



**GOVERNMENT GENERAL DEGREE COLLEGE, CHAPRA
OFFICE OF THE PRINCIPAL
GOVERNMENT OF WEST BENGAL**

VILL-SHIKRA, P.O.- PADMAMALA, DIST- NADIA, PIN CODE: 741123, W.B, INDIA. Email: cgcollege2015ku@gmail.com

Memo No. 490 /CGC/Tender

Dated: 29th June, 2021

***Ref. Tender Notice Published in two daily Newspapers 'EKDIN' & 'The Statesman'-29th June 2021
vide No. 483/CGC/Tender dt. 21/06/2021***

NOTICE INVITING TENDER QUOTATION

Sealed quotations are invited from Govt. Registered/Authorized vendors, Corporations, Cooperative Society, WEBEL, WBHIDC, DGS&T, PWD Authorized contractor, Agencies and Organizations for the purchase of following items/service/AMC/Maintenance in our College for the financial year 2021-2022.

Last date of submission of Sealed quotations along with all relevant papers should reach to the Office of the Principal, Government General Degree College at Chapra is as follows:

Last date of submission	19.07.2021 (till 12 NOON)
Opening of Tender box & Quotations	19.07.2021 (at 1 PM)

Quotations will be opened in the presence of the College's Tender & Purchase Committee members.

1. Online Admission, application process & e-Counselling,
2. Development and maintenance of College website,
3. Stationery goods, Furniture, Equipments, Chemicals, Glass/polymer goods, photocopier, Desktop Computers, Laptops & related Accessories, CCTV with installation,
4. AMC/Maintenance of equipments, water purifier, Copier Machines, Networking system & computers, College Garden, Projectors & Inverter,
5. Printing & publications, Digital cataloging, binding & laminating books & pest control
6. Teaching aids & Laboratory aids,
7. Minor civil works in the college,
8. Dusting of books in Library,
9. Procurement of items required for Smart/Virtual class rooms,
10. Sanitizers & sanitizing equipments,
11. Books & journals, Sports & athletic items, etc.

- ★ **Sealed Quotations with credentials and documents should reach the College Office within 19th July, 2021.**
- ★ Sealed Quotations have to be submitted and dropped in the specified Tender Box kept at the College main entrance. The authority has every right to cancel any Quotation without stating any reasons, thereof.
- ★ Preference will be given to Govt. approved agencies like WBSIDC, WEBEL., Cooperative Soc. Ltd., etc.
- ★ List of Equipments will be displayed in the College Website and will be procured subject to availability of funds.

Sd/-
Principal
Govt. General Degree College, Chapra

MISCELLANEOUS ITEMS TO BE PURCHASED

I. Online Admission Procedure with Annual Maintenance		
Domain & Website Hosting with Maintenance, Online Admission as per Govt. of West Bengal & Kalyani University Guidelines		
II. Laboratory equipment, chemical equipment, apparatus (excluding chemical), glassware, chemicals,		
Please see the attachment for details		
III. Books & Journals		
Please see the attachment for details		
IV. Computer & accessories		
1.	CPU	. Intel Core – i5 Processor . Compatible Gigabyte motherboard . 8GB DDR4 RAM . 1 TB HDD / 500 GB SSD . Cabinet + SMPS . DVD writer
2.	Key Board & Mouse	Optical Scroll Mouse (HP/DELL)
3.	Monochrome Multifunction Printer	HP Laser jet
4.	Colour All in One Printer	HP/CANON ADF Technology
5.	UPS	APC Brand
V. Inverter		
1.	Inverter	Luminous / Microtek
VI. Photocopier		
1.	Photocopier Machine	Xerox / Canon
VII. Office Stationeries		
1.	A4 Page (500 pages packet)	
2.	Cover File	
3.	Phenyl	
4.	Harpic	
5.	Water Bottle	
6.	Cotton Duster	
7.	Designer Pen Stand for Principal's Desk	
8.	Rotating Globe for Principal's Desk	
9.	Mahatma Gandhi, Netaji & Swami Vivekananda's Framed Wall Hanging Photos (2ft x 1ft) for Principal's Room	
10.	Cotton Duster Set	
11.	Towel Set	
12.	Dinner Set (La Opala)	
13.	Cup & Plate Set (La Opala)	
14.	Bathroom Cleaning Brush & Broom	
15.	Floor Mopping Broom	
16.	Jhul Jharu & Phul Jharu	
17.	Carbolic Acid	
18.	Stamp Ink Pad	
19.	Highlighter Pen (Yellow colour)	
20.	Envelop (Small & Large Size) with superscription of college's name	
21.	Stapler and Pin	
22.	Punching Machine (Kangaroo)	
23.	James Clip Packet	
24.	Room Freshener	
25.	Good Night Machine & Oil	
26.	Mortein Coil packet	
27.	Fevicol Gum	
28.	Thread for Tagging	
29.	Office Register Book (No. 4 & No. 6)	
30.	Students' Attendance Register	
31.	Staff Attendance Register	
32.	Accession Register for Library	
33.	AA Battery (Pack of 10)	
34.	Emergency Light	
35.	Handwash	
36.	Sanitizer	
37.	Calculator (Casio)	
38.	Door Mat (Large Size)	
39.	Naphthalin Packet	
40.	Correction Pen (Whitener)	

41.	Use & Throw Pen (Black-Blue-Red) – Good quality
42.	CD Marker (Red & Blue)
43.	Whiteboard marker (Red-Green-Blue)
44.	Gala
45.	Bundle of Cotton Thread
46.	Umbrella for Office purpose
47.	Cricket Equipment Set (Bat-Ball-Wicket etc)
48.	Football
49.	Badminton Set (Racket-Net-Cock etc.)
50.	Shot Put Ball
51.	Umbrella for Sports purpose
52.	LaserJet Printer Cartridge 88A (HP) , F287A (Canon)
53.	Xerox Machine's Cartridge - NPG59 Toner
54.	Quick Heal Total Security (3 / 5 Users)
VIII. Annual Maintenance Charge (AMC)	
Annual Maintenance Charge (AMC) per item for Computer, Printers, Xerox Machine, CCTV camera of the various departments and office of this College.	

Interested Suppliers/vendors may apply in their letterhead to the Principal with relevant documents that reveal their government affiliation and must enclose the self-attested photocopies of **PAN Card, IT Return Certificate for last financial year, Trade Licence, GST registration Certificates with Number, bank account number mentioning IFSC code of the branch of the Bank (one cancelled cheque and Xerox copy of 1st page of bank pass book and one valid Mobile Number)**

N.B.

1. Tenders/quotations will remain valid up to 31.03.2022.
2. Purchase will be made as per availability of relevant funds.
3. Tender/quotations must be submitted in one sealed envelope: (size 5"x 11"), re-writing and double writing will not be entertained in tender papers/quotations.
4. All the Tender quotations must be dropped in the Tender Box. No Tender quotation will be accepted by hand.
6. Price must be inclusive of all kinds of taxes of taxes and delivery charges (if applicable)
7. **Please Contact to Office for more details.**

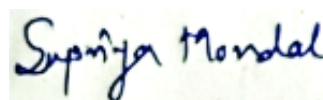
COUNTERSIGNED


(DR. SUBHASIS PANDA)

Principal
Govt. General Degree College, Chapra
VIII.-Shikra, P.O.-Padmamala
Nadia-741123

PRINCIPAL

GOVT. GENERAL DEGREE COLLEGE, CHAPRA



Assistant Professor, W.B.E.S.
Chupra Govt. College
Shikra, Padmamala, Nadia-741 123
Govt. of West Bengal

CONVENER

TENDER & PURCHASE COMMITTEE

*Ref. Tender Notice Published in two daily Newspapers 'EKDIN' & 'The Statesman'-29th June 2021
vide No. 483/CGC/Tender dt. 21/06/2021*

**INVITING TENDER
QUOTATION**

Memo No.
483 / CGC / Tender
Dated: 21st June, 2021
Office of the Principal,
GGDC, Chapra, Nadia,
invites sealed quotations
for the FY 2021-2022 for
Online admission, annual
maintenance, purchase
of equipments, stationery
goods, photocopiers,
computers & related
accessories, Chemicals &
Glass goods, maintenance
of College website, sanitizers,
books & journals etc. Last
date of application:
Within 21 days from the
date of publication.
Details will be available
in the College Notice Board
and at College website:
www.chapragovtcollege.org
from 29.06.2021.

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Memo No. 483/CGC/ Tender

Dated: 21st June, 2021

INVITING TENDER QUOTATION

Office of the Principal, GGDC, Chapra, Nadia invites sealed quotations for the FY 2021-2022 for Online Admission, Annual maintenance, purchase of Equipments, Stationery goods, Photocopiers, computers & related accessories, Chemicals & Glass goods, maintenance of College website, sanitizers, Books & journals etc. **Last date of application: within 21 days from the date of publication.** Details will be available in the College Notice Board and at College website: www.chapragovtcollege.org from 29-06-2021.

GOVT. GENERAL DEGREE COLLEGE, CHAPRA
DEPARTMENT OF PHYSICS
LIST OF INSTRUMENTS

Item name

Instruments corresponding Electromagnetic Theory

To verify the law of Malus for plane polarized light :

Apparatus: diode laser, polarizer-analyzer pair, photo detector, micro ammeter, dial fitted to the polarizer and an optical bench .

Complete set to determine the height of a building using sextant.

To determine the specific rotation of sugar solution using Polarimeter.

Apparatus: Half-shade polarimeter

To determine the wavelength and velocity of ultrasonic waves in a liquid (Kerosene Oil, Xylene, etc.) by studying the diffraction through ultrasonic grating.

Apparatus: Radio frequency oscillator fitted with a frequency meter, Quartz crystal slab fitted with two leads, Spectrometer, Glass cell with experimental liquid (kerosene, Toluene, Turpentine oil), Sodium lamp, Spirit level, CRO.

To verify the Stefan's law of radiation and to determine Stefan's constant

Apparatus: Regulated power supply (0- 6 V), Tungsten filament bulb (6V), rheostat (100 Ω , 1A), Digital Voltmeter (0-10V) and Ammeter (0-1A).

To determine the Boltzmann constant using V-I characteristics of PN junction diode.

Apparatus: p-n junction diode, DC power supply (5V), rheostat, milliammeter (0-20 mA), voltmeter (0-2V)

To verify Brewster's law and Fresnel formulae for reflection of electromagnetic waves with the help of a spectrometer, a prism

and two polaroids

Apparatus: (i) Spectrometer, (ii) prism, (iii) two polaroids with circular scales that can be fitted on collimator and telescope tubes, (iv) sodium vapour lamp.

Instruments corresponding Modern Physics

Photo-electric effect

and

To determine the Planck's constant using LEDs of at least 4 different colours

Apparatus: Photoelectric apparatus with a phototube, Light Emitting Diodes (LEDs) of several colors, two digital meters

To show the tunnelling effect in tunnel diode using I-V characteristics

Apparatus: complete set

Instruments corresponding Wave and Optics

To determine the slit width (a) using diffraction of single slit.

Apparatus: Spectrometer, adjustable narrow slit, telescope with a metre scale, small mirror, source of monochromatic light

To determine the slit width (a,b) using diffraction of double slits.

Apparatus: complete set

To determine refractive index of the Material of a prism using sodium source.

Apparatus: Spectrometer, prism, prism clamp, sodium vapour lamp, spirit level, a magnifying lens and a reading lamp.

To determine wavelength of sodium light using Fresnel Biprism

Apparatus: Optical bench with four uprights, sodium lamp, Fresnel's Biprism, a convex lens and micrometer eyepiece.

To determine wavelength of sodium light using Newton's Rings.

Apparatus: Plano convex lens of large radius of curvature, optical arrangement for Newton's rings, plane glass plate, sodium vapour lamp and traveling microscope.

To determine wavelength of (1) Na source and (2) spectral lines of Hg source using plane diffraction grating.

Apparatus: Spectrometer, spirit level, prism, plane diffraction grating (~300 lines/mm), sodium vapour lamp, mercury vapour lamp, slit of adjustable width and fitted with a micrometer screw

Complete set to determine the elastic constants of a material by Searle's method.

Low and high Resistance box and Carey Foster's Bridge

Complete set to determine horizontal component of the earth's magnetic field.

Complete set to determine the frequency of an electric tuning fork by Melde's experiment and verify

$\lambda^2 - T$ Law law

Complete set for Newton's Rings experiment

Optics instruments

1. Complete set to determine the thickness of a thin paper by measuring the width of the interference

fringes produced by a wedge-shaped Film.

2. Complete set-up to determine Brewster's angle for air-glass interface using a prism.

3. Complete set-up to study of Fresnel's law by the reflection on the surface of a prism.

4. Complete set-up to study the Malus law using a pair of polaroids.

5. Complete set-up to study the specific rotation of optically active solution using polarimeter.

6. Complete set-up for determination of wavelength and velocity of ultrasonic waves in a liquid

(kerosene, Xylene etc)..

7. Complete set-up to analyze elliptically polarized light by using a Babinet compensator.

8. Complete set-up to determine dispersive power and resolving

power of a plane diffraction grating.

Electrical Instruments

Digital Storage Oscilloscope (DSO) 1GHz Bandwidth

Function Generator FG01 SES Instruments

AC Millivolt meter

ACM102, ACM103 SES Instruments

Sigma DIGITAL LCR METER with Frequency
100Hz/1Khz/10KHz/100KHz

Complete set-up for determination of the coefficient of thermal expansion of a metallic rod using an optical lever.

Complete set for potentiometer and hot plate for calibration of thermocouple

Complete set to determine for calibration of thermocouple [one end at room temperature other end in the oil bath] and determination of boiling point of water.

Complete set to determine the Temperature Coefficient of Resistance by Platinum Resistance

Thermometer (PRT).

Electronics Instruments

1. resistor, capacitor, inductor, 1K 10K pot, diode, zener, transistor pnp npn type, ic 7400 series

2. bread board and connecting wires

3. Construction of FF circuits using NAND gates.

4. Construction of 4 bit shift registers (serial & parallel)

using D type FFIC.

5. Construction of astable multivibrator using 555 Timer.

6. Complete set-up for measurement of Plank constant using LED

7. Complete set-up for determination of ionization potential of Mercury

8. Complete set-up determination of e/m by using bar magnet.

9. Complete set-up to study the photoelectric effect: variation of photocurrent versus intensity and wavelength of light

1. Complete set-up to determine the wavelength of H-alpha emission line of Hydrogen atom.

2. Complete set-up to show the tunneling effect in tunnel diode using I-V characteristics.

3. Complete set-up to determine (1) wavelength and (2) angular spread of He-Ne laser/ solid state laser using plane diffraction grating.

4. Complete set-up to study PE hysteresis of ferroelectric crystal.

5. Complete set-up to study BH hysteresis of ferromagnetic material.

6. Complete set-up for measurement of susceptibility of paramagnetic solution by Quink's tube method.

7. Complete set-up for measurement of magnetic susceptibility of solids.

8. Complete set-up for determination of variation of dielectric constant with frequency.

9. Complete set-up measurement of hall voltage by four probe method.
10. Complete set-up to study temperature coefficient of a semiconductor (NTC thermistor).

Electrical Instruments

1. Complete set-up to design an Amplitude Modulator using Transistor
2. Complete set-up to study envelope detector for demodulation of AM signal
3. Complete set-up to study FM - Generator and Detector circuit
4. Complete set-up to study AM Transmitter and Receiver
5. Complete set-up to study FM Transmitter and Receiver
6. Complete set-up to study Time Division Multiplexing (TDM)
7. Complete set-up to study Pulse Amplitude Modulation (PAM)
8. Complete Set-up for determination of pressure coefficient of air using Jolly's Apparatus

Serial Number	Name of the instrument	Specification	Quantity
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Department of Chemistry (GGDC, Chapra)-
Instruments List

1	Stalagmometer.		10
2	Viscometer.		10
3	Vacuum pump		3
4	Magnetic Stirrer with hot plate	Heating Capacity-150, External Dimension-200×225×185, Model- Q-19, Length- 9×25 mm	5
5	Magnetic Stirrer without hot plate	Heating Capacity-150, External Dimension-200×225×185, Model- Q-19, Length- 9×25 mm	5
6	Hot Air Oven copper	Temperature Range 5°C above ambient to 250°C maximum Temperature Accuracy + / - 2°C Temperature Uniformity + / - 1°C Controls PID Controller Temp Display LED Display Sensor PT-100 Heating Element Nichrome wire / Kanthal A1 Safety device Over temperature protection Electric leakage breaker Temperature safety as per DIN 12880 Class 3.1 Exterior Chamber MS powder coated Interior Chamber 304 stainless steel Insulation Mineral Wool Doors Solid doors w/ silicone rubber gasket & lock Shelves 2 – 3 Stainless steel shelves (Removable) Air Circulation Forced air circulation Power Supply 220 Volts, Inner Chamber: 355 x 355 x 355 mm, Vol-45 lits	1
7	Heating mantle with energy regulator	100 ml capacity, Local Made; 250 ml capacity, Local Made; 500 ml capacity; 1000 ml capacity	2X4=8
8	U.V. Cabinet for TLC	IKON INDUSTRIES	2
9	Sonicator capacity and company name		2
10	pH meter with combined electrode	Readout: 4 digit LED display; Range: pH: 0 to 14.00, mV: 0 to ± 1.999; Resolution: pH: 0.1, mV: 1; ; Accuracy: pH: ± 0.02, pH ± 2 least count, mV: ± 0.2%, ± 1 least count; Temp. comp.: 0 to 100°C; Power required: 230 V AC ± 10% 50 Hz, 4 VA; Warming time: 5 minutes; Electronic buffer: Equivalent signal output of ideal electrode in solution	3
11	Conductivity meter	Readout: 4 digit LED display; Unit of meas.: MHO; Ranges: 0.01µΩ to 200 mΩ in 6	3

		ranges; Six ranges: 200 mΩ , 20mΩ , 2 mΩ , 200 μΩ , 20 μΩ , 2 μΩ; Accuracy: :± 1% ± last 2 digits; Power required: 230 V AC ± 10%, 50 Hz, 5 VA or 9V battery; Body: ABS; Dimension: 80 mm (H) x 235 mm (W) x 155 mm (L); Weight: 1kg (Approx.); Warming period: Instant; Standard cond.: Conductance of 1.000 mΩ; Electrode: Cell K = 1 - PVC sleeved (EQ-708A); Accessories: Stand set, Screwdriver and Dust proof cover	
12	Electrical melting point bath	Toshniwal	5
13	Potentiometer	Readout: 4 digit LED display; Ranges: ± 1.999 V; Accuracy :C 0o.0m0b1i nVeodl tPsV; SCt asnledeavrdded C ell: 1.018 V inbuilt; Body: ABS; Stirrer Speed: 500 RPM fixed; Warming time: 5 minutes; Power: 230 V AC ±10% 50 Hz; Weight: 1 Kg (approx); Dimension: 90 mm (H) x 225 mm (W) x 220 mm (L); Accessories: Electrode clamp, Rod, Teflon magnet, Screwdriver and Dust proof cover	3
14	Shimadzu UV-VIS-Double Beam Spectrophotometer	Model no. 2206, Wavelength: 190-1100nm; photometric: +/-3.0 Abs	2
15	Vacuum pump	Specification (220V, 50Hz) ◆ Max. power : 90 W ◆ Max. current : 0.5 A ◆ Max. vacuum : Ultimate 13mbar (-750mmHg) ◆ Max. flow rate : 18 l/min ◆ Max. vacuum : 1450 RPM ◆ Horse power : 1/6 HP ◆ Noise level : 50.0 dB ◆ Hose barb : 5/16 inch (8 mm) ◆ Net weight : 7.4 kg ◆ Dimension (LxWxH) : 26.2x23.6x19.3 cm ◆ Glass vapor trap : Yes ◆ Vacuum Regulator : Yes	3
16	Glass dessicator Bigger size		3

17	Water bath electrical	6 holes, Stainless steel with water inlet & outlet	2
18	Tarson desiccators	Dia: 6 inch and 12 inch	3x2=6
19	Digital Colorimeter	Reads: 650A - % T & OD / 653 - OD; Power required: 230 V AC $\pm$ 10% 50 Hz, 10 VA; Filters: Disc mounted German filters 400, 420, 470, 500, 530, 620, 660, & 700 nm. All the eight filters are mounted on the disc. Selection is done by rotation of disc. The disc will be locked in desired position; Readout: 3 digit LCD display; Measurement: a) Transmittance 'T'-0-100% b) OD-0-1.99 (653 reads OD only); Accuracy: %T – $\pm$ 1% - OD – $\pm$ 0.01; Light Source: LED of infinite life; Detector: Photo to cell; Warming time: 5 minutes; Cuvette: Square cuvette 10 mm path length opti glass window; Body: ABS; Weight: 1 Kg. (approx); Dimension: 90 mm (H) x 225 mm (W) x 220 mm (L); Sample quantity: 1ml; Accessories: Square cuvette, Dust proof cover	2
20	Mechanical shaker	12 pegs Local made	1
21	Digital polarimeter	Readout: 5 digit LED display for measurement; Angle of rotation: $\pm$ 120° (- for levo, + for dextro); Resolution: 0.01°; Accuracy: 0.02°; PC Software: EZCRUZ - 16 POL; 21CFR: Provided; IQ, OQ, PQ: Provided; Calibration: Factory calibrated with degree Or international sugar scale as Perusers choice using shimadzu standard; Light Detection: Electronic sensor; Power: 230V AC $\pm$ 10% @ 50 Hz 7VA; Weight: 7 kg approx; Size: 180mm (H) x 325mm (D) x 485mm (L); Sample Tube: Glass teflon tube of 20cm for organic solution; Accessories: Glass teflon tube of 20cm for organic solution	1
22	Micro oven	SAMSUNG	1
23	Electronic Weighing Balance	Weighing capacity 220 g; probability 1 mg, wensner/ Satorious	1
24	Boiling point bath (25 ml)	Glass made, with receiver bulb	5
25	Ice-making machine (double door)	Hitachi or LG or Godrej	1
26	Blowpipe		5

Department of Chemistry (GGDC, Chapra)-
Chemical & Glass apparatus

Serial Number	Name of the Chemical	Company name	Quantity
1	Iodine	Merck/spectrochem/ SRL	
2	Vitamin c (ascorbic acid)	Merck/spectrochem/ SRL	
3	Bismuth nitrate	Merck/spectrochem/ SRL	
4	Tetrahydrofuran 500 ml	Merck/spectrochem/ SRL	
5	Potassium iodide	Merck/spectrochem/ SRL	
6	Potassium chloride	Merck/spectrochem/ SRL	
7	Sodium phosphate	Merck/spectrochem/ SRL	
8	Lead sulphate	Merck/spectrochem/ SRL	
9	Barium sulphate	Merck/spectrochem/ SRL	
10	Calcium sulphate	Merck/spectrochem/ SRL	
11	Boric acid	Merck/spectrochem/ SRL	
12	Nickel bromide	Merck/spectrochem/ SRL	
13	Ferric oxide	Merck/spectrochem/ SRL	
14	Manganese dioxide	Merck/spectrochem/ SRL	
15	Ferric chloride	Merck/spectrochem/ SRL	
16	Ammonium chloride	Merck/spectrochem/ SRL	
17	Manganese sulphate	Merck/spectrochem/ SRL	
18	Chromic oxide	Merck/spectrochem/ SRL	
19	Barium bromide	Merck/spectrochem/ SRL	
20	Sodium nitrite	Merck/spectrochem/ SRL	
21	Strontium sulphate	Merck/spectrochem/ SRL	
22	Calcium phosphate	Merck/spectrochem/ SRL	
23	Copper nitrate	Merck/spectrochem/ SRL	
24	Ethanol	Merck/spectrochem/ SRL	
25	Methanol	Merck/spectrochem/ SRL	

26	Acetone	Merck/spectrochem/ SRL	
27	Acetyl acetone	Merck/spectrochem/ SRL	
28	Sodium bismuthate	Merck/spectrochem/ SRL	
29	Ethyl acetate 500 ml	Merck/spectrochem/ SRL	
30	Hexane 500 ml	Merck/spectrochem/ SRL	
31	Acetonitrile 500 ml	Merck/spectrochem/ SRL	
32	Diethyl ether 500 ml	Merck/spectrochem/ SRL	
33	DMSO 500 ml	Merck/spectrochem/ SRL	
34	DMF	Merck/spectrochem/ SRL	
35	Samarium iodide	Merck/spectrochem/ SRL	
36	Benzene 500 ml	Merck/spectrochem/ SRL	
37	Toluene 500 ml	Merck/spectrochem/ SRL	
38	Xylene 500 ml	Merck/spectrochem/ SRL	
39	Barium nitrate	Merck/spectrochem/ SRL	
40	Calcium nitrate	Merck/spectrochem/ SRL	
41	Strontium nitrate	Merck/spectrochem/ SRL	
42	Silver nitrate	Merck/spectrochem/ SRL	
43	Pt wire		
44	Mercury	Merck/spectrochem/ SRL	
45	Anhydrous sodium suphate	Merck/spectrochem/ SRL	
46	Anhydrous magnesium suphate	Merck/spectrochem/ SRL	
47	Urea	Merck/spectrochem/ SRL	
48	Benzyl amine	Merck/spectrochem/ SRL	
49	Allyl amine	Merck/spectrochem/ SRL	
50	Cadmium sulphide	Merck/spectrochem/ SRL	
51	Cobalt chloride	Merck/spectrochem/ SRL	

52	Cobalt bromide	Merck/spectrochem/ SRL	
53	Nickel bromide	Merck/spectrochem/ SRL	
54	Zinc sulphide	Merck/spectrochem/ SRL	
55	Sodium periodate	Merck/spectrochem/ SRL	
56	Potassium bromate	Merck/spectrochem/ SRL	
57	Sodium iodide	Merck/spectrochem/ SRL	
58	D-manitol	Merck/spectrochem/ SRL	
59	D-glucose	Merck/spectrochem/ SRL	
60	D-manose	Merck/spectrochem/ SRL	
61	Bromine	Merck/spectrochem/ SRL	
62	Cinamic acid	Merck/spectrochem/ SRL	
63	m-dinitro benzene	Merck/spectrochem/ SRL	
64	p-nitro benzoic acid	Merck/spectrochem/ SRL	
65	p-chloro benzoic acid	Merck/spectrochem/ SRL	
66	p-amino benzoic acid	Merck/spectrochem/ SRL	
67	Thalic acid	Merck/spectrochem/ SRL	
68	Salicylic acid	Merck/spectrochem/ SRL	
69	Sulphonilic acid	Merck/spectrochem/ SRL	
70	Potassium permanganate	Merck/spectrochem/ SRL	
71	Potassium dichromate	Merck/spectrochem/ SRL	
72	Oxalic acid	Merck/spectrochem/ SRL	
73	Sodium thiosulphate	Merck/spectrochem/ SRL	
74	Starch		
75	Phenolphthalein	Merck/spectrochem/ SRL	
76	BADS	Merck/spectrochem/ SRL	
77	Methyl orange	Merck/spectrochem/ SRL	
78	Glacial acetic acid	Merck/spectrochem/ SRL	
79	EDTA	Merck/spectrochem/ SRL	
80	Copper sulphate	Merck/spectrochem/ SRL	

81	Ferrous sulphate	Merck/spectrochem/ SRL	
82	Ferric chloride	Merck/spectrochem/ SRL	
83	DMG	Merck/spectrochem/ SRL	
84	Ammonium hydroxide	Merck/spectrochem/ SRL	
85	Potassium ferrocyanide	Merck/spectrochem/ SRL	
86	Alpha naphthyl amine	Merck/spectrochem/ SRL	
87	Sulphanilic acid	Merck/spectrochem/ SRL	
88	Beta naphthol	Merck/spectrochem/ SRL	
89	Lead acetate	Merck/spectrochem/ SRL	
90	P ^H paper		
91	Potassium chromate	Merck/spectrochem/ SRL	
92	Charcoal block	Merck/spectrochem/ SRL	
93	Cobalt nitrate	Merck/spectrochem/ SRL	
94	Blow pipe		
95	Mica foil		
96	Ferrous sulphide	Merck/spectrochem/ SRL	
97	Sodium sulphide	Merck/spectrochem/ SRL	
98	Methylene blue	Merck/spectrochem/ SRL	
99	Diphenyl amine	Merck/spectrochem/ SRL	
100	Ferrouin	Merck/spectrochem/ SRL	
101	Glycerol	Merck/spectrochem/ SRL	
102	Methyl red	Merck/spectrochem/ SRL	
103	Borax	Merck/spectrochem/ SRL	
104	Zinc chloride	Merck/spectrochem/ SRL	
105	Zinc dust	Merck/spectrochem/ SRL	
106	Copper turning	Merck/spectrochem/ SRL	
107	Lead nitrate	Merck/spectrochem/ SRL	
108	ZnSO ₄ .7H ₂ O	Merck/spectrochem/ SRL	
109	Phosphorous pentachloride	Merck/spectrochem/ SRL	

110	MgSO ₄ .7H ₂ O	Merck/spectrochem/ SRL	
111	Calcium fluoride	Merck/spectrochem/ SRL	
112	Syrupy phosphoric acid	Merck/spectrochem/ SRL	
113	Sodium nitropruside	Merck/spectrochem/ SRL	
114	Disodium hydrogen phosphate	Merck/spectrochem/ SRL	
115	Ammonium thiocyanate	Merck/spectrochem/ SRL	
116	Ammonium molybdate	Merck/spectrochem/ SRL	
117	Mercurous nitrate	Merck/spectrochem/ SRL	
118	Nessler reagent	Merck/spectrochem/ SRL	
119	Potassium thiocyanate	Merck/spectrochem/ SRL	
120	Stannous chloride	Merck/spectrochem/ SRL	
121	Sodium bicarbonate	Merck/spectrochem/ SRL	
122	Mohr salt	Merck/spectrochem/ SRL	
123	Phenol	Merck/spectrochem/ SRL	
124	Sodium chloride	Merck/spectrochem/ SRL	
125	2,4-DNP	Merck/spectrochem/ SRL	
126	Sodium bisulphite	Merck/spectrochem/ SRL	
127	Semicarbazide hydrochloride	Merck/spectrochem/ SRL	
128	Chloroform 500 ml	Merck/spectrochem/ SRL	
129	Dichloromethane 500 ml	Merck/spectrochem/ SRL	
130	Hydroxyl amine hydrochloride	Merck/spectrochem/ SRL	
131	Picric acid	Merck/spectrochem/ SRL	
132	Naphthalene	Merck/spectrochem/ SRL	
133	Anthracene	Merck/spectrochem/ SRL	
134	Phenanthrene	Merck/spectrochem/ SRL	
135	Aniline	Merck/spectrochem/ SRL	
136	Benzoyl chloride	Merck/spectrochem/ SRL	
137	PCl ₅	Merck/spectrochem/ SRL	

138	3,5-dinitro benzoic acid	Merck/spectrochem/ SRL	
139	m-nitro phenol	Merck/spectrochem/ SRL	
140	Benzoic acid	Merck/spectrochem/ SRL	
141	Resorcinol	Merck/spectrochem/ SRL	
142	Acetophenone	Merck/spectrochem/ SRL	
143	Benzophenone	Merck/spectrochem/ SRL	
144	Formaldehyde	Merck/spectrochem/ SRL	
145	Benzaldehyde	Merck/spectrochem/ SRL	
146	Nitrobenzene	Merck/spectrochem/ SRL	
147	Cylohexene	Merck/spectrochem/ SRL	
148	Benzoin	Merck/spectrochem/ SRL	
149	Benzophenone	Merck/spectrochem/ SRL	
150	Sodium bromide	Merck/spectrochem/ SRL	
151	Sodium iodide	Merck/spectrochem/ SRL	
152	Methyl acetate	Merck/spectrochem/ SRL	
153	Sodium nitrite	Merck/spectrochem/ SRL	
154	Calcium phosphate	Merck/spectrochem/ SRL	
155	Sodium arsenate	Merck/spectrochem/ SRL	
156	Ammonium chloride	Merck/spectrochem/ SRL	
157	Sodium nitrate	Merck/spectrochem/ SRL	
158	EBT	Merck/spectrochem/ SRL	
159	Murexide	Merck/spectrochem/ SRL	
160	Calcon	Merck/spectrochem/ SRL	
161	Potassium nitrate	Merck/spectrochem/ SRL	
162	Magnesium chloride	Merck/spectrochem/ SRL	
163	Magnesium sulphate	Merck/spectrochem/ SRL	
164	Zinc sulphate	Merck/spectrochem/ SRL	
165	Hydrogen peroxide	Merck/spectrochem/ SRL	
166	Potassium chromate	Merck/spectrochem/ SRL	

167	Sodium oxalate	Merck/spectrochem/ SRL	
168	Potassium hydrogen tartatate	Merck/spectrochem/ SRL	
169	Sodium carbonate	Merck/spectrochem/ SRL	
170	Ammonium bifluoride	Merck/spectrochem/ SRL	
171	Ammonium carbonate	Merck/spectrochem/ SRL	
172	Bleaching powder	Merck/spectrochem/ SRL	
173	Sulphuric acid	Merck/spectrochem/ SRL	
174	Potassium hydrogen phthalate	Merck/spectrochem/ SRL	
175	Sodium hydroxide	Merck/spectrochem/ SRL	
176	Commercial vinegar	Merck/spectrochem/ SRL	
177	Potassium hydroxide	Merck/spectrochem/ SRL	
178	Carbon tetrachloride	Merck/spectrochem/ SRL	
179	Ethyl acetate	Merck/spectrochem/ SRL	
180	Ammonium molybdate	Merck/spectrochem/ SRL	
181	Sodium acetate	Merck/spectrochem/ SRL	
182	Ammonium nitrate	Merck/spectrochem/ SRL	
183	Aluminium oxide	Merck/spectrochem/ SRL	
184	Zinc oxide	Merck/spectrochem/ SRL	
185	Calcium oxide	Merck/spectrochem/ SRL	
186	Disodium hydrogen phosphate	Merck/spectrochem/ SRL	
187	Disodium hydrogen arsenate	Merck/spectrochem/ SRL	
188	Antimony oxide	Merck/spectrochem/ SRL	
189	Strontium nitrate	Merck/spectrochem/ SRL	
190	Stannic oxide	Merck/spectrochem/ SRL	
191	Sodium arsenite	Merck/spectrochem/ SRL	
192	Nickel chloride	Merck/spectrochem/ SRL	
193	Nickel oxide	Merck/spectrochem/ SRL	
194	Cobalt oxide	Merck/spectrochem/ SRL	

195	Dimethyl sulphoxide	Merck/spectrochem/ SRL	
196	Propanol	Merck/spectrochem/ SRL	
197	Tertiary butanol	Merck/spectrochem/ SRL	
198	n-hexane	Merck/spectrochem/ SRL	
199	n-pentane	Merck/spectrochem/ SRL	
200	Phosphorous pentoxide	Merck/spectrochem/ SRL	

Serial Number	Name of the glass apparatus	Quantity	Price
1	Graduated pipettes 10 ml and 25 ml BOROSIL	10 PCS EACH	
2	Burettes 50 ml BOROSIL	20 PCS	
3	Beakers 25 ml, 100 ml, 250 ml, 500 ml BOROSIL	10 PCS EACH	
4	Volumetric flasks. 50, 100 and 250 ml BOROSIL	10 PCS EACH	
5	Condensers B-14, 19,24 BOROSIL	10 PCS EACH	
6	Head - B-14-14, B-19-19, B-24-24 and Tail- B-14-14, B-19-19, B-24-24	10 PCS EACH	
7	Funnels Small size and medium sizw	10 PCS EACH	
8	Petri dishes	10 PCS	
9	Graduated Cylinders/Measuring cylinder	10 PCS EACH	

**GOVERNMENT GENERAL DEGREE COLLEGE,
CHAPRA
Requirement for Library**

SL. NO	ITEM	SPECIFICATIONS	Number
1.	LAPTOP	Brand- Lenovo, Windows 10, Hard Disk – SSD, Display-LED, Screen Size-14 Inches	1
2.	PEN DRIVE	Brand- Sandisk, 64 GB	1
3.	CPU	Intel Processor i3, Intel Chip Motherbord, 4GB RAM, DVD Writer, ATX Cabinet with SMPS, 1 TB HDD	2
4.	Desktop Monitor	LG LED	2
5.	UPS	APC 600VA	2
6.	Mouse	Logitech	2
7.	PRINTER	Brand- HP, Printing Technology- Laser, Hardware Interface-USB 2.0, Print Media-Card Stock	

GOVERNMENT GENERAL DEGREE COLLEGE, CHAPRA Dept. of Political Science	
Name of the item.	No(s)
1. Globe.	1

2. World Map (Political).	1
3. India Map (Political).	1
4. West Bengal Map (Political).	1
5. Cover File.	20
6. Pen drive.	4
7. Monitor.	2
8. CPU.	2
9. Printer.	1
10. A4 sheets.	5 pkts.
Name of the item.	
No(s)	

GOVT. GENERAL DEGREE COLLEGE, CHAPRA
DEPARTMENT OF PHYSICS
LIST OF INSTRUMENTS

S **Item name**

l
N
o
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1 Instruments corresponding Electromagnetic Theory

To verify the law of Malus for plane polarized light :

Apparatus: diode laser, polarizer-analyzer pair, photo detector, micro ammeter, dial fitted to the polarizer and an optical bench .

2 Complete set to determine the height of a building using
 sextant.

3 To determine the specific rotation of sugar solution using
 Polarimeter.

Apparatus: Half-shade polarimeter

4 To determine the wavelength and velocity of ultrasonic waves
 in a liquid (Kerosene Oil, Xylene, etc.) by studying the
 diffraction through ultrasonic grating.

Apparatus: Radio frequency oscillator fitted with a frequency
 meter, Quartz crystal slab fitted with two leads, Spectrometer,
 Glass cell with experimental liquid (kerosene, Toluene,
 Turpentine oil), Sodium lamp, Spirit level, CRO.

5 To verify the Stefan's law of radiation and to determine
 Stefan's constant

Apparatus: Regulated power supply (0- 6 V), Tungsten
 filament bulb (6V), rheostat (100 Ω , 1A), Digital Voltmeter (0-
 10V) and Ammeter (0-1A).

6 To determine the Boltzmann constant using V-I characteristics
 of PN junction diode.

Apparatus: p-n junction diode, DC power supply (5V), rheostat, milliammeter (0-20 mA), voltmeter (0-2V)

- 7 To verify Brewster's law and Fresnel formulae for reflection of electromagnetic waves with the help of a spectrometer, a prism and two polaroids

Apparatus: (i) Spectrometer, (ii) prism, (iii) two polaroids with circular scales that can be fitted on collimator and telescope tubes, (iv) sodium vapour lamp.

8 **Instruments corresponding Modern Physics**

Photo-electric effect

and

To determine the Planck's constant using LEDs of at least 4 different colours

Apparatus: Photoelectric apparatus with a phototube, Light Emitting Diodes (LEDs) of several colors, two digital meters

- 9 To show the tunnelling effect in tunnel diode using I-V characteristics

Apparatus: complete set

1 **Instruments corresponding Wave and Optics**

- 0 To determine the slit width (a) using diffraction of single slit.

Apparatus: Spectrometer, adjustable narrow slit, telescope with a metre scale, small mirror, source of monochromatic light

- 1 To determine the slit width (a,b) using diffraction of
1 double slits.

Apparatus: complete set

- 1 To determine refractive index of the Material of a prism
2 using sodium source.

Apparatus: Spectrometer, prism, prism clamp, sodium vapour lamp, spirit level, a magnifying lens and a reading lamp.

- 1 To determine wavelength of sodium light using Fresnel
3 Biprism

Apparatus: Optical bench with four uprights, sodium lamp, Fresnel's Biprism, a convex lens and micrometer eyepiece.

- 1 To determine wavelength of sodium light using Newton's
4 Rings.

Apparatus: Plano convex lens of large radius of curvature, optical arrangement for Newton's rings, plane glass plate, sodium vapour lamp and traveling microscope.

- 1 To determine wavelength of (1) Na source and (2)
5 spectral lines of Hg source using plane diffraction grating.

Apparatus: Spectrometer, spirit level, prism, plane diffraction grating (~300 lines/mm), sodium vapour lamp, mercury vapour lamp, slit of adjustable width and fitted with a micrometer screw

- 1 Complete set to determine the elastic constants of a material by
6 Searle's method.

- 1 Low and high Resistance box and Carey Foster's Bridge
7

- 1 Complete set to determine horizontal component of the earth's
8 magnetic field.

- 1 Complete set to determine the frequency of an electric tuning fork
9 by Melde's experiment and verify

$\lambda^2 - T$ Law law

- 2 Complete set for Newton's Rings experiment
0

2 Optics instruments 1

1. Complete set to determine the thickness of a thin paper by measuring the width of the interference

fringes produced by a wedge-shaped Film.

2. Complete set-up to determine Brewster's angle for air-glass interface using a prism.

3. Complete set-up to study of Fresnel's law by the reflection on the surface of a prism.

4. Complete set-up to study the Malus law using a pair of polaroids.

5. Complete set-up to study the specific rotation of optically active solution using polarimeter.

6. Complete set-up for determination of wavelength and velocity of

ultrasonic waves in a liquid

(kerosene, Xylene etc)..

7. Complete set-up to analyze elliptically polarized light by using babinate compensator.

8. Complete set-up to determine dispersive power and resolving power of a plane diffraction grating.

2 **Electrical Instruments**

Digital Storage Oscilloscope (DSO) 1GHz Bandwidth

2 Function Generator FG01 SES Instruments
3

AC Millivolt meter

ACM102, ACM103 SES Instruments

Sigma DIGITAL LCR METER with Frequency
100Hz/1Khz/10KHz/100KHz

Complete set-up for determination of the coefficient of thermal expansion of a metallic rod using an optical lever.

Complete set for potentiometer and hot plate for calibration of thermocouple

Complete set to determine for calibration of thermocouple [one end at room temperature other end in the oil bath] and determination of boiling point of water.

Complete set to determine the Temperature Coefficient of Resistance by Platinum Resistance

Thermometer (PRT).

Electronics Instruments

1. resistor, capacitor, inductor, 1K 10K pot, diode, zener, transistor pnp npn type, ic 7400 series
 2. bread board and connecting wires
 3. Construction of FF circuits using NAND gates.
 4. Construction of 4 bit shift registers (serial & parallel) using D type FFIC.
 5. Construction of astable multivibrator using 555 Timer.
 6. Complete set-up for measurement of Plank constant using LED
 7. Complete set-up for determination of ionization potential of Mercury
 8. Complete set-up determination of e/m by using bar magnet.
 9. Complete set-up to study the photoelectric effect: variation of photocurrent versus intensity and wavelength of light
-
1. Complete set-up to determine the wavelength of H-alpha emission line of Hydrogen atom.
 2. Complete set-up to show the tunneling effect in tunnel diode using I-V characteristics.
 3. Complete set-up to determine (1) wavelength and (2) angular spread of He-Ne laser/ solid state laser using plane diffraction grating.
 4. Complete set-up to study PE hysteresis of ferroelectric crystal.
 5. Complete set-up to study BH hysteresis of ferromagnetic material.
 6. Complete set-up for measurement of susceptibility of

paramagnetic solution by Quink's tube method.

7. Complete set-up for measurement of magnetic susceptibility of solids.

8. Complete set-up for determination of variation of dielectric constant with frequency.

9. Complete set-up measurement of hall voltage by four probe method.

10. Complete set-up to study temperature coefficient of a semiconductor (NTC thermistor).

Electrical Instruments

1. Complete set-up to design an Amplitude Modulator using Transistor

2. Complete set-up to study envelope detector for demodulation of AM signal

3. Complete set-up to study FM - Generator and Detector circuit

4. Complete set-up to study AM Transmitter and Receiver

5. Complete set-up to study FM Transmitter and Receiver

6. Complete set-up to study Time Division Multiplexing (TDM)

7. Complete set-up to study Pulse Amplitude Modulation (PAM)

8. Complete Set-up for determination of pressure coefficient of air using Jolly's Apparatus

Serial Number	Name of the instrument	Specification	Quantity
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Department of Chemistry (GGDC, Chapra)-
Instruments List

1	Stalagmometer.		10
2	Viscometer.		10
3	Vacuum pump		3
4	Magnatic Stirrer with hot plate	Heating Capacity-150, External Dimension-200×225×185, Model- Q-19, Length- 9×25 mm	5
5	Magnatic Stirrer without hot plate	Heating Capacity-150, External Dimension-200×225×185, Model- Q-19, Length- 9×25 mm	5
6	Hot Air Oven copper	Temperature Range 5°C above ambient to 250°C maximum Temperature Accuracy + / - 2°C Temperature Uniformity + / - 1°C Controls PID Controller Temp Display LED Display Sensor PT-100 Heating Element Nichrome wire / Kanthal A1 Safety device Over temperature protection Electric leakage breaker Temperature safety as per DIN 12880 Class 3.1 Exterior Chamber MS powder coated Interior Chamber 304 stainless steel Insulation Mineral Wool Doors Solid doors w/ silicone rubber gasket & lock Shelves 2 – 3 Stainless steel shelves (Removable) Air Circulation Forced air circulation Power Supply 220 Volts, Inner Chamber: 355 x 355 x 355 mm, Vol-45 lits	1
7	Heating mantle with energy regulator	100 ml capacity, Local Made; 250 ml capacity, Local Made; 500 ml capacity; 1000 ml capacity	2X4=8
8	U.V. Cabinet for TLC	IKON INDUSTRIES	2
9	Sonicator capacity and company name		2
10	pH meter with combined electrode	Readout: 4 digit LED display; Range: pH: 0 to 14.00, mV: 0 to ± 1.999; Resolution: pH: 0.1, mV: 1; ; Accuracy: pH: ± 0.02, pH ± 2 least count, mV: ± 0.2%, ± 1 least count; Temp. comp.: 0 to 100°C; Power required: 230 V AC ± 10% 50 Hz, 4 VA; Warming time: 5 minutes; Electronic buffer: Equivalent signal output of ideal electrode in solution	3
11	Conductivity meter	Readout: 4 digit LED display; Unit of meas.: MHO; Ranges: 0.01μΩ to 200 mΩ in 6	3

		ranges; Six ranges: 200 mΩ , 20mΩ , 2 mΩ , 200 μΩ , 20 μΩ , 2 μΩ; Accuracy: :± 1% ± last 2 digits; Power required: 230 V AC ± 10%, 50 Hz, 5 VA or 9V battery; Body: ABS; Dimension: 80 mm (H) x 235 mm (W) x 155 mm (L); Weight: 1kg (Approx.); Warming period: Instant; Standard cond.: Conductance of 1.000 mΩ; Electrode: Cell K = 1 - PVC sleeved (EQ-708A); Accessories: Stand set, Screwdriver and Dust proof cover	
12	Electrical melting point bath	Toshniwal	5
13	Potentiometer	Readout: 4 digit LED display; Ranges: ± 1.999 V; Accuracy :C 0o.0m0b1i nVeodl tPsV; SCt asnledeavrdded C ell: 1.018 V inbuilt; Body: ABS; Stirrer Speed: 500 RPM fixed; Warming time: 5 minutes; Power: 230 V AC ±10% 50 Hz; Weight: 1 Kg (approx); Dimension: 90 mm (H) x 225 mm (W) x 220 mm (L); Accessories: Electrode clamp, Rod, Teflon magnet, Screwdriver and Dust proof cover	3
14	Shimadzu UV-VIS-Double Beam Spectrophotometer	Model no. 2206, Wavelength: 190-1100nm; photometric: +/-3.0 Abs	2
15	Vacuum pump	Specification (220V, 50Hz) ◆ Max. power : 90 W ◆ Max. current : 0.5 A ◆ Max. vacuum : Ultimate 13mbar (-750mmHg) ◆ Max. flow rate : 18 l/min ◆ Max. vacuum : 1450 RPM ◆ Horse power : 1/6 HP ◆ Noise level : 50.0 dB ◆ Hose barb : 5/16 inch (8 mm) ◆ Net weight : 7.4 kg ◆ Dimension (LxWxH) : 26.2x23.6x19.3 cm ◆ Glass vapor trap : Yes ◆ Vacuum Regulator : Yes	3
16	Glass dessicator Bigger size		3

17	Water bath electrical	6 holes, Stainless steel with water inlet & outlet	2
18	Tarson desiccators	Dia: 6 inch and 12 inch	3x2=6
19	Digital Colorimeter	Reads: 650A - % T & OD / 653 - OD; Power required: 230 V AC $\pm$ 10% 50 Hz, 10 VA; Filters: Disc mounted German filters 400, 420, 470, 500, 530, 620, 660, & 700 nm. All the eight filters are mounted on the disc. Selection is done by rotation of disc. The disc will be locked in desired position; Readout: 3 digit LCD display; Measurement: a) Transmittance 'T'-0-100% b) OD-0-1.99 (653 reads OD only); Accuracy: %T – $\pm$ 1% - OD – $\pm$ 0.01; Light Source: LED of infinite life; Detector: Photo to cell; Warming time: 5 minutes; Cuvette: Square cuvette 10 mm path length opti glass window; Body: ABS; Weight: 1 Kg. (approx); Dimension: 90 mm (H) x 225 mm (W) x 220 mm (L); Sample quantity: 1ml; Accessories: Square cuvette, Dust proof cover	2
20	Mechanical shaker	12 pegs Local made	1
21	Digital polarimeter	Readout: 5 digit LED display for measurement; Angle of rotation: $\pm$ 120° (- for levo, + for dextro); Resolution: 0.01°; Accuracy: 0.02°; PC Software: EZCRUZ - 16 POL; 21CFR: Provided; IQ, OQ, PQ: Provided; Calibration: Factory calibrated with degree Or international sugar scale as Perusers choice using shimadzu standard; Light Detection: Electronic sensor; Power: 230V AC $\pm$ 10% @ 50 Hz 7VA; Weight: 7 kg approx; Size: 180mm (H) x 325mm (D) x 485mm (L); Sample Tube: Glass teflon tube of 20cm for organic solution; Accessories: Glass teflon tube of 20cm for organic solution	1
22	Micro oven	SAMSUNG	1
23	Electronic Weighing Balance	Weighing capacity 220 g; probability 1 mg, wensner/ Satorious	1
24	Boiling point bath (25 ml)	Glass made, with receiver bulb	5
25	Ice-making machine (double door)	Hitachi or LG or Godrej	1
26	Blowpipe		5

Department of Chemistry (GGDC, Chapra)-
Chemical & Glass apparatus

Serial Number	Name of the Chemical	Company name	Quantity
1	Iodine	Merck/spectrochem/ SRL	
2	Vitamin c (ascorbic acid)	Merck/spectrochem/ SRL	
3	Bismuth nitrate	Merck/spectrochem/ SRL	
4	Tetrahydrofuran 500 ml	Merck/spectrochem/ SRL	
5	Potassium iodide	Merck/spectrochem/ SRL	
6	Potassium chloride	Merck/spectrochem/ SRL	
7	Sodium phosphate	Merck/spectrochem/ SRL	
8	Lead sulphate	Merck/spectrochem/ SRL	
9	Barium sulphate	Merck/spectrochem/ SRL	
10	Calcium sulphate	Merck/spectrochem/ SRL	
11	Boric acid	Merck/spectrochem/ SRL	
12	Nickel bromide	Merck/spectrochem/ SRL	
13	Ferric oxide	Merck/spectrochem/ SRL	
14	Manganese dioxide	Merck/spectrochem/ SRL	
15	Ferric chloride	Merck/spectrochem/ SRL	
16	Ammonium chloride	Merck/spectrochem/ SRL	
17	Manganese sulphate	Merck/spectrochem/ SRL	
18	Chromic oxide	Merck/spectrochem/ SRL	
19	Barium bromide	Merck/spectrochem/ SRL	
20	Sodium nitrite	Merck/spectrochem/ SRL	
21	Strontium sulphate	Merck/spectrochem/ SRL	
22	Calcium phosphate	Merck/spectrochem/ SRL	
23	Copper nitrate	Merck/spectrochem/ SRL	
24	Ethanol	Merck/spectrochem/ SRL	
25	Methanol	Merck/spectrochem/ SRL	

26	Acetone	Merck/spectrochem/ SRL	
27	Acetyl acetone	Merck/spectrochem/ SRL	
28	Sodium bismuthate	Merck/spectrochem/ SRL	
29	Ethyl acetate 500 ml	Merck/spectrochem/ SRL	
30	Hexane 500 ml	Merck/spectrochem/ SRL	
31	Acetonitrile 500 ml	Merck/spectrochem/ SRL	
32	Diethyl ether 500 ml	Merck/spectrochem/ SRL	
33	DMSO 500 ml	Merck/spectrochem/ SRL	
34	DMF	Merck/spectrochem/ SRL	
35	Samarium iodide	Merck/spectrochem/ SRL	
36	Benzene 500 ml	Merck/spectrochem/ SRL	
37	Toluene 500 ml	Merck/spectrochem/ SRL	
38	Xylene 500 ml	Merck/spectrochem/ SRL	
39	Barium nitrate	Merck/spectrochem/ SRL	
40	Calcium nitrate	Merck/spectrochem/ SRL	
41	Strontium nitrate	Merck/spectrochem/ SRL	
42	Silver nitrate	Merck/spectrochem/ SRL	
43	Pt wire		
44	Mercury	Merck/spectrochem/ SRL	
45	Anhydrous sodium suphate	Merck/spectrochem/ SRL	
46	Anhydrous magnesium suphate	Merck/spectrochem/ SRL	
47	Urea	Merck/spectrochem/ SRL	
48	Benzyl amine	Merck/spectrochem/ SRL	
49	Allyl amine	Merck/spectrochem/ SRL	
50	Cadmium sulphide	Merck/spectrochem/ SRL	
51	Cobalt chloride	Merck/spectrochem/ SRL	

52	Cobalt bromide	Merck/spectrochem/ SRL	
53	Nickel bromide	Merck/spectrochem/ SRL	
54	Zinc sulphide	Merck/spectrochem/ SRL	
55	Sodium periodate	Merck/spectrochem/ SRL	
56	Potassium bromate	Merck/spectrochem/ SRL	
57	Sodium iodide	Merck/spectrochem/ SRL	
58	D-manitol	Merck/spectrochem/ SRL	
59	D-glucose	Merck/spectrochem/ SRL	
60	D-manose	Merck/spectrochem/ SRL	
61	Bromine	Merck/spectrochem/ SRL	
62	Cinamic acid	Merck/spectrochem/ SRL	
63	m-dinitro benzene	Merck/spectrochem/ SRL	
64	p-nitro benzoic acid	Merck/spectrochem/ SRL	
65	p-chloro benzoic acid	Merck/spectrochem/ SRL	
66	p-amino benzoic acid	Merck/spectrochem/ SRL	
67	Thalic acid	Merck/spectrochem/ SRL	
68	Salicylic acid	Merck/spectrochem/ SRL	
69	Sulphonilic acid	Merck/spectrochem/ SRL	
70	Potassium permanganate	Merck/spectrochem/ SRL	
71	Potassium dichromate	Merck/spectrochem/ SRL	
72	Oxalic acid	Merck/spectrochem/ SRL	
73	Sodium thiosulphate	Merck/spectrochem/ SRL	
74	Starch		
75	Phenolphthalein	Merck/spectrochem/ SRL	
76	BADS	Merck/spectrochem/ SRL	
77	Methyl orange	Merck/spectrochem/ SRL	
78	Glacial acetic acid	Merck/spectrochem/ SRL	
79	EDTA	Merck/spectrochem/ SRL	
80	Copper sulphate	Merck/spectrochem/ SRL	

81	Ferrous sulphate	Merck/spectrochem/ SRL	
82	Ferric chloride	Merck/spectrochem/ SRL	
83	DMG	Merck/spectrochem/ SRL	
84	Ammonium hydroxide	Merck/spectrochem/ SRL	
85	Potassium ferrocyanide	Merck/spectrochem/ SRL	
86	Alpha naphthyl amine	Merck/spectrochem/ SRL	
87	Sulphanilic acid	Merck/spectrochem/ SRL	
88	Beta naphthol	Merck/spectrochem/ SRL	
89	Lead acetate	Merck/spectrochem/ SRL	
90	P ^H paper		
91	Potassium chromate	Merck/spectrochem/ SRL	
92	Charcoal block	Merck/spectrochem/ SRL	
93	Cobalt nitrate	Merck/spectrochem/ SRL	
94	Blow pipe		
95	Mica foil		
96	Ferrous sulphide	Merck/spectrochem/ SRL	
97	Sodium sulphide	Merck/spectrochem/ SRL	
98	Methylene blue	Merck/spectrochem/ SRL	
99	Diphenyl amine	Merck/spectrochem/ SRL	
100	Ferrouin	Merck/spectrochem/ SRL	
101	Glycerol	Merck/spectrochem/ SRL	
102	Methyl red	Merck/spectrochem/ SRL	
103	Borax	Merck/spectrochem/ SRL	
104	Zinc chloride	Merck/spectrochem/ SRL	
105	Zinc dust	Merck/spectrochem/ SRL	
106	Copper turning	Merck/spectrochem/ SRL	
107	Lead nitrate	Merck/spectrochem/ SRL	
108	ZnSO ₄ .7H ₂ O	Merck/spectrochem/ SRL	
109	Phosphorous pentachloride	Merck/spectrochem/ SRL	

110	MgSO ₄ .7H ₂ O	Merck/spectrochem/ SRL	
111	Calcium fluoride	Merck/spectrochem/ SRL	
112	Syrupy phosphoric acid	Merck/spectrochem/ SRL	
113	Sodium nitropruside	Merck/spectrochem/ SRL	
114	Disodium hydrogen phosphate	Merck/spectrochem/ SRL	
115	Ammonium thiocyanate	Merck/spectrochem/ SRL	
116	Ammonium molybdate	Merck/spectrochem/ SRL	
117	Mercurous nitrate	Merck/spectrochem/ SRL	
118	Nessler reagent	Merck/spectrochem/ SRL	
119	Potassium thiocyanate	Merck/spectrochem/ SRL	
120	Stannous chloride	Merck/spectrochem/ SRL	
121	Sodium bicarbonate	Merck/spectrochem/ SRL	
122	Mohr salt	Merck/spectrochem/ SRL	
123	Phenol	Merck/spectrochem/ SRL	
124	Sodium chloride	Merck/spectrochem/ SRL	
125	2,4-DNP	Merck/spectrochem/ SRL	
126	Sodium bisulphite	Merck/spectrochem/ SRL	
127	Semicarbazide hydrochloride	Merck/spectrochem/ SRL	
128	Chloroform 500 ml	Merck/spectrochem/ SRL	
129	Dichloromethane 500 ml	Merck/spectrochem/ SRL	
130	Hydroxyl amine hydrochloride	Merck/spectrochem/ SRL	
131	Picric acid	Merck/spectrochem/ SRL	
132	Naphthalene	Merck/spectrochem/ SRL	
133	Anthracene	Merck/spectrochem/ SRL	
134	Phenanthrene	Merck/spectrochem/ SRL	
135	Aniline	Merck/spectrochem/ SRL	
136	Benzoyl chloride	Merck/spectrochem/ SRL	
137	PCl ₅	Merck/spectrochem/ SRL	

138	3,5-dinitro benzoic acid	Merck/spectrochem/ SRL	
139	m-nitro phenol	Merck/spectrochem/ SRL	
140	Benzoic acid	Merck/spectrochem/ SRL	
141	Resorcinol	Merck/spectrochem/ SRL	
142	Acetophenone	Merck/spectrochem/ SRL	
143	Benzophenone	Merck/spectrochem/ SRL	
144	Formaldehyde	Merck/spectrochem/ SRL	
145	Benzaldehyde	Merck/spectrochem/ SRL	
146	Nitrobenzene	Merck/spectrochem/ SRL	
147	Cylohexene	Merck/spectrochem/ SRL	
148	Benzoin	Merck/spectrochem/ SRL	
149	Benzophenone	Merck/spectrochem/ SRL	
150	Sodium bromide	Merck/spectrochem/ SRL	
151	Sodium iodide	Merck/spectrochem/ SRL	
152	Methyl acetate	Merck/spectrochem/ SRL	
153	Sodium nitrite	Merck/spectrochem/ SRL	
154	Calcium phosphate	Merck/spectrochem/ SRL	
155	Sodium arsenate	Merck/spectrochem/ SRL	
156	Ammonium chloride	Merck/spectrochem/ SRL	
157	Sodium nitrate	Merck/spectrochem/ SRL	
158	EBT	Merck/spectrochem/ SRL	
159	Murexide	Merck/spectrochem/ SRL	
160	Calcon	Merck/spectrochem/ SRL	
161	Potassium nitrate	Merck/spectrochem/ SRL	
162	Magnesium chloride	Merck/spectrochem/ SRL	
163	Magnesium sulphate	Merck/spectrochem/ SRL	
164	Zinc sulphate	Merck/spectrochem/ SRL	
165	Hydrogen peroxide	Merck/spectrochem/ SRL	
166	Potassium chromate	Merck/spectrochem/ SRL	

167	Sodium oxalate	Merck/spectrochem/ SRL	
168	Potassium hydrogen tartatate	Merck/spectrochem/ SRL	
169	Sodium carbonate	Merck/spectrochem/ SRL	
170	Ammonium bifluoride	Merck/spectrochem/ SRL	
171	Ammonium carbonate	Merck/spectrochem/ SRL	
172	Bleaching powder	Merck/spectrochem/ SRL	
173	Sulphuric acid	Merck/spectrochem/ SRL	
174	Potassium hydrogen phthalate	Merck/spectrochem/ SRL	
175	Sodium hydroxide	Merck/spectrochem/ SRL	
176	Commercial vinegar	Merck/spectrochem/ SRL	
177	Potassium hydroxide	Merck/spectrochem/ SRL	
178	Carbon tetrachloride	Merck/spectrochem/ SRL	
179	Ethyl acetate	Merck/spectrochem/ SRL	
180	Ammonium molybdate	Merck/spectrochem/ SRL	
181	Sodium acetate	Merck/spectrochem/ SRL	
182	Ammonium nitrate	Merck/spectrochem/ SRL	
183	Aluminium oxide	Merck/spectrochem/ SRL	
184	Zinc oxide	Merck/spectrochem/ SRL	
185	Calcium oxide	Merck/spectrochem/ SRL	
186	Disodium hydrogen phosphate	Merck/spectrochem/ SRL	
187	Disodium hydrogen arsenate	Merck/spectrochem/ SRL	
188	Antimony oxide	Merck/spectrochem/ SRL	
189	Strontium nitrate	Merck/spectrochem/ SRL	
190	Stannic oxide	Merck/spectrochem/ SRL	
191	Sodium arsenite	Merck/spectrochem/ SRL	
192	Nickel chloride	Merck/spectrochem/ SRL	
193	Nickel oxide	Merck/spectrochem/ SRL	
194	Cobalt oxide	Merck/spectrochem/ SRL	

195	Dimethyl sulphoxide	Merck/spectrochem/ SRL	
196	Propanol	Merck/spectrochem/ SRL	
197	Tertiary butanol	Merck/spectrochem/ SRL	
198	n-hexane	Merck/spectrochem/ SRL	
199	n-pentane	Merck/spectrochem/ SRL	
200	Phosphorous pentoxide	Merck/spectrochem/ SRL	

Serial Number	Name of the glass apparatus	Quantity	Price
1	Graduated pipettes 10 ml and 25 ml BOROSIL	10 PCS EACH	
2	Burettes 50 ml BOROSIL	20 PCS	
3	Beakers 25 ml, 100 ml, 250 ml, 500 ml BOROSIL	10 PCS EACH	
4	Volumetric flasks. 50, 100 and 250 ml BOROSIL	10 PCS EACH	
5	Condensers B-14, 19,24 BOROSIL	10 PCS EACH	
6	Head - B-14-14, B-19-19, B-24-24 and Tail- B-14-14, B-19-19, B-24-24	10 PCS EACH	
7	Funnels Small size and medium sizw	10 PCS EACH	
8	Petri dishes	10 PCS	
9	Graduated Cylinders/Measuring cylinder	10 PCS EACH	

**GOVERNMENT GENERAL DEGREE COLLEGE,
CHAPRA
Requirement for Library**

SL. NO	ITEM	SPECIFICATIONS	Number
1.	LAPTOP	Brand- Lenovo, Windows 10, Hard Disk – SSD, Display-LED, Screen Size-14 Inches	1
2.	PEN DRIVE	Brand- Sandisk, 64 GB	1
3.	CPU	Intel Processor i3, Intel Chip Motherbord, 4GB RAM, DVD Writer, ATX Cabinet with SMPS, 1 TB HDD	2
4.	Desktop Monitor	LG LED	2
5.	UPS	APC 600VA	2
6.	Mouse	Logitech	2
7.	PRINTER	Brand- HP, Printing Technology- Laser, Hardware Interface-USB 2.0, Print Media-Card Stock	

GOVERNMENT GENERAL DEGREE COLLEGE, CHAPRA Dept. of Political Science	
Name of the item.	No(s)
1. Globe.	1

2. World Map (Political).	1
3. India Map (Political).	1
4. West Bengal Map (Political).	1
5. Cover File.	20
6. Pen drive.	4
7. Monitor.	2
8. CPU.	2
9. Printer.	1
10. A4 sheets.	5 pkts.
Name of the item.	
No(s)	

GOVT. GENERAL DEGREE COLLEGE, CHAPRA
DEPARTMENT OF BENGALI
LIST OF BOOKS

চাপড়া সরকারি মহাবিদ্যালয়। বাংলা বিভাগ। গ্রন্থতালিকা

- ১। মধ্যযুগের কবি ও কাব্যঃ শঙ্করীপ্রসাদ বসু-দেজ
- ২। রবীন্দ্রানুসারী কবি সমাজঃ অরুণকুমার মুখোপাধ্যায়-দেজ
- ৩। আধুনিকতা ও রবীন্দ্রনাথঃ আবু সয়ীদ আইয়ুব-দেজ
- ৪। রবীন্দ্র চিন্তাচর্চাঃ ভবতোষ দত্ত -দেজ
- ৫। কালের মাত্রা ও রবীন্দ্র নাটকঃ শঙ্খ ঘোষ -দেজ
- ৬। বাংলা কাব্যে পাশ্চাত্য প্রভাবঃ উজ্জ্বল কুমার মজুমদার -দেজ
- ৭। বাংলা কাব্যের রূপ ও রীতিঃ ক্ষুদিরাম দাস -দেজ
- ৮। বাংলা লিখুন নির্ভয়ে লিখুনঃ পবিত্র সরকার -দেজ
- ৯। ভাষাপ্রেম ভাষাবিরোধঃ পবিত্র সরকার -দেজ
- ১০। বাংলা ভাষা পরিক্রমাঃ পরেশ চন্দ্র মজুমদার -দেজ
- ১১। মধ্যযুগের বাংলা সাহিত্যের তথ্য ও কালক্রমঃ সুখময় মুখোপাধ্যায় -ভারতী বুক স্টল
- ১২। সাহিত্য ও সমালোচনার রূপ-রীতিঃ উজ্জ্বল কুমার মজুমদার -দেজ
- ১৩। উপন্যাসের কথাঃ দেবীপদ ভট্টাচার্য -দেজ
- ১৪। বৈষ্ণব রস প্রকাশঃ ক্ষুদিরাম দাস -দেজ
- ১৫। চন্ডীদাস বিদ্যাপতিঃ শঙ্করীপ্রসাদ বসু-দেজ
- ১৬। কবি ভারতচন্দ্রঃ শঙ্করীপ্রসাদ বসু-দেজ
- ১৭। বাংলা সাহিত্যে কৃষ্ণ কথার ক্রমবিকাশঃ সত্যবতী গিরি-দেজ
- ১৮। বস্তুবাদী বাউলঃ শক্তিনাথ ঝা -দেজ
- ১৯। বাংলা ভাষার ইতিবৃত্তঃ ডঃ মুহম্মদ শহীদুল্লাহ -দেজ
- ২০। বাঙালি ও বাংলা সাহিত্যঃ আহমদ শরীফ -দেজ
- ২১। বাংলা মঙ্গলকাব্যের ইতিহাসঃ আশুতোষ ভট্টাচার্য -দেজ
- ২২। রামায়ণ প্রকৃতি পর্যাবরণ সমাজঃ ধুর্জটি প্রসাদ চট্টোপাধ্যায় -দেজ
- ২৩। রামায়ণ চরিতমালাঃ বিষ্ণুপদ চক্রবর্তী -দেজ

- ২৪।ভারতের শক্তি সাধনা ও শাক্ত সাহিত্যঃ ড. শশীভূষণ দাশগুপ্ত -দেজ
- ২৫।শাক্ত পদাবলী ও শক্তি সাধনাঃ জাহ্নবী কুমার চক্রবর্তী-দেজ
- ২৬।সাহিত্য সন্দর্ভঃ শ্রীশচন্দ্র দাশ -দেজ
- ২৭।সাহিত্য-শিল্প নন্দনতত্ত্বঃ ডঃ সুবোধ চৌধুরী-দেজ
- ২৮।রবীন্দ্রনাথের ছোটগল্প ও উপন্যাসঃ উপেন্দ্রনাথ ভট্টাচার্য-দেজ
- ২৯।বাংলা গল্প বিচিত্রাঃ নারায়ণ গঙ্গোপাধ্যায় -দেজ
- ৩০।রবীন্দ্রনাথের ছোটগল্পঃ প্রমথনাথ বিশী-দেজ
- ৩১।বাংলা উপন্যাসের কালান্তরঃ ড. সরোজ বন্দ্যোপাধ্যায়-দেজ
- ৩২।কালের প্রতিমাঃ অরুণকুমার মুখোপাধ্যায় -দেজ
- ৩৩।বঙ্কিম মানসঃ অরবিন্দ পোদ্দার -দেজ
- ৩৪।আধুনিকতা ও বাংলা উপন্যাসঃ ড.অশ্রু কুমার সিকদার-দেজ
- ৩৫।বাঙালি মেয়ের ভাবনা মূলক গদ্যঃ সুতপা ভট্টাচার্য-দেজ
- ৩৬।বাংলা প্রবন্ধ সাহিত্যের ধারাঃ ডক্টর অধীর দে -দেজ
- ৩৭।রবিরশ্মি (১ম ও২য়) চারুচন্দ্র ভট্টাচার্য -দেজ
- ৩৮।তারাক্ষরঃ হরপ্রসাদ মিত্র -দেজ
- ৩৯।গন জ্ঞাপন তত্ত্ব ও প্রয়োগঃ পার্থ চট্টোপাধ্যায় -দেজ
- ৪০।মধ্যাহ্ন থেকে সায়াহ্ন বিশ শতকের বাংলা উপন্যাসঃ ড. অরুণ কুমার মুখোপাধ্যায়
- ৪১।বঙ্গীয় নাট্যশালার ইতিহাসঃ ব্রজেন্দ্রনাথ বন্দ্যোপাধ্যায়-দেজ
- ৪২।ধ্রুপদী নন্দনতত্ত্বঃ প্লেটো অ্যারিস্টটলঃ সুখেন বিশ্বাস -দেজ
- ৪৩।কাব্য বিচারঃ সুরেন্দ্রনাথ দাশগুপ্ত -দেজ
- ৪৪।সংস্কৃতির ভাঙা সেতুঃ আখতারুজ্জামান ইলিয়াস -দেজ
- ৪৫।বাংলাদেশের সাহিত্য ও সংস্কৃতিঃ বিশ্বজিৎ ঘোষ -দেজ
- ৪৬।সংস্কৃত সাহিত্যের ইতিহাসঃ জাহ্নবী কুমার চক্রবর্তী-দেজ
- ৪৭।ইংরেজি সাহিত্যের ইতিহাসঃ শ্রীকুমার বন্দ্যোপাধ্যায় -দেজ
- ৪৮।ধ্রুপদী সংস্কৃত সাহিত্যের ইতিহাসঃ সুকুমারী ভট্টাচার্য -দেজ
- ৪৯।বাংলা সাহিত্যে সত্যজিৎ রায়ঃ ড. সুখেন বিশ্বাস -দেজ

- ৫০। আধুনিক হিন্দি সাহিত্য: গতি ও প্রকৃতি: বিপ্লব চক্রবর্তী-দেজ
- ৫১। হিন্দি সাহিত্যের ইতিহাস: রাম বহাল তিওয়ারি-দেজ
- ৫২। চাঁদ বণিকের পালা: শম্ভু মিত্র -এমসি সরকার এন্ড সন্স প্রাইভেট লিমিটেড
- ৫৩। কারাগার ও রাজপুরী: মন্মথ রায় -এস চক্রবর্তী এন্ড সন্স
- ৫৪। নাট্য সংগ্রহ: বাদল সরকার -বঙ্গীয় সাহিত্য সংসদ
- ৫৫। মায়ামৃদঙ্গ: সৈয়দ মুস্তাফা সিরাজ- দেজ পাবলিশিং
- ৫৬। রাসসুন্দরী দাসী আমার জীবন: শীতল চৌধুরী- প্রজ্ঞা বিকাশ
- ৫৭। শ্রী নীরদ চন্দ্র চৌধুরী নির্বাচিত প্রবন্ধ: ধ্রুব নারায়ণ চৌধুরী -আনন্দ পাবলিশার্স
- ৫৮। প্রসঙ্গ শাহ মুহম্মদ সগীর রচিত ইউসুফ জোলেখা: পার্শ্বনাথ রায়চৌধুরী - সাহিত্য ভারতী পাবলিকেশনস।
- ৫৯। দৌলত কাজী লোরচন্দ্রানী ও সতীময়না: দেবনাথ বন্দ্যোপাধ্যায়- সাহিত্য সংসদ
- ৬০। কাব্যজিজ্ঞাসা: অতুলচন্দ্র গুপ্ত- বিশ্বভারতী
- ৬১। শ্রী শ্রী চৈতন্য চরিতামৃত(কৃষ্ণদাস কবিরাজ কৃত); অধ্যাপক বিমলাকান্ত মুখোপাধ্যায় -প্রজ্ঞা বিকাশ
- ৬২। বাংলা ছড়া পরিক্রমা: বরুণকুমার চক্রবর্তী (সম্পাদিত)ঃ অক্ষর প্রকাশনী
- ৬৩। বাংলার প্রবাদ: সুদেষ্ণা বসাক ,আনন্দ পাবলিশার্স
- ৬৪। প্রবাদ প্রসঙ্গ: বরুণকুমার চক্রবর্তী (সম্পাদিত), অক্ষর প্রকাশনী

GOVT. GENERAL DEGREE COLLEGE, CHAPRA
DEPARTMENT OF ENGLISH
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9. Plautus. Pot of Gold. Tr. E.F. Watling. Harmondsworth: Penguin, 1965.
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11. Horace .The Satires of Horace and Persius. Tr. Niall Rudd. Penguin, 2005.
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	উত্তর-উপনিবেশবাদ ও মাকসবাদ	শোভনলাল দত্ত, রতন খাসনবিশ ও সৌরিন ভট্টাচার্য		
	অমর্ত সেন	জীবনযাত্রা ও অর্থনীতি	আনন্দ পাবলিশার্স প্রাইভেট লিমিটেড	
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