

Memorandum of Agreement (MoA)

(For DBT Twining Project)

Between

Department of Biotechnology

Ministry of Science and Technology

Government of India

New Delhi



सत्यमेव जयते

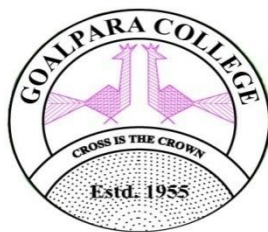
DEPARTMENT OF BIOTECHNOLOGY
GOVERNMENT OF INDIA

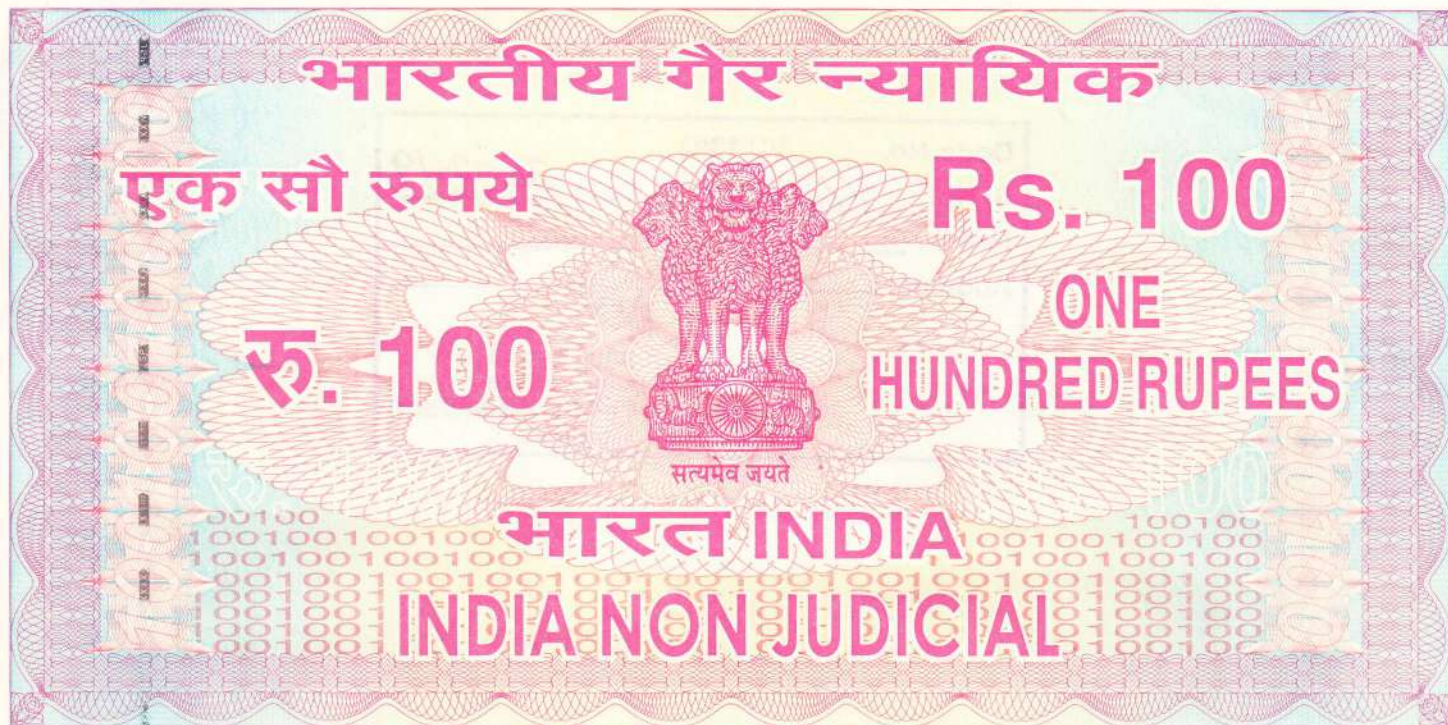
And

Goalpara College

Goalpara-783101

Assam





असम ASSAM

MEMORANDUM OF AGREEMENT

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This MEMORANDUM OF AGREEMENT is made on this Sixteenth day of October Two thousand and Nineteen BY AND BETWEEN President of India, acting through, Adviser, Department of Biotechnology, Ministry of Science and Technology, Government of India, New Delhi, hereinafter referred to as the 'DBT' (which expression unless excluded by or repugnant to the subject shall mean and include its successor-in-office and assigns) of the ONE PART;

AND

Goalpara College, a society under the Societies Registration Act – 1860, having its registered office in/at Agia Road, Goalpara-783101, Assam, hereinafter referred to as Goalpara College (which expression shall where the context so admits include its successors and permitted assigns) of the OTHER PART;

WHEREAS DBT being desirous of release a grant under DBT's twinning program for NE decided to support a project submitted by Dr. Dulal Chandra Boruah, Goalpara College for the attainment of the objectives, hereinafter described in the Annexure I annexed hereto;

This Memorandum of Agreement (MoA) defines the role and responsibilities of the participating agencies, monitoring and other matters related to the "Evaluation of antioxidant and anti-hyperlipidemic property of few selected medicinal plants used by the tribal population of Goalpara district, Assam"

NOW THE PARTIES HERETO AGREE AS FOLLOWS:-

1.0 . ROLE OF DEPARTMENT OF BIOTECHNOLOGY, NEW DELHI

To provide funds to the extent of Rupees Twenty Eight Lakhs Seventy Seven Thousand One Hundred and Twenty Only over a period of three years from the date of sanction of the project, to 18/09/2022 for undertaking activities as detailed in Annexure 1. Details of the funds to be provided are given in Annexure II.

2.0. ROLE OF GOALPARA COLLEGE

- 2.1. To provide their contribution of Zero for Three years from date of sanction of the project as detailed in Annexure – II. *(if a jointly supported project)*
- 2.2. To provide existing facilities as mentioned in the project document.
- 2.3. To be responsible for accomplishing objectives identified and activities listed.
- 2.4. To allow the Scientists authorized by DBT to work with the Research & Development team of the center in all stages of process development and production.
- 2.5. To recruit all scientific and non-scientific staff as sanctioned by DBT.
- 2.6. To prepare and submit all periodical reports and other documents that would be required by DBT.
- 2.7. To maintain a separate audit head of account for the grants received from DBT for the project.
- 2.8. To submit an annual audited statement of expenditure incurred under the project.
- 2.9. To ensure effective utilization of the grant given by DBT for the purpose for which it was granted and to ensure timely progress of project work.
- 2.10. The manpower, both scientific and non-scientific, recruited shall be purely on contractual terms & conditions such that the contract for engagement of the manpower shall run concurrently with the said project period only.

3.0 DURATION OF PROJECT

- 3.1 Duration of project shall be three years from the date the Project has been sanctioned by DBT.

4.0 RIGHTS OF OWNERSHIP/TECHNOLOGY TRANSFER AND UTILIZATION

- 4.1 The know-how generated from the project by Goalpara College will be the joint property of Goalpara College and DBT, Government of India. It shall be the responsibility of Goalpara College to take necessary action for protection of the intellectual property arising out of the PROJECT through proper instruments, such as, patents, copy rights, etc.
- 4.2 The know-how developed may be transferred to other entrepreneurs on a non-exclusive basis on such terms and conditions as may be determined by DBT.
- 4.3 All the assets including the equipment and produce acquired will be the property of DBT and shall not be utilized for purposes other than those for which the grant has been sanctioned. The rights of Goalpara College under this MoA shall not be transferred to any other party without prior approval in writing of DBT.
- 4.4 It shall be the responsibility of PI to ensure that support of DBT is suitably acknowledged in the publications (papers, reports, etc.) arising out of the PROJECT.

5. SECRECY

It is hereby agreed that the participating agencies shall keep information and data collected completely secret provided that the right to transfer the technology shall rest with the DBT.

6. MONITORING

- 6.1 The progress of implementation of the project and proper utilization of grant shall be reviewed by the DBT and by the Monitoring Committee set up by DBT.
- 6.2 The periodic progress of physical achievements and the utilization of funds, statement of expenditure shall be evaluated by the Monitoring Committee.
- 6.3 The Comptroller and Auditor General of India, at his discretion shall have the right of access to the books and accounts of Institute (Goalpara College) for the grants received from DBT for this project.



6.4 The DBT may terminate the grant at any stage if it is convinced that the grant has not been properly utilized or appropriate progress has not been made. In the event, DBT terminates the grant, Goalpara College, shall hand over all documents including technical details and equipment purchased related to the project.

7.0 DURATION OF MEMORANDUM OF AGREEMENT

This MoA will remain in force for the duration of the project and until all claims are settled between DBT and Goalpara College.

8.0 ARBITRATION

In the event of any question, dispute or difference whatsoever arising between the parties to this Agreement out of or relating to the construction, meaning, scope, operation or effect of this Agreement or the validity of the breach thereof shall be referred to an Arbitrator to be appointed by mutual consent of both the parties herein. If the parties cannot agree on the appointment of the Arbitrator within a period of one month from the notification by one party to the other of existence of such dispute, then the Arbitrator shall be nominated by the Secretary, Department of Legal Affairs, Ministry of Law & Justice, Government of India. The provisions of the Arbitration and Conciliation Act, 1996 will be applicable and the award made there under shall be final and binding upon the parties hereto, subject to legal remedies available under the law. Such differences shall be deemed to be a submission to arbitration under the Indian Arbitration and Conciliation Act, 1996, or of any modifications or reenactments thereof.



9.0. GOVERNING LAW

This Contract shall be governed by the Law of India for the time being in force.

IN WITNESS WHEREOF the parties hereto have signed, sealed and delivered this Agreement on the day, month and year first above written in presence of:

Witnesses:

Signed by -----

1.

(Designation)

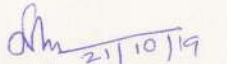
2.


For and on behalf of The President of India

Witnesses:

Signed by-

1.

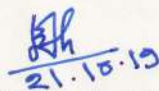

21/10/19
(Dr. S. Rao)


(Subhash Barman)

Principal,

Goalpara College

Principal & Secretary
Goalpara College, Goalpara

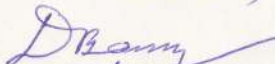

21.10.19
(Dulal Chandra Boruah)

Coordinator and PI

Goalpara College

Coordinator & F,
DBT Twinning Project

2.


21/10/19

For and on behalf of

Goalpara College

94,95

Admin. Order
Appl. No. MAP/2017/80

No. BT/PR25613/NER/95/1266/2017
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY
(NER-BPMC)

Block 2, 6-8th Floors
CGO Complex, Lodhi Road,
New Delhi- 110 003
Dated: 18/09/2019

ORDER

Sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers Rules, 1978, for the implementation of the project entitled: "Evaluation of antioxidant and anti-hyperlipidemic property of few selected medicinal plants used by the tribal population of Goalpara district, Assam." for a period of 3 Year 0 Month at a total cost of Rs. 4817360 (Rupees Forty Eight Lakhs Seventeen Thousand Three Hundred and Sixty Only) on the terms and conditions detailed here under:-

2 The Project :

2.1 Title : "Evaluation of antioxidant and anti-hyperlipidemic property of few selected medicinal plants used by the tribal population of Goalpara district, Assam."

2.2 Details of the Investigations:

Project Coordinator

Dr. DULAL CHANDRA BORUAH

Assistant professor
Botany department, Goalpara College,
Goalpara-783101, Assam

Principal Investigators:

Dr. DULAL CHANDRA BORUAH

Assistant professor
Botany department, Goalpara College,
Goalpara-783101, Assam

Dr. RAJLAKSHMI DEVI

Associate professor
Life science
Institute of advanced study in science &
technology
Life science division, IASST, Paschim
Boragaon
Guwahati-781035, Assam

CO-PI:

Dr. ARUNDHUTI DEVI

Associate Professor - I
Resource Management and Environment
Institute of Advanced Study In Science &
Technology
Vigyan Path, Paschim Boragaon
P.O.- Garchuk, Guwahati, Assam,
Guwahati - 781035, Assam

Dr. DHARMESWAR BARMAN
Assistant Professor
Botany department
Botany department, Goalpara College,
Goalpara-783101, Assam

2.3 Objectives:

Overall Objectives:

1. To investigate the in vitro antioxidant activity and phytochemical screening of five different species of Clerodendrum (Clerodendrum inerme, Clerodendrum indicum, Clerodendrum japonicum, Clerodendrum viscosum and Clerodendrum chinese) used by the tribal population of Goalpara, Assam.
2. To investigate the in vivo antioxidant and anti-hyperlipidemic activity of potential three Clerodendrum species out of five different species of Clerodendrum (Clerodendrum inerme, Clerodendrum indicum, Clerodendrum japonicum, Clerodendrum viscosum and Clerodendrum chinese) in different hyperlipidemic animal model.

Institute wise Objectives:

Goalpara College, Goalpara

1. To investigate the in vitro antioxidant activity and phytochemical screening of five different species of Clerodendrum (Clerodendrum inerme, Clerodendrum indicum, Clerodendrum japonicum, Clerodendrum viscosum and Clerodendrum chinese) used by the tribal population of Goalpara, Assam.

INSTITUTE OF ADVANCED STUDY IN SCIENCE & TECHNOLOGY

1. To investigate the in vivo antioxidant and anti-hyperlipidemic activity of potential three Clerodendrum species out of five different species of Clerodendrum (Clerodendrum inerme, Clerodendrum indicum, Clerodendrum japonicum, Clerodendrum viscosum and Clerodendrum chinese) in different hyperlipidemic animal model.

2.4 Time Schedule:

The duration of the project is 3 Year 0 Month from the date of this sanction order.

2.5 Project Cost:

The total cost of the project is Rs. **4817360/-** (Rupees Fourty Eight Lakhs Seventeen Thousand Three Hundred and Sixty Only) as per details given below :

Institute	Year I	Year II	Year III	Total Cost(Rs.)
1. Goalpara College, Goalpara	1486760	686760	703600	2877120
2. INSTITUTE OF ADVANCED STUDY IN SCIENCE & TECHNOLOGY	656520	621520	662200	1940240
Total (Rs.)	2143280	1308280	1365800	4817360

Vandali

Institute wise details are:

Budget Head	Year I	Year II	Year III	Total(Rs.)
1. Goalpara College, Goalpara				
Equipment	700000.00			700000.00
Manpower	401760.00	401760.00	453600.00	1257120.00
Overhead	35000.00	30000.00	35000.00	100000.00
Travel	50000.00	40000.00	40000.00	130000.00
Consumables	270000.00	180000.00	140000.00	590000.00
Contingency	30000.00	35000.00	35000.00	100000.00
Total (Rs.)	1486760.00	686760.00	703600.00	2877120.00
2. INSTITUTE OF ADVANCED STUDY IN SCIENCE & TECHNOLOGY				
Manpower	431520.00	431520.00	487200.00	1350240.00
Overhead	35000.00	30000.00	35000.00	100000.00
Travel	30000.00	30000.00	30000.00	90000.00
Consumables	125000.00	100000.00	75000.00	300000.00
Contingency	35000.00	30000.00	35000.00	100000.00
Total (Rs.)	656520.00	621520.00	662200.00	1940240.00

2.6 Equipment:

The details of the equipment sanctioned for the implementation of the project at
Annexure-I

2.7 Manpower:

The details of the manpower sanctioned for the implementation of the project at
Annexure-II

3. Head of Account:

The Non-Recurring expenditure involved is debitable to:

Demand No. 87	Department of Biotechnology
3425	Other Scientific Research 2019-2020
3425.60	Others (Sub Major Head)
3425.60.200	Assistance to other Scientific Bodies (Minor Head)
3425.60.200.29	Biotechnology Research and Development
3425.60.200.29.17	Assistance for Research and Development
3425.60.200.29.17.35	Grants for creation of capital assets

Validated

The Recurring expenditure involved is debitable to:

Demand No. 87	Department of Biotechnology
3425	Other Scientific Research 2019-2020
3425.60	Others (Sub Major Head)
3425.60.200	Assistance to other Scientific Bodies (Minor Head)
3425.60.200.29	Biotechnology Research and Development
3425.60.200.29.17	Assistance for Research and Development
3425.60.200.29.17.31	Grants -in-Aid General

4. Terms & Conditions:

Additional Terms and Conditions, specific for Twinning R and D program for NER

a. Both NER and Rest of India (RoI), Institutions scientists should work together for the objectives stated in the sanction of the project and any deviation from this would attract closure of the project at any point of time.

b. In the project review meetings, both the PIs from NER and RoI Institutions should participate and make presentation.

c. The outcomes of the project such as research papers, patents, copy rights etc. should be made jointly.

d. The NER Scientists are to be trained at the collaborating institute appropriately to empower the NER Scientists.

e. The project personal such as Research Associate, JRF or SRF, Research Assistant are also to be trained at least once in the collaborating national institute.

f. The collaborating institute scientist should visit NER institutions more frequently to guide NER scientists in design and conduct of experiments.

g. The Non-Recurring items must be procured and installed within 18-months of the sanction of the project, failing which the PIs have to return the remaining/unutilized Non Recurring grant with 10% of Interest.

h. In case the amount of grant-in-aid is refunded, the whole or a part amount of the grant, with an Interest at 10% per annum there on shall be recovered.

4.1 The other terms and conditions governing this sanction are attached at Annexure- III.

4.2A Memorandum of Agreement (MoA) will be signed between the Department of Biotechnology and the grantee Institution on Non-Judicial stamp paper Rs. 100/- in the enclosed format and the second release/installment will be made only after signing of MoA between the grantee institutions and DBT. In case of NGO's and Private Institution's, execution of MOA is mandatory before first release. A format of the MoA is enclosed in Annexure-IV

4.3 The Institute/Agency will keep the whole of the grant in a Bank Account earning interest, and the interest so earned should be reported to DBT in the Utilisation Certificate and Statement of Expenditure. The Interest so earned will be treated as created to the Institute/Agency and shall be adjusted towards further installment of the grant and or at the time of Final Settlement of Accounts.

5.No International Travel will be undertaken from the sanctioned project grant unless specified otherwise.

6.The Director, Institute of Advanced Study In Science & Technology, Guwahati, Assam and The Principal, Goalpara College, Goalpara, Assam would be responsible for submission of Statements of

Expenditure (SoE), utilization certificates (UC), Assets Certificates, Manpower staffing & expenditure details in prescribed DBT formats to DBT in respect of grants released in this project from time to time.

7. PI's of DBT sponsored projects can consider appointment of JRF from Category-II merit list of DBT-BET exam so that candidates can be paid fellowships at par with NET/GATE/BET qualified candidates as per DST OM No. A.SR/S9/Z-09/2012 dated on 21 Oct 2014. However, there is no compulsion on PI's to select candidates for JRF in their projects from Category-II of DBT-BET.
8. As per Rule 236 (1) of GFR 2017, the accounts of all Grantee Institutions or Organisations shall be open to inspection by the sanctioning authority and audit, both by the Comptroller and Auditor General of India under the provision of CAG(DPC) Act 1971 and internal audit by the Principal Accounts Office of the Ministry or Department, whenever the Institution or Organisation is called upon to do so.
9. If the Research Project involves biological resources, the obligations under the Biological Diversity Act 2002 as applicable shall be complied with by the Project Investigator, the details of such obligations can be accessed at www.nbaindia.org
10. If this project works requires any Statutory Clearance (such as Ethical Committee Clearance, Informed Consent, Animal Ethics Committee Clearance, Institutional Bio-safety Committee Clearance, National Biodiversity Authority approval etc.), Project investigator(s) and Host Institution(s) shall compulsorily comply the same before undertaking such activities.
11. This issues under the power delegated to this Department and with the concurrence of IFD vide their SAN No. **102/IFD/SAN/1740/2019-2020** dated **September, 16 2019**.
12. This sanction order has been noted at serial no. 94, 95 In the Register of Grants.

Vaishali

(Dr. Vaishali Panjabi)
Scientist 'E'

डॉ. वैशाली पंजाबी / Dr. VAISHALI PANJABI
श्रेणीकृत 'ई' / Scientist 'E'
बायोटेक्नोलॉजी विभाग / Dept. of Biotechnology
विज्ञान और प्रौद्योगिकी, मंत्रालय / M/o Science & Tech.
भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi

21/10/19

To,

The Pay & Accounts Officer,
Department of Biotechnology,
New Delhi - 110 003.

Copy to:

- 1 The Principal Director of Audit (Scientific Departments), DACR Building, New Delhi- 110 002.
- 2 Dr. Dulal Chandra Boruah (Project Co-ordinator), Botany Department, Goalpara College Goalpara-783101, Assam.
- 3 The Director, Institute of Advanced Study in Science & Technology, Vigyan Path, Paschim Boragaon, Garchuk, Guwahati - 781035, Assam
- 4 The Principal, Goalpara College, Goalpara, Goalpara, Goalpara - 783101, Assam
- 5 Dr. Arundhuti Devi, Associate Professor - I, Resource Management and Environment, Institute of Advanced Study in Science & Technology, Vigyan Path, Paschim Boragaon P.O.- Garchuk, Guwahati, Assam, Guwahati - 781035, Assam
- 6 Dr. Dharmeswar Barman, Assistant Professor, Botany Department, Goalpara College, Goalpara - 783101, Assam
- 7 Dr. Dulal Chandra Boruah, Assistant Professor, Botany, Goalpara College, Botany Department, Goalpara - 783101, Assam
- 8 Dr. Rajlakshmi devi, Associate Professor, Life Science, Institute Of Advanced Study In Science & Technology, Life Science Division IASST, Paschim Boragaon, Guwahati-781035, Assam
- 9 Cash Section, DBT (2 copies).
- 10 Sanction Folder.
- 11 File Copy.

Vaishali

(Dr. Vaishali Panjabi)
Scientist 'E'

डॉ. वैशाली पंजाबी / Dr. VAISHALI PANJABI
वैज्ञानिक 'ई' / Scientist 'E'
आनुवंशिकी विभाग / Dept. of Biotechnology
विज्ञान और प्रौद्योगिकी, मंत्रालय / M/o Science & Tech.
नए दिल्ली सरकार, नई दिल्ली / Govt. of India, N. Delhi

21/10/17

Annexure -I

Details of the Equipment sanctioned for the implementation of the project entitled "Evaluation of antioxidant and anti-hyperlipidemic property of few selected medicinal plants used by the tribal population of Goalpara district, Assam.":

Goalpara College, Goalpara			
SNo.	Name of Equipment	No.	Cost(Rs.)
1.	Rotavapour	1	700000.00
Total			700000.00

Vaishali
(Dr. Vaishali Panjabi)
Scientist 'E'

डॉ. वैशाली पंजाबी / Dr. VAISHALI PANJABI
विभागीय 'ई' / Scientist 'E'
सांख्यिकी विभाग / Dept. of Microbiology
मिशन और डी.डी. मंत्रालय / Mo Science & Tech.
भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi

21/10/19

Annexure -II

Details of the manpower sanctioned for the implementation of the project entitled **"Evaluation of antioxidant and anti-hyperlipidemic property of few selected medicinal plants used by the tribal population of Goalpara district, Assam."**:

Head	No. of Position	Year I	Year II	Year III	Total (Rs.)
1. Goalpara College, Goalpara					
Junior Research Fellow JRF	1	401760	401760	0	803520
Senior Research Fellow SRF	1	0	0	453600	453600
Total(Rs.)		401760	401760	453600	1257120
2. INSTITUTE OF ADVANCED STUDY IN SCIENCE & TECHNOLOGY					
Junior Research Fellow JRF	1	431520	431520	0	863040
Senior Research Fellow SRF	1	0	0	487200	487200
Total(Rs.)		431520	431520	487200	1350240

Emoluments detail of research personal(s) mentioned in table(s) of Annexure-II shall be applicable only if candidate(s) met educational qualification and eligibility criteria as per DST OM No.SR/S9/Z-09/2012 dated 21.10.2014.

Vaishali

(Dr. Vaishali Panjabi)
Scientist 'E'

डॉ. वैशाली पंजाबी / Dr. VAISHALI PANJABI
वैज्ञानिक 'ई' / Scientist 'E'
सांकेतिक प्रौद्योगिकी विभाग / Deptt. of Biotechnology
विज्ञान और प्रौद्योगिकी, मंत्रालय / M/o Science & Tech.
भारत सरकार, नई दिल्ली / Govt. of India, N. Delhi

[Signature]

[Signature]
(Dr. Dulal Ch. Barman)
Coordinator & PI
Coordinator & PI
DBT Twinning Project

(Dr. Subhash Barman)
Principal
Goalpara College .
Principal & Secretary
Goalpara College, Goalpara