



OFFICE OF THE PRINCIPAL

NORTH BANK COLLEGE

(NAAC Accreditation Grade: B+)

P.O.-Ghilamara (Lakhimpur), Assam.

PIN- 787053

Ph.8011224891(M)

e-mail:- northbankcollege@gmail.com

NO. NBC/61/S.Govt./Q/2020

Dated. 02.03.2020

TENDER DOCUMENT

TENDER IN TWO BIDS-[Technical & Financial] SYSTEM FOR

- I) Electrical fittings, Gas connection, Water connections, Exhaust, and Emergency exits in Science Laboratory
- II) Working tables, Dark room, Balance floor and Furniture for Laboratories
- III) Laboratory Equipments supply and installation
- IV) Library books, Journals, Practical books and specimen charts etc.

To be constructed/Procured under Science Laboratory Grants sanctioned during 2018-19, Govt. of Assam

AT

NORTH BANK COLLEGE, GHILAMARA, ASSAM-787053

OFFICE OF THE PRINCIPAL



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North Bank College invites NIT/EOI in **two bid systems (Technical & Financial)** for following projects.

Sl No.	Project ID	Items	Amount
1.	NBC/SG/20/01	Electrical fittings, Gas connection, Water connections, Exhaust, and Emergency exits in Science Laboratory	2,00,000.00 (Two lakhs only)
2.	NBC/SG/20/02	Working tables, Dark room, Balance floor and Furniture for Laboratories	2,00,000.00 (Two lakhs only)
3.	NBC/SG/20/03	Laboratory Equipments supply and installation	5,00,000.00 (Five lakhs only)
4.	NBC/SG/20/04	Library books, Journals, Practical books and specimen charts etc.	1,00,000.00 (One lakh only)

DATE OF AVAILABILITY OF BIDDING DOCUMENT : 02.03.2020
LAST DATE OF BID SUBMISSION : 10 -03-2020 16.00 hrs.
TIME AND DATE OF OPENING OF TECHNICAL BIDS : 12-03-2020 100 .p.m
TIME AND DATE OF OPENING OF PRICE BIDS : 14-03-2020 1.00 p.m.
LATE AND DELAYED TENDER : Will not be accepted.
Venue of Bid Opening: Office of the Principal, North Bank College, Ghilamara, Assam.

The Technical bids will be opened in the presence of representatives of tenders, if any. **If the date of submission/opening happens to be a holiday, the bids shall be submitted/ opened next working day at the same time. Requests for postponement will not be entertained.**

The Principal reserves the right to change the opening time and date of the tender due to administrative reason by notifying the same on the website. The tender committee **reserves the right to accept any or all tenders either in part or in full without assigning any reasons thereof, provided considering the past supportive and helping records to the institution.**

Sd/-
Principal
North Bank College



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BID INSTRUCTION:

1. **Quotations will have to be submitted** in TWO Bids (Technical and Financial) are to be submitted concurrently.
2. Cost of Tender Paper Rs.300.00 in the form of DD in favour of the Principal, North Bank College from any Nationalised Bank payable at United Bank of India, Ghilamara branch, Assam.
3. Tender document may be downloaded from college website/ college office at working hrs.
4. Duly filled, signed and sealed quotation along with the related documents as directed in the instruction and Terms & Conditions is to be submitted to the Principal, North Bank College, Ghilamara, Assam **on or before the Bid Closing date.**
5. **The bid documents are not transferable** and the seal and signature of the authorized Official of suppliers/contractor must appear on all the papers and envelope submitted.
6. Corrigendum/Addendum in regards to terms and condition and technical specifications, if any, will be published/intimated in the College website.
7. All tender paper and supporting documents are to be submitted manually.
8. The address of the firm submitting the quotation, NIT number, supply and installation work to be done must appear distinctly on sealed covers.
9. Documents to be submitted :
 - i) **Tender Paper Fee (Demand Draft).**
 - ii) **Dealership /Service provider/Registered Supplier/Register contractor/ Book depot/ Book store certificate.**
 - iii) **Technical and Financial bid document.**
 - iv) **GST registration Certificate**
 - v) **PAN Card**
 - vi) **Trade license**
 - vii) **PFMS (Registration Preferred).**
10. State item and work to be done to be supplied in Annexure-I and Annexure-II (The name of the items/works are mentioned in the annexure-III)

TERMS AND CONDITIONS:

1. The **rates** quoted in the Price Bid should be on DOOR DELIVERY at North Bank College Ghilamara, Assam, as per details given in **Annexure-III**. Bidders shall indicate their rates in clear/visible figures as well as in words and shall not alter/overwrite/mark cutting in the quotation.
2. All the quoted equipments for laboratory must be supported with model number (if available), specifications and supported with technical literature. The work to be must supported with technical details. The list of book, Journal, specimen charts should supported with authors, publisher details and availability.

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3. The quoted rates should valid till supply and items should be warranted.
4. The quantity mentioned above may be increased or decreased (if necessary) at the time of order as per actual requirement.
5. All kinds of taxes (if any) must be clearly indicated in the quotation.
6. 100% payment will be made after submission of bill after executing the work acceptably.
7. Bidder should submit their quotation in the format mentioned in **ANNEXURE-I (Technical bid) and ANNEXURE-II (Financial bid)**.
8. The items should supplied within 30 (Thirty days) from the date of issue of formal purchase order.
9. The college will notify the successful bidder in writing, by registered letter or by email that its bid has been accepted.
10. The college reserves the right to accept or reject any or all the quotations without assigning any reason.

ANNEXURE-I (Format of Technical Bid)

Sl no	Item name	Specification/Description	Offered model	Company /Brand
1.				
2.				

ANNEXURE-II (Format of Financial/Price Bid)

Sl No.	Item name	Brand/model	No of Unit	Rate per unit (Rs)	Total without tax (Rs)	Tax (Rs)	Amount with Tax (Rs)

ANNEXURE-I (Format of Technical Bid) for books, journal and specimen charts

Sl no	Item name	Authors	Publisher	Availability

ANNEXURE-II (Format of Price Bid) for books for books, journal and specimen charts

Sl No.	Item name	No of Unit	Rate per unit (Rs)	Total without tax (Rs)	Tax (Rs)	Amount with Tax (Rs)

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ANNEXURE-III

Project ID: NBC/SG/20/01: Electrical fittings, Gas connection, Water connections, Exhaust, and Emergency exits in Science Laboratory

Department of Botany, North Bank College.

1. Electrical fittings
2. Running water connections
3. Gas connections
4. Labour charges

Department of Chemistry, North Bank College.

1. Electrical fittings and earthing.
2. Running water connections.
3. Gas connections.
4. Tiles on slabs.

Department of Physics, North Bank College.

1. Improvement of Darkroom.
(With electrification)

Department of Zoology, North Bank College.

1. Gas connection in laboratory .
2. Electrical fitting and earthing.
3. Fan – 5 (ceiling)
4. Water connection (repairing)

Project ID: NBC/SG/20/02: Working tables, Dark room, Balance floor and Furniture for Laboratories

Department of Botany, North Bank College.

Laboratory Accomodations:

- | | |
|---|---------|
| 1. Working Tables (Pucca slabs) | |
| 2. Wooden chairs with handles | 4 Nos. |
| 3. Almirah (Steel) (6ft x 6ft) with 5 slabs and 25 Boxes(slabs height 1.5 ft) lock system. | 1 No |
| 4. Steel Rack for chemicals and Reagents with 4 Shelves (5 x 4 ft ²) | 1 No |
| 5. Godrej (4 ft x 4ft) | 1 No |
| 6. Bookshelf with lock system | 1 No |
| 7. Working tables (Wooden) | 2 No |
| 8. Wooden stools | 12 Nos. |

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Department of Chemistry, North Bank College.

1. Stainless steel chair	03 Nos.
2. Wooden stool for lab	20 Nos.
3. Home town prime 3 door wooden almirah.	01 No
4. Metal slotted angle rack (12 x 24 inches plate)	02 No
5. Reagent keeping shelves	02 No
6. Almirah	01 No
7. Working tables and chair (Wooden)	04 No

Department of Physics, North Bank College.

1. Wooden Table(Broad size)	01 No.
2. Practical Desks (Feet broad)	05 Nos.
3. Wooden chair with handles	04 Nos.
4. Almirah	01 No.
5. Book shelves(5.5 Feets)	02 Nos.
6. Godrej (3 slabs)	02 No.
7. Computer Lab (Practical) (Small size)	01 No.

Department of Zoology, North Bank College.

1. Working table & chair – 4 pairs.
2. Tiles on slabs
3. Specimen keeping shelves.
4. Almirah - 2

Project ID: NBC/SG/20/03: Laboratory Equipments supply and installation

Department of Botany

Sl No.	Name of equipment	Qunty.
1.	Compound Microscope (Student)	10 pc.
2.	Simple Microscope	10 pc.
3.	Biolab Laboratory Mixer	01 pc.
4.	Herbarium Cabinet (With 12 Herbarium drower)	01 pc.
5.	Measuring Cylinder (50ml, 100 ml,250 ml, 500 ml, 1000ml)	4 pc each
6.	Petri dish (5 c.m., 7.5 cm)	90 pc (45 each)
7.	Watch glass	50 pc
8.	Funnels (Borosilicate) (7.5 cm, 10cm)	06 pc each
9.	Conical Flask(Borosilicate) 250 ml	10 pc
10.	Pesture pipette hard glass with Teat	6 pc
11.	Wash bottle with interchangeable stopper (500ml)	1 pc
12.	Beaker (Borosilicate) (50ml,100ml,250ml)	05 pc each
13.	Cork borer (set of 6)	01 set

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14.	Graduated pipette (Borosilicate) (1ml,2ml,5ml, 10ml,25ml)	02pc each
15.	Specimen jar screw neck with cap (10ml,20ml,250ml)	20pc,10pc and 10pc
16.	Black man's Apparatus (Borosil) complete set	02 set
17.	Haemocytometer	01 set
18.	Rubben Corks/stoppers(Size 0-18)	10pc each
19.	Pipette bulb eubbers(Small, Medium, large)	01 dozen each
20.	Portable paper Chromatography cabinet (Consisting of 8 units)	01 set
21.	Pocket P ^H meter (0-14/0.2PH)	02set
22.	Germination Box (Triple chamber)	02 set
23.	Micro- pipette (College grade) 50ml and 100ml	01 each
24.	Chromatographic chamber (Sissco brand)	02 Nos.
25.	Tripod Stand and wire gange with asbestos (Tripod-6'' x 3'',6'' x 4'',8'' x 4''+ Wiregange asbestos)	01 each, 01 dozen
26.	Test Tube holder	05 pc
27.	Spatula	05 pc
28.	Transparent Reagent bottle	10pc
29.	Test Tube Rack plastic	12pc
30.	Dissection Box (best quality) With stainless steel Instrument Rejor (IB instrument) Delux quality	02 No

Department of Physics, North Bank College.

Sl. No.	Name	Quantity
1	Newton's ring apparatus	5
2	Sodium vapour lamp	5
3	Sodium lamp jacket	5
4	Sodium lamp transformer	2
5	Hg- vapour lamp	5
6	Hg- vapour lamp jacket	5
7	Carey Foster's Bridge	5
8	Thevenin's theorem	5
9	Norton's theorem	5
10	Lissajous pattern	5
11	PNP -Transistor	5
12	NPN- Transistor	5
13	Millikan oil drop apparatus	5
14	He-Ne Laser	5
15	Op-amp 741 and 341	4 +4=8
16	Complete set of Angstrom's method of thermal conductivity	2

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Department of Chemistry, North Bank College.

Sl No.	Name of equipment	Qunty.
1.	SSU Laboratory water bath with 6 holes.	05 No.
2.	Melting point apartus	05No
3.	Borosilicate stalagmometer	10 Nos.
4.	Borosilicate desicator	03 No
5.	Borosilicate viscometer	10 No
6.	Magnetic stirrer	02 No
7.	Teflon coated magnetic stiuer bar (3 inch)	10 Nos.
8.	Silica crucible	06 Nos.
9.	Stop clock esal	01 No
10.	7 inch test tube holder	30 Nos.
11.	Burette	30 Nos.
12.	Burette stand	30 Nos.
13.	Test Tube	100 pc
14.	Test Tube stand	15 pc
15.	Measuring cylinder (100ml,50ml,25ml,10ml)	04 pc each
16.	Digital analytical balance	01 pc
17.	High Precision table top digital weighing balance	01 pc
18.	Conical flask(250ml,200ml)	30pc, 10pc
19.	Borosilicate glass round bottom flask. (250ml,100ml,50ml)	05 pc each
20.	Borosilicate beaker.(10ml,50ml,100ml,250ml,500ml)	10pc each
21.	Capillary tube	10pc.
22.	Dropper	20 Nos.
23.	Volumetric flask.(100ml,250ml,500ml)	10pc each
24.	Scissors (Small, Medium)	10pc each
25.	Spatula (small, big)	05 pc each
26.	TLC Shamber	05 pc
27.	Gloves	05 pairs
28.	Scalpel	10 pc
29.	Pipette (5ml,20ml,25ml)	20 pc Each
30.	Funnel	20 pc
31.	Mortor and pastle	05 pc.
32.	TLC plate	10 pc
33.	Centrifuge tube	20 pc
34.	Thermometer	05 pc
35.	Separating funnal	10 pc
36.	Wash glass	10 pc
37.	Platinum wire	05 pc
38.	Laboratory brush	20 pc

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Sl. No.	Name	Quantity
1.	<u>Permanent slides & specimens –</u> <i>Euglena, Amoeba, Paramecium, Sycon (T.S. & L.S.), Hyalonema, Euplectella, Spongilla, Obelia, Physalia, Millepora, Aurelia, Tubipora, Corallium, Alcyonium, Gorgonia, Metridium, Pennatulula, Fungia, Meandrina, Madrepora, slide of ctenophore, Fasciola hepatica, Taeniasolium, Ascaris lumbricoides.</i> Annelids - <i>Aphrodite, Nereis, Heteronereis, Sabella, Serpula, Chaetopterus, Pheretima, Hirudinaria.</i> Arthropods - <i>Limulus, Palamnaeus, Palaemon, Daphnia, Balanus, Sacculina, Cancer, Eupagurus, Scolopendra, Julus, Bombyx, Periplaneta, termites and honey bees.</i> Onychophora - <i>Peripatus</i> Molluscs - <i>Chiton, Dentalium, Pila, Doris, Helix, Unio, Ostrea, Pinctada, Sepia, Octopus, Nautilus.</i> Echinodermates- <i>Pentaceros/Asterias, Ophiura, Clypeaster, Echinus, Cucumaria and Antedon</i>	1 no. each
2.	<u>Slide</u> i) Various stages of mitosis ii) Various stages of meiosis. iii) Barr body in cheek cells.	2 no. each
3.	<u>Specimen</u> (i) Protochordata <i>Balanoglossus, Herdmania, Branchiostoma, Colonial Urochordata</i> Sections of <i>Balanoglossus</i> through proboscis and branchiogenital regions, Sections of <i>Amphioxus</i> through pharyngeal, intestinal and caudal regions. slide of <i>Herdmania</i> spicules (ii) Agnatha- <i>Petromyzon, Myxine</i> (iii) Fishes - <i>Scoliodon, Sphyrna, Pristis, Torpedo, Chimaera, Mystus, Heteropneustes, Labeo, Exocoetus, Echeneis, Anguilla, Hippocampus, Tetodon/ Diodon, Anabas, Flat fish</i> (iv) Amphibia- <i>Ichthyophis/Ureotyphlus, Necturus, Bufo, Hyla, Alytes, Salamandra</i> (v) Reptilia- <i>Chelone, Trionyx, Hemidactylus, Varanus, Uromastix, Chamaeleon, Ophiosaurus, Draco, Bungarus, Vipera, Naja, Hydrophis, Zamenis, Crocodylus.</i>	1 no. each

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4.	Permanent slides-	
	1) Mammalian skin, Cartilage, Bone, Spinal cord, Nerve cell.	2 no. each
	2) Mammalian Endocrine glands- Pituitary, Pancreas, Testis, Ovary, Adrenal, Thyroid and Parathyroid.	2 no. each
	1) Placoid scales –	10 piece
	2) Cycloid scales	10 piece
	3) Ctenoid scales -	10 piece
	4) developmental stages of frog :- Cleavage stages, blastula, gastrula, neurula, tail-bud stage, tadpole (external and internal gill stages) -	5 piece each
	5) developmental stages of chick :- Primitive streak (13 and 18 hours), 21, 24, 28, 33, 36, 48, 72, and 96 hours of incubation (Hamilton and Hamburger stages) -	5 piece each
	Instrument and apparatus:	
	1. P ^H Meter (Pocket)	2
	2. Dissection box	10
	3. Compound microscope	07
	4. Simple microscope	03
	5. Computer set (Desktop) with printer	01
	6. Bone cutter	02
	7. Electronic balance (0.001 gm, 1gm-600gm, and 500 gm to 3kg)	01 each
	8. RBC, WBC counting slide	5 each
	9. Glass bottle with stopper (100 ml, 300ml and 500ml capacity)	5 each
	10. Specimen jar (500 ml capacity)	20
	11. Micro pipette	5
	12. Mortar & pestle	4
	13. Binocular	5
	14. Camera – (digital DSLR)	1
	15. Centrifuge (1000 rpm.)- 1	1

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Project ID: NBC/SG/20/04: Library books, Journals, Practical books and specimen charts etc.

Department of Zoology

Sl. no	Name	Author	Publisher	Quantity
1	Biology of Non-Chordates(composite volume)(includes: non-Chordates, Cell Biology and Cytogenetic)	H.C. Negam	Vishal Publication	1
2	Biology of Chordates (composite volume) (includes: functional anatomy & Embryology, Animal Physiology ,Evolution & environment Biology)	H.C. Negam	Vishal Publication	1
3	Animal Physiology	H.C Negam	Vishal Publication	1
4	Evolution & environment Biology	H.C Negam	Vishal Publication	1
5	Cell Biology and Cytogenetic	H.C Negam	Vishal Publication	1
6	Zoological Atlas	H.C Negam	Vishal Publication	1
7	Zoological Practical (for BSC. 1 st year student)	Seema Singh	Vishal Publication	1
8	Zoological Practical Handbook-I (for BSC. 1 st year student)	Seema Singh	Vishal Publication	1
9	Animal distribution, Evaluation & Developmental Biology	P.C JAIN	Vishal Publication	1
10	Animal Physiology & Bio-Chemistry	H.R Singh & Neeraj Kumar	Vishal Publication	1
11	Ecology & Environment Science	H.R Singh & Neeraj Kumar	Vishal Publication	1
12	Elements of Development Biology	P.C Jain	Vishal Publication	1
13	Mammalian Endocrinology	B.N Yadav	Vishal Publication	1
14	Non-Chordate-I (sem-1) hons.	H.C Nigam & A.P Singh	Vishal Publication	1
15	Principles of Ecology (sem-I) Hons.	H.R Singh & Neeraj Kumar	Vishal Publication	1
16	Modern text book of zoology VERTEBRATES	R.L. KOTPAL	Rastogi Publication	1
17	Modern text book of Zoology Invertebrates	R.L. KOTPAL	Rastogi Publication	1
18	Organic evolution	R. L. Kotpal	Rastogi Publication	1
18	Mammalian Endocrinology	ASHOKE KUMAR BORAL	NCBA	1

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19	Ecology & Environment	P.D SHARMA	Rastogi Publication	1
20	Elements of BIOSTATISTICS	SATGURU PRASAD	Rastogi Publication	1
21	Economic Zoology	Shukla. Upadhyay	Rastogi Publication	1
22	Theory & Practice of Animal Taxonomy	V.C Hapoor	Oxford & IBH Publishing	1
23	A Text Book of Animal Histology	A.K. Berry	Emkay Publication	1
24	Principles of Ecology (including Practicals)	Manideep Raj	Kalyani Publication	1
25	Simplified Course on Parasitology and Immunology	Swapan Kumar Rej and Rekha Roy	NCBA	1
26	Textbook of Immunology, Microbiology & Parasitology	Amrit Arora	B.Jain Publisher	1
27	A text book of Genetics and Molecular Biology	Sabyasachi Raychoudhury	NCBA	1
28	Cell biology, Genetics, Molecular biology, Evolution and ecology	P.S. Verma and V.K. Agarwal	S. Chand Publication	1
29	Ecology and Environment	P.D. Sharma	Rastogi Publication	1
30	Fundamentals of Biochemistry	J. L. Jain	S. Chand Publicatio	1
31	Introduction to General Zoology	Chaki, Kundu and Sarkar	NCBA	1
32	Life Science in Tools and Techniques	P.S. Bisen and Shruti Mathur	CBS Publishers	1
33	Cell biology	Karabi Dutta and Mondeep Raj	Ashok Publication	1
34	Invertebrate Zoology	Rajesh kumar Shah, Santosh Kumar abujam	Mahaveer publications	1
35	Chordate embryology	P.S. Verma V.K. Agarwal	S. Chand Publication	1
36	Animal Physiology	A.K. Berry	Emkay publication	1
37	Elementary Biostatistics,	S. P. Biswas	M/S Triograph	1
38	Fundamentals of Ichthyology,	S. P. Biswas	Narendra Publishing House	1
39	Animal behavior	Reena Mathur	Rastogi publication	1
40	Evolution and behavior	Mathur, Tomar and Singh	Rastogi publication	1
41	Evolution	Ridley	Blackwell publishing	1
42	Limnology	Alexander	Mc Graw hill	1

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		Horne and Goldman	Science	
43	Invertebrate Zoology	Rupert and Barnes, R.D.	Hault Saunders International edition	1
44	Cell and Molecular biology: Concepts and Experiments	Karp, G.	John Wiley and Sons. Inc.	1
45	The life of Vertebrates	Young, J. Z.	Oxford university press	1
46	Vertebrates: Comparative anatomy, Function and Evolution	Kardon, K.V.	McGraw-Hill Higher education.	1
47	Genetics-A molecular Approach	Russell, P.J.	Benjamin Cummings	1
48	Practical Zoology Invertebrates	S.S. Lal	Rastogi Publication	1
49	A manual of Practical Zoology Chordates	P.S. Verma	S. Chand Publication	1
50	Text book of biology for class -XI and XII (Assamese and English)		NCERT	1 copy each
50	Practical Zoology	K.C. Ghose and E. Manna	New Central Book Agency (P) Ltd.	1
51	Journal of Fisheries and Aquatic Science (One Year subscription)			1 copy
	Specimen charts of Zoology			5

Department of Botany

Sl. No.	Name	Author	Publisher	Quantity
1.	A text of of Biotechnology	Dubey R.C.	S. Chand & Co. New Delhi	2
2.	A text book of Fungi and their Allies	Sethi,I.K. & Walia S.K.	Mc.Milan Publisher	2
3.	A text of Botany (Vol-1)	Hait, Battacharya & Ghose	NBCA	2
4	A text of Morphology and Taxonomy Angiosperms.	Dr. Akhil Boruah.		2
5	A text Book of Plant Ecology including Ethnobotany and Soil science	Shukla and Chandel	S. Chand	2
6	A text book of Fungi, Bacteria and Virus.	Dube H.C.		2

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7	Text Book on Plant Physiology	Malik C.P. & Srivastava A.K.		2
8	Biotechnology, B.Sc. Edition	Sing B.D.		2
9	A text Book on Plant Physiology, Biochemistry and Biotechnology,	S.K. Dr. Verma and Verma Mohit	S.Chand	2
10	A text Book of Botany for B.Sc. 1st Year.	Satish Kumar		2
11	B.Sc. Botany for degrees students(CBCS), B.Sc.2 nd Semester(Plant Ecology and Taxonomy)	B.P. Pandey		2
12	Botany for Degree Students,B.Sc.III(CBCS) (Plant Anatomy and Embryology)	B.P. Pandey	S. Chand	2
13	Botany for Degree students,Biochemistry,B.Sc. Sem.-I(CBCS)	B.P. Pandey	S.Chand	2
14	An Introduction to Embryophyta,Bryophyta Vol.-I	N.S. Parihar	Central Book Dept. Allahabad	2
15	Pteridophyta-S.Chand Delhi, India.(2010)	Vashishta, Sinha and Kumar		1
16	Gymnosperms,New age International(P) ltd.	Sp Bhatnagar & A. Moitra		1
17	Bioinformatics,Sequence and Genome analysis 2nd edition	Devid W. Mount		1
18	Introduction to Biophysics for Graduate and Post-Graduate students, (Revised Ed.)	Dr.Pranb Kr. Benajee	S.Chand	2
19	Mycology and Phtopathology B.Sc. II sem. Honours Botany	Dr. Swapnil yadav.	Mahabeer publication	2
20	Studies in Botany (Vol.-1) as per	Mitra, Mitra & Chowdhari		1
21	Studies in Botany (Vol.-2) as per	Mitra, Guha and Chawdhuri		1
22	Flora of assam(Vol-I,II,III,IV,V)	Kanjilal, Kanjilal and Das		1set
23	Mycology and Phtopathology B.Sc. II sem. Honours Botany	Dr. B.P. Pandey	Mahabeer publication	1
24	Plant Physiology	Pandey and sinha		1
25	Cell and Molicular Biology	S.C. Rastogi		1
26	Biomolecules and cell Biology	P.K.Gupta		2

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27	Plant Anatomy	Dr. B.P. Pandey	S.Chand	2
28	Biological Instrumentation and Methodology	P.K. Bajpai		2
29	A text of Botany	Singh, Pande and Jain		1
30	A text Book of Botany Vol.-II	Bhattacharya, Hait and Ghose	NCBA	1
31	Genetics	P.K. Gupta		1
32	Specimen Charts of Botany			5
33	Journal of Botany			1

Department of Chemistry

Sl. No.	Name of Books and Publisher	Author	Publisher	Quantity
1.	Organometallic chemistry, A Unified Approach-2nd edition	R.C. Mehrotra		2
2.	A text of Physical Chemistry	Negi & S.C. Anand	Wiley eastern	2
3.	Physical Chemistry, Oxford University	P.W. Atkins		2
4	Principles of Physical Chemistry.	Puri, Sharma, Pathania, Shoban Lal	S.Chand & Co	2
5	Inorganic chemistry	J.D.Lee		2
6	Advance Inorganic Chemistry	Satyaprekesh, Bane, Tuli		2
7	Organic reaction Mechanism	Mukharjee and singh		2
8	General Inorganic Chemistry (Part-I & Part-II)	R.Sarkar		2
9	Selected Topics in Inorganic Chemistry	Malik, Tuli and Madan		2
10	Text Book of Organic Chemistry	P.S. Kalsi		2
11	Quantum Chemistry	R.K. Prasad		2
12	Quantum Chemistry	B.K.Sen		2

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13	Physical Chemistry	Levine		2
14	Biochemistry (VI edition)	Berg,J.M.Tymoczko, J.L. And Stryer		2
15	Manual of Biochemistry workshop, 2012		Department of Chemistry, University of Delhi.	1
16	Introduction quantum Chemistry	A.K. Chandra.		1
17	A text Book of quantitative Inorganic Analysis.	Vogel,Arthur		1
18	New trands in Green Chemistry	V.K. Athuwalia & M.K. Kidwai	Anamalya publisher	2
19	Data Analysis for Chemistry.	Hibbert, D.B. & Gooding,J.J.		2
20	Computational Chemistry.	Errol Lewars, Khewer	Academic publisher.	1
21	Industrial Chemistry	E.Stocctri,Vol.-1,	Ellis horwood Ltd. UK	1
23	Journal			1
24	Specimen charts of Chemistry			5

Department of Physics

Sl no	Name	Authors	Publisher	Quantity
1	Classical Mechanics, Goldstein	D. C ayal		1
2	Nuclear and Particle Physics			1
3	Solid State Physics	Puri and Babbar		1
4	Thermodynamics and Statistical	R. K. Patharia		1
5	Quantum Mechanics	Griffith		1
6	Atomic and Molecular Physics	R. Kumar		1
7	Digital Electronics	Malvino and Leach		1
8	Mathematical Physics	H. K. Dass		1
9	Advanced Engineering Mathematics	Erwin Kreyszig		1
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11	Electronic devices and	Boylested		1

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	circuit theory			
12	Mathematical Methods for Physicists	G.B. Arfken, H.J. Weber, F.E. Harris	Elsevier	1
13	Mathematical methods for Scientists and Engineers	D.A. McQuarrie	Viva Book	1
14	Introduction to Numerical Analysis	S.S. Sastry	PHI Learning Pvt. Ltd.	1
15	Numerical Recipes in C: The Art of Scientific Computing	W.H. Press et al	Cambridge University Press	1
16	A first course in Numerical Methods	U.M. Ascher & C. Greif	PHI Learning	1
17	Feynman Lectures	R.P. Feynman, R.B. Leighton, M. Sands	Pearson Education	1
18	Introduction to Special Relativity	R. Resnick	John Wiley and Sons.	1
19	University Physics	Ronald Lane Reese	Thomson Brooks/Cole	1
20	A Text Book of Practical Physics	I. Prakash & Ramakrishna	Kitab Mahal	1
21	Engineering Practical Physics	S. Panigrahi & B. Mallick	Cengage Learning India Pvt. Ltd	1
22	Electricity, Magnetism & Electromagnetic Theory	S. Mahajan and Choudhury	Tata McGraw	1
23	Electricity and Magnetism	Edward M. Purcell	McGraw-Hill Education	1
24	Introduction to Electrodynamics	D.J. Griffiths	Benjamin Cummings	1
25	Feynman Lectures Vol.2	R.P. Feynman, R.B. Leighton, M. Sands	Pearson Education	1
26	Engineering Practical Physics	S. Panigrahi and B. Mallick	Cengage Learning	1
27	A Laboratory Manual of Physics for undergraduate classes	D.P. Khandelwal	Vani Pub	1
28	Principles of Optics	Max Born and Emil Wolf	Pergamon Press	1
29	The Physics of Waves and Oscillations	N.K. Bajaj	Tata McGraw Hill	1
30	Fundamental of Optics	A. Kumar, H.R.	R. Chand	1

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		Gulati and D.R. Khanna	Publications	
31	Fourier Analysis	M.R. Spiegel	Tata McGraw-Hill	1
32	Partial Differential Equations for Scientists & Engineers	S.J. Farlow	Dover Pub.	1
33	Complex Variables	A.S. Fokas & M.J. Ablowitz	Cambridge Univ. Press	1
34	A Guide to MATLAB	B.R. Hunt, R.L. Lipsman, J.M. Rosenberg	Cambridge University Press	1
35	Simulation of ODE/PDE Models with MATLAB®, OCTAVE and SCILAB: Scientific and Engineering Applications	A.V. Wouwer, P. Saucez, C.V. Fernández	Springer	1
36	Scilab by example	M. Affouf		1
37	Scilab Image Processing	Lambert M. Surhone	Betascript Publishing	1
38	A Treatise on Heat	Meghnad Saha, and B.N. Srivastava	Indian Press	1
39	Thermal Physics	S. Garg, R. Bansal and Ghosh	Tata McGraw-Hill	1
40	Modern Thermodynamics with Statistical Mechanics	Carl S. Helrich	Springer	1
41	Fundamentals of Digital Circuits	Anand Kumar	PHI Learning Pvt. Ltd.	1
42	Digital Circuits and systems	Venugopal	Tata McGraw Hill.	1
43	Digital Systems: Principles & Applications	R.J. Tocci, N.S. Widmer	PHI Learning	1
44	Microprocessor Architecture Programming & applications with 8085	R.S. Goankar,	Prentice Hall	1
45	Modern Digital Electronics	R.P. Jain	Tata McGraw Hill	1
46	Complex Variables and Applications	J.W. Brown & R.V. Churchill	Tata McGraw-Hill	1
47	Concepts of Modern Physics	Arthur Beiser	McGraw-Hill	1
48	Introduction to Quantum Mechanics	David J. Griffith	Pearson Education	1
49	Quantum Mechanics: Theory & Applications	A.K. Ghatak & S. Lokanathan	Macmillan	1

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50	Basic ideas and concepts in Nuclear Physics	K.Heyde	Institute of Physics Pub	1
51	Integrated Electronics	J. Millman and C.C. Halkias	Tata Mc-Graw Hill	1
52	Semiconductor Devices: Physics and Technology	S.M. Sze	Wiley India	1
53	Quantum Mechanics	G. Aruldas	PHI Learning of India	1
54	Schaum's outline of Programming with C++.J	Hubbard	McGraw-Hill Publication	1
55	Elements of Solid State Physics	J.P. Srivastava	Prentice-Hall of India	1
56	Elementary Solid State Physics	M. Ali Omar	Pearson India	1
57	Solid State Physics	M.A. Wahab	Narosa Publications	1
58	Introduction to Solid State Physics	Charles Kittel	Wiley India Pvt. Ltd	1
59	Introduction to Solid State Physics	Charles Kittel	Wiley India Pvt. Ltd	1
60	Statistical Physics	Berkeley Physics Course, F. Reif	Tata McGraw-Hill	1
61	Statistical and Thermal Physics with computer applications	Harvey Gould and Jan Tobochnik	Princeton University Press	1
62	Classical Mechanics	P.S. Joag, N.C. Rana	McGraw Hall	1
63	Introduction to Measurements & Instrumentation	A.K. Ghosh	PHI Learning Pvt. Ltd	1
64	Introduction to PSPICE using ORCAD for circuits & Electronics	M.H. Rashid	PHI Learning	1
65	An introduction to Astrophysics	Baidyanath Basu	Hall of India Private limited	1
66	The Physical universe: An introduction to astronomy	F.Shu	Mill Valley: University Science Books	1
67	Indian Journal of Physics			1
68	Specimen charts of physics			5