DEPARTMENT OF HOME SCIENCE, GOVT. WOMEN'S COLLEGE, KEONJHAR

To,

The Principal,

Govt. Women's College, Keonjhar.

Sub:- Submission of list of Furniture.

Respected Sir,

As per your instruction here with I am submitting the list of required furniture items for the Department of Home Science.

Thank you

Your's sincerely

30.1.19

H.O.D., Dept. of Home Science

Sl. No.	Name of Item	Amount
1.	Godrej glass display bookcase (4 doors)	02 no.s
2.	Godrej office chairs with armrest (CH 7b)	04 nos.

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Dept of Geology

List of Instruments & Samples

1. Petrological microscope. (Censico)
2. Hand specimen of rock
   1. Quartzite
   2. Charnockite
   3. Khondalite
   4. Arkose
   5. Greywacke
   6. Breccia
   7. Migmatite.
3. Slides for Rock sample.

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(A) Equipment

1- Compocend microscope - Olympics.
2. Anemometer (Digital) - Testo make
3. Psychrometer/hygrometer (Digital - Testo make
4. Rain gacese (Digital) - Monsun make
5. Lux meter - Testo make
6. Digital pH meter - Eutech.
7. Lovibond comparater
8. Soil thermometer - Eutech.
9. Maximum-minimum thermometer
10. Digital thermometer - Eutech.
11. Stage micrometer - Riviera
12. Occular micrometer - Riviera.
13. Pipette - Riviera
14. Chromatography paper
15. Sterile Pasteur pipette - Borosil/Riviera
16. Coverslip for counting chamber - bluestar.
17. Measuring cylinder - 10ml, 25ml, 50ml, 100ml (Polylab)
18. Test tube holder
19. Dropping bottle - 30ml, 60ml, 125ml - Polylab.
20. Porcelein disc with six hole.
21. Staining rack. Wooden.
22. Funnel. - 62mm, 75mm (Polylab)
23. Filter stand
24. Squashing needle
25. Coverglass - blue star

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Equipments

26- Mortar & pestle - 150 ml cap.
27. Erlenmeyer flask
28. Aluminium foil
29. Glass rod.
30. Table top centrifuge - Remi
31. 1.5 ml. Eppendorf tube
32. Centrifuge tube - Borosil
33. 12×10 ml. test tube. Borosil
34. parafilm.
35. Blender
36. Strainer
37. Wooden skewers
38. Sensitive digital balance readability (0.001 gm) - Citizen
39. Micro test tube - Borosil
40. Quartz micro cuvettes (100 µL)
41. Quartz cuvette.
42. Electrode for pH meter - Ecotech/systronics - plastic body
43- Conductivity cell for water analyser systronics.
44- Distillation unit - Borosil
45- Inverter.
46- Printer.

(B) Chemicals (CCDH)

1- $MgSO_4, 7H_2O$
2- $NaH_2PO_4 . H_2O$
3- KNO_3
4- NH_4NO_3
5- $CaCl_2, 2H_2O$
6- $(NH_4)_2SO_4$
7- H_3BO_3

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Chemicals (CDH)

8- $MnSO_4, 4H_2O$
9- $ZnSO_4, 7H_2O$
10- $Na_2MoO_4, 2H_2O$
11- $CuSO_4, 5H_2O$
12- KH_2PO_4
13- $CoCl_2, 6H_2O$
14- KI
15- $FeSO_4, 7H_2O$
16- Na_2 EDTA $2H_2O$
17- Sucrose
18- Pyridoxine (HCl)
19- Nicotenic acid
20- Thiamine HCL
21 Myoinositol
22. Glycene
23 Folic acid
24- Biotin
25. Auxins (IAA, IBA, NAA)
26- Cytokinins (BAP/BA/ 2ip(IPA)/DPU/Kinetin)
27- Molish's soln
28- Universal indicator
29. Barfoed's reagent
30- Osmic acid
31- Grading soln.
32- Schultze's solution
33- Oil immersion
34- Tryptone
35- Yeast extract
36- di H_2O

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Chemicals (CDH)

37- NaCl
38- E Coli (Sigma chemicals)
39- ampicillin - antibiotic
40- Tris base (Calbiochem - Behring)
41- Proteinase (Sigma - Aldrich)
42- Phenol
43- Chloroform
44- 200 proof ethanol
45- RNAase
46- SDS
47- EDTA
48- TE Buffer
49- Lysis buffer
50- Agarose gel
51- Ferric chloride
52- RNA (Sigma chemicals)
53- Contact lens cleaning soln.
54- Liquid dishwashing detergent
55- DNA for standard soln
56- Unknown DNA sample.

(C) Permanent slides - Biocraft
(D) Charts - DBios.
(E) Classwork material
(F) Models
(G) Museum specimen.

Sharman
31.1.2019

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Department of Chemistry

LIST OF EQUIPMENTS / APPARATUS REQUIRED

1. UV-VIS SPECTROPHOTOMETER - 1 - (Systronics) [Model - 118]
2. pH ELECTRODE - 1 (Systronics)
3. DIGITAL BALANCE - 1 (Kroy)
4. Bunsen Burner - 12
5. Reagent Bottles - 50
6. Volumetric Flasks [10ml, 100ml, 250ml, 500ml, 1L] - 10 each (Borosil)
7. Measuring Cylinders (10ml) - 5 (Borosil)
8. Glass Beaker [50ml, 100ml, 250ml, 500ml] - 10 each (Borosil)
9. Thermometer (Max. temp 200°C) - 1
10. Test tube - Borosil (5 packet)
11. Gas pipe - 10
12. Porcelain Basin - 10
13. Burette - 20 (Tarson)
14. Capillary tubes (Used for determining melting point)
15. Round bottom flask (500ml) - 5 (Borosil)
16. Separating funnel (250ml, 500ml) - 10 each (Borosil)
17. Reflux condenser set (neck size 24) - 2 (Borosil)
18. Charcoal Block
19. Ordinary filter Paper

LIST OF FURNITURES REQUIRED

1. Almirah (Godrej) - 1 nos
2. Adjustable stool (Godrej) (without wheel) - 20 nos
3. Green Board / Black board - 2 nos
4. Chair - (CH - 7) (godrej)

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LIST OF CHEMICALS REQUIRED

1. Ferric chloride (Merck)
2. Potassium Sulphate (Merck)
3. Magnesium Hydroxide (Merck)
4. Aluminium Sulphate (Merck)
5. Ferrous Sulphate (Merck)
6. Ammonium Sulphate (Merck)
7. Potassium Iodide (Merck)
8. Acetone (Merck)
9. Magnesium Chloride (Merck)
10. p-Amino Phenol (Merck)
11. Copper thiocyanate (Merck)
12. Copper Hydroxide (Merck)
13. Ferric alum indicator (Merck)
14. Methyl Red indicator (Merck)
15. Barium Sulphate (Merck)
16. Barium Chloride (Merck)
17. Phenolphthalein Indicator (Merck)
18. Aluminium Hydroxide (Merck)
19. Potassium Hydroxide (Merck)
20. Phosphorus Pentachloride (Merck)
21. Benzoyl chloride (Merck)
22. Iodine Solution (Merck)
23. Manganese Nitrate (Merck)
24. Copper Chloride dihydrate (Merck)
25. Magnesium Oxide (Merck)
26. Furan (Merck)
27. Red litmus solution (Merck)
28. Potassium Chloride (Merck)
29. Sodium Sulphide (Merck)
30. Ferrous Sulphate (Merck)
31. Aniline - 500 ml - 2 (Merck)
32. Ethanol (Merck)
33. Bromine water (Merck)
34. Zinc Sulphate (Merck)
35. Chloroform (Merck)
36. Copper Sulphate (Merck)
37. 2,4-dinitrophenyl hydrazine (Merck)
38. Sodium Bismuthate (Merck)
39. N-Phenyl anthranilic acid (Merck)
40. Cobalt Nitrate (Merck)
41. Sodium Carbonate (Merck)
42. Sodium Nitroprusside (Merck)
43. Dimethyl Glyoxime (Merck)
44. Silver Nitrate - (Merck)
45. Diphenyl Amine - (Merck)
46. Zinc Dust - (Merck)
47. Lead acetate - (Merck)
48. Carbon disulphide - (Merck)
49. Amm. Persulphate / Pot. Persulphate (Merck)
50. Ammonium Molybdate (Merck)
51. Calcium Chloride (Merck)
52. P-amino-N,N-Dimethylaniline (Merck)
53. Fuchsine reagent (Merck)
54. Thiourea (Merck)
55. pH paper ~~Alc~~ (Merck)
56. Potassium chromate Indicator (Merck)

Dr. Bandita Swain
Dept. of chemistry
Govt. Women's College
Keonjhar

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Department of physics (CBCS Syllabus)

Govt Women's College, Keonjhar

(Affiliated to North Odisha University, Baripada)

Sl	Name of the experiments	Apparatus Required	Model
1	Programming in C, C++ and Scilab	1. Computer set up, 2. Power back up for lab 3. One Printer for lab	Dell core I-3 or I-5 processor andHP printer
		4. ~~Grilling of windows~~ 5. Furniture to keep Desktops 6. One Almira	Godrej desktop stand for laband Godrej Almira
Semester –I, CCH-Phy-2, Sub-Mechanics			
2	To determine the height of a building using a Sextant	Sextant	
SEMESTER-II; Paper: CCH-Phy-3- LAB Subject-Electricity and Magnetism			
3	To study the characteristics of a series RC Circuit	Complete RC circuit apparatus	Omega/ Om-meter/Osaw/Mach
4	To study response curve of a Series LCR circuit and determine its (a) Resonant frequency, (b) Impedance at resonance, (c) Quality factor Q, and (d) Band width.	Complete LCR circuit apparatus	Omega/ Om-meter/Osaw/Mach
5	To study the response curve of a parallel LCR circuit and determine its (a) Anti-resonant frequency and (b) Quality factor Q.		
Semester-III, **: CCH-Phy-6- Lab. Subject-Thermal Physics**			
6	To determine the Coefficient of Thermal Conductivity of a bad conductor by Lee and Charlton's disc method	Complete Lee's apparatus	Omega/ Om-meter/Osaw/Mach
7	To study the variation of Thermo-Emf of a Thermocouple with Difference of Temperature of its Two Junctions	Complete Thermo Couple	Omega/ Om-meter/Osaw/Mach
Semester-III, **: CCH-Phy-7- Lab. Subject-Digital Systems And Applications**			
8	To verify NAND gate as universal gate.	Complete set up	Omega/ Om-meter/Osaw/Mach
9	To make a 4-bit Shift Register (serial and parallel) using D-type/JK Flip-Flop ICs	Complete set up	Omega/ Om-meter/Osaw/Mach
10	To design an astable multivibrator of given specifications using 555 Timer	Complete 555 timer set up	Omega/ Om-meter/Osaw/Mach
11	To design a monostable multivibrator of given specifications using 555 Timer.		
12	To build a 4-bit Counter using D-type/JK Flip-Flop ICs and study timing diagram	D-& JK Flip-Flop	Omega/ Om-meter/Osaw/Mach
13	To design Half Adder, Full Adder and 4-bit binary Adder	Complete set up	Omega/ Om-meter/Osaw/Mach
14	To measure voltage and time period of periodic waveform using Cathode Ray Oscilloscope	CRO, Function Generator	Metro Q/Omega
Semester-III; CCH-Phy-9- LAB; Sub- Elements of Modern Physics			
15	To determine the wavelength of laser source using diffraction of single slit	Complete set up	NVIS/Om-meter
16	To determine the wavelength of laser source using diffraction of double slits.		
17	To determine (1) wavelength and (2) angular spread of He-Ne laser using plane diffraction grating	Complete set up	NVIS/Om-meter

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18	To setup Millikan oil drop apparatus and determine the charge of an electron	Complete set up	NVIS/Om meter
19	To determine Rydberg constant for Hydrogen atom		NVIS/Om-meter
Semester-III; CCH-Phy-10-LAB; Sub- Analog System And Applications			
20	To study the frequency response of voltage gain of a RC-coupled transistor amplifier	Complete set up	Omega/ Om-meter/Osaw/Mach
21	To design a Wien bridge oscillator for given frequency using an op-amp	Complete set up	Omega/ Om-meter/Osaw/Mach
22	To design a phase shift oscillator of given specifications using BJT	Complete set up	Omega/ Om-meter/Osaw/Mach
23	To study the Colpitt's oscillator	Complete set up	Omega/ Om-meter/Osaw/Mach
24	To design a digital to analog converter (DAC) of given specifications	Complete set up	Omega/ Om-meter/Osaw/Mach
25	To study analog to digital (ADC) converter	Complete set up	Omega/ Om-meter/Osaw/Mach
26	To investigate the use of an op-amp as an Integrator. To investigate the use of an op-amp as a Differentiator		Omega/ Om-meter/Osaw/Mach
Semester-V; CCH-Phy-12- LAB; Sub- Solid State Physics			
27	To measure the Magnetic susceptibility of Solids	Quink's Tube Setup	Omega/ Om-meter/Osaw/Mach/NVIS
28	To measure the Dielectric Constant of a dielectric Materials with frequency	Complete set up	Omega/ Om-meter/Osaw/Mach/NVIS
29	To study the PE Hysteresis loop of a Ferroelectric Crystal.	Complete set up	Omega/ Om-meter/Osaw/Mach/NVIS
30	To draw the BH curve of Fe using Solenoid & determine energy loss from Hysteresis	Complete set up	Omega/ Om-meter/Osaw/Mach/NVIS
31	To measure the resistivity of a semiconductor (Ge) with temperature by four-probe method(room temperature to 150^0 C) and to determine its band gap	Complete set up	Omega/ Om-meter/Osaw/Mach/NVIS
32	To determine the Hall coefficient of a semiconductor sample	Complete set up	Omega/ Om-meter/Osaw/Mach/NVIS
Semester-VI; CCH-Phy-13- LAB; Sub- Subject-Electromagnetic Theory			
33	To verify the law of Malus for plane polarized light	Complete set up	"
34	To determine the specific rotation of sugar solution using Polarimeter.	Complete set up	"
35	To analyze elliptically polarized Light by using a Babinets compensator.	Complete set up	"
36	To determine the wavelength and velocity of ultrasonic waves in a liquid (Kerosene Oil, Xylene, etc.) by studying the diffraction through ultrasonic grating	Complete set up	"
37	To determine the Boltzmann constant using V-I characteristics of PN junction diode.	Complete set up	"

30.1.19

HOD Physics
Govt Women's College, Keonjhar

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No.____

From The Princi... Govt ...

(1)

Department of Physics

List of Furniture

1. Computer table for Desktops.
2. Chairs for computer Lab (PCH-4103I)
3. Almirah
4. Shelves for Laboratory to keep instrument (open type - 5 rack system)

30.1.19

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