

**OFFICE OF THE PRINCIPAL, SEEMANTA MAHAVIDYALAYA,
JHARPOKHARIA, MAYURBHANJ**

Notice No. 388 // Date. 30/11/2019 //

Sealed quotations are invited from the intending authorised dealers/ farms/ suppliers having valid GST number for supplying of non-civil items viz. Fire Extinguisher, First AID Box, White Board, Water Purifier, Computer (Desktop), UPS, Dual Bench Desk, Book Shelf, Stool, Lab Table, Books, Lab Equipments (Physics, Chemistry, Mathematics, Botany, Zoology, Anthropology), Generator, Xerox Machine under IDP, OHEPEE, Govt. of Odisha for the session 2019-20. The quotation papers should reach the undersigned on or before 14.12.19 by 1.00 PM. The received quotations will be opened on the same date at 3.00 PM in the office of the Principal.

The price of the above articles should be mentioned clearly indicating the GST. The undersigned reserves the right to accept or reject any quotations at any stage without assigning any reason thereof. The quotation received incomplete or received after the schedule date and time shall be rejected.

The Agencies shall have to quote the price of the article and GST separately as per the format given below.

Sl. No.	Name of the article	Make/ Brand	Unit Price	GST	Total Price	Warranty

Details specification of the articles:

- | | | |
|-----------------------|----------|-----|
| 1. Fire extinguisher: | 4 KG | 10- |
| 2. First AID Box: | | 05 |
| 3. Xerox Machine: | | 01 |
| 4. White Board: | | 15 |
| 5. Generator: | 5 KV | 01 |
| 6. Water Purifier: | 25 Litre | 02 |
| 7. Desktop: | | 08 |
| 8. UPS: | | 08 |
| 9. Dual Bench Desk: | | 100 |
| 10. Book Shelf: | | 05 |
| 11. Stool: | | 85 |
| 12. Lab Table: | | 07 |
| 13. Library Books: | | |
| 14. Lab Equipments | | |

ITEMS FOR PROCUREMENT / SUPPLY/ PURCHASE

SI No	Goods or Services to be produced	Make/ Model of Goods or type of Services	Detailed Specification	Quantity
1	2	3	4	5
1	Stool	Steel Laboratory Stools	14"X14"x20" made out of 20 GCR sheets and 16 GCR X 1" square pipes with paints	85
2	Dual Bench & Desk	Steel Bench & Desk	45"X29"X15.5" Desk & 45"X17"X10" bench combined made out of 20 GCR sheets and 16 GCR X 1" square pipes with paints.	100
3	Steel Book Shelf	Book Shelves	6.5' X 5' X 22" with 5 shelves	05
4	Laboratory Table	Frame with GI pipe and ply top with mica	7'X3'X2.5" made out 16 GCR X 1" square pipes with paints	07
5	Desktop	Office & Laboratory	Core-i5 8 th generation-4GB RAM, 1TB HDD , Windows 10 Model G1MT Desktop Pro	08
6	Photo Copier	Office	Photocopier Machine	01
7	UPS	Office	1200 VA	08
8	White Board	Class room	6'X4'	10
9	Water Purifier	Academic Campus	SWCNST80120UVE (Water Purifier with cooler)	02
10	Fire Extinguisher	Office & Laboratory	4Kg MAP-50-ABC type	10
11	First Aid Box	Office & Departments	ART NO AFAB - 1	05
12	Generator	Hostel	5KVA- CC4183	01
13	Books	Library	Latest Text Books for 11 Departments under CBCS Syllabus (State Model Syllabus for Under Graduate Course)	
14	Laboratory Equipments	Physics		
		Chemistry		
		Botany		
		Zoology		
		Anthropology		

Cont..

DEPT OF PHYSICS

List of Equipments.

SEMESTER-3	CCH-5	1. Verification of 2nd law of transverse vibration of string.	Sonometer ,Tunig fork,Loose weight, Experimental wire.
		2. Verification of 3rd law of transverse vibration of string.	Sonometer ,Tunig fork,Loose weight, Experimental wire.
		3. Determination of rigidity modulus of wore by dynamic method.	Torson pendulum, Slide calliper, Scew gauge, Stop watch, Experimental wire
		4. Draw 1-D curve hence determine the refractive index(μ) of the material of the prism given $\angle A=60^\circ$.	Spectrometer, Prism, Sodium Vapour Lamp,
	CCH-6	1. To determine the Coefficient of Thermal Conductivity of a bad conductor by Lee and Charltons disc method.	Lee and Charltons disc apparatus, Thermometer, Slide calliper, Scew gauge, Heating system, Seam boiler, rubber tube, Stop watch
		2. To determine J by Calorimeter.	Calorimeter, ammeter, Voltmeter, Thermometer,Physical balance,Rheostate
	CCH-7	1. To verify and design AND, OR, NOT and XOR gates using NAND gates.	AND,OR,NOT NAND,XOR,XNOR GATE KIT
		2. To design a combinational logic system for a specified Truth Table.	AND,OR,NOT NAND,XOR,XNOR GATE KIT
		3. To convert a Boolean expression into logic circuit and design it using logic gate ICs.	AND,OR,NOT NAND,XOR,XNOR GATE KIT
		4. Half Adder, Full Adder and 4-bit binary Adder.	Half Adder, Full Adder and 4-bit binary Adder Kit
		5. Half Subtractor, Full Subtractor, Adder-Subtractor using Full Adder I.C.	Half Subtractor, Full Subtractor, Adder-Subtractor using Full Adder I.C. kit
SEMESTER-4	CCH-8	1. Determination of 'Y' by bending of beam method.	Beam with knife edge, Slide calliper, Screw gauge,travelling microscope, Loose weights
		2. Determination of 'G' by Kelvin's method.	P.O.box ,galvanometer,resistance box, Battary ellimator,
		3. To determine the wavelength of unknown light by drawing calibration curve of prism.	Spectrometer, Prism, Sodium Vapour Lamp,Mercury Vapour lamp.
	CCH-9	1. Measurement of Plancks constant using black body radiation and photo-detector	Plancks constant appartus Kit
		3. To determine the Plancks constant using LEDs of at least 4 different colours.	Plancks constant using 4-LEDs apparatus
		4. To determine the value of e/m by (a) Magnetic focusing or (b) Bar magnet.	brown tube,bar magnet,
		5. To show the tunneling effect in tunnel diode using I-V characteristics.	tunneling effect in tunnel diode using I-V characteristics apparatus.
	CCH-10	1. To study V-I characteristics of PN junction diode, and Light emitting diode.	V-I characteristics of PN junction diode, and Light emitting diode apparatus.
		2. To study the V-I characteristics of a Zener diode and its use as voltage regulator.	V-I characteristics of a Zener diode and its use as voltage regulator apparatus.
		3. To study the characteristics of a Bipolar Junction Transistor in CE configuration.	Trasister characteristics apparatus.
		4. To design a digital to analog converter (DAC) of given specifications.	digital to analog converter (DAC) apparatus
		5. To study the analog to digital convertor (ADC) IC.	analog to digital convertor (ADC) IC.appatatus.

PHYSICS


List of Equipments

SEMESTER-5	CCH-11	1. To show the tunneling effect in tunnel diode using I-V characteristics.	tunneling effect in tunnel diode using I-V characteristics apparatus.
		2. Determination of n of the given viscous liquid by Searle's viscometer	Searle's viscometer, slide calliper, Stop watch, Weight box, Experimental liquid.
	CCH-12	1. To measure the resistivity of a semiconductor (Ge) with temperature by four-probe method (room temperature to 150 °C) and to determine its band gap	Four-probe apparatus
		2. To determine BH curve of iron using solenoid and determine the energy loss	BH curve apparatus, C.R.O.
	DSE-1	1. To verify and design AND, OR, NOT and XOR gates using NAND gates.	AND, OR, NOT NAND, XOR, XNOR GATE KIT
		2. Half adder, Full adder and 4-bit Binary Adder.	Half Adder, Full Adder and 4-bit binary Adder Kit
		3. Adder-Subtractor using Full Adder I.C.	Half Subtractor, Full Subtractor, Adder-Subtractor using Full Adder I.C. kit
		4. To design an astable multivibrator of given specifications using 555 Timer.	astable multivibrator KIT
		5. To design a monostable multivibrator of given specifications using 555 Timer.	monostable multivibrator KIT
		6. To study IV characteristics of PN diode, Zener and Light emitting diode.	V-I characteristics of a Zener diode and its use as voltage regulator apparatus.
		7. To study the characteristics of a Transistor in CE configuration.	Transistor characteristics apparatus.
	DSE-2	1. To measure the resistivity of a semiconductor (Ge) with temperature by four-probe	Four-probe apparatus
		2. To determine H-component of earth's magnetic field and magnetic moment of a Bar magnet.	Vibrating magnetometer, bar magnet, stopwatch.
SEMESTER-6	CCH-13	1. Determination of rotativity of sugar solution	Polarimeter, spectrometer, sodium vapour lamp
		2. To determine value of Boltzmann constant using V-I characteristic of PN diode.	Boltzmann constant kit
	CCH-14	1. Calibration of Sets of weights taking 100 gm as standard.	physical balance, Weight box
		2. To determine Y of wooden scale by vibrating Cantilever.	Wooden Scale, Weight box, Stop watch, Telescope
		4. To verify the Stefan's law of radiation and to determine Stefan's constant.	Stefan's law of radiation apparatus.
	DSE-3	1. To determine value of Boltzmann constant using V-I characteristic of PN diode.	Boltzmann constant kit
		2. To determine value of Plancks constant using LEDs of at least 4 different colours.	Plancks constant using 4-LEDs apparatus
		3. To determine the value of e/m by (a) Magnetic focusing or (b) Bar magnet.	brown tube, bar magnet, voltage regulator

Radya Kumar
30.11.19

SEEMANTA MAHAVIDYALAYA, JHARPOKHARIA
LIST OF REQUIRED APPARATUS
DEPARTMENT OF CHEMISTRY

Sl No	Name	Quantity
1	pH meter-	3
2	Conductivity meter	5
3	Potentiometer	5
4	Visible spectrophotometer	3
5	Magnetic Stirrer with hot plate	2
6	Beaker – 100 ml	12
7	Beaker – 50 ml	12
8	Measuring Cylinder – 100 ml	3
9	Measuring Cylinder – 250 ml	3
10	Measuring Cylinder – 500ml	3
11	Weighing Bottle	16
12	Powder Funnel	12
13	Calorimeter 250 ml capacity	6
14	Thermometer 0.1 °C calibration	12
15	Reading glass	12
16	6 Hole electric water bath	1
17	Beaker – 250 ml	24
18	Separating Funnel – 250 ml	2
19	Pipette bulb	12
20	Hot plate-	1
21	BOD Bottle	24
22	Iodine Flask	12
23	Silica Triangle	24


HOD, Chemistry 30/11/19

Equipments of Botany Department

1. Ocular Micrometer-5 nos
2. Stage Micrometer-5 nos
3. Haemocytometer-01 nos
4. Digital PH Meter-01 nos
5. Spectrophotometer-01 nos
6. Getronics Balance-01 nos
7. Stop Watch-06 nos
(Manual)
8. Bio-Visual Chart-20 nos
 - a) Method of Gene Transfer
 - b) Steps of Genetics Engineering for Production of BT Cotton Golden Rice
Flavr-Slavr Tomato
 - c) Life Cycle of Polysiphonia, Nostoc, OEDO Gonium, Marchantia, Riccia
Anthoceros, Funaria, Pteris, Ectocarpus, Puccinia, Albugo, Penicillium,
Phytophthora, Cycas, Pinus, Gnetum
9. Compound Microscope- 2 nos

Equipments of Zoology Department

1. pH Meter Magnetic stirrer
2. BOD bottles
3. Laminar Air Flow
4. pH Chromatograph, Chromatography Chamber
5. SDS Electrophoresis Unit
6. Vortex, Spinwin, Magnetic Stirrer, Water Bath
7. Egg Incubator

Equipments of Anthropology Department

1. Blood groupism - Antigen A, B, C
(Sera)
2. Needles-3Pk
3. Slides Caliper- 5 Pcs
4. Spreading Caliper6 Pcs (Pointed +Blunted)
5. Finger print ink
6. Finger print roller
7. White board-02 Pcs