

OFFICE OF THE PRINCIPAL  
DHAKUAKHANA COLLEGE  
DHAKUAKHANA, LAKHIMPUR  
ASSAM, INDIA.

PHONE: 9401120216 / 9365590446 / 8011372808

WEBSITE: [www.dhakuakhanacollege.ac.in](http://www.dhakuakhanacollege.ac.in)

EMAIL ID: principaldhakuakhanacollege@gmail.com

**TENDER DOCUMENT**

(Includes both Technical & Financial bid documents)

Name of Works:

**NIQ No A:** Supply of Departmental Laboratory Equipments

**NIQ No B:** Supply of Computers for Computer Lab.

Issued To :

M/s.....

.....

.....

Ph/Mb No.....

Signature of the issuing authority with seal

Table of Contents:

1. Tender Notification
2. Eligibility criteria
3. Terms and Conditions
4. Instruction for submission of Tenders
5. Earnest money Deposited
6. Bid Evaluation Criteria
7. Declaration

PART-A (Technical Bid)

PART-B (Financial Bid)

## TENDER NOTICE

Sealed quotations are invited affixing non-refundable court fees stamp of Rs. 8.25 (Rupees Eight and twenty five paisa only) in 2 (Two) bids (Technical bid & Financial/Price bid) are invited from reputed firms/suppliers under RUSA 2.0 for supplying (i) Supply of Departmental Laboratory Equipment for Anthropology, Botany, Chemistry, Physics, Zoology (ii) Supply of Computers for Computer Lab. Visit college website: [www.dhakuakhanacollege.org](http://www.dhakuakhanacollege.org) / *ac.in* for details.

### IMPORTANT DATES:

#### **BID REFERENCE**

**Date of issue of Tender documents**

**Closing date and time submission of bids**

**Date, time & place of opening the documents**

#### **DATE & TIME**

**15-11-2019 to 25-11-2019**

**25-11-2019**

**28-11-2019 at 11-00 a.m.**

The details of the supply materials to be done is as follows:

Sl. No.	Project ID	Name of Supply Materials	Token Earnest money (Refundable)	Cost Tender Paper (Non refundable)	Cost of Tender Value
1	2.0/C-8472/03/459	Lab Equipments	@2%	Rs.1000/-	Rs. 20,00,000.00
2	2.0/C-8472/03/458	Computers (Desktop)	@2%	Rs.1000/-	Rs. 5,00,000.00

Sd/- Dr. J. N. Sut  
Principal  
Dhakuakhana College  
Dhakuakhana, Lakhimpur  
Email: [principaldhakuakhanacollege@gmail.com](mailto:principaldhakuakhanacollege@gmail.com)

# Tender Notification

DHAKUAKHANA COLLEGE

Dhakuakhana, Lakhimpur

Pin-787055

Rashtriya Uchcharat Siksha Abhiyan

Mobile No : 9401120216, website : [www.dhakuakhanacollege.ac.in](http://www.dhakuakhanacollege.ac.in)

Email ID : [principaldhakuakhanacollege@gmail.com](mailto:principaldhakuakhanacollege@gmail.com)

## NOTICE INVITING QUOTATIONS (NIQ)

Particulars	Details
Name of Work	<b>NIQ No A:</b> Supply of Departmental Laboratory Equipments <b>NIQ No B:</b> Supply of Computers for Computer Lab.
Details of Contact Persons for Clarification/quarries	Mr. Prasanta Gogoi Co-ordinator  RUSA, Dhakuakhana College, Dhakuakhana, Lakhimpur, Assam Mobile No- 8011372808 Email : <a href="mailto:praparugogoi1@gmail.com">praparugogoi1@gmail.com</a> OR Dr. J. N. Sut Principal Dhakuakhana College, Dhakuakhana, Lakhimpur, Assam Mobile No-9401120216 Email : <a href="mailto:principaldhakuakhanacollege@gmail.com">principaldhakuakhanacollege@gmail.com</a> <a href="mailto:Jnsut09@gmail.com">Jnsut09@gmail.com</a>
Mode of Tendering	<ol style="list-style-type: none"><li>1. Details Terms and Conditions can be obtained /downloaded from the college website <a href="http://www.dhakuakhanacollege.ac.in">www.dhakuakhanacollege.ac.in</a> Hard copy can be obtained from College Office during the office hours. Tender paper can also be downloaded from the official website but Challan / Draft /Deposit Receipt must be submitted with Tender Documents.</li><li>2. Tenders have to be submitted in the College office during the office hours.</li><li>3. The bidders have to submit the sealed tenders by affixing non refundable Court fee stamps of Rs. 8.25 (Eight rupees and twenty five paisa only)</li><li>4. The bidders must have to submit their tenders separately in every group of NIQ. Both The bids, Technical and Financial should be submitted separately.</li></ol>
Cost of Tender documents	Rs.1000/- for each NIQ
No. of Covers	1.Technical Bid 2. Financial Bid
Estimated Tender (Approx)	

1. Items included in Annexure-VIII 2. Items included in Annexure-IX	1. Supply of Departmental Laboratory Equipments 2. Supply of Computers for Computer Lab.
<b>Token Earnest Money Deposited (EMD) (Refundable)</b>  1. Items included in Annexure-VIII 2. Items included in Annexure-IX	Token Earnest Money Deposited (EMD) (Refundable) 2% for each NIQ
Date of Publishing Tender	15-11-2019
Website for obtaining / Downloading Tender Documents Etc	<a href="http://www.dhakuakhanaco.lege.ac.in">www.dhakuakhanaco.lege.ac.in</a>
Last date of Pre Bid queries	20-11-2019
Starting date and time of Bid submission	15-11-2019
Closing date and time of Bid submission	25-11-2019 at 4-00 p.m.
Opening date and time of Technical Bid and Financial Bid	28-11-2019
Address where Tenders are to be opened	Principal Dhakuakhana College, Dhakuakhana, Lakhimpur, Assam
Venue for opening Technical and Financial Bid	Office of the Principal, Dhakuakhana College, Dhakuakhana, Lakhimpur, Assam.

### 1. ELIGIBILITY:

1. The Vendors should have the experience of supply of laboratory equipments/Computers to colleges/universities, and should have the experience of supply of any one of the above item to any institutions at least last three years.
2. Application for tender must include attested certificate copies of valid GST, Income Tax, Professional Tax, Trade License, Pan Card and credential for works done.
3. No quoted price above the cost of work mentioned will be accepted.
4. No extra cost will be borne by the college.
5. The rate should be quoted both in figures as well as in words.
6. No extension of time will be allowed.

7. Payment will be made in favour of the selected bidder as per RUSA guidelines on successful completion of the works and observation of necessary formalities as the authority deems fit from time to time as per RUSA norms.
8. Since the entire work will be financed from RUSA Project Grant, payment will be made as per RUSA guideline
9. The successful bidder has to start the work within five days from the date of issue of work order.
10. Acceptance of the lowest tender is not obligatory and the undersigned reserves the right to accept or reject any or all the tenders without assigning any reason.
11. The eligible Bidders have to face the project monitoring committee of RUSA in order to negotiate and know the details of the proposed supply work.
12. Tender papers have to be collected from office of the undersigned within stipulated dates as mentioned below on showing necessary documents as mentioned and payment of non-refundable tender paper fees in the form of DD in favour of The Principal, Dhakuakhana College payable at Dhakuakhana. Tender paper can also be downloaded from the official website but Challan / Draft /Deposit Receipt must be submitted with Tender Documents.
13. Token earnest money at the rate of 2% percent of total amount has to be deposited in the form of DD in favour of Principal, Dhakuakhana College payable at Dhakuakhana.
14. Eligible bidders may be present at the time of opening of financial bid.
15. The firms/suppliers are requested to submit copies of the following documents along with the Technical Bid, failing which their Bids shall be rejected and shall not be further considered:-
  - a) Copy of Earnest Money Deposit (EMD)
  - b) Copy of PAN/GIR card, GST registration certificate
  - c) Copy of work experience of similar work during last three years
  - d) Original Tender document duly signed with seal of the firm on each page in token of acceptance of the terms and conditions of the tender.
16. Self declaration that the bidder has not been barred by any PSU / Govt. Department in doing business with them.
17. Schedule
  - (a) Date of issuing tender : 15-11-2019
  - (b) Last date of submission of sealed tender : 25-11-2019
  - (c) Tentative Date & time of opening tender : 28-11-2019 at 11-00 a.m.

Note : In case the said date/s, happen to be a holiday for any reason, the activity will be held on the immediate next working day at the same time & place & as a consequence any change/s in the date/s of the subsequent activities will be informed through suitable media to all concerned. Selection of the agency will be at the sole discretion of the competent authority of the Dhakuakhana College who reserves its right to accept or reject any or all the proposals without assigning any reasons. The tender documents for the above work can be obtained from the office of the Principal, Dhakuakhana College, Dhakuakhana, Lakhimpur, or can also be downloaded from [www.dhakuakhanacollege.ac.in](http://www.dhakuakhanacollege.ac.in)

Sd/-  
Principal  
Dhakuakhana College  
Dhakuakhana, Lakhimpur, Assam

## 2. TERMS AND CONDITIONS:

1. The list of equipments are to be submitted in hard and soft copies (in excel format) mentioning Sl.No, Name, Prices and offered discounts against each items. Bidders must submit on prescribed Annexures only.
2. The contract is to commence from the date of award of contract to the firm and shall continue for the period of six months, unless it is curtailed or terminated by Dhakuakhana College owing to deficiency of service or supply of substandard quality of materials.
3. **Submission of OEM authorization is must for every product of Laboratory equipment, Computers and Sports equipment.**
4. The contract shall automatically expire after six months from commencements of the contract unless extended further by the mutual consent of contracting firm and Dhakuakhana College.
5. The contract may be extended on the same terms and conditions or with some additions/ deletions/ modifications and on satisfactory performance, for a further period of three months with mutual consent.
6. The contracting firm shall not be allowed to transfer, assign, pledge or sub-contracts rights and liabilities under this contract to any other company/ farm/ agency etc.
7. The contracting firm will be bound by the details furnished by the firm to Dhakuakhana College, while submitting the tender or at subsequent stage. In case, any of such documents furnished by the firm is found to be false at any stage, it would be deemed to be a breach of terms of contract making the firm liable for legal action besides termination of contract.
8. Financial bids of only those firms that are technically qualified shall be evaluated.
9. Dhakuakhana College reserves the right to terminate the contract during initial period after giving a week's notice to the firm.
10. All expenses for sending the items supplied to Dhakuakhana College, Dhakuakhana Lakhimpur, Pin 787055, Assam should be borne by the firm.
11. The rates quoted shall remain same during the rate contract period and no request for any increase in the rates shall be entertained during the period of the contract
12. The owner / supplier/ firm should be available on his/ her own direct telephone (office as well as residence) and also on mobile phone so that he/ she may be contacted immediately in emergency cases.
13. Before award of contract, all original documents will be checked by the authority of Dhakuakhana College and at that time attested photo copies are required to be furnished.
14. Dhakuakhana College shall not be responsible for any financial loss or other injuries to any person deployed by the contracting firm in the course of their performing the duties to Dhakuakhana College in connection with the supply of items.
15. In case of breach of contract by the vendor, Dhakuakhana College shall have the authority to cancel/ terminate the contract, besides forfeiting the Security Deposits.
16. It may specifically be mentioned whether quotation is strictly as per tender specifications/ conditions. Deviation in any form will not be accepted.
17. Dhakuakhana College reserves the right to accept or reject any bid or cancel the tender proceeding without assigning any reason whatsoever.

18. The contract shall be subject to Lakhimpur Jurisdiction. This document and the contract or job award letter issued as a result of the tender process shall be interpreted in terms of Indian law.
19. All disputes arising out of this contract shall be settled amicably by Dhakuakhana College and the contractor. In the event of failure to reach amicable settlement, the same shall be settled by an Arbitrator appointed by Dhakuakhana College as per the provisions contained in Arbitration and Conciliations Act 1956.
20. The terms and conditions of Rastriya Uchchar Siksha Abhijan (RUSA) will be followed and implemented strictly.
21. The terms and conditions of Public Financial Management System (PFMS) will be followed in case of all financial transaction issues.
22. The successful Bidder (s) must sign an agreement with the Authority of the Dhakuakhana College regarding the contract and supply of materials as well.
23. The Contractor will be responsible for supply/installation/refilling/maintenance of all such /chemicals/items/equipments/machineries, etc., used in various facilities of the college.
24. No advance payment will be made, payment will be made only after successful completion of works and receipt of the materials in good conditions.
25. The list of items may change (either increase or decrease) depending on the availability of fund as well as requirement.
26. In case of lab requirement the supplier must supply branded items maintaining the brand name of the company.
27. In case of supply of laboratory equipments performance security Deposit @5% of the total amount will be collected from the successful bidders and the same will be refunded after completion of 01 (one) year.
28. The supplied items (equipments/Computers) must be accompanied by performance guarantee certificate.
29. The earnest money shall be refunded to all the unsuccessful Contractors without any interest after finalization of the contract. EMD shall be refunded to the successful Contractor on receipt of performance security deposit. No interest is payable on the EMD to either the successful Contractor or the unsuccessful Contractor. Exemption from payment of EMD is applicable as per the existing law if accompanied by the relevant orders/instructions issued by the appropriate authorities.
30. All entries in the tender form should be legible and filled clearly. Any overwriting or cutting which is unavoidable shall be signed by the authorized signatory. Any alterations without authentication will be treated as a 'NIL' entry.
31. The Contractor may quote for all or any facilities. However, tender in respect of each facility should be complete in all respects failing which the bid shall be considered non-responsive.
32. Tender incomplete in any form will be rejected outright. Conditional tenders will also be rejected outright.
33. The closing date and time for receipt of tenders will be as detailed elsewhere in this tender document.
34. The technical bid shall be opened at a date & time as specified elsewhere in this tender document in presence of the authorized representatives of the Contractor, who wish to be present at that time. All the technical bids will be scrutinized, relevant documents checked for their authenticity and the Contractor whose technical tenders are accepted will participate in the financial bids on date & time as stipulated elsewhere in this tender document.
35. In case the successful bidder declines the offer of contract, for whatsoever reasons(s), his EMD will be forfeited.
36. The Contractor shall enter into a formal contract with the College within three days from the date of receipt of intimation of their selection. They shall further get prior approval of the draft copy of the agreement from the college.
37. Each page of the tender document should be signed and stamped by authorized representative of the contractor as a token of acceptance of the terms and conditions laid down by the college.

38. The competent authority of college reserves the right to withdraw/relax any of the terms and conditions mentioned above, under such circumstances the Contractor will be given adequate time to take the changes into account.
39. The competent authority of the college reserves it's right to reject all or any tender in whole, or in part or cancel the entire tender process, without assigning any reason thereof.

### **3. INSTRUCTIONS FOR SUBMISSION OF TENDERS:**

1. The Contractors are required to submit two separate Bids i.e. Technical and Financial as per prescribed proforma. The two bids should be submitted in two separately sealed envelopes super scribed 'TECHNICAL BID FOR SUPPLYING LABORATORY EQUIPMENTS/ COMPUTERS FOR COMPUTER LAB IN DHAKUAKHANA COLLEGE. Both sealed envelopes should be put in a third sealed envelope super scribed 'TENDER FOR SUPPLYING LABORATORY EQUIPMENTS /COMPUTERS FOR COMPUTER LAB IN DHAKUAKHANA COLLEGE, DHAKUAKHANA, LAKHIMPUR'.
2. The bidder shall bear all the costs associated with the preparation & submission of the bid. The purchaser in any case will not be responsible or liable to these costs regardless of the conduct of the bidder process.
3. The persons deployed by the supplier should have requisite educational qualification, experience & skills for carrying out the assigned maintenance task.
4. The supplier should ensure the health & satisfy of the deployed staff.
5. The financial bid of only those Contractors who qualify in technical bid evaluation by the concerned committee shall be opened. The financial bids of all those Contractors who have failed to qualify in the technical bid will not be opened under any circumstances.
6. The declaration in the prescribed proforma should be enclosed with the Technical Bid.
7. The Technical Bid should be accompanied by an Earnest Money Deposit (EMD) as notified elsewhere in the document in the form of DD/Bankers' Cheque for Earnest Money Deposit drawn on issued by any nationalized Bank drawn in favour of 'Principal, Dhakuakhana College' payable at Dhakuakhana, Lakhimpur.
8. The Bidders are requested to visit office website frequently.
9. The Bidders can submit the tender either by post or by submitting in the box provided in the college in the following address-

To  
The Principal  
Dhakuakhana College  
Dhakuakhana, Lakhimpur  
Pin-787055, Assam

### **4. EARNEST MONEY DEPOSITED:**

Technical Bid must be accompanied by DD/Bankers' Cheque for Earnest Money Deposit drawn on any Nationalized Bank in favour of The Principal, Dhakuakhana College. EMD shall be valid for a maximum period of 90 days from the closing date (original ) of the tender. Quotation submitted without EMD shall be summarily rejected.

The DD/Bankers' Cheque in physical form duly sealed in envelop super scribed with "DD towards EMD and Tender Document cost for the tender No.....for supplying

LABORATORY EQUIPMENTS/COMPUTERS FOR COMPUTER LAB IN DHAKUAKHANA COLLEGE” shall be dispatched/ submitted at the office of the Principal, Dhakuakhna College at the address mentioned below.

To  
The Principal  
Dhakuakhana College  
Dhakuakhana, Lakhimpur  
Pin-787055, Assam

#### **5. BID EVALUATION CRITERIA:**

1. In the first instance the Technical Bids shall be opened by the Authority of Dhakuakhana College in the presence of representative of Bidders, if available.
2. The date and time of the Technical Bids and Financial Bids is given for all.
3. The Bidders may depute their representatives for the opening of the Bids.
4. The Technical Bids will then be evaluated by the Dhakuakhana College internally.
5. Once the Technical Bids are accepted, the Financial Bids of the vendors (whose Technical Bids have been accepted) shall be opened.
6. If any vendors so desires, it may depute its representative for Financial Bid opening event also.
7. The decision of the Principal, Dhakuakhana College shall be final and binding.
8. The terms and conditions of Rastriya Uchatar Shiksha Abhijan (RUSA) will be followed and implemented.
9. The terms and conditions of Public Financial Management System (PFMS) will be followed in case of all financial transaction issues.

DECLARATION

I.....  
son/daughter of Shri ..... Proprietor  
/ Partner / Director / Authorized Signatory  
of.....I am Competent to sign this  
declaration and execute this tender document.

I have carefully read and understood all the terms and conditions of the tender and hereby convey my acceptance of the same.

The information/documents furnished along with the above application are true and authentic to the best of my knowledge and belief. I/We/am/are well aware of the fact that furnishing of any false information/fabricated document would lead to rejection of my tender at any stage. Besides liabilities towards prosecution under appropriate law.

Date :  
person

Signature of authorized

Place :

Full Name :

(Company's Seal)

N.B. The above declaration, duly signed and sealed by the authorized signatory of the company should be enclosed with Technical tender.

**ANNEXURE-IV**

**TENDER DOCUMENT**

Name of Work: Supply of Laboratory equipments for Lab.  
**PART-A : TECHNICAL BID**

Issued to :

M/S.....  
.....  
.....

Ph/Mb No.....

Signature of the issuing authority with seal

Brief description of the firm

1. Sl. No. :
2. Name of the Firms :
3. Name of owner/Partner/Directors :
4. Full particulars of office :
  - (a) Address :
  - (b) Telephone No. :
  - (c) Fax No. :
  - (d) E-mail ID :
5. Full particulars of the bankers of the farm :
  - (a) Name of the Bank and Branch :
  - (b) Account type :
  - (c) Account No. :
  - (d) IFSC :
6. Registration details : (Self attested copies of all Certificates/Licenses/Permits/Registrations etc. should be enclosed failing which the application is liable to be rejected outright)
  - a. PAN/GIR No. :
  - b. GST Registration No. :
  - c. Service tax registration No. :
  - d. EPF registration No. :
  - e. ESI registration No. :
  - f. Labour License issued under the Contract Labour Act., 1970 :
7. Details of Earnest Money Deposited :
  - a. Amount :
  - b. DD No. and Date :
  - c. Drawn on bank :
  - d. Valid up to :

The above format may be used to provide requisite details.

Additional information, if any.

Date :

person

Place :

(Company's Seal)

Signature of authorized

Full Name :

**ANNEXURE-V**

TENDER DOCUMENT  
Name of Work: Supply of Computer  
PART-A : TECHNICAL BID

Issued to :

M/S.....  
.....  
.....

Ph/Mb No.....

Signature of the issuing authority with seal

Brief description of the firm

1. Sl. No. :
2. Name of the Firms :
3. Name of owner/Partner/Directors :
4. Full particulars of office :
  - (a) Address :
  - (b) Telephone No. :
  - (c) Fax No. :
  - (d) E-mail ID :
5. Full particulars of the bankers of the firm :
  - (a) Name of the Bank and Branch :
  - (b) Account type :
  - (c) Account No. :
  - (d) IFSC :
6. Registration details : (Self attested copies of all Certificates/Licenses/Permits/Registrations etc. should be enclosed failing which the application is liable to be rejected outright)
  - a. PAN/GIR No. :
  - b. GST Registration No :
  - c. Service tax registration No. :
  - d. EPF registration No. :
  - e. ESI registration No. :
  - f. Labour License issued under the Contract Labour Act., 1970 :
7. Details of Earnest Money Deposited :
  - a. Amount :
  - b. DD No. and Date :
  - c. Drawn on bank :
  - d. Valid up to :

The above format may be used to provide requisite details.

Additional information, if any.

Date :  
person  
Place :  
(Company's Seal)

Signature of authorized  
Full Name :

**Annexure VI**

*FINANCIAL BIDS*

*Price Schedule: A (Supply of Laboratory Equipments)*

Sl. No	Items Name/Description	Brand with Model	Quantity	Unit Rate	Total Cost	Discount	Others (if any)	Actual Cost
1	List enclosed in Annexure-II							

Signature of the authorised signatory with seal of the tendering firm/company/agency

Date :

Place:

Signature

Full Name

Designation & Seal

Address

**Annexure VII**

*FINANCIAL BIDS*

*Price Schedule: C (Supply of Computers)*

Sl. No	Items Name/Description	Brandwith Model/Specifications	Quantity	Unit Rate	Total Cost	Discount	Others (if any)	Actual Cost
1	List enclosed in Annexure IV							

Signature of the authorized signatory with seal of the tendering firm/company/agency

Date :

Place:

Signature

Full Name

Designation & Seal

Address

**Annexure IX**

Computers

1. Desktop Core i5/4GB/1TB/19 inch monitor/wifi/Bluetooth/ Windows 10
2. UPS + Anitivirus (For each Computer)

**Annexure-VIII**  
**List of Equipments**

1. Department of Anthropology:

<b>Sl. No.</b>	<b>Name of the equipment</b>	<b>Qty.</b>
01.	Sliding Caliper (Martin type)	06
02.	Sliding Caliper (Poech type)	01
03.	Spreading Caliper (Rounded end)	06
04.	Spreading Caliper Pointed end)	05
05.	Anthropometer (0-210 cm.)	05
06.	Attachable Goniometer (Mollision type)	02
07.	Pelveometer	02
08.	Cubic Craniophore	04
09.	Tublar Craniophore	04
10.	Horizontal tracing needle	04
11.	Mandibulometer	01
12.	Diagraph (Martin type – pencil holder)	02
13.	Head circumference measuring tape	09
14.	Finger and palm printing pad	03
15.	Skin fold calliper (Harpenden type to assess degree of fatness 25mm )	02
16.	Steel tape (3 meter length - Freeman)	10
17.	Osteometric Board	03
18.	PTC test Kit	02
19.	Ishihara colour blindness test chart(Indian)	01
20.	Ishihara colour blindness test chart(Japan Made)	01
21.	Weighing machine (Manual)	02
22.	Infantometer	01
23.	Blood Pressure Monitor (Automatic)	01
24.	Blood Pressure Monitor (Manual)	01

<b>Sl. No.</b>	<b>Name of the Tools</b>	<b>Qty.</b>
01.	Core Scraper (big)	01
02.	Core Scraper (small)	01
03.	Hand Axe (big) – lower Palaeolithic	02
04.	Hand Axe (small) – lower Palaeolithic	02
05.	Cleaver (big)	01
06.	Cleaver (small)	01
07.	Biconcave Scraper	01
08.	Scraper (big)	02
09.	Scraper (small)	02
10.	Borer (big)	01
11.	Borer (small)	01
12.	Bone Awl(big)	01
13.	Bone Awl (small)	01
14.	Burin	02
15.	Knife - 1	01
16.	Knife – 2	01
17.	Knife - 3	01
18.	Blades	04
19.	Spearhead (big)	01
20.	Spearhead (small)	01
21.	Hand Axe (big) – middle Palaeolithic	01
22.	Hand Axe (small) – middle Palaeolithic	01
23.	Shouldered Celt (big)	01
24.	Shouldered Celt (small)	01
25.	Polish Celt – 1	01
26.	Polish Celt – 2	01
27.	Polish Celt – 3	01
28.	Polish Celt – 4	01
29.	Adze – 1	01
30.	Adze – 2	01
31.	Harpoon (set of six)	01
32.	Bone needle (set of nine)	02
33.	Willow leaf point	01
34.	Laurel leaf point	01
35.	Ring Stone	01
36.	Tortoise Core (big)	01

37.	Tortoise Core (small)	01
38.	Chisel – 1	01
39.	Chisel – 2	01
40.	Baton De Commandment (single hole)	01
41.	Baton De Commandment (double hole)	01

2. Botany:

SL. NO.	A. Equipments/Requirements	Model	Qty
01	B M Student Microscope Olympus H S A Pattern	BMLE-6	5
02	B M Advanced Research and Medical Microscope	BMLE-8	1
03	B M Student Microscope : Movable Condensor	BMLE-24	1
04	B M Advanced Research and Monocular Microscope	BMLE-25	1
05	B M Universal Phase Contrast cum Dark-Field/ Bright Field Binocular Research Microscope	BMLE-14	1
06	B M I S I Marked Dissecting Microscope	BMDM-3	3
07	Microscope Accessories		
a	Camera Lucider(Mirror Type)	BMMA-6	1
b	Camera Lucider(Prism Type)	BMMA-4	1
c	Eye Piece (Imported)-5x/10x/15x	BMMA-16	2
d	Spare Objectives 10x	BMMA-21	3
e	Spare Objectives 45x(Imported)	BMMA-21	2
f	Reflector Mirror	BMMA-22	5
g	Microscope Stage Clips ( 66 Pairs)	BMMA-29	5
h	Pointer Eye Piece (Imported)15x,10x,5x	BMMA-30	5
i	Micrometer Eye Pices (imported)10mm divided I 100 divns.	BMMA-33	3
j	Stage micrometer objective (imported)1mm divided into 90 divns.	BMMA-37	2
k	Ocular micrometer disc	BMMA-40	3
l	Lens Cleaning Paper,(100 sheets,per books)	BMMA-214	5
m	Lens Cleaning solution (per bottle Rs. 55)	BMMA-45	5
n	Plastic Covers for Microscope	BMMA-50	10
08	Delux -Mini Cleaning and Repair Kit	BMCR	1
09	BM Crane Magnifier(4")	BMMF-10	2
10	Heamocytometer	BMPHA-7	1
11	Hygrometer	BMGEM-9	1
12	Thermometer with Alarm Clock Digital	BMGEM-7	1
13	Thermo-Baro-Hygrometer	BMGEM-2	1
14	Rain Gauge Self Recording	BMGEM-14	1
15	BM Soil Testing Kit	BMSW-1	1
16	BM Digital Ph Meter	BMCEI-1	1
17	BM Lux Meter	BMCEI-7	1
18	Digital Spectro Photo Meter (Double Display)	BMCEI-17	1
19	BM Digital BOD Incubator (170litre)	BMEA-43	1
20 (a)	Electronic Balance (Digital) Model -EC-600,Capacity-600gm, Resolution-0.01gm(10 mg)	BMLB-2	1

(b)	Craft Herbarium Cabinet Catalogue (B-22)2008-09 'Bicroft' (Scientific System (P) Ltd.)	BWE-20	1
21	BM Micro Prepared Slide Cabinet	BMWE-1	1
22	BM Staining Rack	BMWE-29	3
23	Lawn Mower( Grass Cutting Machine)-16"	BMGT	1
24	24Twig Cutter(Secateur) Imported	BMGT	2
25	Falcon Garden Tools (Set of 11 tools)	BMDHF-15	1
26	Soil Thermometer (6")	BMGE-88	1
27	Psychrometer Whirling( Range : 20 - 120 F)	BMGE-93	1
28	Stop Watch Electronic( Imported) ( German/ England)	BMGE-99	1
29	Filter Paper ( cm)	BMGE-104	2
30	Blotting Paper ( 46 x 58 cm) 100 sheets	BMGE-108	2
31	Stainless Steel Laboratory Tray without Cover ( 12' x 10")	BMMS-2	3
32	BM Chromatography Cabinet ( Research Grade) , Small size ( 16"x16"x9")	BMCA -2	1
33	Apparatus For Determining The Quality of Water Absorbed and Given Off	BMP-31	3
34	Potometer GaNong's	BMP-47	3
35	Darwin Potometer	BMP-53	3
36	Potometer	BMP-57	2
37	Normal Light Screen	BMP-66	2
38	Ganongs's Respirometer	BMP-86	2
39	Apparatus For the Determining of Respiratory Quotient	BMP-113	2
40	Apparatus for Collecting The Oxygen Produced by Assimilating Water Plants	BMP-137	3
41	Lever Auxanometer ( Arc Indicator)	BMP-143	1
42	Apparatus to Show the quality measurement of Catalases activity with stand and clamp	BMP-149	2
43	Laboratory Ware : -		
i	Beakers ( Graduated)		
	Capacity : - 25ml( Rs 22) 50 ml( Rs,22), 100 ml(Rs. 24), 150 ml( Rs.24) , 250 ml(Rs. 29), 500 ml(Rs.48), 1000ml(Rs.92) - 2 Each	BMGW-2A	2
ii	Flask Conical (Graduated)		
	Capacity : - 50 ml, 100ml, 150 ml, 250 ml, 500ml, 1000ml ( Five Each)	BMGW-9A	5
iii	Pestle Morter ( Size- 15 cm) 2 nos.	BMGW-18	2
iv	Funnel 60° Angle Diameter - 5cm( Rs.21) , 10cm( Rs. 47), 15cm(Rs. 94) ( 5 Each )		5 5 5
v	Measuring Cylinders( Graduated) Capacity :- 10 ml(39x2), 25ml(67x2), 50ml ( 71 x 2 ), 100ml ( 91 x2) , 250 ml (116 x2), 500ml (158 x 2) , 1000ml ( 215 x 2 ) ( Rate x Qnty)	BMGW-14	2-each
vi	Petridishes Diameter -	BMGW-15	

	5 cm ( 45 x 3 ), 7.5 cm (54 x 3 ), 10 cm (63x 3 ) ( Rate x qnty ), 12.5 cm ( 89 x 3 ), 19 cm ( 144 x 2 ) ( Rate x Qnty)		3-each					
vii	Specimen Jar ( Gas Jar)	BMGW-22	10-each					
	<table border="0"> <tr> <td style="text-align: center;"><u>size (us)</u></td> <td style="text-align: center;"><u>m</u></td> </tr> <tr> <td>20 x 7.5</td> <td>245 x 10 =2450</td> </tr> <tr> <td>25 x 7.5</td> <td>290 x 10=2900</td> </tr> <tr> <td colspan="2">( 10 EACH)</td> </tr> </table>			<u>size (us)</u>	<u>m</u>	20 x 7.5	245 x 10 =2450	25 x 7.5
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20 x 7.5	245 x 10 =2450							
25 x 7.5	290 x 10=2900							
( 10 EACH)								
viii	Watch Glasses ( Fine Quality & Ground ? Edged? )	BMGW-31	2-each					
	Capacity : - 2"(60 x2 ),2.5" ( 80 x2), 3"(122 x 2 ), 4 " (178 xz 2 ) (Rate x Qnty)( Rs. Per Dozen)							
ix	BM Pestles and Mortars:	BMPW-4	2-each					
	Inner Diameter : 200mm ( Rs. 320 x 2)							
44	3M' Medico Centrifuge	BMEA-29	1					
45.A	Delux Tripod Stand( Triangular)	GMGE-21	5-each					
	150 x 100mm( 90 x 5), 200 x 100 mm( 100 x 500) ( Rate x Qnty) ( 5 each)							
B	Crucible Trungs? ( Nickel Plates) :	GMGE-22	5-each					
	6"(Rs. 25 x 5), 8" ( Rs, 35 x 5 ) (5 Each)							
C	Beakers/ Flask Tongs ( Stainless Steel) ( 3 nos.)	GMGE-24	3-each					
D	Wire Gauge with Asbestos : 6" x 6" ( Rs.130 x 5)	BMGE-26	5-each					
46	Super Star Circular Cover Slips : 18mm/ 20 mm ( Rs. 21 x 20 Pkts.)	BMSC-10	20-pkts.					
47	Slides : Super Delux - 75 x 25 x 1 mm( Rs. 56 x 20 pcs.)	BMIA-4	21-pkts					
48	Dissection Box ( Set of 17 instruments) Delux Quality	BMDI-9	1					
49	Dropping Bottles : Capacity - 60ml ( Rs.23 x 10)	BMPW-7	10-pkts.					
50	Reagent Bottles( Narrow Mouth)	BMPW-9	5-each					
	Capacity : 60 ml( Rs. 17 x5), 125ml ( Rs. 22 x5)							
51	Test Tube Stand ( Rs. 31 x 5)	BMPW-61	5-nos.					
52	Grading Tray ( Rs. 100 x 5)		5-nos.					

3. Department of Chemistry:

SL No.	Name of equipments	Quantity
1	pH meter	3 nos
2	Hot plate	2 nos
3	Water bath 12 holes with multisize lid	1 no.
4	Centrifuse mechine	1 no.
5	Digital balance (0.001)	1 no.
6	Heating mentle	5 nos.
7	Distillation unit	1 no.
8	Burrete stand (poly)	2 nos
9	Stand for pipette (vertical)	2 nos
10	Test tube stand	12 nos
11	Tripod stand	15 nos
12	Tongs	10 nos
13	Tongs for ot beaker	5 nos
14	Melting point apparatus	2 nos.
15	Buckner funnel	5 nos
16	Atomic model (copmlete set)	1 no.
17	Crystal model	5 nos
18	Magnetic stirrer with hot plate	3 nos
19	TLC jar	4 nos
20	Polarimeter	2 nos
21	Soil-water analyser	1 no.
22	Decicator	2 nos
23	Blow pipe	10nos
24	Conductivity meter	3 nos
25	Refrigerator	1 no.
26	Soxhlet apparatus (whole set)	1 set
27	Filtration set with pump	1 set
28	Thermostate	1 no
29	Flame photometer (whole set)	1 set

## 4. Department of Physics:

**LIST OF LABORATORY EQUIPMENTS**  
**Department of Physics, Dhakuakhana College. (Page: 01/01).**

Sl. No.	Apparatus	Qty.
01.	Travelling Microscope	02
02.	Capillary tube	5pkts
03.	Apparatus to determine the moment of inertia of a flywheel	04
04.	Searle's apparatus to determine Elastic constants	03
05.	Multimeter	04
06.	R.C. circuit apparatus	02
07.	L-C-R circuit bridge	02
08.	De' Sauty's Bridge	02
09.	Low resistance	04
10.	Carey Foster's Bridge	02
11.	Battery Eliminator (Avidity)	03
12.	Thevenin's & Norton's theorem proof apparatus	02
13.	Fresnel's Biprism Apparatus (Research type)	01
14.	Mercury lamp with induction coil & Transformer	01
15.	Searle's thermal conductivity apparatus	0
16.	Electric heater	02
17.	Electric drier	01
8.	Measuring cylinder	06
19.	Beaker (Marked with scale)	06
20.	Clement & Desorms apparatus	02
21.	Callender & Barne's apparatus for mechanical equivalent of heat	01
22.	Planck's constant determination apparatus (PCA-01) using LED	02
23.	Stefan's constant determination apparatus (OSAW)	01
24.	Cauchy's constant determination apparatus	01
25.	Apparatus to test a diode & transistor by multimeter	01
26.	Apparatus to design a switch (NOT gate) using transistor	01
27.	Apparatus to design AND/NOT/XOR gates by NAND gates	01
28.	Apparatus to design a combinational logic system for a specified truth table	01
29.	Apparatus to convert Boolean expression in to logic circuit & design using logic gate ICS	01
30.	Half adder and Full adder	02
31.	Half and Full Subtractor	02
32.	Apparatus to study V-I characteristics of PN-junction diode & LED	02
33.	Apparatus to study V-I characteristics of a Zener diode- its use as a voltage divider	02
34.	Apparatus to study the characteristics of a BJT in CE configuration	01
35.	He-Ne LASER source	01
36.	Laboratory-spectrometer (Hals shade)	02
37.	Single slit	02
38.	Double slit	02
39.	Prism for spectrometer	02
40.	Semiconductor LASER source	01

5. **Department of Zoology**

Sl. No.	Name of the Equipments/ Instruments	Quantity
1	Compound microscope (Olympus) Erma pattern	12
2	Phase construst microscope (Radical 1500 X Professional)	1
3	Advansced microscope	1
4	Aarson kymograph, complete with Aceessories	1
5	Personal Weighing Machine (Superior quality)	1
6	Animal Weighing Balance (Capacity 10 Kg)	1
7	Simple micriscope	6
8	Microtome Erma Japan	1
9	Heating mentle	1
10	Dissecting microscope	1
11	Binocular compound microscope	1
12	Water bath (12 holes)	1
13	Pen type pH meter	1
14	Rain gauge (Standard)	1
15	Haemocytometer	5
16	Haemoglobinometer	1
17	Sphygomanometer :	1
	(i) Mercurry	1
	(ii) Digital	1
18	Incubator (BOD) Special feature	1
19	Oven	1
20	Centrifuse (Ultra) with timer	1
21	Rangefinder	1
22	Compus	1
23	Spotting scope	1
24	Thermo hygrometer	1
25	Stop clock	1
26	Binocular (Prisom type) (Made in Japan)	1
	(i) Normal Vision	1
	(ii) Night vision	1
27	Distilled water plant (3 litres capacity)	1
28	Chromatography chamber (Rectomgular, Glass or Fiber made) Size : 16 ft. x 12ft. x 9 ft.	2
29	Dissecting tray (with wax) 14ft. x 12ft. x 3ft.	40

30	(i) Scissor (Straighty) Stainless steel 5 inch.	2
	(ii) Scissor (Pointed) stainless steal 4 inch.	2
	(iii) Scissor (Curved and pointed) Stailless steel 4 inch.	2
31	(i) Forceps (Pointed) 5inch.	2
	(ii) Forceps (blunt) 5inch.	2
32	(i) Tissue Forceps	2
	(ii) Fine tissne forceps	2
	(iii) Fine points forceps	2
33	Needle (fine)	4
34	Scalpel (Stainless steel)	2
35	Medical grade Disscction box - supirior instruments	1
36	Wall thermometer (Maximum-minimum)	1
37	Bone cutter (Stainless steel)	4
38	Chromatography Sprayer	2
39	Spreading board	10
40	Insect capturing net	4
41	Plankton Net	4