂)-230V and (50/60 H ₂)
		1,440	power(w) and Current(mA)-10mA and 22090W.
	2.	VIS-	Weight-15kg, power-230VAC+10%/50 H ₂ , Display-3 digit digital
		Spectrophotometer with	display, wave length-430-700nm, Detector-High sensitivity silicon
		cuvette.	photocell, Light-6v LED, Mode -%T, Abs,(0.D _o) & range for conc. 1&
			2 cuvette.
	3.	Horizontal Laminar Air flow	Laminar Air flow cabinets, wooden body, working area-
			2'×2'×2'×3'×2'×2'4'×2'×2'
			HEPA filter-one one one
			PRE-Filter- one-one
			Illumination-1×20 watts 2×20 watts 2×40 watts Black UV light
-		Digital	
	4.	Digital weighing balance	*Dimensions-10×10×10cm,auto off function, capacity-
			50g×0.00.g(1mg) weight-1kg, covered with glass,
	5.	Micropipette	*Size-1ml, 200µl,20 µl, used by hand
			, , , , , , , , , , , , , , , , , , , ,
	6.	Fisher pressure Cooker	*Size-32liter
	7.	Binocular Microscope	Plan achromat= 10x, 45x,90x, oil. Condenser= 1.25 N.A. stage-
			Reckless Mechanical stage. Focusing- coaxil coarse/fine focusing
			with adjuster.
	8.	Digital P ^H meter	Dimension/one) 22 Material Adversi
	0.	Digital P Meter	Dimension(cm)=23 Material= Metal Size- Standard, Power- 220v, Electrodes.
			Liectiodes.
	9.	Shaking Incubator	
			Flask- 16/250ml, Temp-5°C – 60°C, Digital controller inner chamber
			steel, Motor Unit, RPM- 50 to 100. 4 no. of tube racks- (24x10 ml
			tubes)
	10.	Gel Electrophoresis unit	Dimension- 15x18x15 cm, Gel size(cm)= 8x7 Buffer required= 100+
	N. James		150 Platinum electrodes= 2 nos. Connecting wires= Black & Red.
	T NO.		Glass plate= 1x1, notched Rectangular. Spacers= 1.0 mm, 1.5 mm(4
			pcs). 7 wells of comb & low cells of comb with 0.1 mm & 1.5 mm
			thickness. Power unit(220v, 50Hg AC) LCD.
		Chemicals	
	11.	Nutrient Agar medium	
	12.	Potato dextrose Agar	
	13.	Orcinol	
	14.	Sodium Chloride	
-	15.	Yeast Extract	
	16. 17.	Ethanol	
	18.	Ammonium persulphate Tris-buffer	
	10.	THS-DUITEI	



A		
19.	Acetone	002 00
20.	MS medium	137
21.	Methanol	[2] (8/2) *]
22.	Formalin solution	13/50 /3/
23.	LB medium	30
24.	Manganese sulphate	4 Mil
25.	HCL	
26.	Sulphuric acid	
27.	Agar agar	
28.	Safranin	
29.	Agarose	
30.	Anthrone	
31.	Glass wares	
32.	Plane slide	
33.	Cover slip	
34.	Dropper	
35.	Bell jar	
36.	Reagent bottle 125ml	
37.	Funnel 3"	
38.	Petri plates	
	(80×125mm)	
39.	Test tubes	
	(10×125mm)	
40.	Spreader	
41.	Inoculation loop	
42.	Measuring cylinder (250ml)	
43.	Beaker(500ml)	
44.	Conical flask(250ml)	
45.	Micro pipette (1ml)-Tarson	
46.	SLIDES	
47.	Anther: Wall and its ontogeny	
48.	Tapetum (amoeboid and glandular)	
49.	MMC, spore tetrads, uninucleate	
50.	psuedomonads	
51.	polyads	
52.	Ovule: Types-anatropous,	
	orthotropous, amphitropous/	9
	campylotropous, circinotropous,	
53.	Special structures: Endothelium,	
A C Beautile Leader	obturator, hypostase, caruncle	
	and aril	, Maria stand
54.	Female gametophyte through	
	permanent:Types	·
55.	ultrastructure of mature egg	
	apparatus	
56.	stomata types	
57.	trichomes: non-glandular and	
	glandular	
58.	Xylem: Tracheary elements	
59.	tracheids	
60.	vessel elements	
		2



61.	perforation plates	F-53
62.		(100 CH)
63.		(2) 281
64.	- Company of the control of the cont	
04.	philoem fibres	
65.	Tapetum (amoeboid and	The same of the sa
	glandular)	The state of the s
66.	Aspergillus	
67.		
68.	Saccharomyces	
69.	Albugo	
70.	SPECIMENS	
71.	clove	
72.	black pepper	
73.	Tea	
74.	Coffee	
75.	Tectona,	
76.	Pinus/Sal	
77.	Section of young stem	
78.	Riccia	
79.	Marchantia	
80.	Anthoceros	
81.	Funaria	
82.	Psilotum	
83.	Selaginella	
84.		
85.	Equisetum Pteris	
86.	Marsilea	
87.		
88.	Rhynia Calamites	
89.	Lepidodendron	
90.	Lyginopteris	The state of the s
91.	Cycadeoidea	
92.	Williamsonnia	
93.	Oedogonium	
94.	Characte	
95. 96.	Chara Vaucheria	
97.		
	Ectocarpus	
98. 99.	Fucus Puck Puck Puck Puck Puck Puck Puck Puck	
	MICROGRAPHS/ PHOTOGRAPHS	
100	bicelled and dehisced anther	
101	stages	
101	male germ unit (MGU) through pollinia	
102		
	Embryogenesis: Study of development of dicot embryo	
	acveropinent of dicot empryo	
103	Mitosis stages	



104	Meiosis stages			***************************************
			CHARGE CETTE	
105	Bacterial recombination		1/2/ 1/2/2 /3/	
	reproduction types		The state of the s	
106	Embryogenesis: Study of		T MITTE	
	development of monocot			
	embryo			
107	Chromosome anomaly	E-		
		,		

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DEPARTMENT OF ZOOLOGY(D)

SI. No.	Name of the Equipments	Smarlfi
1.	Auto clave	Specification Dimension-508x362x550, chamber dimension-254x476 wt(kg)= 38 vol= 23L, No. of Trays= 4, trays Dimension-168x20x414, voltage(v) frequency(Hz)=230v&(50Hz) power(w) & current(mA)=10A&2200w spring loaded valve, pressure gauge, pressure release valve, water level indicator & drain.
2.	Binocular Microscope	360° rotating, Plan achromat= 10x, 45x,90x oil., Eye piece: wide field 10x/18mm, Condenser= 1.25 N.A. stage- Reckless Mechanical stage. Focusing- coaxil coarse/fine focusing with adjuster. Illumination-LED. Temp, Humid meter, LCD, backlight, 9v.
3.	Hymocytometer	
4.	Sahil's Haemoglobinometer	-
5.	Vis-Spectrophotometer	Dimensions: 420×280×180, Optical system: single beam, Wt=15kg, power-230 VAC, 50 Hg. Display- 3 digit digital display. Wave length-430-700nm. Detector-High Sensitivity silicon Photocell. Light= 6v
6.	Digital P ^H meter	LED. Mode- Abs, OD & range for canc. 1& 2. Cuvetter. Display: 7Inch, electrode: 0.02pH, Current: 1×10-12A, Stability: 0.002pH/3h, mV resolution: 0.1mV, temp: 0.1° C, Dimension(cm)=23 Material= Metal Size- Standard, Power- 220v, Callibration: automatic, Env. temp. 15-30°C.
7.		Dimension- 15x18x15 cm, Gel size(cm)= 8x7 Buffer required= 100+ 150 Platinum electrodes= 2 nos. Connecting wires= Black & Red. Glass plate= 1x1, notched Rectangular. Spacers= 1.0 mm, 1.5 mm(4 pcs). 7 wells of comb & low cells of comb with 0.1 mm & 1.5 mm thickness. Power unit(220v, 50Hg AC) LCD.
8.	BOD Incubator	Size: 18×18×18(inch)(95lit), Double walled with 3 ¹ thick PUF insulation, glass door with gasket, rocks, trays, nichrome wire heaters, 220V AC single phase 50Hg, Temp-5°C-60°C, compressor-8/200.
9.	Centrifuge	Rotor capacity, space closed roter for 1.5/2.0 ml micro tubes. RPM speed = 6000/2000G. Dimension= 162x157x115 mm size- 20ml, 200ml, 1000ml (1ml) used by Hand.
10.	Micro pipette	Semiautoclavable, 200 μl-1000μl.



11.	Microtome
	3110 correct
	13
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	* MI

Section Thickness Range: From 0 - 60μm,
Setting Range: From 20 - 60μm in 5μm increments,
Horizontal: 28mm, Vertical stroke: 60mm, Sample orientation:
8° along the X-Y axis, rotable 360°, Max. Section Size:
50×45mm, Dimensions incl. Tray: 410mm (L) × 570mm (W) ×
270mm (H) (Approx.), Net weight: 36kg

Shatabdi Sourar Dag Lect. My Zoology Mob- 8457073769

Computer, Laptop, Projector with screen, Inverter & Battery

	Comparery	
SLNO 1	Name of the Item Computer	Specification Core i3, 8 th generation, 4GB, 1TB, HDD, 3.0USB, 20" LED, OS-10, 3years Warranty
2	Laptop	Core i5, 8 th generation, 4GB, 1TB, HDD, 3.0USB, OS-10, 15.6TFT, 1years Warranty Full HD, 3400Lum
3	Projector with screen	2000VA, ISI/ISO
4	Inverter	1450VA, ISI/ISO
5	Inverter	220mAh
6	Battery	150mAh
7	Battery	

Swarnachud College Mitrapur, Balasore

ANNEXURE - II

DETAILS OF THE TENDERER

		1/2/ 1/2/
SI. No.	Particular	The state of the s
1	Name of the Firm/Agency/Company	MI
2	Registered office Address & Complete postal address	
3	Telephone Number & E- Mail Id	
4	Name of Authorized Signatory (in block letters)	
5	Contact No. of authorized signatory	
6	Type of/Firm (Proprietary/Partnership/Pvt. Ltd./Public Ltd)	Tenderer has to provide relevant documents (with the techinal bid) as a proof of firm type.
7	Date of Establishment and Experience in business (In number of years)	Work order to be attached for complaying point no 4 of eligibility criteria
8	G.S.T. Registration No.	
9	PAN No.	
10	Details of Earnest Money Deposit i.e Draft no, date and bank name	
11	Yearly turnover of the organization during last 3 years (yearwise) and furnish audited balance sheet and Profit and loss A/C for the last 3 years. 2017-18 2018-19 2019-20	
12	Furnish the names of 3 responsible persons along with their designation, address, Telephone Number etc. For whose organization, you have completed/work in progress as mentioned in Annexure V and who will be in a position to certify the performance of your organization.	

Date:

Place

Signature & Seal of the Bidder

Principal Swarzabadaollege Swarzapur, Balasore



ANNEXURE- III

PRICE SCHEDULE

То

	The	Principal	,					
	Swa	rnachud (College, Mitr	apur, Balaso	re, 756020			
R	ef: Bid	no			. Dated			
Sir,								
	I/We			by offer to			owing items w.	of part
SI. No.	Item	Company	Specification	Company price including GST(%)	Bidder price including GST(%)	GST	Warranty Period	Nature of service Demonstration
1				GST(XX)				
3								
4								
of t	he bio iremer	d and ou	ur offer is		items strict		Terms and Co	
No c	hange	in the Per	rforma is per	missible.				
Date	:							
Place	e:							,
					(Signat	ure an	d seal of the l	oidder)
							The second	* 1 - 4

24 Swarnachud College Mitrapur, Balasore



SELF DECLARATION FOR NOT BLACK LISTED

Го	
The Principal,	
Swarnachud College, Mitrapur, Balasore, 75	6020.
Ref: Tender no	. Dated:
Madam/Sir,	
I/Wehe banned or blacklisted by any institution/Court/Public sector Unit/Centra	Government organization/Financia
Date:	
Place:	Signature & Seal of the Bidder

Principal Swarnachud College, Mitrapur

> principal Swantachud College Mitrapur, Balasore