



3.5 Collaboration

(3.5.1) Number of functional MoUs/linkages with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years

[List and Copies of Document indicating functional MoUs/Linkages/Collaborations activity-wise and year-wise]

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1 List of Document indicating functional MoUs/ Linkages/ Collaborations activity-wise and year-wise [Table (1)-(4)]

Table 1: **A.Y. 2022 - 2023**

Sl. No.	MoU/ Collaboration/ linkage	Name of the Institution with whom the MoU/Collaboration/ Linkage is made, contact details.	LIST OF DOCUMENTS	Page No.
01	MoU	JAMINI ROY COLLEGE , P.O. - Beliatore, Dist - Bankura, PIN 722 203, West Bengal; Phone: 03241-259261; E-mail: jamini.roy.261@gmail.com	MoU, Faculty exchange activities and Summary/Report stating outcome of the MoU	10
02	MoU	PANCHMURA MA-HAVIDYALAYA , P.O. – Panchmura, Dist. – Bankura, PIN 722 156 (West Bengal); Phone: 9647316488; E-mail: pmma-havidyalaya@gmail.com	MoU, Faculty exchange activities and Summary/Report stating outcome of the MoU	17
03	MoU	ST. XAVIER'S COLLEGE , P.O. – Sripalli, Dist. – Purba Bardhaman, PIN 713 103 (West Bengal) Phone: 7477516060; E-mail: college@sxcb.edu.in	MoU, Faculty exchange activities and Summary/Report stating outcome of the MoU	25
04	COLLABORATION (Edited Book Writing Project)	ADAMA SCIENCE AND TECHNOLOGY UNIVERSITY ; P.O. Box 1888, Adama, Ethiopia Phone: +251-0909766711; E-mail: sreepatjain@gmail.com [Prof. Sreepat Jain, Department of Applied Geology]	Certificates of collaboration; Agreement with the publisher (CRC Press, Taylor and Francis Group), Summary/Report stating outcome of the collaboration.	33
05	MoU	JAGANNATH KISHORE COLLEGE , Purulia, Dist. - Purulia, PIN 723 101, West Bengal; Phone: 03252-222416; E-mail: jken.1948@gmail.com	MoU, Faculty exchange activities and Summary/Report stating outcome of the MoU	38



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Table 1: **A.Y. 2022 - 2023** (Continued)

Sl. No.	MoU/ Collaboration/ linkage	Name of the Institution with whom the MoU/Collaboration/ Linkage is made, contact details.	LIST OF DOCUMENTS	Page No.
06	COLLABORATION (GEOLOGY)	SAHID MATANGINI HAZRA GOVERNMENT GENERAL DEGREE COLLEGE FOR WOMEN, Chaksrikrishnapur, Kulberia, Dist. Purba Medinipur, Phone: 8637835672; E-mail: lovelyburman019@gmail.com [Ms. Lovely Burman, Assistant professor of Geology]	Certificates of collaboration; 1 st pages of 02 (two) scientific papers published in 2023, Summary/Report stating outcome of the collaboration.	45
07	MoU	BANKURA SAMMILANI COLLEGE Bankura, Dist.-Bankura, PIN 722 102 (West Bengal) Phone: 03242-250741; E-mail: info@bankurasammilanicollege.net	MoU, Faculty exchange activities and Summary/Report stating outcome of the MoU	53

Table 2: **A.Y. 2021 - 2022**

Sl. No.	MoU/ Collaboration/ linkage	Name of the Institution with whom the MoU/Collaboration/ Linkage is made, contact details.	LIST OF DOCUMENTS	Page No.
08	MoU	GOVERNMENT GENERAL DEGREE COLLEGE, DANTAN-II, Porolda, Dantan-II, Dist. – Paschim Medinipur, PIN 721 445 (West Bengal), Phone: 9732733695; E-mail: kgeprincipal@yahoo.com	MoU, Faculty exchange activities and Summary/Report stating outcome of the MoU	60

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Table 2: **A.Y. 2021 - 2022** (Continued)

Sl. No.	MoU/ Collaboration/ linkage	Name of the Institution with whom the MoU/Collaboration/ Linkage is made, contact details.	LIST OF DOCUMENTS	Page No.
09	MoU	AKUI KAMALABALA WOMEN'S COLLEGE Akui, P.O.- Akui, P.S.- Indus, Dist.- Bankura, Pin-722 201, West Bengal, Phone: 9434439316; E-mail: akw.college@gmail.com	MoU, Faculty exchange activities and Summary/Report stating outcome of the MoU	67
10	MoU	KOTSHILA MA-HAVIDYALAYA Jiudaru, Kotshila, Dist. - Purulia, PIN 723 213, West Bengal Phone: 8918080029; E-mail: kotshilamahavidyalaya@gmail.com	MoU, Faculty exchange activities and Summary/Report stating outcome of the MoU	74
11	MoU	SALTORA NETAJI CENTENARY COLLEGE P.O. – Saltora, Dist. – Bankura, PIN 722 158 (West Bengal), Phone:8967911896; E-mail: snc214@gmail.com	MoU, Faculty exchange activities and Summary/Report stating outcome of the MoU	83
12	MoU	PANDIT RAGHUNATH MURMU SMRITI MA-HAVIDYALAYA, Baragari, P.O. - Jamboni, Dist - Bankura, PIN 722 150, West Bengal, Phone: 7718300300; E-mail: principal@prmsmahavidyalaya.org	MoU, Faculty exchange activities and Summary/Report stating outcome of the MoU	88
13	MoU	DURGAPUR GOVERNMENT COLLEGE J. N. Avenue, Durgapur, Dist. – Paschim Bardhaman, PIN 713 214 (West Bengal), Phone: 9475372997; E-mail: dpggovtcollege@gmail.com	MoU, Jointly organised seminar and related report, Faculty exchange activities, Student visit to Geology Museum and Summary/ Report stating outcome of the MoU	94



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Table 2: **A.Y. 2021 - 2022** (Continued)

Sl. No.	MoU/ Collaboration/ linkage	Name of the Institution with whom the MoU/Collaboration/ Linkage is made, contact details.	LIST OF DOCUMENTS	Page No.
14	COLLABORATION (GEOLOGY)	INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH KOLKATA Mohanpur, Dist. Nadia, West Bengal, PIN 741 246 Phone: 033 6136 0000 (Extn. 1159); E-mail: subhronil.m@iiserkol.ac.in [Dr. Subhronil Mondal, Assistant Professor]	Certificates of collaboration; 1 st page of 01 (one) scientific paper published in 2023, Summary/Report stating outcome of the collaboration.	109

Table 3: **A.Y. 2019 - 2020**

Sl. No.	MoU/ Collaboration/ linkage	Name of the Institution with whom the MoU/Collaboration/ Linkage is made, contact details.	LIST OF DOCUMENTS	Page No.
15	MoU	CHHATNA CHANDIDAS MAHAVIDYALAYA Chhatna, P.O. - Chhatna, Dist - Bankura, PIN 722 132, West Bengal' Phone: 9475585518; E-mail: ccmvoffice@gmail.com	MoU, Faculty exchange activities and Summary/Report stating outcome of the MoU	113
16	MoU	BANKURA CHRISTIAN COLLEGE College Road, Bankura, Dist. - Bankura, PIN 722 101 (West Bengal); Phone: 03242-250924; E-mail: bccollege@rediffmail.com	MoU, Jointly organised International webinar and related report, Faculty exchange activities and Summary/Report stating outcome of MoU	121

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Table 3: **A.Y. 2019 - 2020** (Continued)

Sl. No.	MoU/ Collaboration/ linkage	Name of the Institution with whom the MoU/Collaboration/ Linkage is made, contact details.	LIST OF DOCUMENTS	Page No.
17	MoU	GOVERNMENT GENERAL DEGREE COLLEGE, MANBAZAR-II Susunia, PO-Kumari, PS-Boro, Dist.-Purulia, PIN 723131, West Bengal; Phone: 8944027161; E-mail: ggdcm@ggdcm.ac.in	MoU, Student Exchange and Sharing of Academic and Research Information; Faculty Exchange; Summary/Report stating outcome of the MoU.	133
18	COLLABORATION (MATHEMATICS)	DEPARTMENT OF MATHEMATICS, RAGHUNATHPUR COLLEGE Raghunathpur, Dist.- Purulia, West Bengal, PIN 723 133 Phone: 9733937424; E-mail: amanat87math@gmail.com [Dr. Sk Amanathulla, Assistant Professor of Mathematics]	Certificates of collaborative Research on Graph Theory and Picture Fuzzy Graph; 1 st pages of 04 (four) International publications in 2020-2023, Summary/Report stating outcome of the collaboration.	141
19	MoU	GOVINDA PRASAD MAHAVIDYALAYA P.O. Amarkanan, Dist – Bankura, PIN 722 133 (West Bengal) Phone: 03241-265501; 9734962796; E-mail: gpm1985105@gmail.com	MoU, Faculty exchange activities and Summary/Report stating outcome of the MoU	148
20	MoU	BARJORA COLLEGE P.O. Barjora, Dist. Bankura, PIN 722 202 (West Bengal) Phone: 7047305232; E-mail: barjoracollege@gmail.com	MoU, Faculty exchange activities and Summary/Report stating outcome of the MoU	157



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Table 4: **A.Y. 2018 - 2019**

Sl. No.	MoU/ Collaboration/ linkage	Name of the Institution with whom the MoU/Collaboration/ Linkage is made, contact details.	LIST OF DOCUMENTS	Page No.
21	COLLABORATION (GEOLOGY)	DEPARTMENT OF GEOLOGY, PRESIDENCY UNIVERSITY, B6/1, College Street, Kolkata West Bengal, PIN 700073' Phone: 9477404094; E-mail: anudeb.geol@presiuniv.ac.in [Dr. Anudeb Mondal, Assistant Professor of Geology]	Certificates of collaboration; 1 st pages of 03 (three) Scientific Papers during 2018-2022, Summary/Report stating outcome of the collaboration.	164
22	COLLABORATION (GEOLOGY)	DEPARTMENT OF GEOLOGICAL SCIENCES, JADAVPUR UNIVERSITY Jadavpur, Kolkata, PIN 700 032, West Bengal Phone: 9432406174; E-mail: subir.sarkar@jadavpuruniversity.in [Dr. Subir Sarkar, Professor of Geology]	Certificates of collaborative research on Cretaceous Rocks.; 1 st pages of 02 (two) Scientific Papers published during 2018-2019, Summary/Report stating outcome of the collaboration.	171
23	COLLABORATION (GEOLOGY)	DEPARTMENT OF EARTH SCIENCES, INDIAN INSTITUTE OF TECHNOLOGY BOMBAY, Powai, Mumbai, Maharashtra, PIN 400 076 Phone: 9920914159; E-mail: santanu@iitb.ac.in [Dr. Santanu Banerjee, Professor of Geology]	Certificates of Collaboration on Geological Field work and Research; 1 st page of 01 (one) Scientific Paper published in 2021, Summary/Report stating outcome of the collaboration.	176

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Table 4: **A.Y. 2018 - 2019** (Continued)

Sl. No.	MoU/ Collaboration/ linkage	Name of the Institution with whom the MoU/Collaboration/ Linkage is made, contact details.	LIST OF DOCUMENTS	Page No.
24	COLLABORATION (GEOLOGY)	ANNA UNIVERSITY, CHENNAI Chennai, Tamil Nadu, PIN 600 025. Phone: 9840705969; E-mail: geonag@gmail.com [Dr. R. Nagendra, Professor of Geology]	Certificates of collaborative Research work on Sedimentology and Stratigraphy of Cauvery Basin, 1 st pages of 02 (two) Scientific Papers published in 2018-2021.	180



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Web: www.kjrggdc.ac.in

2 Copies of Document indicating functional MoUs/ Linkages/
Collaborations activity-wise and year-wise



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KABI JAGADRAM ROY GOVERNMENT GENERAL DEGREE COLLEGE
Gopalpur (beside NH 60), P.O. - Mejia, Dist. – Bankura, PIN 722 143, West Bengal
[Phone: 03241-250250, E-mail: kjrggdcmejia@gmail.com]

MEMORANDUM OF UNDERSTANDING (MoU)

Between

KABI JAGADRAM ROY GOVERNMENT GENERAL DEGREE COLLEGE
Gopalpur (beside NH 60), P.O. - Mejia, Dist. – Bankura, PIN 722 143, West Bengal
[Phone: 03241-250250, E-mail: kjrggdcmejia@gmail.com]

And

JAMINI ROY COLLEGE
[Beliatore, P.O. - Beliatore, Dist - Bankura, PIN 722 203, West Bengal
Phone: 03241-259261; E-mail: jamini.roy.261@gmail.com]

This Memorandum of Understanding (MoU) between **Kabi Jagadram Roy Government General Degree College**, a reputed academic higher education institution established in 2015, affiliated to Bankura University and **Jamini Roy College**, a reputed academic higher education institution, established in 1986, affiliated to Bankura University is signed on the 10th day of March, 2023.

Both the institutions herein have noted the importance of the value of cooperation and have agreed to enter into this Memorandum of Understanding (MoU) regarding academic collaboration. The purpose of this non-binding MoU is to make possible academic and cultural exchange between both the institutions based on the principles of mutual equality and the reciprocity of benefits. Now, this MoU is agreed by and between both the colleges hereto as follows:

1. Objectives, Scope, and Major Activities

Both institutions agree to encourage the development of the following types of activities:

- Visits and formal exchanges of faculty, undergraduate students and administrators in specific areas of education, research and outreach.
- Organize joint conferences, seminar, webinar, symposia, or other scientific meetings on subjects of mutual interest.
- Exchange of academic information and materials.
- Explore the possibilities for developing joint research programs and collaborations.

2. Responsibilities of the Institutions

The two institutions identify that the execution of any agreed upon activity will depend upon the interests and expertise of the individuals involved and the availability of financial resources, space and other resources. Accordingly, the functioning of any exchange and cooperative programs based on this MoU shall be conferred and determined between the two institutions. It is further expected that both the institutions will be compliant with all applicable legislations of Government of India and State and University policies.

Contd....2

Office Kabi Jagadram Roy
10/03/2023
Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.

Pradip Kumar Banerjee
10/03/2023
Principal
Jamini Roy College
Beliatore, Bankura (W.B.)


10/03/2023
Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.


10/03/2023
Principal
Jamini Roy College
Beliatore, Bankura (W.B.)



Officer-in-Charge
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KABI JAGADRAM ROY GOVERNMENT GENERAL DEGREE COLLEGE
Gopalpur (beside NH 60), P.O. - Mejia, Dist. – Bankura, PIN 722 143, West Bengal
[Phone: 03241-250250, E-mail: kjrggdcmejia@gmail.com]

3. Duration and Option to Amend, Extend or Terminate

This MoU will become effective when signed by authorities of both institutions. The agreement will remain in effect for **05 (five) years** from the date of signature given below, and may be renewed or amended by mutual agreement of the institutions. The institutions should agree to periodically review the activities undertaken and the progress made and to consult concerning amendments, renewal or termination of this MoU. Either authority may terminate this MoU at any time by providing written notice prior to three months before such termination to the other authority.

4. General Terms

This MoU is not intended to, and does not create any right, benefit, or trust responsibility, substantive or procedural, enforceable by law or equity, by either institution, its officers, employees, or agents against the other institution, its officers, employees, or agents. Nothing in this MoU obligates either institution to commit or transfer any funds, assets, or other resources in support of projects or activities between the two institutions. Neither institution will use the name of the other, either expressly or by implication, in any publicity, solicitation or advertisement without the express written approval of the other institution to this MoU.

5. Signatures

This MoU shall enter into force on the date of the signing by qualified representatives of both institutions. In Witness whereof the duly authorized signatories have affixed their signatures and seals on **10th March, 2023**.

For, Kabi Jagadram Roy Government General Degree College

For, Jamini Roy College, Beliatare

Pradip Kumar Banerjee
10/3/2023
Principal
Jamini Roy College
Beliatare, Bankura (W.B.)

Aloke Kumar Das
10/03/2023
(ALOKE KUMAR DAS)

Pradip Kumar Banerjee
10/3/2023
(DR. PRADIP KUMAR BANERJEE)

Officer-in-Charge

Principal

Kabi Jagadram Roy Government General Degree College
Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.

Jamini Roy College, Beliatare

Principal
Jamini Roy College
Beliatare, Bankura (W.B.)

Signature of Witness:

Signature of Witness: *Suchitra Mitra* 10.3.2023

Ashutosh Maji
10/03/2023
(Dr. ASESH KUMAR MAJI)

(SUCHITRA MITRA)

Co-ordinator, IQAC
Kabi Jagadram Roy Government
General Degree College
Mejia, Bankura, PIN-722143

Associate Professor
Jamini Roy College
Beliatare, Bankura



Aloke Kumar Das
Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
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JAMINI ROY COLLEGE

(NAAC Accredited - B)

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TEL. No. : 03241-259261, Email ID - jamini.roy.college.261@gmail.com

Ref. No.

Date ... 14/3/2023

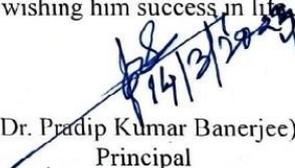
From :

Principal / Teacher Incharge
Jamini Roy College
Beliatore, Bankura

TO WHOM IT MAY CONCERN

This certificate is awarded to **Dr. Aresh Kumar Maji**, Associate Professor of Geology of Kabi Jagadram Roy Government General Degree College, Mejia for acting as a Resource Person to deliver a lecture on 'Identification of minerals and rocks in hand specimen' held on 14.03.2023 at Jamini Roy College, Beliatore in connection with the Faculty Exchange Program as part of the MOU signed on 10/03/2023 between Kabi Jagadram Roy Government General Degree College, Mejia, and Jamini Roy College, Beliatore.

We are grateful to Dr Maji for his valuable lecture and wishing him success in life.


(Dr. Pradip Kumar Banerjee)
Principal
Jamini Roy College

Principal
Jamini Roy College
Beliatore, Bankura (W.B.)




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JAMINI ROY COLLEGE

Beliatore, P.O. - Beliature, Dist - Bankura, PIN 722 203, West Bengal
Phone: 03241-259261; E-mail: jamini.roy.261@gmail.com

Attendance Sheet

Topic of Special Lecture : **IDENTIFICATION OF MINERALS AND ROCKS
IN HAND SPECIMEN'**

Date of Lecture & Time : 14/03/2023

Delivered by : Dr. Aresh Kumar Maji, Associate Professor of Geology,
Kabi Jagadram Roy Government General Degree College

Sl. No.	Name	Details of Participants	Signature	Feedback
1	Boristi Ghosh	2nd	Boristi Ghosh	Good
2	MAMANI SOREN	2nd	Mamani Soren	Good
3	Subhadip Ghosh	2nd	Subhadip Ghosh	Good
4	Madhurima Mondal	4th	Madhurima Mondal	Good
5	Payel Kundu	4th	Payel Kundu	Good
6	Antara Akhuli	4th	Antara Akhuli	Good
7	Susmita Mondal	4th	Susmita Mondal	Good
8	Pallabi pal	4th	Pallabi pal	Good
9	Bhagyashree Banerjee	4th	Bhagyashree Banerjee	Good
10	Brattati Das	4th	Brattati Das	Good
11	Susmita Das	4th	Susmita Das	Very Good
12	Rupa Lohar	2nd	Rupa Lohar	Very Good
13	Kankana Saha	2nd	Kankana Saha	Very Good
14	Rubina Mondal	2nd	Rubina Mondal	Very Good
15	Puja Ghosh	2nd	Puja Ghosh	Very Good
16	Tapasi Das	6th	Tapasi Das	Good

[Signature]
14/3/23

Principal
Jamini Roy College
Beliatore, Bankura (W.B.)

[Signature]
14/03/2023
Dr. ARESH KUMAR MAJI, W.B.E.S
Associate Professor of Geology
Kabi Jagadram Roy Government General Degree College
Mejia-722143, Dist-Bankura, W.B.



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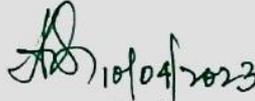
10/04/2023

TO WHOM IT MAY CONCERN

This is to certify that Ms. Mitra Sannigrahi, Assistant Professor in English of Jamini Roy College, Beliatare has acted as a Resource Person to deliver a lecture on 'THE POETRY OF W.B. YEATS' held on 10/04/2023 at Kabi Jagadram Roy Government General Degree College, Mejia, Bankura in connection with the Faculty Exchange Program as part of the MOU signed on 10/03/2023 between Kabi Jagadram Roy Government General Degree College, Mejia, and Jamini Roy College, Beliatare.

The lecture of Ms. Sannigrahi is greatly acknowledged and wishing her success in life.




(Alope Kumar Das)
Officer-in-Charge
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Received
Mitra Sannigrahi
10.04.2023




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KABI JAGADRAM ROY GOVERNMENT GENERAL DEGREE COLLEGE

Mejia, Dist. - Bankura, PIN 722 143, West Bengal

Attendance Sheet

Topic of Lecture : **THE POETRY OF W.B. YEATS**
Date and Time of Lecture : 10.04.2023
Lecture By : Ms. Mitra Sannigrahi, Assistant Professor in English,
Jamini Roy College
Total No. of Participants : 17 (16 student + 1 Assistant Professor)

Sl. No.	Name	Details of Participants	Signature	Feedback
1.	SHIULI DAS	Sem 6, student	Shiuli Das	Very good
2.	SOURAV DEY	6 Semester	S. Dey	Very good
3.	MOUMITA GHOSH	2nd Sem	M. Ghosh.	Excellent
4.	APARNA GORAI	2nd Sem	Aparna Gorai	Excellent
5.	RAHUL GOPE	VI - Sem	Rahul Gope	Very good
6.	KOUSIK GORAI	VI SEM	Kousik Gorai	good
7.	Aparna Gorai	D - Sem	Aparna Gorai	V. good.
8.	Sumana Bhaydarani	VI sem	Sumana Bhaydarani	good
9.	ANUPAMA AKHULI	VII Sem	Anupama Akhuli	good
10.	RIJU NATH	VI - sem	Riju Nath	V. good.
11.	Sima Maji	2nd Sem	Sima Maji	good
12.	SUBHAM DAS	Cashier	Subham Das.	Excellent.
13.	RABIN GHOSH	Asst. Prof. of Bengali	R. Gh.	Very good
14.	Riku Karmakar	6th Sem	Riku Karmakar	Good.
15.	ALKE KUMAR DAS	OIC, Assistant Prof. in Phys	Alke	Very good
16.	ARITIK BHATTACHARYA	Asst. Prof. of Philosophy	Aratik	Excellent.
17.	Aban Das	Assistant Prof. of Economics	Aban	Excellent
18.				

AS
10/04/2023

Officer - In - Charge
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Mejia - 722143 Dist. - Bankura, W.B.

M. Sannigrahi
10.04.2023

Head/Incharge
Department of English
Jamini Roy College
Belliatore, Bankura



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Mejia-722143, Dist-Bankura, W.B.



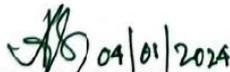
Date: 04.01.2024

**SUMMARY OF THE ACTIVITIES CONDUCTED UNDER THE MoU
BETWEEN
KABI JAGADRAM ROY GOVERNMENT GENERAL DEGREE COLLEGE, MEJIA AND
JAMINI ROY COLLEGE, BELIATORE**

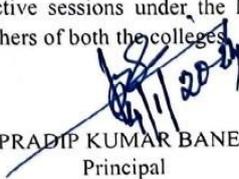
This is to certify that a MoU was signed on 10.03.2023 for an initial period of 05 (five) years (i.e., up to 09.03.2028) between Kabi Jagadram Roy Government General Degree College, Mejia, Dist. - Bankura, West Bengal, PIN 722 143, and Jamini Roy College, Beliatore, P.O. - Beliatore, Dist - Bankura, PIN 722 203, West Bengal. The list of activities conducted under the aforesaid MoU till 04.01.2024 is as follows.

Sl No.	Type of activity	Academic Year	Date (s) of activity		Brief description of the activity
			From	To	
01	Faculty Exchange	2022-2023	14.03.2023	14.03.2023	Dr. Aresh Kumar Maji, Associate Professor of Geology, Kabi Jagadram Roy Government General Degree College, Mejia acted as a Resource Person to deliver a lecture on 'Identification of minerals and rocks in hand specimen' held on 14.03.2023 at Jamini Roy College, Beliatore.
02	Faculty Exchange	2022-2023	10.04.2023	10.04.2023	Ms. Mitra Sannigrahi, Assistant Professor in English of Jamini Roy College, Beliatore has acted as a Resource Person to deliver a lecture on 'THE POETRY OF W.B. YEATS' at Kabi Jagadram Roy Government General Degree College, Mejia, Bankura

Outcome of the MoU: The aforesaid 02 (two) lectures and interactive sessions under the MoU, imparted many new information and ideas among the students and teachers of both the colleges.


(ALOKE KUMAR DAS)

Officer-in-Charge
Kabi Jagadram Roy Government General Degree College
Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.


(DR. PRADIP KUMAR BANERJEE)
Principal
Jamini Roy College
Principal
Jamini Roy College
Beliatore, Bankura (W.B.)




Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



MEMORANDUM OF UNDERSTANDING (MoU)

Between

KABI JAGADRAM ROY GOVERNMENT GENERAL DEGREE COLLEGE
Gopalpur (on NH 60), P.O. - Mejia, Dist. – Bankura, PIN 722 143, West Bengal

and

PANCHMURA MAHAVIDYALAYA
Panchmura, Dist. – Bankura, PIN 722 156, West Bengal

This agreement between Kabi Jagadram Roy Government General Degree College, Mejia, Dist. – Bankura, PIN 722 143, West Bengal and Panchmura Mahavidyalaya, Panchmura, Dist. Bankura, PIN 722 156 is signed on **09th March, 2023**.

Objectives, Scope, and Major Activities:

Both institutions agree to encourage the development of the following types of activities:

1. Visits and formal exchanges of faculty, students and administrators in specific areas of education, research and outreach.
2. Cooperate in Under Graduate education and training through library as well as laboratory resources.
3. Organize joint conferences, seminar, webinar, symposia, or other scientific meetings on subjects of mutual interest.
4. Exchange of academic information and materials
5. Explore the possibilities for developing joint research programs and collaborations.

General terms and Conditions:

1. **Duration of MOU:** This MOU will be effective from the date of agreement and will have an initial duration of **05 (five)** years. The MOU may be extended with the consent of both the parties.
2. **Confidentiality:** Both the colleges will maintain confidentiality about the terms and conditions of the agreement.

Contd....2





Government of West Bengal
Office of the Principal
Kabi Jagadram Roy Government General Degree College
Mejia - 722143.

(On NH-60), Gopalpur
Mejia, Distt. Bankura
West Bengal.
Phone: +91-3241-250250
E-mail: kjrggdcmejia@gmail.com
Web: www.ggdcmejia.in

3. **Termination of MOU:** This MOU may be terminated at any time with a 15 days prior notice from either of the parties.
4. **Modification:** Any alteration / modification to the MOU may be done with mutual consent of both the parties. Involvement of new departments/activities may be done from time to time with mutual consent of both the colleges.

Kabi Jagadram Roy Government General Degree College
Mejia - 722143, Dist. - Bankura, W.B.

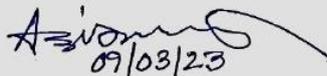
09/03/2023

For, Kabi Jagadram Roy Government General
Degree College, Mejia

For, Panchmura Mahavidyalaya, Panchmura


09/03/2023
(ALOK KUMAR DAS)
Officer-in-Charge

Kabi Jagadram Roy Government General Degree College
Officer - in - Charge
Kabi Jagadram Roy Government General Degree College
Mejia - 722143, Dist. - Bankura, W.B.


09/03/23
(DR. ANAL BISWAS)
Principal

Panchmura Mahavidyalaya

Principal
Panchmura Mahavidyalaya
Panchmura, Bankura

In Witness of:


- 09/03/2023
(DR. ARESH KUMAR MAJI)

Co-ordinator, IQAC
Kabi Jagadram Roy Government
General Degree College
Mejia, Bankura, PIN-722143


Alupita Bhownick
9.3.23

Coordinator
Internal Quality Assurance Cell
Panchmura Mahavidyalaya
Panchmura, Bankura

Office of the Principal, Kabi Jagadram Roy Govt. General Degree College, Mejia - 722 143.





Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



Government of West Bengal
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MEJIA – 722143

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E-mail: kjrggdcmejia@gmail.com
Website: www.kjrggdc.ac.in



PANCHMURA MAHAVIDYALAYA

PANCHMURA: BANKURA, PIN-722156 (WB)

(A Degree College of Arts, Science & Commerce)

NAAC Accredited B+ College (2nd Cycle)

Website: panchmuramahavidyalaya.org, ☆ E-mail: pmmahavidyalaya@gmail.com

TO WHOMSOEVER IT MAY CONCERN

This is to certify that as a part of MoU signed on 09th March, 2023 between Kabi Jagadram Roy Government General Degree College, Mejia, Dist. – Bankura, West Bengal, PIN 722 143, and Panchmura Mahavidyalaya, Panchmura, Dist. Bankura, PIN 722 156, a **Faculty Exchange Program** has taken place on 16th March, 2023.

Shri Wriddick Bhattacharya (Assistant Professor of Philosophy, Kabi Jagadram Roy Government General Degree College, Mejia) has delivered a special lecture in connection with that MOU on 16th March, 2023 to the students of the Department of Philosophy, Panchmura Mahavidyalaya, Panchmura on the topic 'CARVAKA ETHICS'

Principal
Panchmura Mahavidyalaya
Panchmura, Bankura



Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



PANCHMURA MAHAVIDYALAYA

Panchmura, Dist. – Bankura, PIN 722 156, West Bengal

Attendance Sheet

Resource Person - Shri Wittick Bhattacharya
Designation and - Assistant Professor of Philosophy, Kabi Jagadram
Address - Roy Government General Degree College, Mejia
Date of Lecture - 16.03.2023
Topic of Lecture - Carvaka Ethics
No. of Participants - 15 (Fifteen)

Sl. No.	Name	Participants	Signature
1.	MANISHA CHANDU	Student IV	Manisha Chandu
2.	SUPARNA MANDAL	Suparna Mandu	Suparna Mandu
3.	JAYANTA GHOSH	Student II	Jayanta Ghosh
4.	SOUVIK GHOSH	Student VI	Souvik Ghosh
5.	POLY MONDAL	Student - IV	Poly Mondal
6.	SUPRIYA HEMBRAM	STUDENT - VI	Supriya Hembram
7.	SANTANU MONDAL	STUDENT - IV	Santanu Mondal
8.	Sudip Sen	STUDENT - II	Sudip Sen
9.	PAYEL NEOGI	Student - IV	Payel Neogi
10.	SUBHRA LAYEL	Student - II	Subhra Layel
11.	KABERI ROY	Student - II	Kaberi Roy
12.	MAMONI KALWADI	Student - IV	Mamoni Kalwadi
13.	PRIYA MONDAL	Student - IV	Priya Mondal
14.	AKASH MONDAL	Student VI	akash mondal
15.	PAPPU GORAI	Student II	Pappu Gorai

Wittick Bhattacharya
16/03/2023

Wittick Bhattacharya
Asst. Professor in W.B.E.S.
K.J.R. Government General
Degree College, Mejia

Arpita Bhosmick

Coordinator
Internal Quality Assurance Cell
Panchmura Mahavidyalaya
Panchmura, Bankura



Arpita

Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



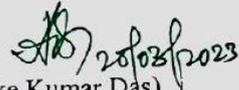
Government of West Bengal
Office of the Principal
Kabi Jagadram Roy Government General Degree College
Mejia - 722143.

(On NH-60), Gopalpur
Mejia, Distt. Bankura
West Bengal.
Phone: +91-3241-250250
E-mail: kjrgdcmejia@gmail.com
Web: www.ggdcmejia.in

TO WHOM IT MAY CONCERN

This is to certify that **Dr. Arpita Bhowmick**, Assistant Professor in the Dept. of Economics of Panchmura Mahavidyalaya, Panchmura, Bankura has acted as a resource person in the Faculty Exchange Program (as part of the MOU) on **March 20, 2023** at Dept. of Economics, Kabi Jagadram Roy Government General Degree College, Mejia, Bankura. She has delivered a lecture on **“Women Employment in India”**.

Expressing our gratitude for her valuable words and wishing her success in life.


(Alope Kumar Das)
Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.


Department of Economics
Panchmura Mahavidyalaya
Panchmura : Bankura

Office of the Principal, Kabi Jagadram Roy Govt. General Degree College, Mejia – 722 143.




Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



KABI JAGADRAM ROY GOVERNMENT GENERAL DEGREE COLLEGE

Mejia, Dist. - Bankura, PIN 722 143, West Bengal

Attendance Sheet

Topic of Lecture	: Women Employment in India
Date of Lecture	: 20/03/2023 (02:00 PM to 04:00 PM)
Resource Person	: Dr. Arpita Bhowmick, Assistant Professor, Dept. of Economics, Panchmura Mahavidyalaya, Panchmura
Total No. of Participants	:

Sl. No.	Name	Details of Participants	Signature
1.	SANJAY BHADRA	Student	[Signature]
2.	CHUMKI MAJI	STUDENT	chumki maji
3.	BAISHAKHI MONDAL	student	Baishaki Mondal
4.	PRITIKANA DUBE	STUDENT	Pritikana Dube
5.	SUMAN GHOSH	Student	Suman Ghosh
6.	SHUMA MONDAL	student	Shuma Mondal
7.	SARBANI MAJI	Student	Sarbani Maji
8.	Rakhi Mondal	student	Rakhi Mondal
9.	SHAMPA BAURI	STUDENT	Shampa Bauri
10.	BULTI MONDAL	STUDENT	Bulti Mondal
11.	SHAMPA DUTTA	Student	Shampa Dutta
12.	BISHNU GHOSH	Student	Bishnu Ghosh
13.	MALLIKA GHOSH	student	Mallika Ghosh
14.	BANSHADHAR MONDAL	STUDENT	Banshadhar Mondal
15.	CHIKU CHEL	student	Chiku Chel
16.			
17.			
18.			

Arpita Bhowmick
Department of Economics
Panchmura Mahavidyalaya
Panchmura : Bankura

[Signature]
20/03/2023
Officer - in - Charge
Kabi Jagadram Roy Government General Degree College
Mejia - 722143, Dist. - Bankura, W.B.



[Signature]
Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



Government of West Bengal
Office of the Principal
Kabi Jagadram Roy Government General Degree College
Mejia - 722143.

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Mejia, Distt. Bankura
West Bengal.
Phone: +91-3241-250250
E-mail: kjrggdcmjia@gmail.com
Web: www.ggdcmjia.in

TO WHOM IT MAY CONCERN

This is to certify that **Dr. Debi Prasad Misra**, Associate Professor in the Dept. of English of Panchmura Mahavidyalaya, Panchmura, Bankura has acted as a resource person in the Faculty Exchange Program (as part of the MOU) on **March 20, 2023** at Dept. of English, Kabi Jagadram Roy Government General Degree College, Mejia, Bankura. He has delivered a lecture on “**Pantheism in Wordsworth Poetry**”.

Expressing our gratitude for his valuable words and wishing him success in life.

(Alope Kumar Das)
Officer-in-Charge

Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.

Office of the Principal, Kabi Jagadram Roy Govt. General Degree College, Mejia – 722 143.



Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
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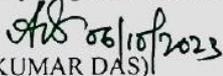
Date: 06.10.2023

SUMMARY OF THE ACTIVITIES CONDUCTED UNDER THE MoU BETWEEN
KABI JAGADRAM ROY GOVERNMENT GENERAL DEGREE COLLEGE, MEJIA
AND
PANCHMURA MAHAVIDYALAYA

Certified that a MoU was signed on 09.03.2023 for an initial period of 05 (five) years (i.e., up to 08.03.2028) between Kabi Jagadram Roy Government General Degree College, Mejia, Dist. - Bankura, West Bengal, PIN 722 143, and Panchmura Mahavidyalaya, Panchmura, Dist. Bankura, PIN 722 156, ~~Dist. - Paschim Bardhaman, West Bengal, PIN 713 214~~. The list of activities conducted under the aforesaid MoU till 06.10.2023 is as follows.

Sl No.	Type of activity	Academic Year	Date (s) of activity		Brief description of the activity
			From	To	
01	Faculty Exchange	2022-2023	16.03.2023	16.03.2023	Shri Wittick Bhattacharya, Assistant Professor of Philosophy, Kabi Jagadram Roy Government General Degree College, Mejia delivered a lecture on Carvaka Ethics at Panchmura Mahavidyalaya, Panchmura.
02	Faculty Exchange	2022-2023	20.03.2023	20.03.2023	Dr. Arpita Bhowmick, Assistant Professor, Dept. of Economics, Panchmura Mahavidyalaya, Panchmura, delivered a lecture on Women Employment in India at Kabi Jagadram Roy Government General Degree College, Mejia
03	Faculty Exchange	2022-2023	20.03.2023	20.03.2023	Dr. Debi Prasad Misra, Associate Professor, Dept. of English, Panchmura Mahavidyalaya, Panchmura delivered a lecture on Pantheism in Wordsworth Poetry at Kabi Jagadram Roy Government General Degree College, Mejia.

Outcome of the MoU: The lectures through aforesaid faculty exchange programmes under the MoU enriched the young minds of those present and also left a profound and long-lasting impression.


(ALOKE KUMAR DAS)
Officer-in-Charge

Kabi Jagadram Roy Government General Degree College
Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.


(DR. ANAL BISWAS)
Principal 06.10.23
Panchmura Mahavidyalaya

Principal
Panchmura Mahavidyalaya
Panchmura, Bankura




Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



Government of West Bengal
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Kabi Jagadram Roy Govt. General Degree College
Mejia – 722143.

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West Bengal.
Phone: +91-3241-250250
E-mail: kjrgdcmejia@gmail.com
Web: www.ggdcmejia.in

MEMORANDUM OF UNDERSTANDING (MOU)
FOR ACADEMIC AND SCIENTIFIC COOPERATION

This MOU is made on 16th day of February 2023

Between

KABI JAGADRAM ROY GOVERNMENT GENERAL DEGREE COLLEGE. affiliated to Bankura University and located on NH 60, Gopalpur, Vill+P.O.- Mejia, Bankura 722143, West Bengal

And

ST. XAVIER'S COLLEGE, Burdwan a reputed academic higher education institution, affiliated to Burdwan University located at P.O: Sripalli, Dist- Purba Bardhaman (W.B.) INDIA, PIN-713103;

Purpose:

The purpose of this Agreement is to promote higher education and practical experiences between **Kabi Jagadram Roy Government General Degree College, Mejia** and **St. Xavier's College, Burdwan**

Types of Cooperation:

Through this memorandum, both Parties establish the value of collaboration and agree to promote the following activities:

1. Projects and field work in the area of mutual interest
2. Exchange of academic publications and reports
3. Opportunities for faculty and staff development and exchange programs.
4. Exchange of visiting staffs and students
5. Other activities as mutually agreed.

Consideration:

This Agreement places no financial consideration or funding commitments on either party. The aforementioned activities will be defined through separate program agreements and subsequent program agreements must be approved in writing by the authorized representatives of each institution.

Contd.....2

Office of the Principal, Kabi Jagadram Roy Govt. General Degree College, Mejia – 722 143.

1




Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



Government of West Bengal
Office of the Principal
Kabi Jagadram Roy Govt. General Degree College
Mejia – 722143.

(On NH-60), Gopalpur
Mejia, Distt. Bankura
West Bengal.
Phone: +91-3241-250250
E-mail: kjrgdcmejia@gmail.com
Web: www.ggdcmejia.in

Mr. Pratim Basak, Assistant Professor of History of Kabi Jagadram Roy Government General Degree College, Mejia will serve as the primary liaison between the two institutions to facilitate the development of future activities.

Terms and Conditions:

This duration of this Agreement will remain valid for a period of **five (5) years** and become effective upon the date of signature by both parties. Amendments can be made by the mutual consent of both parties. This Agreement may be terminated by either Party with advance written notice of at least thirty (30) days. Upon notice of termination both parties agree to work in faith to enable visiting students to complete their respective projects unopposed by the termination. The agreement may be extended by the mutual consent of the two parties after five-year period, and it must be renewed in writing. All activities will follow existing guidelines of the Govt. of India, State Govt., UGC and University.

This Memorandum of Understanding completed in English is hereby signed in two (2) copies by both parties on the **16th day of February 2023** with one (1) copy each remaining in the possession of each institution.

For, Kabi Jagadram Roy Government General Degree College

AB
16/02/2023

Officer-in-Charge

Kabi Jagadram Roy Government General Degree College
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.

Signature of Witness:

Ashu
16/02/2023

Name: (DR. ARESH KUMAR MAJI)

Designation:

Address:

Co-ordinator, IQAC
Kabi Jagadram Roy Government
General Degree College
Mejia Bankura PIN-722143

For, St. Xavier's College

AR 16/02/2023

Principal

St. Xavier's College

Principal
St. Xavier's College
St. Xavier's Road
Burdwan-713103

Arijit Bhattacharya 16/02/2023
Name: ARIJIT BHATTACHARYA
Designation: ASSISTANT PROFESSOR
Address: DEPARTMENT OF BIOTECHNOLOGY,
ST. XAVIER'S COLLEGE,
SRIPALLY, BURDWAN.

Office of the Principal, Kabi Jagadram Roy Govt. General Degree College, Mejia – 722 143.

2



AB

Officer-in-Charge

Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



Government of West Bengal
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MEJIA – 722143

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E-mail: kjrggdcmejia@gmail.com
Website: www.kjrggdc.ac.in



ST. XAVIER'S COLLEGE

St. Xavier's Road
P.O. Sripalli, Burdwan - 713 103
West Bengal, India.

Date- 27.02.23

TO WHOM IT MAY CONCERN

This is to certify that **Mr. Pratim Basak**, Assistant Professor of History, Kabi Jagadram Roy Government General Degree College, Mejia has delivered a special lecture on “Sources; Prehistory and Proto – historic cultures” at St. Xavier's College, Burdwan on 27.02.23 (Monday) under the Faculty Exchange Programme as a part of the Memorandum of Understanding (MoU) between St. Xavier's College, Burdwan and Kabi Jagadram Roy Government General Degree College, Mejia.

We appreciate his adept articulation and profound knowledge which not only enriched the young minds of those present but also left a profound and lasting impression. We are grateful for his efforts in enriching the standard of education at our institution.

Rev. Fr. G. Paul Arockiam S.J.

Rev. Fr. G. Paul Arockiam S.J

Principal
St. Xavier's College
St. Xavier's Road
Burdwan-713103



Phone: 0342-2950524

Website: sxcb.edu.in

E-mail: college@sxcb.edu.in



[Handwritten Signature]

Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



Government of West Bengal
Office of the Principal
Kabi Jagadram Roy Government General Degree College
MEJIA – 722143

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Phone: +91-3241-250250
E-mail: kjrgdcmejia@gmail.com
Website: www.kjrgdc.ac.in



ST. XAVIER'S COLLEGE, BURDWAN
St. Xavier's Road, P.O. Sripally,
Purba Bardhaman – 713103, West Bengal



**KABI JAGADRAM ROY GOVT.
GENERAL DEGREE COLLEGE**
(On NH 60), Gopalpur, Vill+P.O. - Mejia,
Bankura 722143, West Bengal

FACULTY / STUDENTS EXCHANGE PROGRAMME

ACADEMIC SESSION – 2022 -2023

Between KABI JAGADRAM ROY GOVT. GENERAL DEGREE COLLEGE &
ST. XAVIER'S COLLEGE, BURDWAN

Under Memorandum of Understanding (MoU), Dated: 16.02.2023

1.	Name of the Faculty Member	Mr. Pratim Basak
2.	Name of the Department	History
3.	Name of the College of the Faculty Member	Kabi Jagadram Roy Govt. General Degree College
4.	Date of the Faculty Exchange Programme	27/02/23
5.	Name of the Topic	Sources; Prehistory and Proto historic cultures
6.	Is the Lecture discipline specific / Inter disciplinary or Multi Disciplinary? (Tick the Option)	<input type="checkbox"/> Discipline -Specific
		<input checked="" type="checkbox"/> Inter -Disciplinary
		<input type="checkbox"/> Multi -Disciplinary
7.	If the Lecture is discipline specific / Inter disciplinary or Multi Disciplinary, Mention the name of the concerned departments involved (Tick the Option)	a) English
		b) Sociology
		c) Geography
		d)
8.	Number of students attended the Lecture	
9.	Feedback	good

SC/HEC
Signature of the Principal
of the Host College

Principal
St. Xavier's College
St. Xavier's Road
Burdwan-713103

Basak
Signature of the Faculty Member
Participating in the
Faculty Exchange Programme

Assistant Professor
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143 Dist-Bankura, W.B.

SKJ
Signature of the
IQAC Coordinator
IQAC COORDINATOR
ST. XAVIER'S COLLEGE
BURDWAN



SKJ
Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



Government of West Bengal
Office of the Principal
Kabi Jagadram Roy Government General Degree College
MEJIA – 722143

(On NH-60)
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West Bengal.
Phone: +91-3241-250250
E-mail: kjrggdcmejia@gmail.com
Website: www.kjrggdc.ac.in



ST. XAVIER'S COLLEGE, BURDWAN
St. Xavier's Road, P.O. Sripally,
Purba Bardhaman – 713103, West Bengal



**KABI JAGADRAM ROY GOVT.
GENERAL DEGREE COLLEGE**
(On NH 60), Gopalpur, Vill+P.O. - Mejia,
Bankura 722143, West Bengal

**FACULTY / STUDENTS EXCHANGE PROGRAMME
ACADEMIC SESSION – 2022 -2023**

Between KABI JAGADRAM ROY GOVT. GENERAL DEGREE COLLEGE &
ST. XAVIER'S COLLEGE, BURDWAN

Under Memorandum of Understanding (MoU), Dated: 16.02.2023

STUDENT'S ATTENDANCE SHEET

SL. No.	NAME/SIGNATURE OF THE STUDENT WITH DATE	SL. No.	NAME/SIGNATURE OF THE STUDENT WITH DATE
1.	Anchisman Nandi 27/02/23		
2.	Ahama Roy 27/02/23		
3.	Ankadipta Mitra 27/02/23		
4.	Fauzul Adil 27/02/23		
5.	Kazi Shoyib Alam 27/02/23		
6.	Jewsa Mukmu 27/02/23		
7.	Shreya Sarkar 27/02/23		
8.	Sampniti Dana. 27/02/23		
9.	Shilckha Karmakar 27/02/23		
10.	Suhana Bhatter 27/02/23		
11.	Shrutama Agnihotry 27/02/23		
12.	Shubhan Sarkar 27/02/23		
13.	Rohan Bhowmick 27/02/23		
14.	Sampurna Acharyee 27/2/23		

BC I HES
Signature of the Principal
of the Host College

Principal
St. Xavier's College
St. Xavier's Road
Burdwan-713103

[Signature]
Signature of the Faculty Member
Participating in the
Faculty Exchange Programme

Assistant Professor
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143 Dist-Bankura, W.B

[Signature]
Signature of the
IQAC Coordinator
**IQAC COORDINATOR
ST. XAVIER'S COLLEGE
BURDWAN**



[Signature]

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Mejia-722143, Dist-Bankura, W.B.



Government of West Bengal
Office of the Principal
Kabi Jagadram Roy Government General Degree College
Mejia - 722143.

(On NH-60), Gopalpur
Mejia, Distt. Bankura
West Bengal.
Phone: +91-3241-250250
E-mail: kjrggdcmejia@gmail.com
Web: www.ggdcmejia.in

TO WHOMSOEVER IT MAY CONCERN

Certified that Mr Arijit Bhattacharya, Assistant Professor, Department of Biotechnology, St. Xavier's College, Burdwan has delivered a special lecture on *Physical Optics and Modern Physics* at Kabi Jagadram Roy Government General Degree College, Mejia, on **02.03.2023** (Thursday) in connection with the Faculty Exchange Programme as a part of the Memorandum of Understanding (MoU) signed on 16.02.2023 between Kabi Jagadram Roy Government General Degree College, Mejia and St. Xavier's College, Burdwan.

We are very much grateful to Prof. Bhattacharya.


(Officer-in-Charge)

Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.

Received
Arijit Bhattacharya
02/3/2023.

ARIJIT BHATTACHARYA
ASSISTANT PROFESSOR
DEPARTMENT OF BIOTECHNOLOGY
ST. XAVIER'S COLLEGE, BURDWAN.

Office of the Principal, Kabi Jagadram Roy Govt. General Degree College, Mejia - 722 143.




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E-mail: kjrgdcmejia@gmail.com
Website: www.kjrgdc.ac.in

KABI JAGADRAM ROY GOVERNMENT GENERAL DEGREE
COLLEGE

Mejia, Dist. - Bankura, PIN 722 143, West Bengal

Attendance Sheet

Topic of Lecture	:	Physical Optics and Modern Physics
Date and Time of Lecture	:	02.03.2023
Resource Person	:	Mr. Arijit Bhattacharya
Total No. of Participants	:	12

Sl. No.	Name	Details of Participants	Signature
1.	ADITI GOPE	2nd Sem. Geology (H)	Aditi Gope
2.	SUBHAJIT KUNDU	2nd Sem Geology (H)	Subhajit Kundu
3.	SATHI LAJEK	4th Sem Geology (H)	S. Sathu
4.	SOURIN MAITY	4th Sem Geology (H)	Sourin Maity
5.	SUNANDA CHOWDHURY	6th Sem Geology (H)	Sunanda Chowdhury
6.	MILARO SHIT	6th Sem Geology (H)	Milaro Shit
7.	APURBA DEY	6th Sem Geology (H)	Apurba Dey
8.	DR. SURAJ KUMAR KARMAKAR	Asst. Prof. in Physics	Suraj
9.	ARIJIT CHATTERJEE	Assistant Prof.	A. Chatterjee
10.	BISWAJIT BERA	Asst. Prof. of Mathematics	B. Bera
11.	WRITTICK BHATTACHARYA	Asst. Prof. of Philosophy	Writtick Bhattacharya
12.	INDRANI MONDAL	Asst. Prof. of Geology	Indrani Mondal


02/03/2023
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Kabi Jagadram Roy Government General Degree College
Mejia - 722143, Dist. - Bankura, W.B.


.....
Signature of Resource Person
ASSISTANT PROFESSOR
Dept. of Biotechnology
St. Xavier's College
Burdwan - 713103




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Mejia-722143, Dist-Bankura, W.B.



Date: 02.01.2024

SUMMARY OF THE ACTIVITIES CONDUCTED UNDER THE MoU
BETWEEN
KABI JAGADRAM ROY GOVERNMENT GENERAL DEGREE COLLEGE, MEJIA
AND
ST. XAVIER'S COLLEGE, BURDWAN

Certified that a MoU was signed on **16.02.2023** for an initial period of **05 (five) years** (i.e., up to **15.02.2028**) between Kabi Jagadram Roy Government General Degree College, Mejia, Dist. - Bankura, West Bengal, PIN 722 143, and St. Xavier's College, St. Xavier's Road, P.O. Sripalli, Burdwan – 713 103. The list of activities conducted under the aforesaid MoU till **02.01.2024** is as follows.

Sl No.	Type of activity	Academic Year	Date (s) of activity		Brief description of the activity
			From	To	
01	Faculty Exchange	2022-2023	27.02.2023	27.02.2023	Mr. Pratim Basak, Assistant Professor of History, Kabi Jagadram Roy Government General Degree College, Mejia has delivered a lecture on Sources; Prehistory and Proto – historic cultures at St. Xavier's College, Burdwan.
02	Faculty Exchange	2022-2023	02.03.2023	02.03.2023	Mr Arijit Bhattacharya, Assistant Professor, Department of Biotechnology, St. Xavier's College, Burdwan has delivered a special lecture on Physical Optics and Modern Physics at Kabi Jagadram Roy Government General Degree College, Mejia.

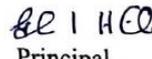
Outcome of the MoU: The lectures were very much impressive to the students and the faculty members. Thus, both the colleges have been benefitted by the activities through the MoU.


(ALOKE KUMAR DAS)
Officer-in-Charge

Kabi Jagadram Roy Government General Degree College

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Principal
St. Xavier's College, Burdwan


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West Bengal.
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E-mail: kjrggdmejia@gmail.com
Web: www.ggdmejia.in

Date: 20.12.2022

To whom it may concern

This is to certify that the College has no objection in permitting Sri/Smt./Dr. **Nivedita Chakraborty**, **Assistant Professor in Geology** to continue her collaborative research/academic linkages/activities with **Department of Applied Geology, School of Applied Natural Sciences, Adama Science and Technology University, Ethiopia** to be started in January, 2023 without hampering the normal duties of the College.

I wish her all success in life.

Alope Kumar Das
Officer-in-Charge

Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
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Website: www.kjrggdc.ac.in



አዳማ ሳይንስና ቴክኖሎጂ ዩኒቨርሲቲ

Adama Science and Technology University

☎:-251-022-211-00-97 Fax:- 251-222-10-00-75
✉ P.O.box 1888, Adama Ethiopia

School of Natural Sciences

2nd January 2024

Certificate of Collaborative Research

This is to certify that me (Professor Dr. Sreepat Jain, Adama Science and Technology University, Adama, Ethiopia) and Dr. Nivedita Chakraborty (Assistant Professor, Department of Geology, Kabi Jagadram Roy Government General Degree College, Mejia, Bankura, West Bengal, India), are actively involved in a collaborative edited book project titled "The Geology of Cauvery Basin (South India)" for CRC Press (Taylor and Francis, UK) since 2nd January, 2023. The contract has been accepted by the prestigious publishing house.

The proposed edited book comprising of contribution from national and international scientists, has a multidisciplinary outlook, covering a wide spectrum of topics such as Sedimentology, Stratigraphy, Structure, Tectonics, Hydrocarbon prospects, Paleoclimate, Paleobiogeography and Paleontology (macro and micro; fauna and flora). The book will provide an up-to-date information on the varied geological aspects of the Cauvery Basin and thereby aims to be a one-stop-shop resource for both academicians and industry professionals. Cretaceous deposits are excellent analogs (representatives) to modern-day increasingly globally warm climate, and hence, studying the former enables a better understating of changes brought out by warming oceans and climate to biota, their preservation potential (future hydrocarbon prospecting), depositional history and environmental conditions. Past is the key to the present! Hence, this edited book with its multidisciplinary subject matter encompassing topics on Stratigraphy, Sedimentation and Climatic oscillations (Section 1), Structure, Tectonics and Hydrocarbon perspective (Section 2), and Paleoecology, Paleobiogeography and Paleobiota (Section 3) will immensely interest postgraduate students, researchers, and industry professionals.

Thus, this collaboration with Dr. Nivedita Chakraborty will result in the better understanding of the Cretaceous sedimentary successions of the Cauvery Basin.

This certificate should also serve as a testament to teamwork, professionalism, and ability to work harmoniously across institutional boundaries. Throughout the proposal writing and submission stage, Dr. Nivedita Chakraborty has shown outstanding and unwavering commitment and promptness.

I wish Dr. Nivedita Chakraborty success in all her future endeavors.

Professor (Dr.) Sreepat Jain
Ph. D. (India), Ph.D. (USA), PDF (USA)
Department of Applied Geology, School of Applied Natural Sciences,
Adama Science and Technology University, P.O. Box 1888, Adama, Ethiopia.
Mobile: +251-0909766711 (Ethiopia); +91 9899951163 (India)
E-mail: sreepatjain@gmail.com



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9781032710495 PB
Chelsea Reeves

EDITOR AGREEMENT

made and entered into this 6th day of September 2023, by and between

Taylor & Francis Group, LLC, a State of Delaware limited liability company, having its principal place of business at 2385 Executive Center Drive, Suite 320, Boca Raton, Florida 33431, U.S.A. (the "Publisher")

and

Sreepat Jain, Nivedita Chakraborty

(whether one or more, the "Editor")

The Publisher and the Editor hereby agree as follows:

1. PREPARATION AND DELIVERY OF MANUSCRIPT

(a) The Editor shall facilitate the preparation by the contributors (the "Contributors") of individual chapters or other editorial contributions (the "Contributions"), which combined create the textual material called the "Manuscript", and supply to the Publisher within a reasonable time, but no later than **1 May 2024**, a work consisting of approximately **three hundred and fifty (350)** Manuscript pages, up to **thirty (30)** Illustrations (including the Alt Text (as defined below)), and the subject index (the "Index") (jointly, the "Work") with the title:

Geology of Cauvery Basin in South India

or such other title as may be determined by the Publisher in consultation with the Editor.

The Editor shall submit the Manuscript in a suitable electronic format specified by the Publisher. The Publisher will provide guidelines to assist the Editor.

The Illustrations submitted to the Publisher must include original electronic art files suitable for placement or reproduction, in the format specified by the Publisher. Each Illustration must include a caption and an alternative text description to assist print impaired readers ("Alt Text"). As deemed necessary, the Publisher agrees to touch up, redraw, or otherwise convert line drawings into an acceptable electronic format for reproduction, the reasonable cost of which will be applied against the Editor's Royalty Account. In the event the Editor does not deliver the Index in form and

content acceptable to the Publisher, within the time period established by the Publisher in consultation with the Editor, the Publisher shall apply a reasonable charge to the Editor's Royalty Account for expenses incurred by the Publisher to compile the Index.

(b) The Editor shall make every reasonable effort to ensure that the Contributors obtain original material for their Contributions. The Editor will ask the Contributors to provide the Publisher with written permissions necessary for the use of material which is not original or they do not own, and all fees and expenses for the use of such material will be borne by the Contributors. The Publisher shall make available to the Editor and Contributors Permission Verification Forms that have been approved by the Publisher for the Editor and Contributors to list copyrighted material for which permission has been obtained. If permissions are not obtained within two (2) weeks after the Work is delivered and the Editor is unable to obtain these permissions, the Publisher has the right (but not the obligation) to take such action as shall be required to obtain the necessary permissions. Any permission charges or other expenses incurred by the Publisher in securing such permissions (including reasonable legal fees), shall be charged to the Royalty Account.

(c) The Editor is responsible for ensuring that the Contributors provide a chapter abstract for each chapter (approximately 150-200 words each) at the time of delivery of the Work to the Publisher. These abstracts will become part of the book's metadata but will not be printed in the book, and should not be listed in the Table of Contents.

2. MANUSCRIPT EDITING

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All parties of this Agreement agree to execute this Agreement by electronic signature and agree to be subject to the provisions of the U.S. E-SIGN Act (i.e., the [Electronic Signatures in Global and National Commerce Act \(ESIGN, Pub L. 106-229, 14 Stat 464](#), enacted June 30, 2000, [15 U.S.C. Ch. 96](#)).

IN WITNESS WHEREOF, the parties hereto have duly electronically executed this Agreement effective the last date signed.

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Name: SREEPAT JAIN	
PLEASE NOTE: Royalty Statements and any non-electronic monetary payments <i>will be sent to your permanent domicile</i> . Also, we prefer to send all correspondence sent via postal services and complimentary copies to this location.	
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Country: INDIA	Citizenship: INDIAN
Primary Phone: 9899951163	Alternate Phone:
Fax:	Email: SREEPATJAIN@GMAIL.COM
Business / Academic Information: If you would like complimentary copies and all correspondence, excluding Royalty information , sent to the address below, please check here: <input type="checkbox"/>	
Affiliation: Department of Applied Geology, Adama Science and Technology University, P.O. Box 1888, Adama, Ethiop	
Street:	
City: ADAMA	State/ Province: OROMIA
	Zip/Postal Code: 1888
Country: ETHIOPIA	
Editor: <i>Sreepat Jain</i>	07-Sep-23 Date
Joseph Clements, Publisher – Engineering	08-Sep-23 Date

Ima.Britton@TaylorandFrancis.com

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IN WITNESS WHEREOF, the parties hereto have duly electronically executed this Agreement effective the last date signed.

EDITOR INFORMATION:

Name: NIVEDITA CHAKRABORTY	
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City: DURGAPUR	State/Province: WEST BENGAL
	Zip/Postal Code: 713212
Country: INDIA	Citizenship: INDIAN
Primary Phone: 9051510190	Alternate Phone: 8016614395
Fax:	Email: NIVEDITA.JUGEO@GMAIL.COM
Business / Academic Information: If you would like complimentary copies and all correspondence, excluding Royalty information, sent to the address below, please check here: <input type="checkbox"/>	
Affiliation: Department of Geology, Kabi Jagadram Roy Government General Degree College <input type="checkbox"/>	
Street: <input type="checkbox"/>	
City: Mejia, Bankura	State/Province: West Bengal
	Zip/Postal Code: 722143
Country: India	
Editor's Signature:	08-Sep-23 Date
Joseph Clements, Publisher – Engineering	08-Sep-23 Date

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West Bengal.
Phone: +91-3241-250250
E-mail: kjrggdcmejia@gmail.com
Web: www.ggdcmejia.in

MEMORANDUM OF UNDERSTANDING (MoU)

Between

KABI JAGADRAM ROY GOVERNMENT GENERAL DEGREE COLLEGE
Gopalpur (on NH 60), P.O. - Mejia, Dist. – Bankura, PIN 722 143, West Bengal

and

JAGANNATH KISHORE COLLEGE, PURULIA
P.O. and Dist. - Purulia, PIN 723 101, West Bengal

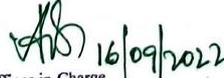
This agreement between Kabi Jagadram Roy Government General Degree College, Mejia, Dist.-Bankura, PIN 722 143, West Bengal and Jagannath Kishore College, Purulia, Dist. - Purulia, PIN 723 101, West Bengal is signed on **16th September, 2022**.

Objectives, Scope, and Major Activities:

Both institutions agree to encourage the development of the following types of activities:

1. Visits and formal exchanges of faculty, students and administrators in specific areas of education, research and outreach.
2. Cooperate in Undergraduate education and training through library, museum as well as laboratory resources.
3. Organize joint conferences, seminar, webinar, symposia, or other scientific meetings on subjects of mutual interest.
4. Exchange of academic information and materials.
5. Explore the possibilities for developing joint research programs and collaborations.

Contd....2


16/09/2022
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16/09/2022
Principal
J.K. College, Purulia

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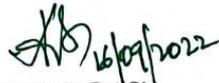


6. All such activities will be done as per existing guidelines of the Government of India, State Government, UGC and University

General terms and Conditions:

1. **Duration of MOU:** This MOU will be effective from the date of agreement and will have an initial duration of 05 (five) years. The MOU may be extended with the consent of both the parties.
2. **Confidentiality:** Both the colleges will maintain confidentiality about the terms and conditions of the agreement.
3. **Termination of MOU:** This MOU may be terminated at any time with a 15 days prior notice from either of the parties.
4. **Modification:** Any alteration / modification to the MOU may be done with mutual consent of both the parties. Involvement of new departments/activities may be done from time to time with mutual consent of both the colleges.

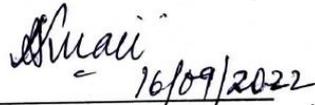
For, Kabi Jagadram Roy Government General
Degree College, Mejia


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Officer-in-Charge

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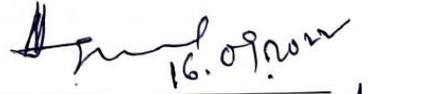
In Witness of:


16/09/2022
(Dr. Ashok Kumar Maji)
Co-ordinator, IQAC
Kabi Jagadram Roy Government
General Degree College
Mejia, Bankura PIN-722143

For, Jagannath Kishore College, Purulia


(DR. SANTANU CHATTOPADHYAY)
Principal
Jagannath Kishore College

Principal
J.K. College, Purulia


16.09.2022
Dr. Ashoke Kumar Agar
Co-ordinator
IQAC
J.K. College, Purulia




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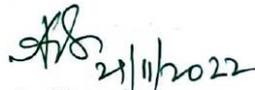


TO WHOM IT MAY CONCERN

This is to certify that **Dr. Subhrajyoti Das**, Assistant Professor of Geology, Jagannath Kishore College, Purulia has conducted a special class on 'Precambrian crustal evolution: special emphasis on eastern India' for the students of the Department of Geology at Kabi Jagadram Roy Government General Degree College, Mejia on **21st November, 2022** in connection with the Faculty Exchange Program as a part of the MoU signed on 16th September, 2022 between Kabi Jagadram Roy Government General Degree College, Mejia, Dist. - Bankura, West Bengal, PIN 722 143, West Bengal and Jagannath Kishore College, Purulia, Dist. - Purulia, PIN 723 101, West Bengal.

Received

Subhrajyoti Das
21/11/22


21/11/2022
(Officer-in-Charge)

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Jagannath Kishore College, Purulia



Govt. Aided (erstwhile Govt. Sponsored) College

UG & PG

P.O. & Dist. : Purulia
PIN : 723101 (W.B.)
(NAAC ACCREDITED)

Email: jkcpr.1948@gmail.com
principal@jkcpr.ac.in
Website : www.jkcpr.ac.in
Mob. : 9434111565

Ref. No.

Date 05/12/2022

TO WHOM IT MAY CONCERN

This certificate is awarded to **Ms. Indrani Mondal**, Assistant Professor of Geology, Kabi Jagadram Roy Government General Degree College, Mejia, for conducting special lectures followed by a hands on training for **Mesosocopic study of morphology and identification of Mollusks** on **05.12.2022** as a part of faculty exchange program and sharing of academic information in connection with the MoU between Jagannath Kishore College, Purulia and Kabi Jagadram Roy Government General Degree College, Mejia signed on 16.09.2022.


(Principal) 05/12/2022
Jagannath Kishore College
Pri.
J.K. College, Purulia
Principal
J.K. College, Purulia




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JAGANNATH KISHORE COLLEGE
Purulia, Dist. - Purulia, PIN 723 101, West Bengal
[E-mail: jkep.1948@gmail.com; Phone: 03252-222416]

Attendance Sheet

Topic of the : Lectures followed by a hands-on training for Mesoscopic study
activity of morphology and identification of Mollusks
Date and Time of : 05.12.2022(11.00 to 13.00 Hours)
Lecture
Resource Person : Ms. Indrani Mondal, Assistant Professor of Geology,
KabiJagadram Roy Government General Degree College

Sl. No.	Name	Details of Participants	Signature
①	Hemraj Paramanik	Student (VI sem)	
②	Riddhi Biswas	student (VI sem)	
③	Pratim Adhikary	Student (VI sem)	
④	Barshan Mahato	student (VI sem)	
⑤	Ashishk Poddar	Student (VI Sem)	
⑥	Mitul Patra	Student (VI sem)	
⑦	Tanni Mondal	Student (VI Sem)	
⑧	Achintya Mahato	Student (VI Sem)	
⑨	Sayan Palit	Student (VI Sem)	
⑩	Jayanta Banerjee	Student (VI Sem)	
⑪	Nupur Mishra	Student (VI Sem)	
⑫	Sudipto Banerjee	Asst. Professor.	
⑬	SUBHAJYOTI DAS	Asst. Professor	
⑭	SAYANTAN DATTA	Asst. Prof.	
⑮	JAGRITI PAL	SACT	

05.12.2022
Principal
J.K. College, Purulia

05.12.2022
Assistant Professor
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143 Dist-Bankura, W.B



Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



Date: 28.11.2023

**SUMMARY OF THE ACTIVITIES CONDUCTED UNDER THE MoU
BETWEEN
KABI JAGADRAM ROY GOVERNMENT GENERAL DEGREE COLLEGE, MEJIA
AND
JAGANNATH KISHORE COLLEGE, PURULIA**

Certified that a MoU was signed on 16.09.2022 for an initial period of 05 (five) years (i.e., valid up to 15.09.2027) between Kabi Jagadram Roy Government General Degree College, Mejia, Dist. - Bankura, West Bengal, PIN 722 143, and Jagannath Kishore College, Purulia, Dist. - Purulia, PIN 723 101, West Bengal. The list of activities conducted under the aforesaid MoU till 28.11.2023 is as follows.

Sl No.	Type of activity	Academic Year	Date (s) of activity		Brief description of the activity
			From	To	
01	Faculty Exchange	2022-2023	21.11.2022	21.11.2022	Dr. Subhrajyoti Das, Assistant Professor of Geology, Jagannath Kishore College, Purulia has delivered a lecture on 'Precambrian crustal evolution: special emphasis on eastern India' for the students of the Department of Geology at Kabi Jagadram Roy Government General Degree College, Mejia
02	Faculty Exchange	2022-2023	05.12.2022	05.12.2022	Ms. Indrani Mondal, Assistant Professor of Geology, Kabi Jagadram Roy Government General Degree College, Mejia, delivered lectures followed by a Hands-on training for Mesosocopic study of morphology and identification of Mollusks at Jagannath Kishore College, Purulia.

Outcome of the MoU: The aforesaid lectures, hands on training on fossil identification and interactive sessions during the faculty exchange programmes under the MoU, imparted many new information and ideas among the students of both the colleges.


(ALOKE KUMAR DAS)
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Kabi Jagadram Roy Government General Degree College

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(DR. SANTANU CHATTOPADHYAY)
Principal
Jagannath Kishore College, Purulia

Principal
J.K. College, Purulia



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Web: www.ggdcmejia.in

Date: 26.07.2022

To whom it may concern

This is to certify that the College has no objection in permitting Sri/Smt./Dr. **Nivedita Chakraborty**, **Assistant Professor in Geology** to continue her collaborative research/academic linkages/activities with **Department of Geology, Sahid Matagini Hazra Government General Degree College for Women** to be started in August, 2022 without hampering the normal duties of the College.

I wish her all success in life.

Alope Kumar Das
Officer-in-Charge

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GOVERNMENT OF WEST BENGAL
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Dept. of Geology

SHAHID MATANGINI HAZRA GOVT. GENERAL DEGREE COLLEGE FOR WOMEN

Chaksrikrishnapur-Kulberia :: Kulberia :: Purba Medinipur 721649



matanginicollege@gmail.com / principal@matanginicollege.ac.in ☎ 03228-262261/262262 🌐 www.matanginicollege.ac.in

This is to certify that **Dr. Nivedita Chakraborty**, Assistant Professor, Department of Geology, Kabi Jagadram Roy Government General Degree College, Mejia, Bankura is associated with me in collaborative geological field work on Permo-Triassic rocks in Raniganj Basin (Damodar valley), West Bengal since 2022. We did geological field trip to different remote areas of Bankura and Purulia district during the month of August, November and December, 2022 & March, 2023 (total 22 days). This collaborative linkage is for academic and research purpose.

Lovely Burman 30.01.2023
(Signature) Assistant Professor

Lovely Burman
Assistant Professor
Shahid Matangini Hazra Government
General Degree College for Women
Chaksrikrishnapur, Kulberia, Nimto
Tamluk, Purba Medinipur

Department of Geology

Shahid Matangini Hazra Government
General Degree College for Women



[Handwritten Signature]

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National Conference on
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&
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(9th to 11th December, 2022)

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National Conference on 'Current Understanding From Indian Sedimentary Basins and Road Ahead'
Department of Geology, University of Delhi, Delhi; 9th-11th December, 2022

ORAL

Tidal (?) influence recorded within Gondwana fluvials: Triassic Panchet Formation, Raniganj Basin (Damodar valley), India

Nivedita Chakraborty^{1*}, Lovely Burman², Anudeb Mandal³, Souryadip Ghosh⁴, Indrani Mondal^{1,4}
¹Department of Geology, Kabi Jagadram Roy Government General Degree College, Bankura-722143, India

²Department of Geology, Sahid Matangini Hazra Government General Degree College for Women, Purba Medinipur-721649, India

³Department of Geology, Presidency University, Kolkata-700073, India

⁴Department of Geological Sciences, Jadavpur University, Kolkata-700032, India

*Presenting author: nivedita.jugeo@gmail.com

Gondwana sediments of the early Triassic Panchet Formation in Raniganj Basin are hitherto inferred as continental fluvial deposits. Field investigation, in accord with the existing view, suggests an overall braided channel pattern within this formation in contrast to the high sinuosity meandering fluvial system comprising the underlying Raniganj Formation. The current study, however, arouses interest recording a few startling sedimentary features within the basal part of the Panchet Formation. The key observations include: i) heterolithic rhythmic packages of thinly laminated sand/silt-mud couplets; ii) periodic variation in foreset thickness; iii) systematic change in cross-lamina style and foreset angle; iv) downcurrent change in brink point height; v) cyclic sequences showing sandstone foresets draped with single or double mud lamina; vi) preservation of mud in ripple troughs; vii) local reversal in paleocurrent direction. Collectively, these features are very difficult to explicate within a low-sinuosity fluvial realm but point toward tidal influence. Present study also confirms presence of at least two remarkable syn-sedimentary deformed (SSD) horizons at two distinct stratigraphic levels within the lower part of the Panchet Formation. At one, the SSD package is huge in dimension and underlies the tidally influenced fluvial deposits. Ample subsidence is evident; possibly guiding path for the tide to impinge upon the continental interior. Another SSD horizon of comparatively lesser dimension is marked at a different level. Here palaeocurrent data within the channel system overlying the SSD zone shows convergence in flow direction and thereby probably indicating an amplified depositional slope.



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6 - 8th, December, 2023

Abstracts



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Tamil Nadu, India**



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Palaeoenvironment, palaeocurrent and palaeohydraulics of the Lower Triassic Panchet Formation: a case study from Banspetali in Raniganj Basin, Eastern India

Lovely Burman^{1*}, Nivedita Chakraborty², Anudeb Mandal³

¹Department of Geology, Shahid Matangini Hazra Government General Degree College for Women, Purba Medinipur – 721649, W.B.

²Department of Geology, Kabi Jagadram Roy Government General Degree College, Bankura - 722143, W.B.

³Department of Geology, Presidency University, Kolkata - 700073, W.B.

Email : lovelyburman019@gmail.com

The Raniganj Basin in Damodar Valley, India accommodates ~2000m thick continuous succession of Gondwana Supergroup (Late Carboniferous to Triassic). The present study deals with the Lower Triassic Panchet Formation overlying the Upper Permian Raniganj Formation, and encompassing the P-T boundary in terrestrial realm. Field work has been carried out along the stream sections in and around Banspetali area, within the fault controlled intracratonic rift basin. Although the geochemical and palaeontological evidences are relatively well documented, the sedimentology of this area lacks needed attention. Current investigation intends to form a preliminary idea on palaeoenvironment, palaeocurrent and palaeohydraulics of Banspetal section. Sedimentary facies analyses have been performed identifying four channel belts constituting eleven facies within the Panchet Formation in order to acquire knowledge regarding palaeogeography, transportation mechanism and depositional environment of the clastic Gondwana sediments. Field investigation points towards an overall low-sinuosity braided channel pattern. Thick multi-storied amalgamated channel units with high average bed-thickness and lesser proportion of overbank fines, dominance of mid-channel bars, overall fresh appearance of pebbly to medium grained sand sized sediments, absence of carbonaceous content in mica rich shales and absence of coal broadly characterise the studied Formation. Petrography suggests mineralogically arkosic to sub-arkosic composition, texturally immature to sub-mature character with poor to moderate sorting. Present study also confirms remarkable presence of syn-sedimentary deformation structures associated with the third channel belt within the succession. Deformation structures are characterized by a range of morphology and style: slump folds, convolution, distorted layers in chaotic fashion, load and flame structures, overturned cross-bedding and slide planes. The deformed layers are bounded by undeformed beds of similar facies. Palaeocurrent analysis shows deviation in flow direction from NE to NW below and above the deformed level respectively. Palaeohydrological analysis indicates an increase in different fluvial parameters: mean channel width, mean channel depth, mean discharge, principal stream length and the rest in post SSD package. Moreover an amplified depositional slope and a convergence in flow direction are indicated beyond the disturbed zone. Probably a change in drainage area for post SSD channel systems is reflected. The results of this study are expected to serve as a basis for further sedimentological investigation in the study area.

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SUMMARY OF THE COLLABORATIVE RESEARCH WORK AND OUTCOME

1. Name of the Collaborating Institution with contact details : **SAHID MATANGINI HAZRA GOVERNMENT GENERAL DEGREE COLLEGE FOR WOMEN**
Chaksrikrisnapur, Kulberia, Dist. Purba Medinipur
Phone: 8637835672
E-Mail: <lovelyburman019@gmail.com>
[Ms. Lovely Burman, Assistant professor of Geology]
2. Start Date of Collaboration : August, 2022
3. End date of Collaboration : Continuing
4. Duration : August, 2022-Continuing
5. Purpose of the Collaboration : Collaborative geological research field work and Publication
6. Collaborative Research Activities : Dr. Nivedita Chakraborty, Kabi Jagadram Roy Government General Degree College and Ms. Lovely Burman, Department of Geology, Sahid Matangini Hazra Government General Degree College For Women carried out collaborative geological research field work in Permo-Triassic rocks of Raniganj Basin, West Bengal since August, 2022 and presented 02 papers in two National Conferences in 2023.
7. Outcomes in terms of Research Publications: i) **Chakraborty, N., Burman, L., Mandal, A., Ghosh, S., Mondal, I., 2023.** Tidal (?) influence recorded within Gondwana fluvials: Triassic Panchet Formation, Raniganj Basin (Damodar valley), India at Department of Geology, University of Delhi, p.10 (National conference on 'Current Understanding from the Indian Sedimentary Basins and Road Ahead' & 38th Convention, Indian Association of Sedimentologists).
ii) **Burman, L., Chakraborty, N., Mandal, A., 2023.** Paleoenvironment, paleocurrent and paleohydraulics of the lower Triassic Panchet Formation: A case study from Banspetali in Raniganj Basin, Eastern India at Annamalai University, Chidambaram, p. 56 (International conference on 'Voyage of Sedimentology from the Mountains to the Oceans: An innovative trajectory' & 39th convention of Indian Association of Sedimentologists).

Nivedita Chakraborty

Dr. NIVEDITA CHAKRABORTY, W.B.E.S
Assistant Professor of Geology
Kabi Jagadram Roy Govt General Degree College
Mejia-722143, Dist.-Bankura, W.B.

Lovely Burman

Assistant Professor
Shahid Matangini Hazra Government
General Degree College for Women
Chaksrikrisnapur, Kulberia, Nimtouri
Tamluk, Purba Medinipur



[Signature]

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MEMORANDUM OF UNDERSTANDING (MoU)

Between

KABI JAGADRAM ROY GOVERNMENT GENERAL DEGREE COLLEGE
Gopalpur (on NH 60), P.O. - Mejia, Dist. – Bankura, PIN 722 143, West Bengal

and

BANKURA SAMMILANI COLLEGE
Bankura, Dist. - Bankura, PIN 722102, West Bengal

Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.

14/07/2022
Officer-in-Charge

This agreement between Kabi Jagadram Roy Government General Degree College, Mejia, a reputed academic higher education institution established in 2015, located at Gopalpur (on NH 60), P.O. – Mejia, Dist. – Bankura, PIN 722 143, West Bengal and Bankura Sammilani College, a reputed academic higher education institution established in 1948, located at Bankura, Dist.-Bankura, PIN 722 102, West Bengal is signed on the **14th day of July, 2022.**

Both the institutions herein have noted the importance the value of cooperation and have agreed to enter into this Memorandum of Understanding (MoU) regarding academic collaboration. The purpose of this non-binding MoU is to make possible academic and cultural exchange between both the institutions based on the principles of mutual equality and the reciprocity of benefits. Now, this memorandum of understanding is agreed by and between both the colleges hereto as follows:

Bankura Sammilani College
Principal
Bankura

14/07/2022

1. Objectives, Scope, and Major Activities

Both institutions agree to encourage the development of the following types of activities:

- Visits and formal exchanges of faculty, students and administrators in specific areas of education, research and outreach.
- Cooperate in Undergraduate education and training through library, museum as well as laboratory resources.
- Organize joint conferences, seminar, webinar, symposia, or other scientific meetings on subjects of mutual interest.
- Exchange of academic information and materials.
- Explore the possibilities for developing joint research programs and collaborations.

2. Responsibilities of the Institutions

The two institutions identify that the execution of any agreed upon activity will depend upon the interests and expertise of the individuals involved and the availability of financial resources, space and other resources.

Continued to Page – 2



14/07/2022

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Accordingly, the functioning of any exchange and cooperative programs based on this MoU shall be conferred and determined between the two institutions. It is further expected that both the institutions will be compliant with all applicable legislations of Government of India and State and University policies.

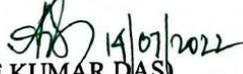
3. Duration and Option to Amend, Extend or Terminate

This MoU will become effective when signed by authorities of both institutions. The agreement will remain in effect for **05 (five) years** from the date of signature given below, and may be renewed or amended by mutual agreement of the institutions. The institutions should agree to periodically review the activities undertaken and the progress made and to consult concerning amendments, renewal or termination of this MoU. Either authority may terminate this MoU at any time by providing written notice prior to three months before such termination to the other authority.

4. General Terms

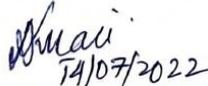
This MoU is not intended to, and does not create any right, benefit, or trust responsibility, substantive or procedural, enforceable by law or equity, by one institution, its officers, employees, or agents against the other institution, its officers, employees, or agents. Nothing in this MoU obligates either institution to commit or transfer any funds, assets, or other resources in support of projects or activities between the two institutions. Neither institution will use the name of the other, either expressly or by implication, in any publicity, solicitation or advertisement without the express written approval of the other institution to this MoU.

For, Kabi Jagadram Roy Government General
Degree College, Mejia


(ALOK KUMAR DAS)
Officer-in-Charge

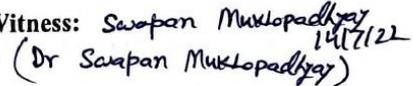
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Signature of Witness:


14/07/2022
(DR. ASESH KUMAR MAJUMDAR)
Co-ordinator, IQAC
Kabi Jagadram Roy Government
General Degree College
Mejia, Bankura. PIN-722143

For, Bankura Sammilani College, Bankura


(DR. SAMIR KUMAR MUKHERJEE)
Principal
Bankura Sammilani College
Principal
Bankura Sammilani College
Bankura

Signature of Witness: 
14/7/22
(Dr. Swapan Mukhopadhyay)
CO-ORDINATOR
IQAC BANKURA SAMMILANI COLLEGE




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ESTD. - 1948

NAAC ACCREDITED B⁺⁺ (3rd Cycle/CGPA : 2.97)

Ref. No.

Dated the ...16/07/2022.....

From : **Principal**

TO WHOM IT MAY CONCERN

Certified that **Dr. Asesh Kumar Maji**, Associate Professor of Geology of Kabi Jagadram Roy Government General Degree College, Mejia has acted as a Resource Person to deliver a lecture on '**Introduction to minerals and rocks**' held on **16.07.2022** at Bankura Sammilani College, Bankura in connection with the Faculty Exchange Program as part of the MOU signed on 14/07/2022 between Kabi Jagadram Roy Government General Degree College, Mejia, and Bankura Sammilani College, Bankura.

The valuable lecture of Dr. Maji is greatly acknowledged.



(Dr. Samir Kumar Mukherjee)
Principal
Bankura Sammilani College
Principal
Bankura Sammilani College
Bankura



E-mail : bankurasammilanicollege@gmail.com
Website : www.bankurasammilanicollege.net





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BANKURA SAMMILANI COLLEGE

Bankura, Dist.-Bankura, PIN 722 102 (West Bengal)
[E-mail: info@bankurasammilanicollege.net; Phone: 03242-250741]

Attendance Sheet

Topic of the : *Introduction to Minerals and Rocks*
activity
Date of Lecture : 16.07.2022
Resource Person : Dr. Aresh Kumar Maji, Associate Professor of Geology,
Kabi Jagadram Roy Government General Degree College

Sl. No.	Name	Details of Participants	Signature
1.	Purba Gupta	Sem - VI	Purba Gupta.
2.	ASTHA SHARMA	Sem - VI	Astha Sharma
3.	CHIRANJIT SWARADHAR	Sem - VI	Chiranjit Swaradhar
4.	DEBASHIS DHIBAR	Sem - VI	Debashis Dhibar
5.	SUBHAJIT PAL	Sem - VI	Subhajit Pal
6.	SURAJIT MANDAL	Sem - VI	Surajit Mandal
7.	MAMONI DUTTA	Sem - VI	Mamoni Dutta
8.	SHREYA DEY	Sem - VI	Shreya Dey
9.	SUPARNA MURMU	Sem - VI	Suparna Murmu
10.	BINA PAL	Sem - II	Bina Pal
11.	RITA DUTTA	Sem - II	Rita Dutta
12.	SOUMYADIP PANDA	Sem - II	Soumyadip Panda
13.	SHREYA ATHA	Sem - II	Shreya Atha
14.	PUJA GHOSH	Sem - II	Puja Ghosh
15.	MUKTADAR HOSSAIN	SACT-1	Muktadar Hossain
16.	DR. ULFAT KHAN	Assistant Professor	Ulfat Khan

Maji 16/07/2022
Dr. ASESH KUMAR MAJI, W.B.E.S.
Associate Professor of Geology
Kabi Jagadram Roy Government General Degree College
Mejia-722143, Dist-Bankura, W.B.

H. O. D. 16/07/2022
H. O. D.
Department of Geography
Bankura Sammilani College
Kenduadihi, Bankura-722102

Swaran 16/7/22
Swaran Nathpalay
CO-ORDINATOR
KAC BANKURA SAMMILANI COLLEGE



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09/09/2022

TO WHOM IT MAY CONCERN

This is to certify that **Dr. Ulfat Khan**, Assistant Professor of Geography of Bankura Sammilani College, Bankura has acted as a resource person to deliver a lecture on 'Global Climate Change' held on 09.09.2022 at Kabi Jagadram Roy Government General Degree College, Mejia, Bankura in connection with the Faculty Exchange Program as part of the MOU signed on 14/07/2022 between Kabi Jagadram Roy Government General Degree College, Mejia, and Bankura Sammilani College, Bankura.

We are grateful to Dr. Khan for his valuable words and wishing his success in life.


(Alope Kumar Das)
Officer-in-Charge
Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.

Received
ulfatkhan
09/09/2022

Office of the Principal, Kabi Jagadram Roy Govt. General Degree College, Mejia - 722 143.




Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



Government of West Bengal
Office of the Principal
Kabi Jagadram Roy Government General Degree College
MEJIA - 722143

(On NH-60)
P.O. - Mejia, Dist. - Bankura
West Bengal.
Phone: +91-3241-250250
E-mail: kjrggdcmejia@gmail.com
Website: www.kjrggdc.ac.in

KABI JAGADRAM ROY GOVERNMENT GENERAL DEGREE COLLEGE

Mejia, Dist. - Bankura, PIN 722 143, West Bengal

Attendance Sheet

Topic of Lecture : GLOBAL CLIMATE CHANGE
Date of Lecture : 09/09/2022
Resource Person : DR. ULFAT KHAN, Assistant Professor of Geography,
Bankura Sammilani College, Bankura
Total No. of Participants : 12 (twelve)

Sl. No.	Name	Participants' details	Signature
1.	Sathi Layek	Student, Sem - III	Sathi Layek
2.	Nilava Ghit	Student; Sem - V	Nilava Ghit
3.	APURBA DEY	Student; Sem - V	Apurba Dey
4.	Sunanda Choudhury	5th Sem	Sunanda Choudhury
5.	SOURIN MAITY	SEM - III	Sourin Maity
6.	SUBHAJIT KUNDU	Sem - I	Subhajit Kundu
7.	MYEDITA CHAKRABORTY	Teacher	Myedita Chakraborty
8.	Aditi Gope	Student, Sem - I	Aditi Gope
9.	NIPA SEN	Ex-student	Nipa Sen
10.	Dr. Aresh Kumar Maji	Associate Professor & HOD	A. Maji 29/09/2022
11.	INDRANI MONDAL	Teacher	Indrani Mondal
12.	RUPAN ROY	Ex-student	Rupam Roy

Ulfat Khan
09/09/22
H. O. D.
Department of Geography
Bankura Sammilani College
Kenduadihi, Bankura-722102

09/09/2022
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Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



Date: 04.07.2023

**SUMMARY OF THE ACTIVITIES CONDUCTED UNDER THE MoU
BETWEEN
KABI JAGADRAM ROY GOVERNMENT GENERAL DEGREE COLLEGE, MEJIA
AND
BANKURA SAMMILANI COLLEGE, BANKURA**

Certified that a MoU was signed on 14.07.2022 for an initial period of 05 (three) years (i.e., up to 13.07.2027) between Kabi Jagadram Roy Government General Degree College, Mejia, Dist. - Bankura, West Bengal, PIN 722 143, and Bankura Sammilani College, Bankura, Dist. - Bankura, West Bengal, PIN 722 102. The list of activities conducted under the aforesaid MoU till 04.07.2023 is as follows.

Sl No.	Type of activity	Academic Year	Date (s) of activity		Brief description of the activity
			From	To	
01	Faculty Exchange	2022-2023	16.07.2022	16.07.2022	Dr. Aresh Kumar Maji, Associate Professor of Geology, Kabi Jagadram Roy Government General Degree College, Mejia delivered a lecture on Introduction to Minerals and Rocks to the students of geography, at Bankura Sammilani College, Bankura
02	Faculty Exchange	2022-2023	09.09.2022	09.09.2022	Lecture on Global Climate Change was delivered at Kabi Jagadram Roy Government General Degree College, Mejia by Dr. Ulfat Khan, Assistant Professor of Geography, Bankura Sammilani College, Bankura.

Outcome of the MoU: Both the colleges have been highly benefitted through the faculty exchange programmes under the MoU..


(ALOKE KUMAR DAS)
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Kabi Jagadram Roy Government General Degree College
Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.


(DR. SAMIR KUMAR MUKHERJEE)
Principal
Bankura Sammilani College
Principal
Bankura Sammilani College
Bankura




Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



MEMORANDUM OF UNDERSTANDING (MoU)

Between

KABI JAGADRAM ROY GOVERNMENT GENERAL DEGREE COLLEGE
Gopalpur (on NH 60), P.O. - Mejia, Dist. - Bankura, PIN 722 143, West Bengal

and

GOVERNMENT GENERAL DEGREE COLLEGE, DANTAN-II
Kashmuli, Porolda, Dantan-II, Dist. - Paschim Medinipur, PIN 721445, West Bengal

This agreement between Kabi Jagadram Roy Government General Degree College, Mejia, Dist. – Bankura, PIN 722 143, West Bengal and Government General Degree College, Porolda Dantan-II, Dist. – Paschim Medinipur, PIN 721 445 is signed on the 04th April, 2022.

Scope of the MOU:

The basic objective of this MOU is to promote academic exchange in terms of exchange of faculty and academic association between the two colleges where faculties of Kabi Jagadram Roy Government General Degree College, Mejia and Government General Degree College, Dantan-II will be involved in resource sharing and academic associations like organizing seminars, webinars, workshops, special talks etc.

Objectives:

1. Faculty exchange for Special Lectures, Workshop, Seminars and Academic Exercise.
2. Sharing of resources by faculty of the concerned departments of the two colleges with prior authorization of Heads of the concerned departments.
3. Students and teachers may visit and use library resources of both the colleges as per need.
4. All such activities will be done as per existing guidelines of the university, State Government and UGC.

General terms and Conditions:

1. **Duration of MOU:** This MOU will be effective from the date of agreement and will have an initial duration of 05 (five) years. The MOU may be extended with the consent of both the parties.
2. **Engagement of department level co-ordinator:** The colleges will empower an appropriate faculty to co-ordinate the implementation of the activities.

Contd....2




Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



3. **Confidentiality:** Both the colleges will maintain confidentiality about the terms and conditions of the agreement.
4. **Termination of MOU:** This MOU may be terminated at any time with a 15 days prior notice from either of the parties.
5. **Modification:** Any alteration / modification to the MOU may be done with mutual consent of both the parties. Involvement of new departments/activities may be done from time to time with mutual consent of both the colleges.

For, Kabi Jagadram Roy Government General
Degree College, Mejia

(Signature)
04/04/2022

(ALOKE KUMAR DAS)

Officer-in-Charge

Kabi Jagadram Roy Government General Degree College

Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.

For, Government General Degree College,
Dantan-II

(Signature) 04/04/2022

(DR. SHAISHAB KUMAR DINDA)

Officer-in-Charge

Government General Degree College, Dantan-II

Officer in charge
Govt. Gen. Degree College
Dantan - II

In Witness of:

(Signature)
04/04/2022

(DR. ASESH KUMAR MAJI)

Co-ordinator, IQAC
Kabi Jagadram Roy Government
General Degree College
Mejia, Bankura. PIN-722143

(Signature)
04/04/2022

Assistant Professor
Govt. Gen. Degree College
Kashmuli, Dantan-II



(Signature)

Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



Government of West Bengal
Office of the Principal
Kabi Jagadram Roy Government General Degree College
MEJIA – 722143

(On NH-60)
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West Bengal.
Phone: +91-3241-250250
E-mail: kjrggdcmejia@gmail.com
Website: www.kjrggdc.ac.in



Government of West Bengal
From the Office of the Principal/Officer-in-Charge
Government General Degree College, Dantan-II

(College recognised under Section 2 (f) of the UGC Act, 1956)

Kasmuli :: Paschim Medinipur :: West Bengal :: Pin – 721445 :: Website :: www.dantan2govtcollege.ac.in

TO WHOM IT MAY CONCERN

This is to certify that **Dr Goutam Dey**, Assistant Professor of Physics, Kabi Jagadram Roy Government General Degree College, Mejia, has delivered a special lecture on **08.08.2022** to the students of the Department of Physics at Government General Degree College, Dantan-II on the topic, '**Geometrical Optics**' as a part of faculty exchange and sharing of academic information in connection with the MoU signed on **04.04.2022** between Government General Degree College, Dantan-II and Kabi Jagadram Roy Government General Degree College, Mejia.

Dinda
08/08/2022

Dr. Shaishab Kumar Dinda
(Officer-in-Charge)

Officer-in-Charge
Govt. Gen. Degree College,
Dantan-II



Sh

Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



Government of West Bengal
Office of the Principal
Kabi Jagadram Roy Government General Degree College
MEJIA – 722143

(On NH-60)
P.O. - Mejia, Dist. - Bankura
West Bengal.
Phone: +91-3241-250250
E-mail: kjrggdcmejia@gmail.com
Website: www.kjrggdc.ac.in

GOVERNMENT GENERAL DEGREE COLLEGE, DANTAN-II
Paschim Medinipur, West Bengal-721445

TOPIC OF LECTURE	:	Geometrical Optics
RESOURCE PERSON	:	DR. GOUTAM DEY. Assistant Professor, Dept. Of Physics, Kabi Jagadram Roy Government General Degree College

Attendance Sheet

Date: 08.08.2022

Sl. No.	Name	SEMESTER	UID	Signature
1	TUFAN MANDAL	4th		Tufanmandal
2	SIDDHARTHA MISHRA	4th		Siddhartha Mishra
3	SAHELI PANDA	4th		Saheli Panda
4	RITUNANDA GOSWAMI	4th		Ritunanda Goswami
5	AMALENDU PANDA	4th		Amalendu Panda
6	SAGAR GIRI	4th		Sagar Giri
7	SAYAN JANA	4th		Sayan Jana
8	RINKI GHORAI	4th		Rinki Ghorai

Faculties present.

1. Chinnoy Mukherjee (Physics)
2. Samir Saha., (Physics)
3. Pravarash Kr. Giri (Math)
4. Nargajan Das (Math)

Goutam
8/8/22
Assistant Professor
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143 Dist-Bankura, W.B.

Dipto
8/8/2022
Officer-in-Charge
Govt.Gen. Degree College,
Dantan-II



Chinnoy
Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



Government of West Bengal
Office of the Principal
Kabi Jagadram Roy Government General Degree College
Mejia - 722143.

(On NH-60), Gopalpur
Mejia, Distt. Bankura
West Bengal.
Phone: +91-3241-250250
E-mail: kjrgdcmejia@gmail.com
Web: www.gdcmejia.in

TO WHOM IT MAY CONCERN

Certified that **Shri Chinmoy Mukherjee**, Assistant Professor of Physics, Government General Degree College, Dantan-II has delivered a special lecture on 'Digital Electronics' for the students of the Departments of Physics and Geology at Kabi Jagadram Roy Government General Degree College, Mejia on **23.08.2022** in connection with the Faculty Exchange Program as a part of the MoU signed on 04th April, 2022 between Kabi Jagadram Roy Government General Degree College, Mejia, Dist. – Bankura, West Bengal, PIN 722 143, and Government General Degree College, Dantan-II, Paschim Medinipur, 721 445.

Received,

Chinmoy Mukherjee
23.08.22

Assistant Professor
Govt. General Degree College
W. B. E. S

Aloke Kumar Das
23/08/2022

Aloke Kumar Das
(Officer-in-Charge)

Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.

Office of the Principal, Kabi Jagadram Roy Govt. General Degree College, Mejia - 722 143.

11



Aloke Kumar Das

Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



Government of West Bengal
Office of the Principal
Kabi Jagadram Roy Government General Degree College
MEJIA - 722143

(On NH-60)
P.O. - Mejia, Dist. - Bankura
West Bengal.
Phone: +91-3241-250250
E-mail: kjrggdcmejia@gmail.com
Website: www.kjrggdc.ac.in

KABI JAGADRAM ROY GOVERNMENT GENERAL DEGREE COLLEGE
Mejia, Dist. - Bankura, PIN 722 143, West Bengal

Attendance Sheet

Topic of Lecture	: Digital Electronics
Date of Lecture	: 23.08.2022
Resource Person	: Mr. Chinmoy Mukherjee, Assistant Professor, Dept. of Physics, Government General Degree College, Dantan-II, Medinipur
Total No. of Participants	: 08

Sl. No.	Name	SEMESTER	UID	Signature
1	Megha Ghosh	III	21221103016	Megha Ghosh
2	Arpita Mondal	III	21221103007	Arpita Mondal
3	Sathikarmakar	III	21221106007	Sathi Karmakar
4	Sathi Layek	III	21223120005	Sathi Layek
5	Aditi Gope	I	22223120003	Aditi Gope
6	Biswajit Bera	Asst. Professor		Biswajit Bera
7	GOUTAM DEY	Asst. Prof		Goutam Dey
8	ARISIT CHATTERJEE	»		Arisit Chatterjee

[Signature]
23/08/2022
Officer-in-Charge
Kabi Jagadram Roy Government General Degree College
Mejia - 722143, Dist. - Bankura, W.B.

[Signature]
23.08.22.
Chinmoy Mukherjee
Govt. General Degree College
Dantan II
Asst. Professor, WBES



[Signature]
Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



Date: 08.09.2023

SUMMARY OF THE ACTIVITIES CONDUCTED UNDER THE MoU
BETWEEN
KABI JAGADRAM ROY GOVERNMENT GENERAL DEGREE COLLEGE, MEJIA
AND
GOVERNMENT GENERAL DEGREE COLLEGE, DANTAN-II

Certified that a MoU was signed on 04.04.2022 for an initial period of 05 (five) years (i.e., valid up to 03.04.2027) between Kabi Jagadram Roy Government General Degree College, Mejia, Dist. - Bankura, West Bengal, PIN 722 143, and Government General Degree College, Porolda, Dantan-II, Dist. - Paschim Medinipur, PIN 721 445. The MoU is functional and the list of activities conducted under the aforesaid MoU till 08.09.2023 is as follows.

Sl No.	Type of activity	Academic Year	Date (s) of activity		Brief description of the activity
			From	To	
01	Faculty Exchange	2022-2023	08.08.2022	08.08.2022	Lecture on Geometrical Optics was delivered at Government General Degree College, Dantan-II by Dr. Goutam Dey, Associate Professor of Physics, Kabi Jagadram Roy Government General Degree College, Mejia
02	Faculty Exchange	2022-2023	23.08.2022	23.08.2022	Special lecture on Digital Electronics was delivered at Kabi Jagadram Roy Government General Degree College, Mejia by Shri Chinmoy Mukherjee, Assistant Professor of Physics, Government General Degree College, Dantan-II

Outcome of the MoU: The students and faculty members of both the colleges have been highly benefitted through lectures and subsequent interactive sessions through the aforesaid faculty Exchange programmes under the MoU.

(ALOKE KUMAR DAS)

Officer-in-Charge

Kabi Jagadram Roy Government General Degree College

(DR. SHAISHAB KUMAR DINDA)

Officer-in-Charge

Government General Degree College, Dantan-II

Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.

Officer in charge
Govt. Gen. Degree College
Dantan - II

Office of the Principal, Kabi Jagadram Roy Govt. General Degree College, Mejia - 722 143.



Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



MEMORANDUM OF UNDERSTANDING (MoU)

Between

KABI JAGADRAM ROY GOVERNMENT GENERAL DEGREE COLLEGE
Gopalpur (beside NH 60), P.O. - Mejia, Dist. – Bankura, PIN 722 143, West Bengal
[Phone: 03241-250250, E-mail: kjrggdcmejia@gmail.com]

And

AKUI KAMALABALA WOMEN'S COLLEGE
Akui, P.O.- Akui, P.S.- Indus, Dist.- Bankura, PIN 722 201, West Bengal
[Phone: 9434439316; E-mail: akw.college@gmail.com]

This Memorandum of Understanding (MoU) between **Kabi Jagadram Roy Government General Degree College**, a reputed academic higher education institution established in 2015, affiliated to Bankura University and **Akui Kamalabala Women's College**, a reputed academic higher education institution established in 2016, affiliated to Bankura University is signed on the **24th March, 2022**.

Both the institutions herein have noted the importance the value of cooperation and have agreed to enter into this Memorandum of Understanding (MoU) regarding academic collaboration. The purpose of this non-binding MoU is to make possible academic and cultural exchange between both the institutions based on the principles of mutual equality and the reciprocity of benefits. Now, this MoU is agreed by and between both the colleges hereto as follows:

1. Objectives, Scope, and Major Activities

Both institutions agree to encourage the development of the following types of activities:

- Visits and formal exchanges of faculty, undergraduate students and administrators in specific areas of education, research and outreach.
- Organize joint conferences, seminar, webinar, symposia, or other scientific meetings on subjects of mutual interest.
- Exchange of academic information and materials.
- Explore the possibilities for developing joint research programs and collaborations.

2. Responsibilities of the Institutions

The two institutions identify that the execution of any agreed upon activity will depend upon the interests and expertise of the individuals involved and the availability of financial resources, space and other resources. Accordingly, the functioning of any exchange and cooperative programs based on this MoU shall be conferred and determined between the two institutions. It is further expected that both the institutions will be compliant with all applicable legislations of Government of India and State and University policies.

Contd....2




Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



3. Duration and Option to Amend, Extend or Terminate

This MoU will become effective when signed by authorities of both institutions. The agreement will remain in effect for **01 (one) year** from the date of signature given below, and may be renewed or amended by mutual agreement of the institutions. The institutions should agree to periodically review the activities undertaken and the progress made and to consult concerning amendments, renewal or termination of this MoU. Either authority may terminate this MoU at any time by providing written notice prior to three months before such termination to the other authority.

4. General Terms

This MoU is not intended to, and does not create any right, benefit, or trust responsibility, substantive or procedural, enforceable by law or equity, by either institution, its officers, employees, or agents against the other institution, its officers, employees, or agents. Nothing in this MoU obligates either institution to commit or transfer any funds, assets, or other resources in support of projects or activities between the two institutions. Neither institution will use the name of the other, either expressly or by implication, in any publicity, solicitation or advertisement without the express written approval of the other institution to this MoU.

5. Signatures

This MoU shall enter into force on the date of the signing by qualified representatives of both institutions. In Witness whereof the duly authorized signatories have affixed their signatures and seals on **24th March, 2022**.

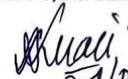
For, Kabi Jagadram Roy Government General
Degree College


(ALOKE KUMAR DAS)
Officer-in-Charge

Kabi Jagadram Roy Government General Degree College

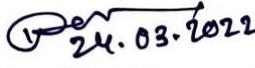
Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.

Signature of Witness:


24/03/2022
(DR. ASESH KUMAR MAJI)

Co-ordinator, IQAC
Kabi Jagadram Roy Government
General Degree College
Mejia, Bankura, PIN-722143

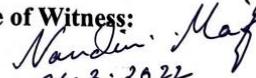
For, Akui Kamalabala Women's College


(DR. PITAMBAR PAUL)
Principal

Akui Kamalabala Women's College

Principal
Akui Kamalabala Women's College
Akui, Bankura

Signature of Witness:


24.3.2022

Co-ordinator
I.Q.A.C.
Akui Kamalabala Women's College
Akui, Bankura, W.B.




Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



Government of West Bengal
Office of the Principal
Kabi Jagadram Roy Government General Degree College
MEJIA – 722143

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West Bengal.
Phone: +91-3241-250250
E-mail: kjrggdcmejia@gmail.com
Website: www.kjrggdc.ac.in

AKUI KAMALABALA WOMEN'S COLLEGE

Estd.- 2016

(Affiliated to Bankura University)

Vill.+ P.O.- Akui, P.S.- Indas, Dist.- Bankura, Pin-722201

Website: akuiwomenscollege.org • E-mail ID: akw.college@gmail.com M: 9474918607



Ref. No. :

Date. 24.03.2022

TO WHOM IT MAY CONCERN

Certified that Shri Pratim Basak, Assistant Professor of History, Kabi Jagadram Roy Government General Degree College, Mejia has acted as a Resource Person to deliver a lecture on 'Debates on Indian Feudalism' held on 24.03.2022 for the students of the Department of History at Akui Kamalabala Women's College, Akui, Indas in connection with the Faculty Exchange Program as a part of the MoU signed on 24.03.2022 between Kabi Jagadram Roy General Degree College, Mejia, Dist.- Bankura, West Bengal, Pin 722143, and Akui Kamalabala Women's College, Akui, P.O.- Akui, P.S.-Indas, Dist.-Bankura, Pin 722201, West Bengal.

We are very much grateful to Shri Pratim Basak for his valuable lecture.



Pratim Basak
24.03.2022
Principal
Principal
Akui Kamalabala Women's College
Akui, Bankura



Pratim Basak
Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



AKUI KAMALABALA WOMEN'S COLLEGE

AKui, Dist. - Bankura, PIN 722 201, West Bengal

Attendance Sheet

Topic of Lecture	:	Debates on Indian Feudalism
Date and Time of Lecture	:	24.03.2022 at 11:00 A.M
Resource Person	:	Prof. Pratim Basak, Assistant Professor in History, Kabi Jagadram Roy Government Degree College, Mejia
Total No. of Participants	:	10

Sl. No.	Name	Details of Participants	Signature
1.	Sangita Sarkar	2 nd Sem History Hons.	Sangita Sarkar
2.	Suvra Murmu	2 nd Sem History Hons.	Suvra Murmu
3.	Madhusri Bej	2 nd Sem History Hons.	Madhusri Bej
4.	Asmina Khatun	2 nd Sem History Hons.	Asmina Khatun
5.	Payel Ghosh	2 nd Sem History Hons.	Payel Ghosh
6.	Barsha Karak	2 nd Sem History Hons.	Barsha Karak
7.	Baisakhi Das	2 nd Sem History Hons.	Baisakhi Das
8.	Sukhinmoni Kisku	2 nd Sem History Hons.	Sukhinmoni Kisku
9.	Ankita Rakshit	2 nd Sem History Hons.	Ankita Rakshit
10.	Anusree Khan	2 nd Sem History Hons.	Anusree Khan

Anusree Khan
24/03/2022

Head
Dept. of History
Akui Kamalabala Women's College
Akui, Bankura

Nandini Majhi
24.3.22
Co-ordinator
I.Q.A.C.
Akui Kamalabala Women's College
Akui, Bankura, W.B.

Pratim Basak
Signature of Resource Person

Assistant Professor
Kabi Jagadram Roy Govt. General Degree College,
Mejia-722143 Dist-Bankura, W.B.



AK
Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



Government of West Bengal
Office of the Principal
Kabi Jagadram Roy Government General Degree College
Mejia - 722143.

(On NH-60), Gopalpur
Mejia, Distt. Bankura
West Bengal.
Phone: +91-3241-250250
E-mail: kjrggdcmejia@gmail.com
Web: www.ggdcmejia.in

Date: 28/03/2022

TO WHOM IT MAY CONCERN

Certified that Dr Nandini Maity, Assistant Professor of English, Akui Kamalabala Women's College, Akui has acted as a Resource Person to deliver a lecture on 'Key Aspects of Tragedy' held on 28/03/2022 for the students of the Department of English at Kabi Jagadram Roy Government General Degree College, Mejia in connection with the Faculty Exchange Program as a part of the MoU signed on 24/03/2022 between Kabi Jagadram Roy Government General Degree College, Mejia, Dist. - Bankura, West Bengal, PIN 722 143, and Akui Kamalabala Women's College, Akui, P.O.- Akui, P.S.- Indus, Dist.- Bankura, PIN 722 201, West Bengal.

We are very much grateful to Dr. Maity for her valuable lecture.

(ALOKE KUMAR DAS)
Officer-in-Charge

Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.

Received
Nandini Maity
28.3.22

Office of the Principal, Kabi Jagadram Roy Govt. General Degree College, Mejia - 722 143.



Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



KABI JAGADRAM ROY GOVERNMENT GENERAL DEGREE COLLEGE
Mejia, Dist. - Bankura, PIN 722 143, West Bengal
Attendance Sheet

Topic of Lecture	:	Key Aspects of Tragedy
Date and Time of Lecture	:	28.03.2022 at 11:00AM
Resource Person	:	Dr. Nandini Maity
Total No. of Participants	:	12

Sl. No.	Name	Details of Participants	Signature
1.	MEGHA GHOSH	2nd Sem English Honors	Megha Ghosh
2.	PARTHAMONDAL	2nd Sem. English 3rd	Partha Mondal
3.	PRATIMA MANDE	2nd SEE Eng Honors	Pratima Mandi
4.	CHAITALI MONDAL	2nd sem Eng	Chaitali Mondal
5.	PURNIMA ROY	2nd Sem Eng (H)	Purnima Roy
6.	SUPARNA OJHA	ENGLISH; 2nd SEM	Suparna Ojha
7.	SATHI MONDAL	English (H)	Sathi Mondal
8.	BARSHA MONDAL	2nd Sem English (H)	Barsha Mondal
9.	RELENA MUKHERJEE	2nd Sem English (H)	Relena Mukherjee
10.	ARADITA MONDAL	2nd Sem English (H)	Aradita Mondal
11.	SUNITA GORAI	2nd Sem Eng (H)	Sunita Gorai
12.	BISWAJIT MAJEE	2nd Sem Eng (H)	Biswajit Majee


28/03/2022
Officer-in-Charge
Kabi Jagadram Roy Government General Degree College
Mejia - 722143, Dist. - Bankura, W.B.


.....
Signature of Resource Person

Co-ordinator
I.Q.A.C.
Akul Kamatabala Women's College
Akul, Bankura, W.B.




Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



Date: 22.01.2024

**SUMMARY OF THE ACTIVITIES CONDUCTED UNDER THE MoU
BETWEEN
KABI JAGADRAM ROY GOVERNMENT GENERAL DEGREE COLLEGE, MEJIA
AND
AKUI KAMALABALA WOMEN'S COLLEGE, AKUI**

Certified that a MoU was signed on **24.03.2022** for an initial period of **01 (one) year** (i.e., up to **23.03.2023**) between Kabi Jagadram Roy Government General Degree College, Mejia, Dist. - Bankura, West Bengal, PIN 722 143, and Akui Kamalabala Women's College, Akui, P.O.- Akui, P.S.- Indus, Dist.- Bankura, PIN 722 201, West Bengal. The list of activities conducted under the aforesaid MoU till 22.01.2024 is as follows.

Sl No.	Type of activity	Academic Year	Date (s) of activity		Brief description of the activity
			From	To	
01	Faculty Exchange	2021-2022	24.03.2022	24.03.2022	Lecture on Debates on Indian Feudalism was delivered at Akui Kamalabala Women's College, Akui by Shri Pratim Basak, Assistant Professor of History, Kabi Jagadram Roy Government General Degree College, Mejia
02	Faculty Exchange	2021-2022	28.03.2022	28.03.2022	Dr Nandini Maity, Assistant Professor of English, Akui Kamalabala Women's College, Akui has acted as a Resource Person to deliver a lecture on ' Key Aspects of Tragedy ' for the students of the Department of English at Kabi Jagadram Roy Government General Degree College, Mejia

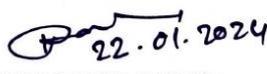
Outcome of the MoU: All the aforesaid lectures are informative and interesting, which enriched the young minds of those present and left a long-lasting impression. Thus, both the colleges have been highly benefitted through the common activities under the MoU.


(ALOKE KUMAR DAS)

Officer-in-Charge

Kabi Jagadram Roy Government General Degree College

Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.


(DR. PITAMBAR PAUL))

Principal

Akui Kamalabala Women's College

Principal
Akui Kamalabala Women's College
Akui, Bankura

Office of the Principal, Kabi Jagadram Roy Govt. General Degree College, Mejia - 722 143.




Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



MEMORANDUM OF UNDERSTANDING (MoU)

Between

KABI JAGADRAM ROY GOVERNMENT GENERAL DEGREE COLLEGE
Gopalpur (beside NH 60), P.O. - Mejia, Dist. – Bankura, PIN 722 143, West Bengal
[Phone: 03241-250250, E-mail: kjrggdcmejia@gmail.com]

And

KOTSHILA MAHAVIDYALAYA

Kotshila, P.O. - Jiudaru, Dist. - Purulia, PIN 723 213, West Bengal
[Phone: 8918080029; E-mail: kotshilamahavidyalaya@gmail.com]

This Memorandum of Understanding (MoU) between **Kabi Jagadram Roy Government General Degree College**, a reputed academic higher education institution established in 2015, affiliated to Bankura University and **Kotshila Mahavidyalaya**, a reputed academic higher education institution established in 2010, affiliated to Sidho-Kanho-Birsha University is signed on the 3rd day of March, 2022.

Objectives, Scope, and Major Activities:

Both institutions agree to encourage the development of the following types of activities:

1. Visits and formal exchanges of faculty, students and administrators in specific areas of education, research and outreach.
2. Cooperate in Undergraduate education and training through library, museum as well as laboratory resources.
3. Organize joint conferences, seminar, webinar, symposia, or other scientific meetings on subjects of mutual interest.
4. Exchange of academic information and materials.
5. Explore the possibilities for developing joint research programs and collaborations.
6. All such activities will be done as per existing guidelines of the Government of India, State Government, UGC and University.

[Signature] Contd....2

Principal
(Dr.Pravat Kr.Mandal)
Kotshila Mahavidyalaya
P.O:Jiudaru, Purulia

[Signature]

Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist. Bankura, W.B.

Office of the Principal, Kabi Jagadram Roy Govt. General Degree College, Mejia - 722 143.



[Signature]

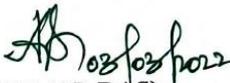
Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



General terms and Conditions:

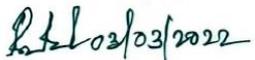
1. **Duration of MOU:** This MOU will be effective from the date of agreement and will have an initial duration of 05 (five) years. The MOU may be extended with the consent of both the parties.
2. **Confidentiality:** Both the colleges will maintain confidentiality about the terms and conditions of the agreement.
3. **Termination of MOU:** This MOU may be terminated at any time with a 15 days prior notice from either of the parties.
4. **Modification:** Any alteration / modification to the MOU may be done with mutual consent of both the parties. Involvement of new departments/activities may be done from time to time with mutual consent of both the colleges.

For, Kabi Jagadram Roy Government General
Degree College, Mejia


(ALOKE KUMAR DAS)
Officer-in-Charge

Kabi Jagadram Roy Government General Degree College
Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.

For, Kotshila Mahavidyalaya, Kotshila


(DR. PRAVAT KUMAR MANDAL)
Principal

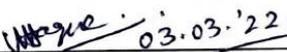
Kotshila Mahavidyalaya

Principal
(Dr. Pravat Kr. Mandal)
Kotshila Mahavidyalaya
P.O: Jiudaru, Purulia

In Witness of:


03/03/2022
(DR. ASESH KUMAR MAJI)

Co-ordinator, IQAC
Kabi Jagadram Roy Government
General Degree College
Mejia, Bankura PIN-722143


03.03.22
(MD MISBAHUL HAQUE.)
IQAC CO-ORDINATOR
Department of English
Kotshila Mahavidyalaya
P.O.- Jiudaru, Purulia
Pin- 723213 (W.B.)




Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



Government of West Bengal
Office of the Principal
Kabi Jagadram Roy Government General Degree College
Mejia - 722143.

(On NH-60), Gopalpur
Mejia, Distt. Bankura
West Bengal.
Phone: +91-3241-250250
E-mail: kjrggdcmejia@gmail.com
Web: www.ggdcmejia.in

TO WHOM IT MAY CONCERN

This is to certify that Dr. Partha Sarathi Sarkar, Assistant Professor of Bengali, Kotshila Mahavidyalaya, Kotshila has delivered a lecture on 'BANGLA ANUBAD SAHITYA: PRASANGIKATA O SIMBADDHATA' held on 12/09/2022 for the students of the Department of Bengali at Kabi Jagadram Roy Government General Degree College, Mejia in connection with the Faculty Exchange Program as a part of the MoU signed on 03/03/2022 between Kabi Jagadram Roy Government General Degree College, Mejia, Dist. – Bankura, West Bengal, PIN 722 143, and Kotshila Mahavidyalaya, Kotshila, P.O. - Jiudaru, Dist. - Purulia, PIN 723 213, West Bengal.

AS 12/09/2022
Officer-in-Charge

Kabi Jagadram Roy Government General Degree College

Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.

Received
AS
12/09/2022
HOD
Dept of Bengali
KOTSHILA MAHAVIDYALAYA

Office of the Principal, Kabi Jagadram Roy Govt. General Degree College, Mejia – 722 143.



AS

Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



KABI JAGADRAM ROY GOVERNMENT GENERAL DEGREE COLLEGE

Mejia, Dist. - Bankura, PIN 722 143, West Bengal

Attendance Sheet

Topic of Lecture	: BANGLA ANUBAD SAHITYA: PRASANGIKATA O SIMBADDHATA
Date of Lecture & Time	: 12.09.2022 (11 am to 2 pm)
Name of the Faculty Members	: Dr. Partha Sarathi Sarkar, Assistant Professor of Bengali, Kotshila Mahavidyalaya
Total No. of Participants	: 18 + 1 = 19 (Nineteen)

Sl. No.	Name	Details of Participants	Signature	Feedback
1.	MAMONI MAL	SEM-I (Bengali)	Mamoni mal.	Good.
2.	BAISHAKHI MONDAL	SEM-I (BENGALI)	Baishakhi mondal	GOOD
3.	CHAITALI DAS	SEM-I (BENGALI)	Chaitali Das	Excellent
4.	KHUSHI MAJI	SEM-I (BENGALI)	Khushi Maji	Very good
5.	PAYEL KUNDU	SEM-I (Bengali - prog.)	Payel Kundu	Excellent
6.	PIU MONDAL	SEM-I (BENGALI)	PIU MONDAL	VERY GOOD
7.	SHULI DAS	SEM-V (English)	Shuli Das	good.
8.	SOURAV DEY	SEM-V (English)	Sourav Dey	good.
9.	SIMA BAURI	SEM-I (BENGALI) Prog	SIMA BAURI	GOOD
10.	SOMA GORAI	SEM-V (HISTORY)	Soma Gorai	Excellent.
11.	RUMPA CHATTERJEE	SEM-V (History)	Rumpa Chatterjee	Very Good
12.	RITU NATH	SEM-V (ENGLISH)	Ritu Nath	good.
13.	RIKU KARMAKAR	SEM-V (English)	Riku Karமாகar	Good.
14.	PREYA AKHULI	SEM-III (BENGALI)	Preya Akhuli	Good.
15.	LATA MITRA	SEM-III (BENGALI)	Lata Mitra	EXCELLENT
16.	CHUMKI MAJI	SEM-I (BENGALI)	Chumki Maji	very good.
17.	SANJAY BHADRA	SEM-I (BENGALI)	Sanjay Bhadra	Good
18.	MAMATA MUDEKORA	SEM-III (Bengali)	Mamata Mudikora	Excellent.
19.	INDRANI HAZRA	Teacher	Indrani Hazra	very good

Partha Sarathi Sarkar
12.09.2022

HOD
Dept of Bengali
KOTSHILA MAHAVIDYALAYA

AS
Officer-in-Charge
Kabi Jagadram Roy Government General Degree College
Mejia - 722143, Dist. - Bankura, W.B.



AS

Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



Government of West Bengal
Office of the Principal
Kabi Jagadram Roy Government General Degree College
MEJIA – 722143

(On NH-60)
P.O. - Mejia, Dist. - Bankura
West Bengal.
Phone: +91-3241-250250
E-mail: kjrggdcmejia@gmail.com
Website: www.kjrggdc.ac.in



KOTSHILA MAHAVIDYALAYA

P.O.:- Jiudaru, Dist.- Purulia, Pin- 723213 Estd.-2010
Affiliated to Sidho-Kanho- Birsha University, Purulia
Ph. : 8918080029 / 9433468244

Email: kotshilamahavidyalaya@gmail.com Website : www.kotshilamahavidyalaya.ac.in

Ref. No. :

Date : 06/03/2023

TO WHOM IT MAY CONCERN

This is to certify that **Shri Sekhar Biswas**, Assistant Professor of History, Kabi Jagadram Roy Government General Degree College, Mejia has acted as a Resource Person to deliver a lecture on 'TRADE IN INDIAN OCEAN' held on 06/03/2023 at Kotshila Mahavidyalaya, Kotshila in connection with the Faculty Exchange Program as a part of the MoU signed on 03/03/2022 between Kabi Jagadram Roy Government General Degree College, Mejia, Dist. – Bankura, West Bengal, PIN 722 143, and Kotshila Mahavidyalaya, Kotshila, P.O. - Jiudaru, Dist. - Purulia, PIN 723 213, West Bengal.

(DR. PRAVAT KUMAR MANDAL)
Principal
Kotshila Mahavidyalaya

Principal
(Dr. Pravat Kr. Mandal)
Kotshila Mahavidyalaya
P.O: Jiudaru, Purulia



Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



P-1/3

KOTSHILA MAHAVIDYALAYA

Kotshila, P.O. - Jiudaru, Dist. - Purulia, PIN 723 213, West Bengal
[Phone: 8918080029; E-mail: kotshilamahavidyalaya@gmail.com]

Attendance Sheet

Topic of Lecture : TRADE IN INDIAN OCEAN
Date and Time of Lecture : 06/03/2023 (11.00 to 13.00 Hours)
Resource Person : Shri Sekhar Biswas, Assistant Professor of History, Kabi Jagadram Roy Government General Degree College, Mejia

Sl. No.	Name	Details of Participants	Signature
1)	Basumali Hembram	Education	Basumali Hembram
2)	Mitali Besra	Physical Education -	Mitali Besra
3)	Anita Hansda	Education	Anita Hansda
4)	Jyotsna Tudu	Bengali	Jyotsna Tudu
5)	Sukromani Hansda	Education	Sukromani Hansda
6)	Shreemati Muxmu	Education	Shreemati Muxmu
7)	Sontoshi Soren	History	Sontoshi Soren
8)	Sunita Tudu	Education	Sunita Tudu
9)	Namita Hembram	Education	Namita Hembram
10)	Sunita Mahato	History	Sunita Mahato
11)	Menaka Mahato	History	Menaka Mahato
12)	Anita Rajwar	Bengali	Anita Rajwar
13)	Supriyanka Nayek	History	Supriyanka Nayek
14)	Chanchala Mahato	Bengali	Chanchala Mahato
15)	Pritya Sengha	Bengali	Pritya Sengha
16)	Anchana Mahato	History	Anchana Mahato
17)	Mamata Gopain	History	Mamata Gopain
18)	Purnima Mahato	History	Purnima Mahato
19)	Priyanka Soren	Geography	Priyanka Soren
20)	Rekha Singh	History	Rekha Singh



Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



Government of West Bengal
Office of the Principal
Kabi Jagadram Roy Government General Degree College
MEJIA - 722143

(On NH-60)
P.O. - Mejia, Dist. - Bankura
West Bengal.
Phone: +91-3241-250250
E-mail: kjrggdcmejia@gmail.com
Website: www.kjrggdc.ac.in

P-2/3

Sl. No.	Name	Details of Participants	Signature
1)	Nandalal Mahato	Political science (1st)	Nandalal Mahato
2)	Debasish Mahato	English	Debasish Mahato
3)	Sudeb Mahali	Political science (1st)	Sudeb Mahali
4)	Asim Gohain	Political science (1st)	Asim Gohain
5)	Ashok mahato	Kudmali 1st (1st)	Ashok mahato
6)	Banmali Mahato	Geography 4th Sem	Banmali Mahato
7)	Parun Mahato	Kudmali (1st) sem	Parun Mahato
8)	MANSHARAM MODAK	Bengali 4th sem	Mansharan Modak
9)	Prakash Kund	History 2nd Sem	Prakash Kund
10)	Shibnath Majhi	Bengali 2nd Sem	Shibnath Majhi
11)	Bhishwan mahato	History 2nd Sem	Bhishwan mahato
12)	Mukesh kumar	Pol. Science (1st)	Mukesh kumar
13)	Rajendra kumar	Political science (1st)	Rajendra kumar
14)	Nishan kumar	Pol. science (1st)	Nishan kumar
15)	Chiranjit soren	Education (1st)	Chiranjit soren
16)	Mahesh singh ghatwal	Education (1st)	Mahesh singh ghatwal
17)	Arun kumar	Education (1st)	Arun kumar
18)	Lakshman kumar	History (1st)	Lakshman kumar
19)	Shankarshan kumar	History (1st)	Shankarshan kumar
20)	Dhananjay Majhi	History (6th)	Dhananjay Majhi
21)	Sribu kumar	History (1st)	Sribu kumar
22)	Bishal Deshmukh	History (1st)	Bishal Deshmukh
23)	Rohit Roy	History (Hons) 2nd	Rohit Roy
24)	Kanchan Panamun	History (Hons) 5th	Kanchan Panamun
25)	Lichee kumar	History (2nd)	Lichee kumar
26)	Debasish kumar	Education (1st)	Debasish kumar
27)	Tejnarayan kumar	History (3rd)	Tejnarayan kumar



(Handwritten signature)

Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



P-3/3

Sl. No.	Name	Details of Participants	Signature
1	Namita Mahato	Political Science	Namita Mahato
2	Ritu Kumar	"	Ritu Kumar
3	Paritosh Ruki Das.	History (H)	Paritosh Ruki Das.
4	Aditya Kumar	" "	Aditya Kumar
5	Somyajit Karmakar	History (P)	Somyajit Karmakar
6	Kabita Majhi	"	Kabita Majhi
7	Ramesh Mahato	"	Ramesh Mahato
8	Jagannath Chatterjee	His ..	Jagannath Chatterjee
9	Pradip Gosai	History Honours	Pradip Gosai
10	Sunil Saha	English	Sunil Saha
11	Biswan Hansda	Political Science	Biswan Hansda
12	Lakshmi Majhi	History	Lakshmi Majhi
13	Prashanta Gorain	Geography (P)	Prashanta Gorain
14	Shambhu Mahato	Kurukshetra	Shambhu Mahato
15	Tapas Paramanik	History (H)	Tapas Paramanik
16	Biswajit Gosai	History (H)	Biswajit Gosai
17	Banbihari Kumar	History (H) (VI-SEM)	Banbihari Kumar
18	Doctor Gope	English (E) Sem-I	Doctor Gope
19	Dipali Kumar	Geography Sem-II	Dipali Kumar
20	Archana Mahato	Geography sem-II	Archana Mahato
21	Taba Paramanik	Geography sem-II	Taba Paramanik
22	Basudeb Kumar	English I Semester	
23	Shilpa Roy	English (4th semester)	Shilpa Roy
24	Rupali Poddar	English (4th semester)	Rupali Poddar
25	Shubhanika Kumar	History (6th)	Shubhanika Kumar

Dr. Pravat
06/03/2023
Assistant Professor
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143 Dist-Bankura, W.B.

Dr. Pravat Kr. Mandal
Principal
(Dr. Pravat Kr. Mandal)
Mahavidyalaya



Dr. Pravat
Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



Date: 02.01.2024

**SUMMARY OF THE ACTIVITIES CONDUCTED UNDER THE MoU
BETWEEN
KABI JAGADRAM ROY GOVERNMENT GENERAL DEGREE COLLEGE, MEJIA
AND
KOTSHILA MAHAVIDYALAYA, KOTSHILA**

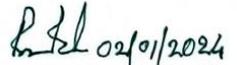
This is to certify that a MoU was signed on 03.03.2022 for an initial period of 05 (five) years (i.e., valid up to 02.03.2027) between Kabi Jagadram Roy Government General Degree College, Mejia, Dist. - Bankura, West Bengal, PIN 722 143, and Kotshila Mahavidyalaya, Kotshila, P.O. - Jiudaru, Dist. - Purulia, PIN 723 213, West Bengal. The list of activities conducted under the aforesaid MoU till 02.01.2024 is as follows.

Sl No.	Type of activity	Academic Year	Date (s) of activity		Brief description of the activity
			From	To	
01	Faculty Exchange	2022-2023	12.09.2022	12.09.2022	Dr. Partha Sarathi Sarkar, Assistant Professor of Bengali, Kotshila Mahavidyalaya, Kotshila has delivered a lecture on 'BANGLA ANUBAD SAHITYA: PRASANGIKATA O SIMBADDHATA' for the students of the Department of Bengali at Kabi Jagadram Roy Government General Degree College, Mejia.
02	Faculty Exchange	2022-2023	06.03.2023	06.03.2023	Shri Sekhar Biswas, Assistant Professor of History, Kabi Jagadram Roy Government General Degree College, Mejia has acted as a Resource Person to deliver a lecture on 'TRADE IN INDIAN OCEAN' at Kotshila Mahavidyalaya, Kotshila

Outcome of the MoU: Both the colleges have been highly benefitted through the faculty exchange programmes under the MoU.


(ALOKE KUMAR DAS)

Officer-in-Charge
Kabi Jagadram Roy Government General Degree College
Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.


(DR. PRAVAT KUMAR MANDAL)
Principal
Kotshila Mahavidyalaya
Principal
(Dr. Pravat Kr. Mandal)
Kotshila Mahavidyalaya
P.O: Jiudaru, Purulia

Office of the Principal, Kabi Jagadram Roy Govt. General Degree College, Mejia - 722 143.




Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



MEMORANDUM OF UNDERSTANDING (MoU)

Between

Kabi Jagadram Roy Government General Degree College, a reputed academic higher education institution established in 2015, located at Gopalpur (on NH 60), P.O.- Mejia, Dist. - Bankura, PIN 722 143, West Bengal

And

Saltora Netaji Centenary College, a reputed academic higher education institution established in 2000, located at Vill. + P.O. + P. S. – Saltora, Dist. – Bankura, PIN 722 158, West Bengal

Both the institutions herein have noted the importance the value of cooperation and have agreed to enter into this Memorandum of Understanding (MoU) regarding academic collaboration. The purpose of this non-binding MoU is to make possible academic and cultural exchange between both the institutions based on the principles of mutual equality and the reciprocity of benefits. NOW THIS MEMORANDUM OF UNDERSTANDING is agreed by and between both the colleges hereto as follows:

1. Objectives, Scope, and Major Activities

Both institutions agree to encourage the development of the following types of activities:

- Visits and formal exchanges of faculty and administrators in specific areas of education, research and outreach.
- Cooperate in under graduate education and training through library, museum as well as laboratory resources.
- Organize joint conferences, seminar, webinar, symposia, or other scientific meetings on subjects of mutual interest.
- Exchange of academic information and materials.
- Pursue avenues for under graduate student exchange during the academic year.
- Explore the possibilities for developing joint research programs and collaborations.

2. Responsibilities of the Institutions

The two institutions identify that the execution of any agreed upon activity will depend upon the interests and expertise of the individuals involved and the availability of financial resources, space and other resources. Accordingly, the functioning of any exchange and cooperative programs based on this MoU shall be conferred and determined between the two institutions. It is further expected that both the institutions will be compliant with all applicable legislations of Government of India and State and University policies.

Continued to Page – 2

Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.

15/02/2022

Dr. K. K. Biswal
Principal
Saltora Netaji Centenary College
P.O.-Saltora, Dist.-Bankura

15/02/22



Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



3. Duration and Option to Amend, Extend or Terminate

This MoU will become effective when signed by authorities of both institutions. The agreement will remain in effect for **05 (five) years** from the date of signature given below, and may be renewed or amended by mutual agreement of the institutions. The institutions should agree to periodically review the activities undertaken and the progress made and to consult concerning amendments, renewal or termination of this MoU. Either authority may terminate this MoU at any time by providing written notice prior to three months before such termination to the other authority.

4. General Terms

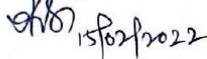
This MoU is not intended to, and does not create any right, benefit, or trust responsibility, substantive or procedural, enforceable by law or equity, by either institute, its officers, employees, or agents against the other institute. Nothing in this MoU obligates either institute to commit or transfer any funds, assets, or other resources in support of projects or activities between the two institutions. Neither institute will use the name of the other, either expressly or by implication, in any publicity, solicitation or advertisement without the express written approval of the other institution to this MoU.

5. Signatures

This MoU shall enter into force on the date of the signing by qualified representatives of both institutions.

IN WITNESS WHEREOF the duly authorized signatories have set their hands and affix their signatures and seals on this the **15th day of February, 2022**.

For, Kabi Jagadram Roy Government General
Degree College


15/02/2022

Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.
Officer-in-Charge

Kabi Jagadram Roy Government General Degree College

For, Saltora Netaji Centenary College


15/02/22

(DR. KISHORE KUMAR BISWAL)
Principal

Saltora Netaji Centenary College

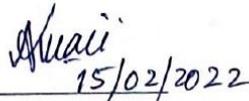
Dr. K. K. Biswal

Principal

Saltora Netaji Centenary College

PO -Saltora, Dist.-Bankura

Signature of Witness:


15/02/2022

(DR. ASESH KUMAR MAJI)

Co-ordinator, IQAC
Kabi Jagadram Roy Government
General Degree College
Mejia, Bankura PIN-722143

Signature of Witness:


15/02/22

(J. Co-ordinator, IQAC)
Saltora Netaji Centenary College,
Saltora, Bankura.





Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



Government of West Bengal
Office of the Principal
Kabi Jagadram Roy Government General Degree College
Mejia - 722143.

(On NH-60), Gopalpur
Mejia, Distt. Bankura
West Bengal.
Phone: +91-3241-250250
E-mail: kjrggdcmejia@gmail.com
Web: www.ggdcmejia.in

TO WHOM IT MAY CONCERN

Certified that **Dr. Sandip Tikait**, Assistant Professor & Head, Department of English, Saltora Netaji Centenary College, Saltora has acted as a Resource Person to deliver a lecture on '**Sophocles Odipus the King**' held on **11.04.2022** at Department of English, Kabi Jagadram Roy Government General Degree College, Mejia in connection with the Faculty Exchange Program as a part of the MoU signed on 15th February, 2022 between Kabi Jagadram Roy Government General Degree College, Mejia, Dist. – Bankura, West Bengal, PIN 722 143, and Saltora Netaji Centenary College, Vill + P.O. + P.S. - Saltora, Dist. - Bankura, PIN 722 158, West Bengal.

Received
Mejia
11/04/2022
Department of English
Saltora Netaji Centenary College
P.O.-Saltora, Dist.-Bankura

AKS 11/04/2022
(Aloke Kumar Das)
Officer-in-Charge

Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.

Office of the Principal, Kabi Jagadram Roy Govt. General Degree College, Mejia – 722 143.



AKS
Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



Government of West Bengal
Office of the Principal
Kabi Jagadram Roy Government General Degree College
MEJIA – 722143

(On NH-60)
P.O. - Mejia, Dist. - Bankura
West Bengal.
Phone: +91-3241-250250
E-mail: kjrggdcmejia@gmail.com
Website: www.kjrggdc.ac.in



SALTORA NETAJI CENTENARY COLLEGE

(Affiliated to Bankura University)

COLLEGE CODE – 119

SALTORA, 722158, DIST.-BANKURA, WEST BENGAL

Website : www.sallorancollege.org

E-mail : sncc214@gmail.com

Mobile : 8967911896
Land Line : 03241 273027

Date 02/07/22

Letter No.

From :
Principal / Teacher-in-charge

Certified that **Ms. Indrani Mondal**, Assistant Professor of Geology, Kabi Jagadram Roy Government General Degree College, Mejia has acted as a Resource Person to deliver a lecture on 'Earth's Fuel Resources' held on **02.07.2022** at Department of Geography, Saltora Netaji Centenary College, Saltora in connection with the Faculty Exchange Program as a part of the MoU signed on 15th February, 2022 between Kabi Jagadram Roy Government General Degree College, Mejia, Dist. -Bankura, West Bengal, PIN 722 143, and Saltora Netaji Centenary College, Vill + P.O. + P.S. - Saltora, Dist. - Bankura, PIN 722 158, West Bengal.



(Handwritten signature)

(Dr. Kishore Kumar Biswal)
Principal

Saltora Netaji Centenary College
Principal

Saltora Netaji Centenary College
P.O.- Saltora, Dist.- Bankura



(Handwritten signature)

Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



Date: 01.12.2023

SUMMARY OF THE ACTIVITIES CONDUCTED UNDER THE MoU
BETWEEN
KABI JAGADRAM ROY GOVERNMENT GENERAL DEGREE COLLEGE, MEJIA
AND
SALTORA NETAJI CENTENARY COLLEGE, SALTORA

This is to certify that a MoU was signed on 15.02.2022 for an initial period of 05 (five) years (i.e., valid up to 14.02.2027) between Kabi Jagadram Roy Government General Degree College, Mejia, Dist. - Bankura, West Bengal, PIN 722 143, and Saltora Netaji Centenary College, Saltora, Dist. - Bankura, PIN 722 158, West Bengal. The list of activities conducted under the aforesaid MoU till 01.12.2023 is as follows.

Sl No.	Type of activity	Academic Year	Date (s) of activity		Brief description of the activity
			From	To	
01	Faculty Exchange	2021-2022	11.04.2022	11.04.2022	Dr. Sandip Tikait, Assistant Professor of English, Saltora Netaji Centenary College, Saltora has acted as a Resource Person to deliver a lecture on 'Sophocles Oedipus the King' at Kabi Jagadram Roy Government General Degree College, Mejia.
02	Faculty Exchange	2022-2023	02.07.2022	02.07.2022	Lecture on Earth's Fuel Resources was delivered at Saltora Netaji Centenary College, Saltora by Ms. Indrani Mondal, Assistant Professor of Geology, Kabi Jagadram Roy Government General Degree College, Mejia

Outcome of the MoU: The faculty exchange programmes under the MoU have been beneficial to the students of both the colleges.


(ALOKE KUMAR DAS)
Officer-in-Charge
Kabi Jagadram Roy Government General Degree College

Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.


(DR. KISHORE KUMAR BISWAL)
Principal
Saltora Netaji Centenary College
Principal
Saltora Netaji Centenary College
P.O.- Saltora, Dist.- Bankura

Office of the Principal, Kabi Jagadram Roy Govt. General Degree College, Mejia - 722 143.




Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



MEMORANDUM OF UNDERSTANDING (MoU)

Between

KABI JAGADRAM ROY GOVERNMENT GENERAL DEGREE COLLEGE

[Mejia, Dist. – Bankura, PIN 722 143 West Bengal;

Phone: 03241-250250, E-mail: kjrggdcmejia@gmail.com]

And

PANDIT RAGHUNATH MURMU SMRITI MAHAVIDYALAYA
[Baragari, P.O. - Jamboni, Dist- Bankura, PIN 722 150, West Bengal

Phone: 7718300300; E-mail: principal@prmsmahavidyalaya.org]

Date: 10th February, 2022


10/02/2022

Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.




10/02/2022
PRINCIPAL
PRMS MAHAVIDYALAYA
BARAGARI, JAMSONI, BANKURA



Page 1 of 3




Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



KABI JAGADRAM ROY GOVERNMENT GENERAL DEGREE COLLEGE is a reputed academic higher education institution under Bankura University, established in 2015, located at Gopalpur (beside NH 60), P.O. - Mejia, Dist. – Bankura, PIN 722 143, West Bengal.

PANDIT RAGHUNATH MURMU SMRITI MAHAVIDYALAYA is a reputed academic higher education institution under Bankura University, established in 1986, located at Baragari, P.O. - Jamboni, Dist - Bankura, PIN 722 150, West Bengal

Both the institutions herein have noted the importance the value of cooperation and have agreed to enter into this Memorandum of Understanding (MoU) regarding academic collaboration. The purpose of this non-binding MoU is to make possible academic and cultural exchange between both the institutions based on the principles of mutual equality and the reciprocity of benefits.

Now this MoU is agreed by and between both the colleges hereto as follows:

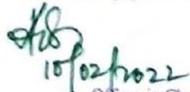
1. Objectives, Scope, and Major Activities

Both institutions agree to encourage the development of the following types of activities:

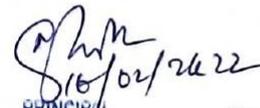
- Visits and formal exchanges of faculty, students and administrators in specific areas of education, research and outreach.
- Cooperate in Undergraduate education and training through library, museum as well as laboratory resources.
- Organize joint conferences, webinar, symposia, or other scientific meetings on subjects of mutual interest.
- Exchange of academic information and materials.
- Explore the possibilities for developing joint research programs and collaborations.

2. Responsibilities of the Institutions

The two institutions identify that the execution of any agreed upon activity will depend upon the interests and expertise of the individuals involved and the availability of financial resources, space and other resources. Accordingly, the functioning of any exchange and cooperative programs based on this MoU shall be conferred and determined between the two institutions. It is further expected that both the institutions will be compliant with all applicable legislations of Government of India and State and University policies


10/02/2022

Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.


10/02/2022

PRINCIPAL
PRMS MAHAVIDYALAYA
BARAGARI, JAMBONI, DIST. BANKURA, W.B.

Page 2 of 3





Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



3. Duration and Option to Amend, Extend or Terminate

This MoU will become effective when signed by authorities of both institutions. The agreement will initially remain in effect for **05 (Five) years** from the date of signature given below, and may be renewed or amended by mutual agreement of the institutions. The institutions should agree to periodically review the activities undertaken and the progress made and to consult concerning amendments, renewal or termination of this MoU. Either authority may terminate this MoU at any time by providing written notice prior to three months before such termination to the other authority.

4. General Terms

This MoU is not intended to, and does not create any right, benefit, or trust responsibility, substantive or procedural, enforceable by law or equity, by either institution, its officers, employees, or agents against the other institution, its officers, employees, or agents. Nothing in this MoU obligates either institution to commit or transfer any funds, assets, or other resources in support of projects or activities between the two institutions. Neither institute will use the name of the other, either expressly or by implication, in any publicity, solicitation or advertisement without the express written approval of the other institute to this MoU.

5. Signatures

This MoU shall enter into force on the date of the signing by qualified representatives of both institutions. In witness whereof the duly authorized signatories have affixed their signatures and seals on **10th February, 2022**.

For, Kabi Jagadram Roy Government General Degree College, Mejia Dist. – Bankura, PIN 722 143.


(ALOKE KUMAR DAS)
Officer-in-Charge

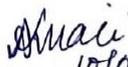
Kabi Jagadram Roy Government General Degree College
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.

In Witness of:

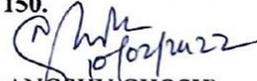
Signature:

Name:

Designation:


10/02/2022
(DR ARESH KUMAR MAJI)
Co-ordinator, IQAC
Kabi Jagadram Roy Government
General Degree College
Mejia, Bankura. PIN-722143

For, Pandit Raghunath Murmu Smriti Mahavidyalaya, Baragari, Jamboni, Dist. - Bankura, PIN 722 150.


(DR NEELANSHU GHOSH)
Principal

Pandit Raghunath Murmu Smriti Mahavidyalaya

PRINCIPAL
PRMS MAHAVIDYALAYA
BARAGARI, JAMBONI, BANKURA

Signature:

Name:

Designation:


10/2/2022
MR ANUR BATT
Asst. Prof. and IQAC Co-ordinator

IQAC CO-ORDINATOR
PRMS MAHAVIDYALAYA

Page 3 of 3




Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



Government of West Bengal
Office of the Principal
Kabi Jagadram Roy Government General Degree College
MEJIA – 722143

(On NH-60)
P.O. - Mejia, Dist. - Bankura
West Bengal.
Phone: +91-3241-250250
E-mail: kjrggdcmejia@gmail.com
Website: www.kjrggdc.ac.in



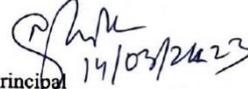
Pandit Raghunath Murmu Smriti Mahavidyalaya
[UG and PG College]
A Govt. Aided and NAAC accredited Institute

Date: 14/03/2023

TO WHOM IT MAY CONCERN

Certified that Shri **Biswajit Bera**, Assistant Professor of Mathematics of Kabi Jagadram Roy Government General Degree College, Mejia has acted as a Resource Person to deliver a lecture on '**Basics of Differential Equation**' held on **14.03.2023** at Pandit Raghunath Murmu Smriti Mahavidyalaya, Baragari in connection with the Faculty Exchange Program as part of the MOU signed on 10/02/2022 between Kabi Jagadram Roy Government General Degree College, Mejia, and Pandit Raghunath Murmu Smriti Mahavidyalaya, Baragari.

Shri Bera is greatly acknowledged for his valuable lecture and wishing him success in life.


Principal 14/03/2023

(DR NEELANGSHU GHOSH)
Pandit Raghunath Murmu Smriti Mahavidyalaya

PRINCIPAL
PRMS MAHAVIDYALAYA
BARAGARI, JAMBONI, BANKURA



Baragari (P. More); P.O. – Jamboni
Dist. Bankura : Pin – 722150

prmsmahavidyalaya@yahoo.co.in
principal@prmsmahavidyalaya.org

+919832302815
+919635615862

Visit us at:
www.prmsmahavidyalaya.org





Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



Government of West Bengal
Office of the Principal
Kabi Jagadram Roy Government General Degree College
Mejia - 722143.

(On NH-60), Gopalpur
Mejia, Distt. Bankura
West Bengal.
Phone: +91-3241-250250
E-mail: kjrggdcmejia@gmail.com
Web: www.ggdcmejia.in

Date: 18/03/2023

TO WHOM IT MAY CONCERN

This is to certify that Shri **Anirban Ash**, Assistant Professor of English of Pandit Raghunath Murmu Smriti Mahavidyalaya, Baragari has acted as a Resource Person to deliver a lecture on '**The Theatre of the Absurd and the Literature in English**' held on **18/03/2023** at Kabi Jagadram Roy Government General Degree College, Mejia, Bankura in connection with the Faculty Exchange Program as part of the MOU signed on 10/02/2022 between Kabi Jagadram Roy Government General Degree College, Mejia, and Pandit Raghunath Murmu Smriti Mahavidyalaya, Baragari, Jamboni, Dist. -Bankura, PIN 722 150.

The lecture of Shri Ash is greatly acknowledged and wishing him success in life.



(Signature)
(Aloke Kumar Das)
Officer-in-Charge

Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.

Received on 18/3/2023
(Signature)
IQAC CO-ORDINATOR
PRMS MAHAVIDYALAYA
ASSISTANT PROFESSOR AND HEAD
THE DEPARTMENT OF ENGLISH
PRMS MAHAVIDYALAYA

Office of the Principal, Kabi Jagadram Roy Govt. General Degree College, Mejia - 722 143.



(Signature)
Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



Government of West Bengal
Office of the Principal
Kabi Jagadram Roy Government General Degree College
Mejia - 722143.

(On NH-60), Gopalpur
Mejia, Distt. Bankura
West Bengal.
Phone: +91-3241-250250
E-mail: kirggdcmejia@gmail.com
Web: www.ggdcmejia.in

Date: 08.01.2024

**SUMMARY OF THE ACTIVITIES CONDUCTED UNDER THE MoU
BETWEEN
KABI JAGADRAM ROY GOVERNMENT GENERAL DEGREE COLLEGE, MEJIA
AND
PANDIT RAGHUNATH MURMU SMRITI MAHAVIDYALAYA, BARAGARI**

This is to certify that a MoU was signed on 10.02.2022 for an initial period of 05 (five) years (i.e., up to 09.02.2027) between Kabi Jagadram Roy Government General Degree College, Mejia, Dist. - Bankura, West Bengal, PIN 722 143, and Pandit Raghunath Murmu Smriti Mahavidyalaya, Baragari, Jamboni, Dist.-Bankura, PIN 722 150. The list of activities conducted under the aforesaid MoU till 08.01.2024 is as follows.

Sl No.	Type of activity	Academic Year	Date (s) of activity		Brief description of the activity
			From	To	
01	Faculty Exchange	2022-2023	14.03.2023	14.03.2023	Shri Biswajit Bera, Assistant Professor of Mathematics of Kabi Jagadram Roy Government General Degree College, Mejia has acted as a Resource Person to deliver a lecture on 'Basics of Differential Equation' at Pandit Raghunath Murmu Smriti Mahavidyalaya, Baragari
02	Faculty Exchange	2022-2023	18.03.2023	18.03.2023	Shri Anirban Ash, Assistant Professor of English of Pandit Raghunath Murmu Smriti Mahavidyalaya, Baragari has acted as a Resource Person to deliver a lecture on 'The Theatre of the Absurd and the Literature in English' at Kabi Jagadram Roy Government General Degree College, Mejia, Bankura

Outcome of the MoU:

All the aforesaid lectures are informative and interesting, which not only enriched the young minds of those present but also left a long-lasting impression. Thus, both the colleges have been highly benefitted through the common activities under the MoU.

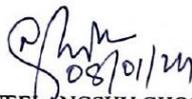

(ALOKE KUMAR DAS)
Officer-in-Charge

Kabi Jagadram Roy Government General Degree College
Officer-in-Charge

Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



Office of the Principal, Kabi Jagadram Roy Govt. General Degree College, Mejia - 722 143.


(DR NEELANSHU GHOSH)
Principal

Pandit Raghunath Murmu Smriti Mahavidyalaya

PRINCIPAL
PRMS MAHAVIDYALAYA
BARAGARI, JAMBONI, BANKURA




Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



Government of West Bengal
Office of the Principal
Kabi Jagadram Roy Government General Degree College
Mejia - 722143.

(On NH-60), Gopalpur
Mejia, Distt. Bankura
West Bengal.
Phone: +91-3241-250250
E-mail: kjrggdcmejia@gmail.com
Web: www.ggdcmejia.in

MEMORANDUM OF UNDERSTANDING (MoU)

Between

KABI JAGADRAM ROY GOVERNMENT GENERAL DEGREE COLLEGE
[Mejia, Dist. – Bankura, PIN 722 143 West Bengal]

And

DURGAPUR GOVERNMENT COLLEGE
[Durgapur, Dist. – Paschim Barddhaman, PIN 713 214 West Bengal]

Date: 07th February, 2022



AS
07/02/2022

Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



Principal

Principal
Durgapur Govt. College

Office of the Principal, Kabi Jagadram Roy Govt. General Degree College, Mejia – 722 143.



AS

Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



This agreement between Kabi Jagadram Roy Government General Degree College, Mejia, Dist.-Bankura, PIN 722 143, West Bengal and Durgapur Government College, J. N. Avenue, Durgapur, Dist. – Paschim Barddhaman, PIN 713 214 is signed on **07th February, 2022.**

KABI JAGADRAM ROY GOVERNMENT GENERAL DEGREE COLLEGE is a reputed academic higher education institution under Bankura University, established in 2015, located at Gopalpur (on NH 60), P.O. - Mejia, Dist. – Bankura, PIN 722 143, West Bengal

and

DURGAPUR GOVERNMENT COLLEGE is a reputed academic higher education institution under Kazi Nazrul University, established in 1969, located at J. N. Avenue, Durgapur, Dist. – Paschim Barddhaman, PIN 713 214, West Bengal

Objectives, Scope, and Major Activities:

Both institutions agree to encourage the development of the following types of activities:

1. Visits and formal exchanges of faculty, students and administrators in specific areas of education, research and outreach.
2. Cooperate in Undergraduate education and training through library, museum as well as laboratory resources.
3. Organize joint conferences, seminar, webinar, symposia, or other scientific meetings on subjects of mutual interest.
4. Exchange of academic information and materials.
5. Explore the possibilities for developing joint research programs and collaborations.



[Signature]
07/02/2022

Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



[Signature]
Principal
Durgapur Govt. College

Office of the Principal, Kabi Jagadram Roy Govt. General Degree College, Mejia – 722 143.



[Signature]
Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



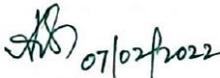
6. All such activities will be done as per existing guidelines of the Government of India, State Government, UGC and University

General terms and Conditions:

1. **Duration of MOU:** This MOU will be effective from the date of agreement and will have an initial duration of **05 (five)** years. The MOU may be extended with the consent of both the parties.
2. **Confidentiality:** Both the colleges will maintain confidentiality about the terms and conditions of the agreement.
3. **Termination of MOU:** This MOU may be terminated at any time with a 15 days prior notice from either of the parties.
4. **Modification:** Any alteration / modification to the MOU may be done with mutual consent of both the parties. Involvement of new departments/activities may be done from time to time with mutual consent of both the colleges.

For, Kabi Jagadram Roy Government General
Degree College, Mejia




(ALOK KUMAR DAS)
Officer-in-Charge

Kabi Jagadram Roy Government General Degree College
Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.

For, Durgapur Government College,
Durgapur


(DR. DEBNATH PALIT)
Principal

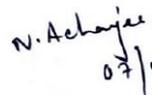


Durgapur Government College
Principal
Durgapur Govt. College

In Witness of:


07/02/2022
(DR. ARESH KUMAR MAJI)

Co-ordinator, IQAC
Kabi Jagadram Roy Government
General Degree College
Mejia, Bankura, PIN-722143


07/02/2022
(DR. NIVEDITA ACHARJEE)

Dr. Nivedita Acharjee, (WBES)
Assistant Professor
Department of Chemistry (UG & PG)
Durgapur Government College
Durgapur-713214




Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



Government of West Bengal
Office of the Principal
Kabi Jagadram Roy Government General Degree College
Mejia - 722143.

(On NH-60), Gopalpur
Mejia, Distt. Bankura
West Bengal.
Phone: +91-3241-250250
E-mail: kjrggdmejia@gmail.com
Web: www.ggdmejia.in

Date: 02.03.2022

From,
Officer-in-Charge

To
The Principal
Durgapur Government College
Durgapur, PIN 713214 (West Bengal)

Sub: Proposal for organization of a seminar on FUNCTIONAL TRAITS, ECOLOGY AND PHYLOGENY' in connection with the MoU signed on 07.02.2022 between Kabi Jagadram Roy Government General Degree College, Mejia and Durgapur Government College, Durgapur.

Sir,

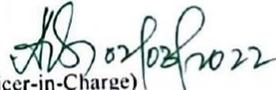
We wish to organize a seminar on FUNCTIONAL TRAITS, ECOLOGY AND PHYLOGENY' tentatively during 3rd week of March, 2022 as a collaborative activity in connection with the MoU signed on 07.02.2022 between our two colleges.

I, therefore, request you to give your consent and valuable suggestions, if any in this regard to organize it successfully.

Thanking you,

Yours faithfully,




(Officer-in-Charge)
Officer - in - Charge
Kabi Jagadram Roy Government General Degree College
Mejia - 722143, Distt. - Bankura, W.B.

Office of the Principal, Kabi Jagadram Roy Govt. General Degree College, Mejia - 722 143.




Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



Government of West Bengal
Office of the Principal
Kabi Jagadram Roy Government General Degree College
MEJIA – 722143

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West Bengal.
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Website: www.kjrggdc.ac.in



Durgapur Government College
Office of the Principal
J.N. Avenue, Durgapur, District-Paschim Bardhaman, West Bengal, Pin-713214
Website: <https://www.durgapurgovtcollege.ac.in/> E-mail: dpggovtcollege@gmail.com

Date: 09/03/2022

To
The Officer-in-Charge
Kabi Jagadram Roy Government General Degree College
P.O. Mejia, Dist. – Bankura
PIN 722 143 (West Bengal)

Sub: Acceptance of your proposal for organisation of a collaborative seminar on FUNCTIONAL TRAITS, ECOLOGY AND PHYLOGENY' tentatively during 3rd week of March, 2022.

Ref: Your letter dated 02/03/2022

Sir,

Thank you for your proposal for organization of a collaborative seminar on FUNCTIONAL TRAITS, ECOLOGY AND PHYLOGENY' tentatively during 3rd week of March, 2022. Please go ahead for the same.

Thanking you,

Yours faithfully,

(Dr. Debnath Palit)
Principal

Principal
Durgapur Govt. College



Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



No.: Geol/01/0322/PR-DGC

Date: 16.03.2022

From
Dr. Aresh Kumar Maji
Associate Professor and Head, Department of Geology
IQAC, Co-ordinator
(Mobile: 9434646687; E-Mail: askmaji@gmail.com)

To
Dr. Pinaki Roy
Assistant Professor, Department of Geology
Durgapur Government College
Durgapur, PIN 713214 (West Bengal)

Sub: Invitation as a Resource Person for delivering lecture in a seminar on 'FUNCTIONAL TRAITS, ECOLOGY AND PHYLOGENY' in connection with the MoU signed on 07.02.2022 between Kabi Jagadram Roy Government General Degree College, Mejia and Durgapur Government College, Durgapur.

Dear Sir,

I would like to take this opportunity to inform you that the Department of Geology, Kabi Jagadram Roy Government General Degree College, Mejia is planning to organize a seminar on Palaeontology in connection with the MoU signed on 07.02.2022 between Kabi Jagadram Roy Government General Degree College, Mejia and Durgapur Government College, Durgapur. This seminar has been scheduled to be held on **24th March 2022 (Thursday)**. In this regard, I would like to invite you as a Resource Person to deliver a lecture on 'Functional traits, ecology, and phylogeny' since you have much expertise in this field. Our department will be very much grateful if you can spare your valuable time to attend the seminar and deliver the lecture on the aforesaid topic at **11.30 A.M. on 24th March, 2022.**

Thanking you.

Received

BR. PINAKI ROY (WBES)
Assistant Professor
Department of Geology
Durgapur Government College
Durgapur - 713214, W.B.

Yours faithfully,

Amaji 16/03/2022
(Dr. Aresh Kumar Maji)

Dr. ARESH KUMAR MAJI, W.B.E.S
Associate Professor of Geology
Kabi Jagadram Roy Government General Degree College
Mejia-722143, Dist-Bankura, W.B.

Copy forwarded for information and further necessary action to:

- (i) The Officer-in-Charge, Kabi Jagadram Roy Government General Degree College, Mejia.

(Dr. Aresh Kumar Maji)



Amaji

Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



A brief report on one-day Seminar
on
"Functional Traits, Ecology and Phylogeny"
organized by,

Department of Geology
Kabi Jagadram Roy Government General Degree College
Mejia, Bankura-722143, W.B., India

Date: March 24, 2022 (Thursday); Time: 11.30AM
Venue: Seminar Hall (Room No. 301)

A one-day Seminar on **"Functional Traits, Ecology and Phylogeny"** was organized by the Department of Geology, Kabi Jagadram Roy Government General Degree College Mejia, Bankura-722143, W.B. on March 24, 2022 (Thursday) at 11.30AM at the Seminar Hall (Room No. 301).

The Seminar was initiated by the welcome address of **Dr. Aresh Kumar Maji**, Head, Department of Geology. In his address Dr. Maji emphasized on the relevance of the seminar in the offline mode after the Covid Pandemic and the need of conducting such seminars. He welcomed all the dignitaries: the Officer-in Charge of KJRGDC **Prof. Alope Kumar Das**; the guest speaker- Pinaki Roy, Assistant Professor of Geology, Durgapur Government College; faculty members of Dept. of Geology and other departments, students and the non-teachings faculties.

The seminar was inaugurated by Chief Patron Prof. Alope Kumar Das, Officer-in-Charge, KJRGDC. In his inauguration speech he thoughtfully addressed his concern regarding this educational initiative, welcomed all the delegates and participants, expressed his cooperative gesture towards the organizing committee and encouraged the students for their active participations.

Opening remarks of the Seminar was delivered by **Dr. Aresh Kumar Maji**, convener of the event. He focused on the goal and different perspectives of the seminar, possible outcome of this event and introduced the guest speaker to the audience.

Nivedita Ghosh

Organizing Secretary

(1)



AS

Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



Participation:

This seminar was organized for especially for the students of Department of Geology, KJRGDC. Around 20 participants, mostly students from current batches and few ex-students of this department, attended the lecture.

Seminar Objective:

A general pattern of geographical gradients in species diversity prevails widespread across the tree of life, with species richness in most groups declining from the tropics to the poles and from low to high elevations. This kind of variation reflects deterministic differences in the ecological capacity of environments to support increasing biodiversity towards the lowland tropics. However, the importance of these alternative scenarios remains unknown, largely because standardized information on functional traits and their ecological relevance is lacking for major diversity gradients. Functional traits are known to highlight both species' contributions to ecosystem properties and services and, their tolerance to environmental stressors and disturbances. In parallel, a phylogenetic perspective has been widely used in functional trait studies at levels ranging from individuals to communities. Keeping this in view, Department of Geology, Kabi Jagadram Roy Government General Degree College took the initiative of organizing a one-day seminar on “**Functional Traits, Ecology and Phylogeny**” so that undergraduate students of this department get a chance to learn this specialized yet topical subject in connection with their Palaeontology core paper under CBCS curriculum. The seminar also aimed to a one on one free interaction with the speaker which was exceedingly desired by the students after the Covid Pandemic.

Seminar Outcome:

With a spontaneous response from students, the seminar was a memorable educational event. The event aided the participants to learn about an interesting and essential topic with high academic relevance and research potential from an expert in this particular field. Participants were academically enriched through the free interaction with the speaker. They also got chance to observe a number of specimens in hand under the guidance of the speaker in the practical session.

Nivedita Chatterjee

Organizing Secretary

(2)



AS

Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



Students Feedback:

- I am first time attending a seminar in offline mode. It was an excellent opportunity for me to hear such an important topic from an expert in that field and to interact with him face to face. I learned a lot of new things in an easy way. I am grateful to my teachers for organizing such an excellent talk by Dr. Pinaki Roy. I wish my department will organize such seminar/lecture in future too. Thank you.
(Nipa Sen, Roll No. 1935083, UG-III).
- It was a wonderful experience for me. Being a student of UG-II, I got a chance to know a topic of my previous semester in a more detailed and advanced way. I could relate almost everything and got a chance to know some advance level of information too which I believe will be useful during my masters. I am grateful to my department for organizing this seminar for us. Thank you.
(Nilavo Shit, Roll No. 2035096, UG-II).
- I am a student of the first batch of this department. In our time we did not get a scope to participate such academic programme in our own college. When NC Ma'am shared the notice in our alumni group I decided to attend it. It will be a memorable experience for me. I have completed M.Sc in Geology. Still I feel highly benefitted from this seminar. I express my thankfulness to my teachers of this department to organize such a meaning event. I am grateful to Dr. Pinaki Roy for this highly informative presentation. Thank you.
(Rupan Roy, Ex-student, Dept. of Geology, KJRGDC).

Officer-In-Charge

Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143 Dist-Bankura, W.B.

IQAC Coordinator

Co-ordinator, IQAC
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143 Dist-Bankura, W.B.

Convener

Dr. ARESH KUMAR MAJI, W.B.E.S
Associate Professor of Geology
Kabi Jagadram Roy Government General Degree College
Mejia-722143, Dist-Bankura, W.B.

Organizing Secretary

Dr. NIVEDITA CHAKRABORTY, W.B.E.S
Assistant Professor of Geology
Kabi Jagadram Roy Govt General Degree College
Mejia-722143, Dist.-Bankura, W.B.

(6)



Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



Certificate of Appreciation

This certificate is awarded to *Dr. Pinaki Roy, Assistant Professor,*
Department of Geology, Durgapur Government College, J.N.
Avenue, Durgapur-713214, Paschim Bardhaman, West
Bengal, for executing the precious work of Resource Person in a seminar
held at Kabi Jagadram Roy Government General Degree College,
Mejia on 24/03/2022 on 'Functional Traits, Ecology and
Phylogeny' as a part of Faculty Exchange in connection with the MoU
signed on 07/02/2022 between Kabi Jagadram Roy Government
General Degree College, Mejia and Durgapur Government College,
Durgapur.

Dated, Mejia,
24th day of March, 2022


Officer-in-Charge

Kabi Jagadram Roy Government General Degree College

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Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.

Received

 24/03/2022

DR. PINAKI ROY (WBES)
Assistant Professor
Department of Geology
Durgapur Government College
Durgapur - 713214, W.B.




Officer-in-Charge
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Website: www.kjrggdc.ac.in



OFFICE OF THE PRINCIPAL
DURGAPUR GOVERNMENT COLLEGE
(NAAC Accredited A Grade in 2017)
J. N. AVENUE, DURGAPUR-713214, PASCHIM BARDHAMAN
E-mail : dpggovtcollege@gmail.com; Website : www.durgapurgovtcollege.ac.in

TO WHOM IT MAY CONCERN

Certified that as a part of the MoU signed on **07/02/2022** between Kabi Jagadram Roy Government General Degree College, Mejia, Dist. – Bankura, West Bengal, PIN 722 143, and Durgapur Government College, J. N. Avenue, Durgapur, Dist. - Paschim Barddhaman, PIN 713 214, a **Faculty Exchange Program** has taken place on **13/03/2023**.

Dr. Nivedita Chakraborty, Assistant Professor of Geology, Kabi Jagadram Roy Government General Degree College, Mejia has conducted a special class on **FALLACY AND FACTS ON SILICICLASTIC-CARBONATE MIXING** in the Department of Geology at Durgapur Government College on **13/03/2023** in connection with the aforesaid MoU.





(Principal)

Principal
Durgapur Govt. College





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Kabi Jagadram Roy Govt. General Degree College
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Website: www.kjrggdc.ac.in

Durgapur Government College
Jawaharlal Nehru Avenue, Durgapur-713214, West Bengal

Attendance Sheet

Lecture Topic : Fallacy and Facts on Siliciclastic-Carbonate Mixing
Date and Time : 13.03.2023; 11.30AM - 1.30 PM
Resource Person : Dr. Nivedita Chakraborty, Assistant Professor (W.B.E.S.)
Department of Geology
Kabi Jagadram Roy Government General Degree College, Mejia
Bankura-722143
Total No. of Participants : 16

Sl. No.	Name	Details of Participants	Signature
1	JEET GANGULY	M.Sc. (2nd Sem)	Jeet Ganguly
2.	ARNAB SAHA	M.Sc. (2nd sem)	Arnab Saha
3.	SUNANDA CHOWDHURY	M.Sc. (2nd sem)	Sunanda Chowdhury
4.	DEBJYOTI GHAR	M.Sc. (2nd Sem)	Debjyoti Ghar.
5.	MAHADEB DEY	M.Sc. (2nd sem)	Mahadeb Dey
6.	BISWANATH GHOSH	M.Sc. (4th sem)	Biswanath Ghosh
7.	SAYAJITAJY MODAK	M.Sc. (4th Sem)	Sayajitajy Modak
8.	ASMITA CHAND	M.Sc. (4th sem)	Asmita Chand
9	PAYEL MANDAL	M.Sc. (4th sem)	Payel Mandal
10.	SUBHAJIT KUMAR	M.Sc. (4th sem)	Subhajit Kumar.
11.	BISWAJIT MAHATO	M.Sc. (4th sem)	Biswajit Mahato
12.	SHUBHADEEP BISWAS	M.Sc. (4th sem)	Shubhaadeep Biswas
13.	NIPA SEN	M.Sc. (4th Sem)	Nipa Sen
14.	Pinaki Roy	Assistant Professor, Geology	P.R.
15	SUPRATIM PAI	Associate Professor, Geology	S.P.
16	BIKAS SAHA	Asst. Professor (Geology)	B.S.


Principal
DURGAPUR GOVT. COLLEGE


Dr. NIVEDITA CHAKRABORTY, W.B.E.S.
Assistant Professor of Geology
Kabi Jagadram Roy Govt General Degree College
Mejia-722143, Dist.-Bankura, W.B.




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 Website: www.kjrggdc.ac.in

Kabi Jagadram Roy Govt. General Degree College, MEJIA – 722143

Department of Geology

Visit to Rajarshi Chatterjee Memorial Museum of Geology

Date of visit: 21.04.2023 (students and Teacher of Durgapur Govt. College)

Sl. No.	Name	Visitor's details	Signature
1.	Subhankar Basuman	Durgapur Govt college	Subhankar Basuman
2.	NARUNOPAL RUIAS	Durgapur govt college	Narunopal Ruias
3.	Dr. Aminur Rahman	Durgapur Govt. College	Dr. Aminur Rahman
4.	PRABHAT DHIBAR	Durgapur Govt. college	Prabhat Dhibar
5.	KOUSTOV SARKAR	Durgapur Govt. College	Koustov Sarkar
6.	SAYAN KUMAR DAN	Durgapur Govt. College	Sayan Kumar Dan
7.	SHREYA MITRA	DURGAPUR GOVT. COLLEGE	Shreya Mitra
8.	SUPRIYA DAS KALIRAJ	Durgapur Govt. College	Supriya Das Kaliraj
9.	SUCHETA SARKAR	Durgapur Govt. College	Sucheta Sarkar
10.	SAMBIT BHATTACHARYA	Durgapur Govt. College	Sambit Bhattacharya
11.	ASIM MIRDA	Durgapur Govt College	Asim Mirda
12.	ISHAN BANERJEE	Durgapur Govt College.	Ishan Banerjee
13.	Dr. PINAKI ROY	Assistant Professor Durgapur Govt. College	
14.			
15.			
16.			
17.			
18.			24/04/2023
19.			DR. PINAKI ROY (WBES)
20.			Assistant Professor
21.			Department of Geology
22.			Durgapur Government College
23.			Durgapur - 713214, W.B.
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Website: www.kjrggdc.ac.in

Comments on Visit to Rajarshi Chatterjee Memorial Museum of Geology as recorded in the Visitors' Logbook of the Museum

I Dr. Pinaki Roy along with twelve (12) students of the Dept. of Geology, Durgapur Government College, has visited the Rajarshi Chatterjee Memorial Museum of the Dept. of Geology, Kabi Jagadram Roy General Degree College on Earth Day (22nd April, 2023) celebration on 24th April 2023. I have found the museum is very much attractive for the student's inquisitiveness. They have been educated with the different minerals and especially coal collections. Fossil collections especially from Gondwana sequence of adjoining region. I personally appreciate this endeavour.

for 24/04/2023

DR. PINAKI ROY (WBES)
Assistant Professor
Department of Geology
Durgapur Government College
Durgapur - 713214, W.B.



ahs

Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



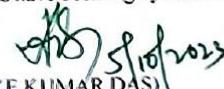
Date: 05.10.2023

SUMMARY OF THE ACTIVITIES CONDUCTED UNDER THE MoU
BETWEEN
KABI JAGADRAM ROY GOVERNMENT GENERAL DEGREE COLLEGE, MEJIA
AND
DURGAPUR GOVERNMENT COLLEGE, DURGAPUR

Certified that a MoU was signed on 07.02.2022 for an initial period of 05 (five) years (i.e., up to 06.02.2027) between Kabi Jagadram Roy Government General Degree College, Mejia, Dist. - Bankura, West Bengal, PIN 722 143, and Durgapur Government College, Durgapur, Dist. - Paschim Bardhaman, West Bengal, PIN 713 214. The list of activities conducted under the aforesaid MoU till 05.10.2023 is as follows.

Sl No.	Type of activity	Academic Year	Date (s) of activity		Brief description of the activity
			From	To	
01	Seminar	2021-2022	24.03.2022	24.03.2022	Seminar on Functional Traits, Ecology and Phylogeny held at Kabi Jagadram Roy Government General Degree College, Mejia. Dr. Pinaki Roy, Assistant Professor of Geology, Durgapur Government College acted as a Resource Person.
02	Faculty Exchange	2022-2023	13.03.2023	13.03.2023	Lecture on Fallacy and facts on siliciclastic - carbonate mixing was delivered at Durgapur Government College, Durgapur by Dr. Nivedita Chakraborty, Assistant Professor of Geology, Kabi Jagadram Roy Government General Degree College, Mejia
03	Student Visit	2022-2023	24.04.2023	24.04.2023	Students and faculty members of Department of Geology, Durgapur Government College, Durgapur visited the Rajarshi Chatterjee Memorial Museum of Geology at Kabi Jagadram Roy Government General Degree College, Mejia.

Outcome of the MoU: All the aforesaid activities are informative and interesting, which not only enriched the young minds of those present but also left a profound and long-lasting impression. Thus, both the colleges have been highly benefitted through the common activities under the MoU.


(ALOKE KUMAR DAS)
Officer-in-Charge
Kabi Jagadram Roy Government General Degree College
Officer - in - Charge
Kabi Jagadram Roy Government General Degree College
Mejia - 722143, Dist. - Bankura, W.B.


(DR. DEBNATH PALIT)
Principal
Durgapur Government College
Principal
Durgapur Govt. College

Office of the Principal, Kabi Jagadram Roy Govt. General Degree College, Mejia - 722 143.




Officer-in-Charge
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Web: www.ggdcmejia.in

Date: 05.01.2022

To whom it may concern

This is to certify that the College has no objection in permitting Sri/Smt./Dr. **Nivedita Chakraborty, Assistant Professor in Geology** to continue her collaborative research/academic linkages/activities with **Department of Earth Sciences, IISER Kolkata** without hampering the normal duties of the College.

I wish her all success in life.




Aloke Kumar Das
Officer-in-Charge

Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



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भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान कोलकाता

(भारत सरकार के शिक्षा मंत्रालय द्वारा स्थापित एक स्वायत्तशासी संस्थान)

INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH KOLKATA

(An autonomous Institute established by Ministry of Education, Government of India)

This is to certify that Dr. Nivedita Chakraborty, Assistant Professor, Department of Geology, Kabi Jagadram Government College Degree College, Mejia, Bankura is associated with me in collaborative geological research in the Cretaceous successions of the Cauvery Basin, Tamil Nadu. We did publish one scientific research paper in the Journal of the Geological Society of India in 2023.

Mondal
Dr. Subhronil Mondal
Assistant Professor
Department of Earth Sciences
IISER Kolkata

Dr. Subhronil Mondal
Assistant Professor
Department Of Earth Sciences
IISER Kolkata
Mohanpur, West Bengal 741246

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Jour. Geol. Soc. India (2023) 99:177-186
<https://doi.org/10.1007/s12594-023-2285-1>

ORIGINAL ARTICLE

Absence of Belemnites in the Post-Cenomanian Marine Successions of Cauvery Basin, India: Role of Sea Level, Paleogeography, and Belemnite Paleoecology

Subhronil Mondal^{1,2,*}, Shreyasi Hazra² and Nivedita Chakraborty³

¹Department of Earth Sciences, Indian Institute of Science Education and Research (IISER) Kolkata, Mohanpur - 741 246, India

²Department of Geology, University of Calcutta, 35, B.C. Road, Kolkata - 700 019, India

³Department of Geology, Kabi Jagadram Roy Government General Degree College, Bankura - 722 143, India

*E-mail: subhronil.m@iiserkol.ac.in

Received: 28 May 2022 / Revised form Accepted: 4 August 2022
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ABSTRACT

Belemnites were important Mesozoic marine organisms, and Cretaceous belemnite rostra are found worldwide, including the Cauvery Basin, south-eastern India. However, in the Cauvery Basin, belemnites of the families Belemnopsidae and Dimitobelidae are found only from the Albian-Cenomanian rocks but are absent in the overlying Turonian-Maastrichtian rocks. Although Belemnopsidae became globally extinct in the Cenomanian, Dimitobelidae was still thriving in the nearby Austral regions, so it is not clear why belemnites suddenly suffered local extinction. Moreover, in the post-Cenomanian interval, the newly evolved family Belemnitellidae was thriving globally but is absent in India. To understand the causes of this local extinction as well as the causes of the complete absence in the younger rocks, an analysis of different paleoecological-paleoenvironmental conditions was carried out of all Albian to Maastrichtian formations of the Cauvery Basin against the background of the global belemnite paleobiogeography and evolutionary patterns. The study reveals, during the end Cenomanian, shallowing of the basin caused the local extinction of the shelf-living Belemnopsidae and Dimitobelidae in this basin. In the younger intervals, since India was migrating towards the equator, the stenothermal Dimitobelidae did not survive the warmer water surrounding India and only thrived in the cooler Austral water. Perhaps for the same reason, Dimitobelidae never invaded India, even during the Late Cretaceous transgression. Moreover, during its northern voyage, India was surrounded by deep ocean, acting as a physical barrier for the shelf-dwelling Belemnitellidae of the Boreal Realm to invade India.

INTRODUCTION

The Cretaceous, a time of remarkable plate tectonic movements and concomitant sea-level fluctuations, was an interval of global paleobiogeographic redistributions and taxonomic-ecological restructuring in marine invertebrates (Hallam, 1973, 1985). During the early Late Cretaceous, due to global sea level rise, vast areas of the continents were covered by epicontinental seas, and marine sediments were deposited globally, including India (Hancock and Kauffman, 1979; Acharyya and Lahiri, 1991; Chakraborty et al., 2021a). The Cauvery Basin, a NE-SW trending rift basin in the southernmost part of the Indian peninsular shield, hosts a more or less complete marine

succession ranging from the Albian to the Maastrichtian, with a rich marine fossil record (Blanford, 1865; Stoliczka, 1861-1873; Pascoe, 1959; Ayyasami and Banerji, 1984; Acharyya and Lahiri, 1991; Govindan et al. 1996; Tewari, 1996; Sastri et al., 1977; Sundaram et al., 2001; Ayyasami, 2006; Nagendra et al., 2018; Chakraborty et al., 2021a; Nagendra and Nallapa Reddy, 2021). Among these fossils, the Cauvery belemnites have been one of the main focuses of different taxonomic, paleoecological, paleoenvironmental, and paleobiogeographic studies (Blanford, 1865; Stoliczka, 1861-1873; Pascoe, 1959; Bowen, 1961; Ayyasami and Jagannadha Rao, 1987; Doyle, 1992; Ayyasami, 2006; Zakharov et al., 2011).

Belemnites were one of the most important marine coleoid cephalopods during the Cretaceous and have been used for stratigraphic correlation of the Mesozoic rocks (Hoffmann and Stevens, 2020; also, Doyle and Bennett, 1995 and references therein). Paleobiogeographically, from the Aptian/Albian-onwards, belemnites had a 'tripartite' distribution into three distinct marine realms: Boreal (= North Temperate Realm of Christensen, 1997a,b), Tethyan, and Austral (= South Temperate Realm of Christensen, 1997a,b; Aptian-onwards Indo-Pacific Realm of Stevens, 1963) (Stevens, 1963; Christensen, 1976, 1997a,b; Doyle, 1992; Crame, 1992; Hoffmann and Stevens, 2020). The Boreal Realm included Russia across northern Europe to England, Greenland, and North America; and the Tethyan Realm included southern and central Europe and east Africa (Stevens, 1963, 1973; Christensen, 1997a,b). Until the Albian, belemnites were also present in the North Pacific Realm (Iba et al., 2011). During the Aptian-Albian, the Austral Province came into existence in the southern hemisphere and included locations like South America, Madagascar, Antarctica, and South India (Doyle, 1992).

Three belemnite families, all monophyletic except the last one (Stevens, 2021), dominated all these realms (Stevens, 1973; Doyle, 1985, 1987, 1988, 1992; Doyle and Bennett, 1995; Doyle and Howlett, 1989; Crame, 1992): (1) Dimitobelidae (Aptian-Maastrichtian), consisting of the genera like *Pumiliobelus*, *Peratobelus*, *Peratobelus*, and *Dimitobelus* in the Austral Realm, from New Guinea to Argentina, indicating their significant biogeographic presence following the circum-Gondwana migratory route. In comparison, *Pumiliobelus* is so far only known from Western Australia (Williamson and Henderson 2015). *Tetrabelus* was also endemic, and was restricted to south India, Antarctica, and New Zealand (Doyle, 1985, 1987, 1988, 1992; Doyle

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SUMMARY OF THE COLLABORATIVE RESEARCH WORK AND OUTCOME

1. Name of the Collaborating Institution with contact details : **INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH KOLKATA**
Mohanpur, Dist. Nadia, West Bengal, PIN 741 246
Phone: 033 6136 0000 (Extn. 1159);
E-Mail: <subhronil.m@iiserkol.ac.in >
[Dr. Subronil Mondal, Department of Earth Sciences, IISER Kolkata]
2. Start Date of Collaboration : July,2015
3. End date of Collaboration : Continuing
4. Duration : January,2022- Continuing
5. Purpose of the Collaboration : Collaborative Geological Field work, Research & Publication.
6. Collaborative Research Activities : Dr. Nivedita Chakraborty, Department of Geology, Kabi Jagadram Roy Government General Degree College and Dr. Subronil Mondal, Department of Earth Sciences, IISER Kolkata conducted collaborative geological research in Cretaceous succession of the Cauvery Basin, Tamil Nadu and **PUBLISHED 01 (ONE) SCIENTIFIC PAPER in 2023.**
7. Outcomes in terms of Research Publications: **Mondal, S., Hazra, S., Chakraborty, N., 2023.** Absence of Belemnites in the Post-Cenomanian Marine successions of Cauvery Basin, India: Role of Sea Level, Paleogeography, and Belemnite Paleoecology. *Journal of Geological Society of India* 99(2), 177-186.

Nivedita Chakraborty

Dr. NIVEDITA CHAKRABORTY, W.B.E.S
Assistant Professor of Geology
Kabi Jagadram Roy Govt General Degree College
Mejia-722143, Dist.-Bankura, W.B.

Mondal

Dr. Subhronil Mondal
Assistant Professor
Department Of Earth Sciences
IISER Kolkata
Mohanpur, West Bengal 741246



ASB

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Government of West Bengal
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Mejia - 722143.

(On NH-60), Gopalpur
Mejia, Distt. Bankura
West Bengal.
Phone: +91-3241-250250
E-mail: kjrggdcmejia@gmail.com
Web: www.ggdcmejia.in

MEMORANDUM OF UNDERSTANDING (MoU)

Between

KABI JAGADRAM ROY GOVERNMENT GENERAL DEGREE COLLEGE
[Mejia, Dist. – Bankura, PIN 722 143 West Bengal;
Phone: 03241-250250, E-mail: kjrggdcmejia@gmail.com]

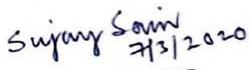
And

CHHATNA CHANDIDAS MAHAVIDYALAYA
[Chhatna, P.O. - Chhatna, Dist - Bankura, PIN 722 132, West Bengal
Phone: 9475585518; E-mail: ccmvoffice@gmail.com]

Date: 07th March, 2020




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Mejia-722143, Dist-Bankura, W.B.


SUJAY SAIN
Teacher-in-Charge
Chhatna Chandidas Mahavidyalaya
Bankura, W.B.

Office of the Principal, Kabi Jagadram Roy Govt. General Degree College, Mejia – 722 143.




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KABI JAGADRAM ROY GOVERNMENT GENERAL DEGREE COLLEGE is a reputed academic higher education institution under Bankura University, established in 2015, located at Gopalpur (beside NH 60), P.O. - Mejia, Dist. – Bankura, PIN 722 143, West Bengal

CHHATNA CHANDIDAS MAHAVIDYALAYA is a reputed academic higher education institution under Bankura University, established in 2007, located at Chhatna, P.O. - Chhatna Dist. - Bankura, PIN 722 132, West Bengal.

Both the institutions herein have noted the importance the value of cooperation and have agreed to enter into this Memorandum of Understanding (MoU) regarding academic collaboration. The purpose of this non-binding MoU is to make possible academic and cultural exchange between both the institutions based on the principles of mutual equality and the reciprocity of benefits.

Now this MoU is agreed by and between both the colleges hereto as follows:

1. Objectives, Scope, and Major Activities

Both institutions agree to encourage the development of the following types of activities:

- Visits and formal exchanges of faculty, students and administrators in specific areas of education, research and outreach.
- Cooperate in Undergraduate education and training through library, museum as well as laboratory resources.
- Organize joint conferences, webinar, symposia, or other scientific meetings on subjects of mutual interest.
- Exchange of academic information and materials.
- Explore the possibilities for developing joint research programs and collaborations.

2. Responsibilities of the Institutions

The two institutions identify that the execution of any agreed upon activity will depend upon the interests and expertise of the individuals involved and the availability of financial resources, space and other resources. Accordingly, the functioning of any exchange and cooperative programs based on this MoU shall be conferred and determined between the two institutions. It is further expected that both the institutions will be compliant with all applicable legislations of Government of India and State and University policies


01/03/2020

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Contd.....2
Sujoy Sain
31/3/2020

SUJAY SAIN
Teacher-in-Charge
Chhatna Chandidas Mahavidyalaya
Bankura, W.B.

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3. Duration and Option to Amend, Extend or Terminate

This MoU will become effective when signed by authorities of both institutions. The agreement will initially remain in effect for **05 (Five) years** from the date of signature given below, and may be renewed or amended by mutual agreement of the institutions. The institutions should agree to periodically review the activities undertaken and the progress made and to consult concerning amendments, renewal or termination of this MoU. Either authority may terminate this MoU at any time by providing written notice prior to three months before such termination to the other authority.

4. General Terms

This MoU is not intended to, and does not create any right, benefit, or trust responsibility, substantive or procedural, enforceable by law or equity, by either institution, its officers, employees, or agents against the other institution, its officers, employees, or agents. Nothing in this MoU obligates either institution to commit or transfer any funds, assets, or other resources in support of projects or activities between the two institutions. Neither institute will use the name of the other, either expressly or by implication, in any publicity, solicitation or advertisement without the express written approval of the other institute to this MoU.

5. Signatures

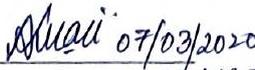
This MoU shall enter into force on the date of the signing by qualified representatives of both institutions. In witness whereof the duly authorized signatories have affixed their signatures and seals on **07th March, 2020**.

For, Kabi Jagadram Roy Government
General Degree College, Mejia


(ALOKE KUMAR DAS)
Officer-in-Charge

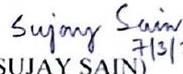
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College
Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.

In Witness of:

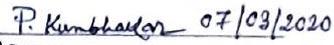

(DR. ASESH KUMAR MAJI)

Co-ordinator, IQAC
Kabi Jagadram Roy Government
General Degree College
Mejia, Bankura, PIN-722143

For, Chhatna Chandidas Mahavidyalaya,
Chhatna


(SUJAY SAIN)
Teacher-in-Charge

Chhatna Chandidas Mahavidyalaya
SUJAY SAIN
Teacher-in-Charge
Chhatna Chandidas Mahavidyalaya
Bankura, W.B.


(PRASANTA KUMBHAKAR)


IQAC Co-ordinator
Chhatna Chandidas Mahavidyalaya





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CHHATNA CHANDIDAS MAHAVIDYALAYA
(AFFILIATED TO BANKURA UNIVERSITY)
P.O.-CHHATNA • Dist.-BANKURA • W.B. • PIN.-722 132
www.ccmahavidyalaya.webnode.com; e-mail : ccmvoffice@gmail.com; Ph. No -9475585518
Office : 03242-201125; 7001138398; 9614380901; 9933611788

No : _____ Date



TO WHOM IT MAY CONCERN

This is to certify that **Shri Sekhar Biswas**, Assistant Professor of History, Kabi Jagadram Roy Government General Degree College, Mejia has acted as a Resource Person to deliver a lecture on **'TECHNOLOGY IN MEDIEVAL INDIA'** held on **05/03/2022** at Chhatna Chandidas Mahavidyalaya, Chhatna in connection with the Faculty Exchange Program as a part of the MoU signed on 07/03/2020 between Kabi Jagadram Roy Government General Degree College, Mejia, Dist. – Bankura, West Bengal, PIN 722 143, and Chhatna Chandidas Mahavidyalaya, Chhatna, P.O. - Chhatna Dist. - Bankura, PIN 722 132, West Bengal.

Sujay Sain 5/3/22
(DR. SUJAY SAIN)
Teacher-in-Charge
Chhatna Chandidas Mahavidyalaya
SUJAY SAIN
Teacher-in-Charge
Chhatna Chandidas Mahavidyalaya
Bankura, W.B.



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CHHATNA CHANDIDAS MAHAVIDYALAYA
[Chhatna, P.O. - Chhatna, Dist - Bankura, PIN 722 132, West Bengal]
Phone: 9475585518; E-mail: ccmvoffice@gmail.com

Attendance Sheet

Lecture Title : TECHNOLOGY IN MEDIEVAL INDIA
Date of Lecture & Time : 05.03.2022
Delivered by : Shri Sekhar Biswas, Assistant Professor of History, Kabi Jagadram Roy Government General Degree College, Mejia

Sl. No.	Name	Details of Participants	Signature	Feedback
1	Susmita Kar	II sem	Susmita Kar	
2.	Satadebi Chowdhury	"	Satadebi Chowdhury	
3.	Subhadra Kumbhakar	"	Subhadra Kumbhakar	
4.	Sumittra Mondal	"	Sumittra Mondal	
5.	Raina Kar	"	Raina Kar	
6.	Sumittra Mandal	"	Sumittra Mandal	
7.	Roma Das	"	Roma Das	
8.	Riya Bauri	"	Riya Bauri	
9.	Kajal Bauri	"	Kajal Bauri	
10.	Priyanka Mondal	"	Priyanka Mondal	
11.	Poulami Biswas	4th	Poulami Biswas	
12.	Jhumpa Kundu	"	Jhumpa Kundu	
13.	Ramkrishna Kundu	"	Ramkrishna Kundu	
14.	Atanu Dasmodak	"	Atanu Dasmodak	
15.	Shikha Rakshit	"	Shikha Rakshit	
16.	Archana Hansda	"	Archana Hansda	
17.	Bikash Bauri	"	Bikash Bauri	
18.	Rinku Mandal	"	Rinku Mandal	
19.	Nilima Banerjee	"	Nilima Banerjee	

Sekhar Biswas
05/03/2022
Kabi Jagadram Roy Govt. General Degree College
Mejia, 722143, Bankura
Assistant Professor
Kabi Jagadram Roy Govt. General Degree College
Mejia - 722143, Dist - Bankura, W.B.

Sujay Sain
5/3/2022
SUJAY SAIN
Teacher-in-Charge
Chhatna Chandidas Mahavidyalaya
Bankura, W.B.



Sekhar Biswas
Officer-in-Charge
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West Bengal.
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E-mail: kjrggdcmejia@gmail.com
Web: www.ggdcmejia.in

TO WHOM IT MAY CONCERN

This is to certify that Dr. Dolon Ray, Assistant Professor of English, Chhatna Chandidas Mahavidyalaya, Chhatna, has acted as a Resource Person to deliver a lecture on 'Readjustment in Alien Lands: A Survey of Literature of the Indian Diaspora' held on 16/03/2022 at Kabi Jagadram Roy Government General Degree College, Mejia in connection with the Faculty Exchange Program as a part of the MoU signed on 07/03/2020 between Kabi Jagadram Roy Government General Degree College, Mejia, Dist. – Bankura, West Bengal, PIN 722 143, and Chandidas Mahavidyalaya, Chhatna, Bankura, PIN 722 132, West Bengal.

Expressing our gratitude for her valuable words and wishing her success in life.

AB 16/03/2022

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Received

Dolon Ray 16/03/2022

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AB

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KABI JAGADRAM ROY GOVERNMENT GENERAL DEGREE COLLEGE
Mejia, Dist. - Bankura, PIN 722 143, West Bengal

Attendance Sheet

Topic of Lecture	: Readjustment in Alien Lands: A Survey of Literature of the Indian Diaspora
Date and Time of Lecture	: 16.03.2022
Lecture By	: Dr. Dolon Ray, Assistant Professor of English, Chhatna Chandidas Mahavidyalaya
Total No. of Participants	: 16

Sl. No.	Name	Details of Participants	Signature	Feedback
1.	PABAN MONDAL	Eng(H) Sem-11	Paban Mondal	Very good.
2.	MEGHA GHOSH	Eng(H) Sem-11	Megha Ghosh	Very Good.
3.	RIYA PAL	Eng(H) Sem-2	Riya Pal	Excellent.
4.	Rumina Roy	Rumina Roy, Eng(H)-2	Rumina Roy	Very good.
5.	SUMANA ADHIKARI	Eng(H) Sem-11	Sumana Adhikari	Good -
6.	ARPITA MONDAL	Eng(HONS) SEM-2	Arpita Mondal	Excellent.
7.	SUPARNA OJHA	Sem-11 Eng(H)	Suparna Ojha	Very Good.
8.	SUSMITA GORAI	Susmita Gorai(Eng-11)	Susmita Gorai	Very Good.
9.	PARTHA MONDAL	ENGLISH SEM-11	Partha Mondal	Good.
10.	BISWAJIT MAJI	Eng(H) Sem-11	Biswajit Maji	Good.
11.	BARSHA MONDAL	Eng(H) Sem-11	Barsha Mondal	Good.
12.	MANU MAJI	HISTORY- SEM-2	Manu Maji	Good.
13.	ANUSHREEMONDAL	HISTORY- 2ndsem.	Anushree Mondal	Very Good.
14.	RINKU MONDAL	BENH(H) 2nd SEM.	Rinku Mondal	Very Good.
15.	KHUSHI MAJI	BENGALI (H-11-SEM)	Khushi Maji	Excellent.
16.	AVIK DEY	English (Prog.) - SEM-11	Avik Dey	Excellent.
17.				
18.				

Dolon Ray
16/03/2022
Dr. Dolon Ray
Research Supervisor &
Asst. Professor in English
Chhatna Chandidas Mahavidyalaya
Chhatna, Bankura, West Bengal

AS
Officer - in - Charge
Kabi Jagadram Roy Government General Degree College
Mejia - 722143, Dist. - Bankura, W.B.



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Mejia-722143, Dist-Bankura, W.B.



Date: 03.01.2024

**SUMMARY OF THE ACTIVITIES CONDUCTED UNDER THE MoU
BETWEEN
KABI JAGADRAM ROY GOVERNMENT GENERAL DEGREE COLLEGE, MEJIA
AND
CHHATNA CHANDIDAS MAHAVIDYALAYA, CHHATNA**

This is to certify that a MoU was signed on 07.03.2020 for an initial period of 05 (five) years (i.e., up to 06.03.2025) between Kabi Jagadram Roy Government General Degree College, Mejia, Dist. - Bankura, West Bengal, PIN 722 143, and Chhatna Chandidas Mahavidyalaya, Chhatna, P.O. - Chhatna, Dist - Bankura, PIN 722 132, West Bengal. The list of activities conducted under the aforesaid MoU till 03.01.2024 is as follows.

Sl No.	Type of activity	Academic Year	Date (s) of activity		Brief description of the activity
			From	To	
01	Faculty Exchange	2021-2022	05.03.2022	05.03.2022	Shri Sekhar Biswas, Assistant Professor of History, Kabi Jagadram Roy Government General Degree College, Mejia has acted as a Resource Person to deliver a lecture on 'TECHNOLOGY IN MEDIEVAL INDIA' at Chhatna Chandidas Mahavidyalaya, Chhatna.
02	Faculty Exchange	2021-2022	16.03.2022	16.03.2022	Dr. Dolon Ray, Assistant Professor of English, Chhatna Chandidas Mahavidyalaya, Chhatna, has acted as a Resource Person to deliver a lecture on 'Readjustment in Alien Lands: A Survey of Literature of the Indian Diaspora' at Kabi Jagadram Roy Government General Degree College, Mejia.

Outcome of the MoU: Both the colleges have been highly benefitted through the faculty exchange programmes under the MoU.


(ALOKE KUMAR DAS)
Officer-in-Charge

Kabi Jagadram Roy Government General Degree College
Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.


(DR. MALABIKA SINHA)
Principal
Chhatna Chandidas Mahavidyalaya

Dr. Malavika Sinha
Principal
Chhatna Chandidas Mahavidyalaya
Chhatna, Bankura

Office of the Principal, Kabi Jagadram Roy Govt. General Degree College, Mejia - 722 143.




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Phone: +91-3241-250250
E-mail: kjrggdcmejia@gmail.com
Web: www.ggdcmejia.in

MEMORANDUM OF UNDERSTANDING (MoU)

Between

KABI JAGADRAM ROY GOVERNMENT GENERAL DEGREE COLLEGE
[Mejia, Dist. – Bankura, PIN 722 143 West Bengal]

And

BANKURA CHRISTIAN COLLEGE
[College Road, Bankura, PIN - 722101, West Bengal]

Date: 05th March, 2020



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05/03/2020

Principal
Bankura Christian College

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KABI JAGADRAM ROY GOVERNMENT GENERAL DEGREE COLLEGE is a reputed academic higher education institution under Bankura University, established in 2015, located at Gopalpur (on NH 60), P.O. - Mejia, Dist. – Bankura, PIN 722 143, West Bengal

BANKURA CHRISTIAN COLLEGE is a reputed academic higher education institution under Bankura University, established in 1903, located at College Road, Bankura, PIN - 722101, West Bengal

Both the institutions herein have noted the importance the value of cooperation and have agreed to enter into this Memorandum of Understanding (MoU) regarding academic collaboration. The purpose of this non-binding MoU is to make possible academic and cultural exchange between both the institutions based on the principles of mutual equality and the reciprocity of benefits.

Now this MoU is agreed by and between both the colleges hereto as follows:

1. Objectives, Scope, and Major Activities

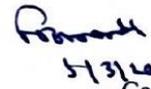
Both institutions agree to encourage the development of the following types of activities:

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- Cooperate in Undergraduate education and training through library, museum as well as laboratory resources.
- Organize joint conferences, webinar, symposia, or other scientific meetings on subjects of mutual interest.
- Exchange of academic information and materials.
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05/03/2020
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5/3/20
Contd.....2
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Mejia-722143, Dist-Bankura, W.B.



3. Duration and Option to Amend, Extend or Terminate

This MoU will become effective when signed by authorities of both institutions. The agreement will initially remain in effect for **03 (three) years** from the date of signature given below, and may be renewed or amended by mutual agreement of the institutions. The institutions should agree to periodically review the activities undertaken and the progress made and to consult concerning amendments, renewal or termination of this MoU. Either authority may terminate this MoU at any time by providing written notice prior to three months before such termination to the other authority.

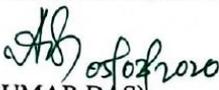
4. General Terms

This MoU is not intended to, and does not create any right, benefit, or trust responsibility, substantive or procedural, enforceable by law or equity, by either institution, its officers, employees, or agents against the other institution, its officers, employees, or agents. Nothing in this MoU obligates either institution to commit or transfer any funds, assets, or other resources in support of projects or activities between the two institutions. Neither institute will use the name of the other, either expressly or by implication, in any publicity, solicitation or advertisement without the express written approval of the other institute to this MoU.

5. Signatures

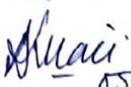
This MoU shall enter into force on the date of the signing by qualified representatives of both institutions. In witness whereof the duly authorized signatories have affixed their signatures and seals on **05th March, 2020**.

For, Kabi Jagadram Roy Government General Degree
College, Mejia


(ALOKE KUMAR DAS)
Officer-in-Charge

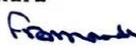
Kabi Jagadram Roy Government General Degree College
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.

In Witness of:


05/03/2020
(DR. ARESH KUMAR MAJI)

Co-ordinator, IQAC
Kabi Jagadram Roy Government
General Degree College
Mejia, Bankura, PIN-722143

For, Bankura Christian College,
Bankura


(DR. FATIK BARAN MANDAL)
Principal
Bankura Christian College
PRINCIPAL
BANKURA CHRISTIAN COLLEGE


Head
DEPARTMENT OF MATHEMATICS
BANKURA CHRISTIAN COLLEGE




Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



Government of West Bengal
Office of the Principal
Kabi Jagadram Roy Government General Degree College
MEJIA – 722143

(On NH-60)
P.O. - Mejia, Dist. - Bankura
West Bengal.
Phone: +91-3241-250250
E-mail: kjrggdcmejia@gmail.com
Website: www.kjrggdc.ac.in



BANKURA CHRISTIAN COLLEGE

Estd.- 1903

(UGC - Recognized College with Potential for Excellence)

Re-accredited with Grade 'A' by NAAC in 2019

Bankura – 722 101, West Bengal, India

Phone : 03242-250924 Fax : 03242-250924 E-mail : bccollege@rediffmail.com

Website : www.bankurachristiancollege.in

From the Principal

Dt.: 10-08-2020

The Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Govt of West Bengal
Mejia, Bankura

Sub: Webinar on "Environmental Deterioration and Our Health" – regarding

Sir

We wish to organize a Webinar entitled "Environmental Deterioration and Our Health" in collaboration with your Institution tentatively in the 3rd week of August, 2020.

Therefore, we request you to do the needful so that the said Webinar can be conducted successfully.

Please let us know what to be done on our part.

Awaiting a positive response from your end.

Thanking you,

Yours sincerely,

(Dr Fatik Baran Mandal)

Principal

Bankura Christian College

PRINCIPAL,
BANKURA CHRISTIAN COLLEGE



Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



Government of West Bengal
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MEJIA – 722143

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Government of West Bengal
Office of the Principal
Kabi Jagadram Roy Govt. General Degree College
MEJIA – 722143.

(On NH-60), Gopalpur
Mejia, Distt. Bankura
West Bengal.
Phone: +91-3241-250250
E-mail: kjrggdcmejia@gmail.com
Web: www.ggdcmejia.in

Memo No. 068/0820/BCC/Webinar

Date: 12.08.2020

From
The Officer-in-Charge

To
The Principal
Bankura Christian College
Bankura-722101

Sub: Acceptance of proposal for organisation of a webinar on "Environmental Deterioration and our Health" on 3rd week of August, 2020 in collaboration with Kabi Jagadram Roy Government General Degree College, Mejia.

Ref. Your Letter Dated 10.08.2020

Respected Sir,

I, on behalf of our college want to convey many thanks for your well wish to organize a webinar on "Environmental Deterioration and our Health" on 3rd week of August, 2020 in collaboration with our college. It is our great pleasure that your renowned college have selected our newly established college for such collaborative work. We gladly accept your invitation. We have very limited experiences of conducting such national level webinar/seminar. We will try our level best to make it a grand success under your guidance and advices.

It will be better if we jointly discuss the matter very soon. So, please let me know when some of the representatives of both the colleges meet through e- conference and formulate the plan, mainly regarding speakers, technical supports and other related work etc. for conducting the webinar.

Thanking you,



Yours sincerely

(Alok Kumar Das)
Officer-in-Charge

Officer - in - Charge
Kabi Jagadram Roy Government General Degree College
Mejia - 722143, Dist. - Bankura, W.B.

Office of the Principal, Kabi Jagadram Roy Govt. General Degree College, Mejia – 722 143.



Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



Government of West Bengal
Office of the Principal
Kabi Jagadram Roy Government General Degree College
MEJIA – 722143

(On NH-60)
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West Bengal.
Phone: +91-3241-250250
E-mail: kjrggdcmejia@gmail.com
Website: www.kjrggdc.ac.in

 <ul style="list-style-type: none"> • Date: 25th August, 2020 • Time: 10 AM onwards • Platform: Google Meet (Link to be shared) • Registration: Free (Register within 24th August, 2020. LINK) • E-certificate will be given to all participant. • Contact: Email: bikash@bankurachristiancollege.in askmaji@gmail.com Mob: 9434216589, 9434646687 <p>Speakers:</p> <ul style="list-style-type: none"> • Dr Pradip Kr De, Senior Scientist, Avera Cancer Institute, South Dakota, USA. • Prof Parthapratim Pradhan, Principal, Bankura-Sammilani Medical College And Hospital • Dr P S Banerjee, Station-in-Charge, ICAR - Indian Veterinary Research Institute, West Bengal. • Dr Fatik Baran Mandal, Principal, Bankura Christian College. <p>Organizing Committee:</p> <ul style="list-style-type: none"> • Jt. Conveners: <ul style="list-style-type: none"> • Dr Bikash Chakraborty, Bankura Christian College • Sri Avisek Sen, KJR Govt. General Degree College • Member: <ul style="list-style-type: none"> • Dr Aresh Kr Maji, KJR Govt. General Degree College • Smt. Arpita Chauni, KJR Govt. General Degree College <p>Technical Support: Tanmoy Pal, Bankura Christian College</p>	<p style="text-align: center;">International Webinar On "Environmental Deterioration and Our Health"</p>  <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <p>Bankura Christian College Bankura - 722101</p> <p>K J R Govt. General Degree College Mejia, Bankura - 722143</p> </div>
	



Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



*An International Webinar
On
Environmental Deterioration and Health Conscious*

Jointly Organized by,
Kabi Jagadram Roy Government General Degree College, Mejia &
Bankura Christian College, Bankura

Date: 25th August, 2020 (Tuesday); Time: 10.00AM
[Google meet link: <https://meet.google.com/tgc-tiqe-gyn>]

A Report

During the period of ongoing COVID-19 pandemic, these two colleges have bond together and virtually clubbed all of us today to a one-day international webinar on 'Environmental Deterioration and Our Health.'

During the period of ongoing COVID-19 pandemic Kabi Jagadram Roy Government General Degree College, Mejia and Bankura Christian College, Bankura united together and jointly organize an international webinar on "Environmental Deterioration and Health Conscious" on 25th August, 2020 (Tuesday). The event was conducted on web platform through Google meet and YouTube live on the said date at 10 AM onwards.

Dr. Aresh Kumar Maji, Head, Department of Geology delivered the introductory note at the beginning. The Seminar was inaugurated by the welcome address of Dr. Bikash Chakraborty, Assistant Professor of Physics, Bankura Christian College and convener of this webinar. In his address Dr. Chakraborty emphasized on the need of conducting this webinar during the hard time of Pandemic. He welcomed all the dignitaries: **Dr. Fatik Baran Mondal**, Principal, Bankura Christian College and **Sri Alope Kumar Das**, Officer-in-Charge, KJRGDC; the distinguished speakers – **Dr. Pradip Kr. De**, Senior Scientist, Avera Cancer Institute, South Dakota, US; **Prof. Partha Pratim Pradhan**, Principal, Bankura Sammilani Medical College and Hospital; **Dr. P. S. Banerjee**, Station-in-Charge, ICAR-Indian Veterinary Research Institute, ERS, Kolkata and Dr. Fatik **Baran Mondal**; and all the participants from different institutions within and outside the countries. He thoughtfully addressed the goal and different perspectives of the webinar, possible outcome of this event and introduced the guest speaker to the audience.

Jt. Convener

(1)



Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



Participation:

An overwhelming presence of 240 participants (teachers, scholars and others) from different institutions was an asset of this webinar.

Objective:

Environmental deterioration belongs one of the ten threats officially cautioned by the High-Level Panel of the United Nations. Ever since human civilization started utilizing natural resources, environmental deterioration was instigated. It happened slowly but steadily, poses a threat to human society. Taken together, those perils may represent the greatest public health challenge humanity has ever faced. Environmental degradation causes chemicalization and degradation of the health of the body and harm to the soul and mind because of the resulting unmet needs of the many and the greedy consumption of the few. Anthropogenic deterioration of environment triggered emergence of new diseases. The main objective of the webinar is to focus on the ill effects of environmental deterioration on human health such as Cancer, Dengue, Zoonoses etc. These will be discussed by four eminent speakers of diverse professionals like, Cancer biologist, Zoologist cum Academician, Physician and Veterinarian.

Sub modules

1. Environmental deterioration and increasing rate of dengue attack.
2. Biodiversity loss, changes in disease ecology and emergence of diseases.
3. Zoonosis, host switching and emergence of diseases.
4. Global health burden.

Outcome:

- Several types of environmental degradation and their philosophical implications are discussed in this webinar
- The event aided the participants to aware on a burning issue, graced the audience with some important works and findings shared by the specialized resource persons on those particular fields and provided chance. with us your and opinions
- Participants had a chance of fruitful free interaction with the professionals during the Pandemic.

Jt. Convener

(2)



Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



Process of Programme:

The seminar comprised of four technical sessions. Each session included one lecture of 45minutes duration followed by five minutes interactive session.

Technical Session I: **Dr. Pradip Kumar De** delivered a talk on '*Genome informed targetted therapy for solid tumors: Powering Precision Medicine.*'

Technical Session II: **Prof. (Dr.) Fatick Baran Mondal** talked on '*Environmental Changes as Drivers of Human Diseases.*'

Technical Session III: **Dr. Partha Sarathi Pradhan** delivered speech on '*Environmental deterioration and increasing rate of dengue attack.*'

Technical Session IV: **Dr. Partha Sarathi Banerjee** spoke on Zoonotic diseases: risk factors and transmission dynamics with particular reference to parasitic zoonoses.

In the Valedictory Session Sri Alope Kumar Das, Officer-in Charge, KJRGDC conveyed the vote of thanks.

Jt. Convener

(3)



Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



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BANKURA CHRISTIAN COLLEGE

Estd.- 1903

Re-accredited with Grade 'A' by NAAC in 2019

Bankura – 722 101, West Bengal, India

Phone : 03242-250924 e-mail : principal@bankurachristiancollege.in

Website : www.bankurachristiancollege.in

From the Principal

To Whom It May Concern

Date- 11-02-2023

This is to certify that **DR. ARESH KUMAR MAJI**, Associate Professor, Department of Geology, Kabi Jagadram Roy Government General Degree College, Mejia has delivered his valuable lecture on the topic "**Mesoscopic Identification of Minerals**" as a part of faculty exchange programme held on 11-02-2023 at Bankura Christian College.


Principal
BANKURA CHRISTIAN COLLEGE




Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



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 E-mail: kjrggdcmejia@gmail.com
 Website: www.kjrggdc.ac.in

BANKURA CHRISTIAN COLLEGE
 College Road, Bankura, PIN - 722101, West Bengal

Attendance Sheet

Topic of Lecture	: Mesoscopic Identification of Minerals
Date and Time of Lecture	: 11-02-2023, (11AM-01PM)
Resource Person	: DR. ARESH KUMAR MAJI, Associate Professor, Kabi Jagadram Roy Government General Degree College
Total No. of Participants	: 69 (Sixty nine)

Sl. No.	Name	Details of Participants	Signature
1	SOMPA PATRA	6 th Semester	Sompa Patra
2	PRIYA DEY	6 th Semester	Priya Dey
3	NISHA NANDI	6 th Semester	Nisha Nandi
4	HEMANTA MANDAL	6 th Semester	Hemanta Mandal
5	SOURAY KUNDU	6 th Semester	Sourav Kundu
6	Bagar Balamiki	6 th Sem	Balamiki
7	Rudraee Banerji	6 th Sem	Rudraee Banerji
8	Pallabi Dutta	6 th Sem	Pallabi Dutta
9	Suparna Bhui	6 th Sem	Suparna Bhui
10	Anwesha Pal	6 th Sem	Anwesha Pal
11	Priya Patra	4 th Sem	Priya Patra
12	Samapti Modak	4 th Sem	Samapti Modak
13	Puja Pati	4 th Sem	Puja Pati
14	Kajena Mondal	4 th Sem	Kajena Mondal
15	Anapita Mondal	4 th Sem	Anapita Mondal
16	Rimpa Sinha Mahapatra	4 th Sem	Rimpa Sinha Mahapatra
17	Riya Mandal	4 th Sem	Riya Mandal
18	Nandita Duley	4 th Sem	Nandita Duley

Dr. Aresh Kumar Maji
 11/02/2023
 Dr. ARESH KUMAR MAJI, M.Phil, W.B.E.S.
 Associate Professor of Geology
 Kabi Jagadram Roy Government General Degree College
 Mejia-722143, Dist-Bankura, W.B.

Raman
 11.2.23
 PRINCIPAL
 BANKURA CHRISTIAN COLLEGE

Sl. No.	Name	Details of Participants	Signature
19.	Moumita Chakrabarty	4 th semester	Moumita Chakrabarty
20.	Renuka Roy	4 th Semester	Renuka Roy
21.	PAYEL KHAT	6 th Semester	Payel Khan
22.	TANASA SADHAN	6 th Semester	Tanasa Sadhan
23.	Salti Kadam	6 th Semester	Salti Kadam
24.	Aparna Sen	4 th Semester	Aparna Sen
25.	Mampu Kanak	4 th Semester	Mampu Kanak
26.	Sili Tudu	4 th Semester	Sili Tudu
27.	Susmita Goral	4 th Semester	Susmita Goral
28.	Sudip Ghosh	4 th Semester	Sudip Ghosh
29.	Jishu Mandal	4 th Semester	Jishu Mandal
30.	Akash Mandal	4 th Semester	Akash Mandal
31.	Ashok Das	4 th Semester	Ashok Das
32.	SUDEB HEMBRAM	4 th Semester	Sudeb Hembram
33.	Buddhadeb Mandal	4 th Semester	Buddhadeb Mandal
34.	Rishu Ghosh	6 th Semester	Rishu Ghosh
35.	Santanu Goral	4 th Semester	Santanu Goral
36.	Suman Saha	4 th Semester	Suman Saha
37.	Sandip Maji	4 th Semester	Sandip Maji
38.	Sudipta Maji	4 th Semester	Sudipta Maji
39.	Subhadeep Chel	4 th Semester	Subhadeep Chel
40.	Sekh Ranababu	6 th Semester	Sekh Ranababu
41.	Soumesh Aley	6 th Semester	Soumesh Aley
42.	Abhishek Karan Kar	4 th Semester	Abhishek Karan Kar
43.	Sourav Biswas	6 th Semester	Sourav Biswas
44.	Srabati Karanekar	6 th Semester	Srabati Karanekar

Dr. Aresh Kumar Maji
 11/02/2023
 Dr. ARESH KUMAR MAJI, M.Phil, W.B.E.S.
 Associate Professor of Geology
 Kabi Jagadram Roy Government General Degree College
 Mejia-722143, Dist-Bankura, W.B.

Raman
 11.2.23
 PRINCIPAL
 BANKURA CHRISTIAN COLLEGE

Sl. No.	Name	Details of Participants	Signature
45	Riju Patra	6 th Sem	Riju Patra
46	Budip Mandal	6 th Sem	Budip Mandal
47	Debanish Ghosh	6 th Sem	Debanish Ghosh
48	Branab Ghosh	6 th Sem	Branab Ghosh
49	Sourav Goral	6 th Sem	Sourav Goral
50	Joydip Das	6 th Sem	Joydip Das
51	Subhasri Pati	6 th Sem	Subhasri Pati
52	Pampa Mandali	6 th Sem	Pampa Mandali
53	Haimanti Kisku	6 th Sem	Haimanti Kisku
54	Deben Chakrabarty	6 th Sem	Deben Chakrabarty
55	Mafuja Khatun	4 th Sem	Mafuja Khatun
56	Matiya Khatun	4 th Sem	Matiya Khatun
57	Rena Gupta	4 th Sem	Rena Gupta
58	Rahima Khatun	4 th Sem	Rahima Khatun
59	Ananya Nandi	6 th Sem	Ananya Nandi
60	Tanisha Chakrabarty	6 th Sem	Tanisha Chakrabarty
61	Jhuma Mallik	6 th Sem	Jhuma Mallik
62	Srijani Das	6 th Sem	Srijani Das
63	Bagel Biswa	4 th Sem	Bagel Biswa
64	Kanchika Patra	4 th Sem	Kanchika Patra
65	Souradeep Das	4 th Sem	Souradeep Das
66	Rithanna Mubsumi	Scholar	Rithanna Mubsumi
67	Aditi Goswami	Scholar	Aditi Goswami
68	Manasi Chatteraj	Scholar, Bankura University	Manasi Chatteraj
69	Shilpa Chakrabarty	Scholar, Bankura University	Shilpa Chakrabarty

Dr. Aresh Kumar Maji
 11/02/2023
 Dr. ARESH KUMAR MAJI, M.Phil, W.B.E.S.
 Associate Professor of Geology
 Kabi Jagadram Roy Government General Degree College
 Mejia-722143, Dist-Bankura, W.B.

Raman
 11.2.23
 PRINCIPAL
 BANKURA CHRISTIAN COLLEGE



Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



Date: 02.05.2023

SUMMARY OF THE ACTIVITIES CONDUCTED UNDER THE MoU
BETWEEN
KABI JAGADRAM ROY GOVERNMENT GENERAL DEGREE COLLEGE, MEJIA
AND
BANKURA CHRISTIAN COLLEGE, BANKURA

Certified that a MoU was signed on 05.03.2020 for an initial period of 03 (three) years (i.e., up to 04.03.2023) between Kabi Jagadram Roy Government General Degree College, Mejia, Dist. - Bankura, West Bengal, PIN 722 143, and Bankura Christian College, Bankura, Dist. - Bankura, West Bengal, PIN 722 101. The list of activities conducted under the aforesaid MoU till 02.05.2023 is as follows.

Sl No.	Type of activity	Academic Year	Date (s) of activity		Brief description of the activity
			From	To	
01	Webinar (International)	2020-2021	25.08.2020	25.08.2020	One-day International Webinar on Environmental Deterioration and Our Health , organised jointly by Kabi Jagadram Roy Government General Degree College, Mejia and Bankura Christian College, Bankura through Google Meet.
02	Faculty Exchange	2022-2023	11.02.2023	11.02.2023	Lecture followed by laboratory classes on Mesoscopic identification of minerals was performed at Bankura Christian College, Bankura by Dr. Aresh Kumar Maji, Associate Professor of Geology, Kabi Jagadram Roy Government General Degree College, Mejia

Outcome of the MoU: The webinar mainly focusses environmental degradation and its harmful effects i.e., one of the ten threats officially cautioned by the High-level Panel of the United Nations. During COVID pandemic period, the participants throughout the globe got many new information and ideas online through this webinar about the ill effects of environmental deterioration causing many deadly diseases. The lecture followed by hands on training and interactive sessions in the aforesaid faculty exchange programme were very much beneficial to those who attended the programme.


(ALOKE KUMAR DAS)
Officer-in-Charge

Kabi Jagadram Roy Government General Degree College

Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.


(DR. FATIK BARAN MANDAL)
Principal
Bankura Christian College

PRINCIPAL
BANKURA CHRISTIAN COLLEGE

Office of the Principal, Kabi Jagadram Roy Govt. General Degree College, Mejia - 722 143.




Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



MEMORANDUM OF UNDERSTANDING (MoU)

Between

KABI JAGADRAM ROY GOVERNMENT GENERAL DEGREE COLLEGE
[A reputed academic higher education institution under Bankura University,
established in 2015, located at Gopalpur (on NH 60), P.O. - Mejia, Dist. – Bankura,
PIN 722 143, West Bengal]

and

GOVERNMENT GENERAL DEGREE COLLEGE, MANBAZAR-II
[A reputed academic higher education institution under Sidho Kanho Birsha University,
established in 2015, located at Susunia, PO-Kumari, PS-Boro, Dist.–Purulia,
PIN 723 131, West Bengal]

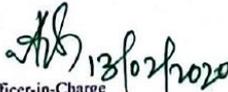
This agreement between Kabi Jagadram Roy Government General Degree College, Mejia, Dist.-Bankura, PIN 722 143, West Bengal and Government General Degree College, Manbazar-II, Susunia, PO - Kumari, PS - Boro, Dist. - Purulia, PIN 723 131, West Bengal is signed on 13th February, 2020.

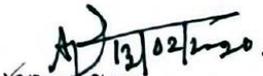
Objectives, Scope, and Major Activities:

Both institutions agree to encourage the development of the following types of activities:

1. Visits and formal exchanges of faculty, students and administrators in specific areas of education, research and outreach.
2. Cooperate in Undergraduate education and training through library, museum as well as laboratory resources.
3. Organize joint conferences, seminar, webinar, symposia, or other scientific meetings on subjects of mutual interest.
4. Exchange of academic information and materials.
5. Explore the possibilities for developing joint research programs and collaborations.

Contd....2


Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.


Officer-in-Charge
Govt. General Degree College
Manbazar-II
Susunia, Kumari, Purulia

Office of the Principal, Kabi Jagadram Roy Govt. General Degree College, Mejia – 722 143.




Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



6. All such activities will be done as per existing guidelines of the Government of India, State Government, UGC and University.

General terms and Conditions:

1. **Duration of MOU:** This MOU will be effective from the date of agreement and will have an initial duration of 05 (five) years. The MOU may be extended with the consent of both the parties.
2. **Confidentiality:** Both the colleges will maintain confidentiality about the terms and conditions of the agreement.
3. **Termination of MOU:** This MOU may be terminated at any time with a 15 days prior notice from either of the parties.
4. **Modification:** Any alteration / modification to the MOU may be done with mutual consent of both the parties. Involvement of new departments/activities may be done from time to time with mutual consent of both the colleges.

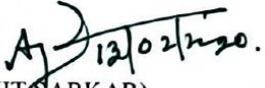
For, Kabi Jagadram Roy Government General
Degree College, Mejia


(ALOKE KUMAR DAS)
Officer-in-Charge

Kabi Jagadram Roy Government General Degree College

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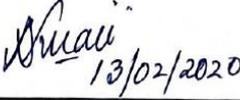
For, Government General Degree College,
Manbazar-II


(DR. ABHIJIT SARKAR)
Officer-in-Charge

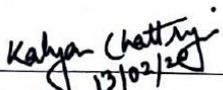
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13/02/2020
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Co-ordinator, IQAC
Kabi Jagadram Roy Government
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13/02/2020
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GGDC at Manbazar-II,
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Department of Geology

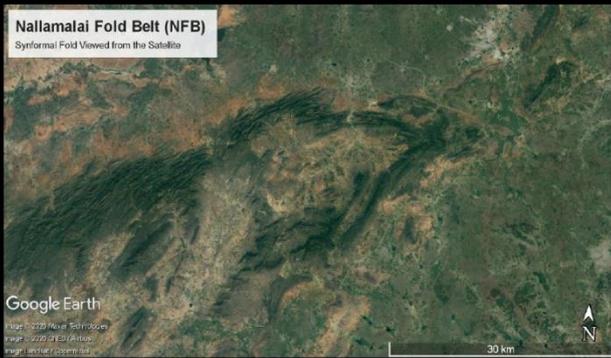
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welcomes you to one day seminar-cum-workshop

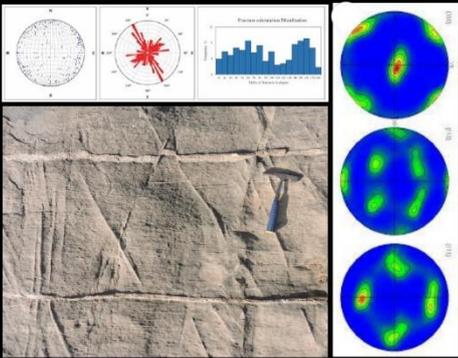
ON

DEFORMATION OF CONTINENTAL CRUST: FROM SATELLITE TO MICROSCOPE

Nallamalai Fold Belt (NFB)
Synformal Fold Viewed from the Satellite



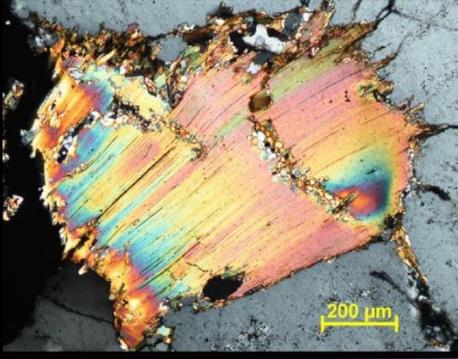
Google Earth
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Image Landsat / Copernicus



Date & Time
2nd March, 2020;
10:30 AM onwards

Venue:
Seminar Hall,
G.G.D.C, Manbazar-II





200 μ m

Deformation of Continental crust is evident from the structures observable at all scales, provide important constrains on the rheology, kinematics of deformation, ambient tectonic stress conditions and other processes operating within the continental crust. It seems very likely that structures in rocks contain a large amount of detailed information. However, as amateurs, we often cannot read and interpret those information, partly because we are not trained to do so, and partly because we do not know what to look for. Here in this seminar-cum-workshop organized by the Dept. of Geology G.G.D.C Manbazar-II, an expert from the field will guide us in preparing a road map to understand and interpret the geological structures observed right from the satellite imageries to microscope.

About the Speaker



Dr. Sayandeep Banerjee

Dr. Banerjee, now serving as an Assistant Professor of Geology at the Department of Geology, Banaras Hindu University, is a young scientist in the field of structural geology. He is professionally trained to untangle the deformational history of continental crust by integrating the observations from the satellite imageries, field work and microscopic analyses. In recent times he is appreciated by the geological community of India for his work on the deformation structures of Singhbhum, Bundelkhand and Himalayan terrain.

For any assistance feel free to call us on **+91 9874427255** or you can write us on geology.ggdc@gmail.com



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Dist: Purulia (West Bengal, INDIA), Pin - 723131

Certificate of Participation

This certificate is awarded to Dr. Nivedita Chakraborty, Assistant Professor of Geology, Kabi Jagadram Roy Government General Degree College, Mejia, for attending a National level lecture-cum- Workshop entitled Deformation of the Continental Crust: From satellite to microscope on 02.03.2020 along with other UG students of her college at Government General Degree College, Manbazar-2 as a part of faculty and student exchange and sharing of academic and research information in connection with the MoU between Government General Degree College, Manbazar-2 and Kabi Jagadram Roy Government General Degree College, Mejia signed on 13.02.2020.

A/ 03/03/2020
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Department of Geology
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To Whom It May Concern

This is to certify that the following students of **Kabi Jagadram Roy Government General Degree College**, Mejia affiliated under Bankura University had successfully attended the national level lecture -cum-workshop titled **Deformation of the Continental Crust: From Satellite to Microscope** held on 2nd March, 2020 at Department of Geology, Govt. Gen. Degree College, Manbazar-II, Purulia. The lecture was delivered by **Dr. Sayandeep Banerjee, Assistant Professor, Dept. of Geology, Benaras Hindu University.**

Name of the students:

1. Biltu Chatterjee
2. Nipa Sen
3. Riya Layek
4. Arpita Pandey
5. Saptarshi Banerjee
6. Diptoman Singh
7. Sayantan Modok
8. Tuhin Kundu
9. Tanmoy Karmakar

Regards,

Dr. Arnab Dasgupta
Head, Dept. of Geology
Govt. Gen. Degree College
Purulia 723131



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Web: www.ggdcmejia.in

TO WHOM IT MAY CONCERN

This is to certify that **Dr. Arnab Dasgupta**, Assistant Professor of Geology, Government General Degree College, Manbazar has conducted a special class on 'Zircon: An excellent timekeeper of Earth's evolution' for the students of the Department of Geology at Kabi Jagadram Roy Government General Degree College, Mejia on 11th February, 2022 in connection with the Faculty Exchange Program as a part of the MoU signed on 13th February, 2020 between Kabi Jagadram Roy Government General Degree College, Mejia, Dist. – Bankura, West Bengal, PIN 722 143, and Government General Degree College, Manbazar-II, Susunia, PO - Kumari, PS - Boro, Dist. - Purulia, PIN 723 131, West Bengal.


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Received
Dasgupta
11-02-2022
Assistant Professor
Govt. General Degree College
Manbazar-II, Purulia (W.B.)

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KABI JAGADRAM ROY GOVERNMENT GENERAL DEGREE COLLEGE
Mejia, Dist. - Bankura, PIN 722 143, West Bengal

Attendance Sheet

Topic of Lecture : Zircon: An excellent timekeeper of Earth's evolution
Date of Lecture : 11/02/2022
Resource Person : Dr. Arnab Dasgupta, Assistant Professor of Geology, Government General Degree College, Manbazar-II
Participants : 17 (seventeen)

Sl. No.	Name	Participants' details	Signature	Remarks
1.	Nilavo Shit	Student, Sem-VI, UID-20223120003	Nilavo Shit	Excellent
2.	Ahura Deo	Student, Sem-V, UID-20223120004	Ahura Deo	Excellent
3.	Arpita Panday	Sem-VI (UID 2222312003)	Arpita Panday	Good
4.	Sowin Maity	Sem-II	Sowin Maity	
5.	Sumanda Chowdhury	Sem-VI (2022312002)	Sumanda Chowdhury	
6.	Nivedita Chakraborty	Teacher	Nivedita Chakraborty	Informative
7.	Sathi Layek	Student, Sem-II	Sathi Layek	Good
8.	Nipa Sen	Sem-VI	Nipa Sen	Excellent
9.	Ruban Roy	ER student	Ruban Roy	Useful
10.	BilTu Chatterjee	6th Semester	BilTu Chatterjee	Good
11.	Dr. Aresh Kumar Maji	Teacher	Aresh Kumar Maji	Very nice
12.	Indrani Mondal	Teacher	Indrani Mondal	Excellent
13.	Sayantan Modak	Sem-VI	Sayantan Modak	V. good
14.	Riya Layek	Student, Sem-VI	Riya Layek	Very Good
15.	Diptoman Singh	6th Semester	Diptoman Singh	
16.	Tuhin Kundu	Semester-6	Tuhin Kundu	
17.	SAPTARSHI BANERJEE	Student, Sem-VI	Saptarshi Banerjee	Very nice

Aresh Kumar Maji
11/02/2022
Dr. ARESH KUMAR MAJI, W.B.E.S
Associate Professor of Geology & HOD.
Kabi Jagadram Roy Government General Degree College
Mejia-722143, Dist-Bankura, W.B.

Received
Arnab Dasgupta
11.02.2022

HEAD
DEPARTMENT OF GEOLOGY
GOVT. GENERAL DEGREE COLLEGE
AT MANBAZAR-II



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Date: 29.11.2023

SUMMARY OF THE ACTIVITIES CONDUCTED UNDER THE MoU
BETWEEN
KABI JAGADRAM ROY GOVERNMENT GENERAL DEGREE COLLEGE, MEJIA
AND
GOVERNMENT GENERAL DEGREE COLLEGE, MANBAZAR-II

Certified that a MoU was signed on 13.02.2020 for the initial period of 05 (five) years (i.e., up to 12.02.2025) between Kabi Jagadram Roy Government General Degree College, Mejia, Dist. – Bankura, West Bengal, PIN 722 143, and Government General Degree College, Manbazar-II, Susunia, PO - Kumari, PS - Boro, Dist. - Purulia, PIN 723 131, West Bengal. The list of activities conducted under the aforesaid MoU till 29.11.2023 is as follows.

Sl No.	Type of activity	Academic Year	Date (s) of activity		Brief description of the activity
			From	To	
01	Faculty and student visit and sharing of academic and research information related to seminar cum workshop.	2019-2020	02.03.2020	02.03.2020	Dr. Nivedita Chakraborty, Assistant Professor of Geology, Kabi Jagadram Roy Government General Degree College, Mejia, along with other UG students attended a National level lecture-cum-Workshop entitled Deformation of the Continental Crust: From satellite to microscope held at Government General Degree College, Manbazar-II.
02	Faculty Exchange	2021-2022	11.02.2022	11.02.2022	Dr. Arnab Dasgupta, Assistant Professor of Geology, Government General Degree College, Manbazar-II has delivered a lecture on 'Zircon: An excellent timekeeper of Earth's evolution' at Kabi Jagadram Roy Government General Degree College

Outcome of the MoU: The aforesaid lectures, seminar and interactive sessions during the exchange programmes, under the MoU, imparted many new information and ideas among the students and teachers of both the colleges.


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Date: 19.12.2019

To whom it may concern

This is to certify that the College has no objection in permitting Sri/Smt./Dr. **Biswajit Bera, Assistant Professor in Mathematics** to continue his collaborative research/academic linkages/activities with **Department of Geology, Raghunathpur College, Purulia** to be started in January, 2020 without hampering the normal duties of the College.

I wish him all success in life.




Alope Kumar Das
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West Bengal, India
Email: amanat87math@gmail.com
Mob:+919733937424

Certificate of Collaborative Research

This is to certify that, Department of Mathematics, Kabi Jagadram Roy Government General Degree College, Mejia, Bankura, 722143 and Department of Mathematics, Raghunathpur College, Raghunathpur, Purulia, 723133 are doing collaborative research on Graph Theory and Picture Fuzzy Graph, since 13.01.2020. The research collaboration between these two esteemed institutions has been ongoing and has resulted in numerous publications in international journals during 2020-2023. The collaborative linkage between two institutions is for academic and research purpose.


24.01.2024
Dr. Sk Amanathulla
Assistant Professor
Raghunathpur College, Purulia




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$L(2, 1, 1)$ -labeling of interval graphs

Sk. Amanathulla^{*§}, Biswajit Bera^{†¶} and Madhumangal Pal^{‡||}

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Received 1 December 2020

Revised 15 August 2022

Accepted 28 August 2022

Published 11 March 2023

$L(r, s, t)$ -labeling problem ($Lrst$ -LP) is an important topic in discrete mathematics due to its various applications, like in frequency assignment in mobile communication systems, signal processing, circuit design, etc. $L211$ -LP is a special case of $Lrst$ -LP. An $L211$ -labeling ($L211L$) of a graph $G = (V, E)$ is a mapping $F : V \rightarrow \{0, 1, 2, \dots\}$ such that $|F(\xi) - F(\eta)| \geq 2$ if and only if $d(\xi, \eta) = 1$, $|F(\xi) - F(\eta)| \geq 1$ if $d(\xi, \eta) = 2$ or 3 , where $d(\xi, \eta)$ is the distance between the nodes ξ and η . In this work, we have determined the upper bound of $L211L$ for interval graph (IG) and obtained a tighter upper bound which is $4\Delta - 2$. Also, we proposed an efficient algorithm to label any IG by $L211L$ and also computed the time complexity of the proposed algorithm.

Keywords: $L211$ -labeling; interval graph; efficient algorithm; frequency assignment.

1. Introduction

Labeling of graph is an assignment of nonnegative integers to the nodes or edges, or both, subject to

certain conditions. Graph labeling problems had been first introduced in the middle of 1960s. Then, in the last six decades over 250 graph labeling

[¶]Corresponding author.

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L(2,1,1)-Labeling of Circular-Arc Graphs

S. Amanathulla¹, B. Bera^{2*}, M. Pal³

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Received 28 November 2020, accepted in final revised form 4 February 2021

Abstract

Graph labeling problem has been broadly studied in recent past for its wide applications, in mobile communication system for frequency assignment, radar, circuit design, X-ray crystallography, coding theory, etc. An L211-labeling (L211L) of a graph $G = (V, E)$ is a function $\gamma : V \rightarrow Z^*$ such that $|\gamma(u) - \gamma(v)| \geq 2$, if $d(u, v) = 1$ and $|\gamma(u) - \gamma(v)| \geq 1$, if $d(u, v) = 1$ or 2, where Z^* be the set of non-negative integers and $d(u, v)$ represents the distance between the nodes u and v . The L211L numbers of a graph G , are denoted by $\lambda_{2,1,1}(G)$ which is the difference between largest and smallest labels used in L211L. In this article, for circular-arc graph (CAG) G we have proved that $\lambda_{2,1,1}(G) \leq 6\Delta - 4$, where Δ represents the degree of the graph. Beside this we have designed a polynomial time algorithm to label a CAG satisfying the conditions of L211L. The time complexity of the algorithm is $O(n\Delta^2)$, where n is the number of nodes of the graph G .

Keywords: L211-labeling; Frequency assignment; Circular-arc graph.

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1. Introduction

Graph labeling problems is one of the most important problems in discrete mathematics to solve real life problems. Different types of graph labeling problems such as node labeling, edge labeling, LrstL, graceful labeling, harmonic labeling, anti-magic labeling, magic labeling, total vertex irregular labeling, etc. are studied by many researchers. Nowadays graph domination problem is an important problem of graph theory [2].

An L211L of a graph $G = (V, E)$ is a function γ from its node set V to Z^* such that $|\gamma(u) - \gamma(v)| \geq 2$ if $d(u, v) = 1$, $|\gamma(u) - \gamma(v)| \geq 1$ if $d(u, v) = 1$ or 2. The L211L number,

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Balanced picture fuzzy graph with application

Sk Amanathulla¹ · Biswajit Bera² · Madhumangal Pal³

Accepted: 11 May 2021
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Abstract

Picture fuzzy graphs are an extension of intuitionistic fuzzy graphs. Balanced picture fuzzy graph is a special type of picture fuzzy graph (PFG). In this study, the definition and important properties of PFG like, average PFG, balanced PFG, size, order, density of a PFG, isomorphism, the direct product of two PFG, etc have been studied. The necessary and sufficient conditions for balanced picture fuzzy graphs have also been studied in this article. Beside this, we proposed an algorithm to test whether a PFG is balanced or not. The proof of correctness and an illustration of the proposed algorithm is presented in this article. Lastly, an application of balanced PFG to business alliance is presented.

Keywords Picture fuzzy graph · Balanced picture fuzzy graph · Average picture fuzzy graph · Density of a picture fuzzy graph

1 Introduction

A picture fuzzy set is a generalization of intuitionistic fuzzy set (Atanassov 1986). Picture fuzzy models give more precision, flexibility and compatibility to the system as compared to the intuitionistic fuzzy models. The concept of a picture fuzzy set was first introduced by Cuong and Kreinovich (2013). In addition to intuitionistic fuzzy sets, Cuong appended new components which determine the degree of neutral membership. The intuitionistic fuzzy set gives the degree of membership and the degree of non-membership of an element, while the picture fuzzy set gives the degree of positive membership, the degree of neutral membership and the degree of negative membership of an element. These memberships

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Published online: 16 June 2021

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Real world applications of discrete mathematics

Sk Amanathulla¹, Biswajit Bera^{2*} and Madhumangal Pal³

Abstract

Discrete mathematics is an important branch of applied mathematics and graph theory is an important part of discrete mathematics. It has a lot of applications in modern society. Graph colouring or graph labeling is an important branch of graph theory which can easily solve many real life problems. In this article, we have shown some direct applications of discrete mathematics, like applications of graph theory to scheduling problems, coloring of map in GSM mobile phone networks, google maps or GPS, traffic signal lights, Social networks, aircraft scheduling, etc.

Keywords

colouring, scheduling problem, interval graph.

AMS Subject Classification

05C85, 68R10.

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1. Introduction

Mathematics is classified into two branches, *Applied Mathematics* and *Pure Mathematics*. *Discrete Mathematics* is an essential branch of *Applied Mathematics* and *Graph Theory* is a crucial topic in the field of *Discrete Mathematics*. Graphs are significant since the graph is the only way of revealing information in pictorial form. A graph displays information which is equivalent to many words. Computer science applications highly utilize graph-theoretical notions. Some well-known graph theoretic problems are: Shortest path problem, job sequencing problem, conditional covering problem, traveling salesman problem, graph colouring problem, etc.

Graph Colouring is a significant problem in graph theory. This problem is widely needed to solve many real problems, viz:

scheduling, resource allocation, traffic phasing, task assignment, etc [1, 2, 13]. $L(h_1, h_2, \dots, h_m)$ -labeling of the graph is the generalization of *Graph Colouring* problem and it has also been widely applied to solve frequency assignment problems in wireless communication [3–12].

In this article, some applications of graph colouring have been studied. An introduction is given in section 1, some basic terms related to graph theory are provided in section 2. Graph colouring and extension of graph colouring are provided in section 3. Then, in section 4, some important graph theory applications and graph colouring to solve real life problems are presented. Finally, in section 5, a brief conclusion has been presented.

2. Basic Concept in Graph Theory

Earlier, we may realize the graph's application, so we must know graph theory related some definition. The author of this paper defined some terms related to graph theory most readily.

Definition 2.1. A graph usually denoted by $G = (V, E)$ and consists of the set of vertices (nodes) V together with a set of edges E . The number of vertices in a graph is generally denoted by n while the number of edges is denoted by m .

Example: Let there be direct flights between the countries, India(i) and America(a); India(i) and China(c); America(a)



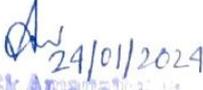
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SUMMARY OF THE COLLABORATIVE RESEARCH WORK AND OUTCOME

1. Name of the Collaborating Institution with contact details : **DEPARTMENT OF MATHEMATICS, RAGHUNATHPUR COLLEGE**
Raghunathpur, Dist.- Purulia, West Bengal. PIN 723 133
Phone: 9733937424;
E-mail: amanat87math@gmail.com
(Dr. Sk Amanathulla, Assistant Professor of Mathematics]
2. Start Date of Collaboration : 13.01.2020
3. End date of Collaboration : Continuing
4. Duration : >04 Years (Continuing)
5. Purpose of the Collaboration : Collaborative Research on Graph Theory and Picture Fuzzy Graph & Publication.
6. Collaborative Research Activities : Shri Biswajit Bera, Assistant Professor of Mathematics conducted collaborative research on Graph Theory and Picture Fuzzy Graph
7. Outcomes in terms of Research Publications: Published 04 (four) Scientific Research Papers in International Journals.
 - Amanathulla, S., Bera, B., Pal, M., (2021). Real world applications of discrete mathematics. Malaya Journal of Matematik. 9(1), 152-158.
 - Amanathulla, S., Bera, B., Pal, M., (2021).L(2,1,1)- Labelling of Circular-Arc Graph. Journal of Scientific Research. 13(2), 537-544.
 - Amanathulla, S., Bera, B., Pal, M. (2021). Balanced picture fuzzy graph with application. Artificial Intelligence Review. 54(7), 5255-5281.
 - Amanathulla, S., Bera, B., Pal, M., (2023).L(2,1,1)- Labelling of Interval graphs. Journal of Scientific Research. 14(1).


24/01/2024
Biswajit Bera
Assistant Professor (W.B.E.S.)
KABI JAGADRAM ROY GOVT. GENERAL DEGREE COLLEGE
Mejia - 722143, Dist - Bankura


24/01/2024
Dr. Sk Amanathulla
Assistant Professor
Raghunathpur College, Purulia




Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



MEMORANDUM OF UNDERSTANDING (MoU)

Between

Kabi Jagadram Roy Government General Degree College, a reputed academic higher education institution established in 2015, located at Gopalpur (on NH 60), P.O.- Mejia, Dist. - Bankura, PIN 722 143, West Bengal, India, as the **FIRST PARTY**;

And

Gobinda Prasad Mahavidyalaya, a reputed academic higher education institution established in 1985, located at Amarkanan, P.O.- Amarkanan, Dist. - Bankura, PIN 722 133, West Bengal, India, as the **SECOND PARTY**;

Both the parties herein have noted the importance the value of cooperation and have agreed to enter into this Memorandum of Understanding (MoU) regarding academic collaboration. The purpose of this non-binding MoU is to make possible academic and cultural exchange between both the parties based on the principles of mutual equality and the reciprocity of benefits. NOW THIS MEMORANDUM OF UNDERSTANDING is agreed by and between both the colleges hereto as follows:

1. Objectives, Scope, and Major Activities

Both institutions agree to encourage the development of the following types of activities:

- Visits and formal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach.
- Cooperate in Under Graduate education and training through library as well as laboratory resources.
- Organize joint conferences, seminar, webinar, symposia, or other scientific meetings on subjects of mutual interest.
- Exchange of academic information and materials.
- Pursue avenues for under graduate student exchange during the academic year.
- Explore the possibilities for developing joint research programs and collaborations.

2. Responsibilities of the Institutions

The two institutions identify that the execution of any agreed upon activity will depend upon the interests and expertise of the individuals involved and the availability of financial resources, space and other resources. Accordingly, the functioning of any exchange and cooperative programs based on this MoU shall be conferred and determined between the two institutions. It is further expected that both the institutions will be compliant with all applicable legislations of Government of India and State and University policies.

Continued to Page - 2

Gobinda Prasad Mahavidyalaya
Amarkanan, Bankura

Principal

14/12/19

Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist- Bankura, W.B.

14/12/2019



(Handwritten signature)

Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



3. Duration and Option to Amend, Extend or Terminate

This MoU will become effective when signed by authorities of both institutions. The agreement will remain in effect for **03 (three) years** from the date of signature given below, and may be renewed or amended by mutual agreement of the institutions. The institutions should agree to periodically review the activities undertaken and the progress made and to consult concerning amendments, renewal or termination of this MoU. Either authority may terminate this MoU at any time by providing written notice prior to three months before such termination to the other authority.

4. General Terms

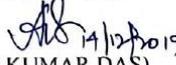
This MoU is not intended to, and does not create any right, benefit, or trust responsibility, substantive or procedural, enforceable by law or equity, by either party, its officers, employees, or agents against the other party, its officers, employees, or agents. Nothing in this MoU obligates either party to commit or transfer any funds, assets, or other resources in support of projects or activities between the two parties. Neither party will use the name of the other, either expressly or by implication, in any publicity, solicitation or advertisement without the express written approval of the other party to this MoU.

5. Signatures

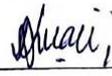
This MoU shall enter into force on the date of the signing by qualified representatives of both institutions.

IN WITNESS WHEREOF the duly authorized signatories have set their hands and affix their signatures and seals on this the **14th day of December, 2019.**

Signed by 1st Party


(ALOK KUMAR DAS)
Officer-in-Charge
Kabi Jagadram Roy Government General Degree College
Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.

Signature of Witness:


14/12/2019

Co-ordinator, IQAC
Kabi Jagadram Roy Government
General Degree College
Mejia, Bankura, PIN-722143

Signed by 2nd Party


(DR. TUSHAR KANTI HALDER)
Principal
Gobinda Prasad Mahavidyalaya
Principal
Gobinda Prasad Mahavidyalaya
Amarkanen, Bankura

Signature of Witness:


14.12.19

IQAC Co-ordinator
Gobinda Prasad Mahavidyalaya
Amarkanen, Bankura




Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



Government of West Bengal
Office of the Principal
Kabi Jagadram Roy Government General Degree College
MEJIA – 722143

(On NH-60)
P.O. - Mejia, Dist. - Bankura
West Bengal.
Phone: +91-3241-250250
E-mail: kjrggdcmejia@gmail.com
Website: www.kjrggdc.ac.in

Phone : 03241-265501 / 9734962796



GOBINDA PRASAD MAHAVIDYALAYA
(NAAC Accredited 'B' College)

P.O.- Amarkanam ♦ Dist- Bankura ♦ Pin-722133 ♦ (W.B.)

+ Email Id : gpm1985105@gmail.com / gpm.bku.108@gmail.com + Website : www.gpm.ac.in

Ref. No.

Date 22/02/20

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Dr. Aresh Kumar Maji, Associate Professor of Geology, Kabi Jagadram Roy Government General Degree College, Mejia has conducted a special class on 'EARTH INTERIOR AND PLATE TECTONICS' for the students of the Department of Geography at Gobinda Prasad Mahavidyalaya, Amarkanam on 22nd February, 2020 in connection with the Faculty Exchange Program as a part of the MoU signed on 14th December, 2019 between Kabi Jagadram Roy Government General Degree College, Mejia, Dist. – Bankura, West Bengal, PIN 722 143, and Gobinda Prasad Mahavidyalaya, Amarkanam, P.O.- Amarkanam, Dist. - Bankura, PIN 722 133, West Bengal.




Principal
Gobinda Prasad Mahavidyalaya
Principal
Gobinda Prasad Mahavidyalaya
Amarkanam, Bankura




Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



Government of West Bengal
Office of the Principal
Kabi Jagadram Roy Government General Degree College
MEJIA – 722143

(On NH-60)
P.O. - Mejia, Dist. - Bankura
West Bengal.
Phone: +91-3241-250250
E-mail: kjrggdcmejia@gmail.com
Website: www.kjrggdc.ac.in

GOBINDA PRASAD MAHAVIDYALAYA
AMARKANAN, BANKURA, 722133, W.B.



DEPARTMENT OF GEOGRAPHY

ATTENDANCE SHEET

NAME OF ACTIVITY: Special Lecture by Dr. Aresh Kumar Maji, Associate Professor of Geology,
Kabi Jagadram Roy Government General Degree College, P.O.- Mejia, Dist.- Bankura,
PIN 722143 on 22.02.2020.

TOPIC: EARTH INTERIOR AND PLATE TECTONICS

TOTAL NUMBER OF PARTICIPANTS:

SL. NO.	UID NUMBER	NAME OF THE PARTICIPANTS	CLASS	SIGNATURE
01	18083119006	Sangeeta Singh	4 th sem	Sangeeta Singh
02	18083119004	Rituparna Mandal	4 th Sem	Rituparna Mandal
03	18083119009	Pinku Ghosh	4 th Sem.	Pinku Ghosh
04	18083119001	Arijit Gosai	4 th Sem.	Arijit Gosai
05	18083119003	Pradip Mandal	4 th sem	Pradip Mandal
06	18083119005	Anjana Mandi	4 th Sem	Anjana Mandi
07	18083119007	Rahul Pal	4 th Sem	Rahul Pal
08	-	Biswini Talukder	Teacher	Dr. K. 22-02-20

Ashu
22/02/2020
Dr. ARESH KUMAR MAJI, W.B.E.S.
Associate Professor of Geology
Kabi Jagadram Roy Government General Degree College
Mejia-722143, Dist.-Bankura, W.B.

[Signature]
22/02/20
Principal
Gobinda Prasad Mahavidyalaya
Principal
Gobinda Prasad Mahavidyalaya
Amarkanan, Bankura



[Signature]
Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist.-Bankura, W.B.



Government of West Bengal
Office of the Principal
Kabi Jagadram Roy Government General Degree College
Mejia - 722143.

(On NH-60), Gopalpur
Mejia, Distt. Bankura
West Bengal.
Phone: +91-3241-250250
E-mail: kirggdcmejia@gmail.com
Web: www.ggdcmejia.in

TO WHOM IT MAY CONCERN

This certificate is awarded to Shri Biswajit Talukdar, Assistant Professor of Geography, Gobinda Prasad Mahavidyalaya, Amarkanana, P.O.- Amarkanana, Dist. - Bankura, PIN 722 133, West Bengal for delivering special lectures on 'APPLICATION OF REMOTE SENSING' for the students and faculty members at Kabi Jagadram Roy Government General Degree College, Mejia on 16th November, 2022 in connection with the Faculty Exchange Program as a part of the MoU signed on 14th December, 2019 between Kabi Jagadram Roy Government General Degree College, Mejia, Dist. – Bankura, West Bengal, PIN 722 143, and Gobinda Prasad Mahavidyalaya, Amarkanana, P.O.- Amarkanana, Dist. - Bankura, PIN 722 133, West Bengal.

AS 16/11/2022
(Officer-in-Charge)
Officer - in - Charge
Kabi Jagadram Roy Government General Degree College
Mejia - 722143, Dist.- Bankura,W.B.

Received by
Biswajit
16.11.2022

H.O.D.
DEPARTMENT OF GEOGRAPHY
G. P. Mahavidyalaya
Amarkanana, Bankura

Office of the Principal, Kabi Jagadram Roy Govt. General Degree College, Mejia – 722 143.



AS
Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



Government of West Bengal
Office of the Principal
Kabi Jagadram Roy Government General Degree College
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West Bengal.
Phone: +91-3241-250250
E-mail: kjrgdcmejia@gmail.com
Website: www.kjrgdc.ac.in

KABI JAGADRAM ROY GOVERNMENT GENERAL DEGREE COLLEGE
Mejia, Dist. - Bankura, PIN 722 143, West Bengal

Attendance Sheet

Topic of Lecture : Application of Remote Sensing
Date of Lecture : 16.11.2022
Resource Person : Shri Biswajit Talukdar, Assistant Professor of
Geography, Gobinda Prasad Mahavidyalaya
Number of Participants : 12 (twelve)

Sl. No.	Name	Participants' details	Signature	Remarks
1.	Sumanda Chowdhury	5 th Semester	Sumanda Chowdhury	Good
2.	ADITI GOPE	Student, Sem-I	Aditi Gope	Good
3.	Apurba Deo	Student, Sem-II	Apurba Deo	V. Nice
4.	MLAVO SHIT	Student, Sem-IV	Nilavo Shit	V Good
5.	Sathi Logek	Student, Sem-III	Sathi Logek	V. Good
6.	Nivedita Chakraborty	Teacher	Nivedita Chakraborty	Informative
7.	Dr. Aserk Kumar Maji	Associate Professor	Dr. Aserk Kumar Maji	Interesting
8.	SUBHAJIT KUNDU	I-semester	Subhajit Kundu	
9.	Sourin Maity	3 rd Semester	Sourin Maity	Good
10.	Sayantan Modak	Ex-student -	Sayantan Modak	Good
11.	BILTU CHATTERJEE	-do-	Biltu Chatterjee	
12.	INDRANI MONDAL	Teacher	Indrani Mondal	Very nice lecture

Biswajit Talukdar
16.11.2022

H.O.D.
DEPARTMENT OF GEOGRAPHY
G. P. Mahavidyalaya
Amarkanon, Bankura

16/11/2022
Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



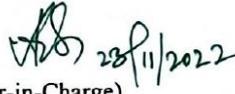
Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



TO WHOM IT MAY CONCERN

This is to certify that **Shri Biswajit Talukdar**, Assistant Professor of Geography, Gobinda Prasad Mahavidyalaya, Amarkanan, P.O.- Amarkanan, Dist. - Bankura, PIN 722 133, West Bengal has delivered a special lecture on '**Continental Drift and Sea Floor Spreading**' for the students at Kabi Jagadram Roy Government General Degree College, Mejia on **23rd November, 2022** in connection with the Faculty Exchange Program as a part of the MoU signed on 14th December, 2019 between Kabi Jagadram Roy Government General Degree College, Mejia, Dist. - Bankura, West Bengal, PIN 722 143, and Gobinda Prasad Mahavidyalaya, Amarkanan, P.O.- Amarkanan, Dist. - Bankura, PIN 722 133, West Bengal.

We appreciate his profound knowledge which enriched our students. We are grateful to Shri Talukdar.


(Officer-in-Charge)
Officer - In - Charge
Kabi Jagadram Roy Government General Degree College
Mejia - 722143, Dist. - Bankura, W.B.

Received by

23.11.2022

H.O.D.
DEPARTMENT OF GEOGRAPHY
G. P. Mahavidyalaya
Amarkanan, Bankura




Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



Government of West Bengal
Office of the Principal
Kabi Jagadram Roy Government General Degree College
MEJIA - 722143

(On NH-60)
P.O. - Mejia, Dist. - Bankura
West Bengal.
Phone: +91-3241-250250
E-mail: kjrggdcmejia@gmail.com
Website: www.kjrggdc.ac.in

KABI JAGADRAM ROY GOVERNMENT GENERAL DEGREE COLLEGE
Mejia, Dist. - Bankura, PIN 722 143, West Bengal

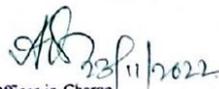
Attendance Sheet

Topic of Lecture : Continental Drift and Sea Floor Spreading
Date of Lecture : 23.11.2022
Resource Person : Shri Biswajit Talukdar, Assistant Professor of
Geography, Gobinda Prasad Mahavidyalaya
Number of Participants : 13 (thirteen)

Sl. No.	Name	Participants' details	Signature	Remarks
1.	SUBHAJIT KUNDU	Student; 1st Sem.	Subhajit Kundu	V. Good
2.	Nilavo Ghit	Student; Sem-V	Nilavo Ghit	V. Good
3.	SOURIN MAITY	SEM-III	Sourin Maity	V. Good
4.	Sumanda Chowdhury	5th sem	Sumanda Chowdhury	Very Good
5.	APURBA DEY	STUDENT, SEM-V	Apurba Dey	Excellent
6.	Aditi Gope	Student, Sem-I	Aditi Gope	V. Good
7.	Sathi Lajek	Student, Sem-III	Sathi Lajek	V. Good
8.	NIPA SEN	EX-Student	Nipa Sen	V. Good
9.	Rupam Roy	Ex-Student	Rupam Roy	Very Good
10.	SAYANTAN MODAK	—do—	Sayantán Modak	V. good
11.	NIYEDITA CHAKRAORTY	Teacher	Niyedita Chakraborty	Interesting
12.	Dr. Aserh Kumar Maji	Associate Professor	Aserh Kumar Maji	Nice Lecture Very nice include technique
13.	INDRANI MONDAL	Teacher	Imondal	

Biswajit Talukdar
23.11.2022

H.O.D.
DEPARTMENT OF GEOGRAPHY
G. P. Mahavidyalaya
Amarkanana, Bankura


23/11/2022
Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.




Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



Government of West Bengal
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(On NH-60), Gopalpur
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Phone: +91-3241-250250
E-mail: kjrggdcmjia@gmail.com
Web: www.ggdcmjia.in

Date: 28.11.2023

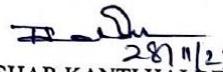
**SUMMARY OF THE ACTIVITIES CONDUCTED UNDER THE MoU
BETWEEN
KABI JAGADRAM ROY GOVERNMENT GENERAL DEGREE COLLEGE, MEJIA
AND
GOBINDAPRASAD MAHAVIDYALAYA, AMARKANAN**

Certified that a MoU was signed on 14.12.2019 for an initial period of 03 (three) years (i.e., valid up to 13.12.2022) between Kabi Jagadram Roy Government General Degree College, Mejia, Dist. - Bankura, West Bengal, PIN 722 143, and Gobinda Prasad Mahavidyalaya, Amarkanana, P.O.- Amarkanana, Dist. - Bankura, PIN 722 133, West Bengal, The list of activities conducted under the aforesaid MoU till 28.11.2023 is as follows.

Sl No.	Type of activity	Academic Year	Date (s) of activity		Brief description of the activity
			From	To	
01	Faculty Exchange	2019-2020	22.02.2020	22.02.2020	Lecture followed by academic interaction with students and faculty members on Earth Interior and Plate Tectonics was conducted at Gobinda Prasad Mahavidyalaya, Amarkanana by Dr. Aresh Kumar Maji, Associate Professor of Geology, Kabi Jagadram Roy Government General Degree College, Mejia
02	Faculty Exchange	2022-2023	16.11.2022	16.11.2022	Special lecture on Application of Remote Sensing was performed at Kabi Jagadram Roy Government General Degree College, Mejia by Shri Biswajit Talukdar, Assistant Professor of Geography, Gobinda Prasad Mahavidyalaya, Amarkanana
02	Faculty Exchange	2022-2023	23.11.2022	23.11.2022	Special lecture on Continental Drift and Sea Floor Spreading was performed at Kabi Jagadram Roy Government General Degree College, Mejia by Shri Biswajit Talukdar, Assistant Professor of Geography, Gobinda Prasad Mahavidyalaya, Amarkanana

Outcome of the MoU: The aforesaid 03 (three) lectures and interactive sessions under the MoU, imparted many new information and ideas among the students and teachers of both the colleges.


(ALOK KUMAR DAS)
Officer-in-Charge
Kabi Jagadram Roy Government General Degree College
Officer - in - Charge
Kabi Jagadram Roy Government General Degree College
Mejia - 722143, Dist.- Bankura,W.B.


(DR. TUSHAR KANTI HALDER)
Principal
Gobinda Prasad Mahavidyalaya
Principal
Gobinda Prasad Mahavidyalaya
Amarkanana, Bankura

Office of the Principal, Kabi Jagadram Roy Govt. General Degree College, Mejia - 722 143.




Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



MEMORANDUM OF UNDERSTANDING (MoU)

Between

KABI JAGADRAM ROY GOVERNMENT GENERAL DEGREE COLLEGE
Gopalpur (on NH 60), P.O. - Mejia, Dist. – Bankura, PIN 722 143, West Bengal

and

BARJORA COLLEGE
P.O. – Barjora, Dist. – Bankura, PIN 722 202, West Bengal

This agreement between Kabi Jagadram Roy Government General Degree College, Mejia, Dist. – Bankura, PIN 722 143, West Bengal and Barjora College, Barjora, Dist. Bankura, PIN 722 202, West Bengal is signed on the 13th November, 2019.

Objectives, Scope, and Major Activities:

Both institutions agree to encourage the development of the following types of activities:

1. Visits and formal exchanges of faculty, students and administrators in specific areas of education, research and outreach.
2. Cooperate in Under Graduate education and training through museum, library as well as laboratory resources.
3. Organize joint conferences, seminar, webinar, symposia, or other scientific meetings on subjects of mutual interest.
4. Exchange of academic information and materials.
5. Explore the possibilities for developing joint research programs and collaborations.
6. All such activities will be done as per existing guidelines of the university, State Government and UGC.

General terms and Conditions:

1. **Duration of MOU:** This MOU will be effective from the date of agreement and will have an initial duration of 05 (five) years. The MOU may be extended with the consent of both the parties.

Contd....2

1 | Page

AS
12/11/2019

Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.

Arun Kumar Roy
13/11/19

Principal
BARJORA COLLEGE
Barjora Bankura

Office of the Principal, Kabi Jagadram Roy Govt. General Degree College, Mejia – 722 143.



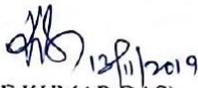
AS
Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



Arun Kumar Roy
13/11/19
Principal
BARJORA COLLEGE
Barjora, Bankura

2. **Confidentiality:** Both the colleges will maintain confidentiality about the terms and conditions of the agreement.
3. **Termination of MOU:** This MOU may be terminated at any time with a 15 days prior notice from either of the parties.
4. **Modification:** Any alteration / modification to the MOU may be done with mutual consent of both the parties. Involvement of new departments/activities may be done from time to time with mutual consent of both the colleges.

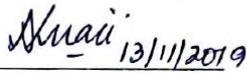
For, Kabi Jagadram Roy Government General
Degree College, Mejia


(ALOKE KUMAR DAS)
Officer-in-Charge

Kabi Jagadram Roy Government General Degree College

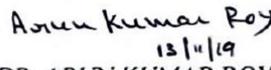
Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.

In Witness of:


(DR. ASESH KUMAR MAJI)

Co-ordinator, IQAC
Kabi Jagadram Roy Government
General Degree College
Mejia, Bankura, PIN-722143

For, Barjora College, Barjora


(DR. ARUN KUMAR ROY)
Principal

Barjora College
Principal
BARJORA COLLEGE
Barjora, Bankura


Co-ordinator
I.Q.A.C.
Barjora College
Barjora, Bankura

Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.




Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



Government of West Bengal
Office of the Principal
Kabi Jagadram Roy Government General Degree College
Mejia - 722143.

(On NH-60), Gopalpur
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Phone: +91-3241-250250
E-mail: kjrggdcmejia@gmail.com
Web: www.ggdcmejia.in

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Dr. Papia Nandy Palit**, Associate Professor of Geography, Barjora College, Barjora Bankura has conducted a special class on 'REMOTE SENSING AND GIS' for the students of the Department of Geology at Kabi Jagadram Roy Government General Degree College, Mejia on **13th February, 2020** in connection with the Faculty Exchange Program as a part of the MoU signed on **13th November, 2019** between Kabi Jagadram Roy Government General Degree College, Mejia, Dist. – Bankura, West Bengal, PIN 722 143, and Barjora College, Barjora, Dist. Bankura, PIN 722 202, West Bengal.


Officer-in -Charge

Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.

Received
Handy Palit 13/02/2020
Head
Dept. of Geography
Barjora College

Office of the Principal, Kabi Jagadram Roy Govt. General Degree College, Mejia - 722 143.





Officer-in-Charge
Kabi Jagadram Roy Govt. General Degree College
Mejia-722143, Dist-Bankura, W.B.



KABI JAGADRAM ROY GOVERNMENT GENERAL DEGREE COLLEGE
Mejia, Dist. - Bankura, PIN 722 143, West Bengal
Attendance Sheet

Topic of Lecture : REMOTE SENSING & GIS
Date of Lecture : 13/02/2020
Resource Person : Dr. Papia Nandy Palit, Barjora College
Barjora
Total No. of Participants : Student - 14; Teacher - 02; Total - 16 (Sixteen)

Sl. No.	Name	Details of Participants	Signature
1.	Diptoman Singh	2nd Semester (UID 19223120009)	Diptoman Singh
2.	Tannoy Karimakar	4th Sem (UID 18223120001)	Tannoy Karimakar
3.	NIPA SEN	2nd Semester student	Nipa Sen
4.	ASTIK MONDAL	Semester - VII (UID 17693120001)	Astik Mondal
5.	RIYA LAJEK	Student, Sem - VI	Riya Lajek
6.	MOUDIA MUKHERJEE	STUDENT, SEM - VI	Mouplea Mukherjee
7.	Arpita Panday	STUDENT 2nd Sem.	Arpita Panday
8.	SAPTARSHI BANERJEE	Student, Sem - II (UID - 19223120005)	Saptarshi Banerjee
9.	Labani Karimakar	Student, Sem - VI	Labani Karimakar
10.	BILTU CHATTERJEE	2nd Semester student	Biltu Chatterjee
11.	TUHIN KUNDU	- DO -	Tuhin Kundu
12.	Subhash Ch. Mondal	Student, Sem - IV UID - 18223120003	Subhash Ch. Mondal
13.	SUMANTA KUNDU	Student, Sem - IV, UID 18223120002	Sumanta Kundu
14.	BHAJAHARI BHANDARI	STUDENT, SEM - VI, UID - 17693120003	Bhajahari Bhandari
15.	Dr. Aresh Kumar Maji	Associate Professor & HOD	Maji
16.	Nivedita Chakraborty	Teacher	Nivedita Chakraborty

Maji
13/02/2020
Dr. ARESH KUMAR MAJI, W.B.E.S
Associate Professor of Geology & HOD
Kabi Jagadram Roy Government General Degree College
Mejia-722143, Dist-Bankura, W.B.

Handy Palit
13/02/2020
Head
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Date- *20/02/2020*.....

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Dr. Aresh Kumar Maji, Associate Professor of Geology, Kabi Jagadram Roy Government General Degree College, Mejia has conducted a special class on 'HANDS ON TRAINING FOR MESOSCOPIC IDENTIFICATION OF MINERALS' for the students of the Department of Geography at Barjora College, Barjora on 20th February, 2020 in connection with the Faculty Exchange Program as a part of the MoU signed on 13th November, 2019 between Kabi Jagadram Roy Government General Degree College, Mejia, Dist. – Bankura, West Bengal, PIN 722 143, and Barjora College, Barjora, Dist. Bankura, PIN 722 202, West Bengal.

Aresh Kumar Roy

Principal 20/2/20
Barjora College

Principal
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Barjora Bankura



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Date: 29.08.2023

SUMMARY OF THE ACTIVITIES CONDUCTED UNDER THE MoU
BETWEEN
KABI JAGADRAM ROY GOVERNMENT GENERAL DEGREE COLLEGE, MEJIA
AND
BARJORA COLLEGE, BARJORA

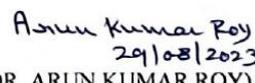
Certified that a MoU was signed on 13.11.2019 for an initial period of 05 (five) years (i.e., valid up to 12.11.2024) between Kabi Jagadram Roy Government General Degree College, Mejia, Dist. - Bankura, West Bengal, PIN 722 143, and Barjora College, Barjora, Dist. Bankura, PIN 722 202, West Bengal. The MoU is functional and the list of activities conducted under the aforesaid MoU till 29.08.2023 is as follows.

Sl No.	Type of activity	Academic Year	Date (s) of activity		Brief description of the activity
			From	To	
01	Faculty Exchange	2019-2020	13.02.2020	13.02.2020	Special lecture on Remote Sensing and GIS was performed at Kabi Jagadram Roy Government General Degree College, Mejia by Dr. Papia Nandi Palit, Associate Professor of Geography, Barjora College, Barjora
02	Faculty Exchange	2019-2020	20.02.2020	20.02.2020	Lecture followed by laboratory classes on Hands on training for mesoscopic identification of minerals was performed at Barjora College, Barjora by Dr. Aresh Kumar Maji, Associate Professor of Geology, Kabi Jagadram Roy Government General Degree College, Mejia

Outcome of the MoU: The attended students and the teachers of mainly Earth Science departments of both the colleges are highly benefitted through theoretical classes, hands on training and subsequent interactive sessions through the aforesaid faculty Exchange programmes under the MoU.


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Principal
BARJORA COLLEGE
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Date: 15.12.2016

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This is to certify that the College has no objection in permitting **Sri/Smt./Dr. Nivedita Chakraborty, Assistant Professor in Geology** to continue her collaborative research/academic linkages/activities with **Department of Geology, Presidency University, Kolkata** to be started in January, 2017 without hampering the normal duties of the College.

I wish her all success in life.

Dr. Aresh Kumar Maji
Officer-in-Charge

Dr. ARESH KUMAR MAJI, W.B.E.S.
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This is to certify that **Dr. Nivedita Chakraborty**, Assistant Professor, Department of Geology, Kabi Jagadram Roy Government General Degree College, Mejia (Bankura) has been associated with me in collaborative research since 2017. We did geological field works in different remote areas and open cast mines in and around Ariyalur, Cauvery Basin (Tamil Nadu), and Bhuj, Kutch Basin (Gujarat) during 2017-2022. We have published several papers in different peer-reviewed journals/book chapters.

We have started collaborative research on the Permo-Triassic rocks in the Raniganj Basin (Damodar Valley), West Bengal too since 2021. We did geological field trip to different rural areas of the Bankura and the Purulia district. The collaborative linkage between Dr. Chakraborty and me is for academic and research purposes.


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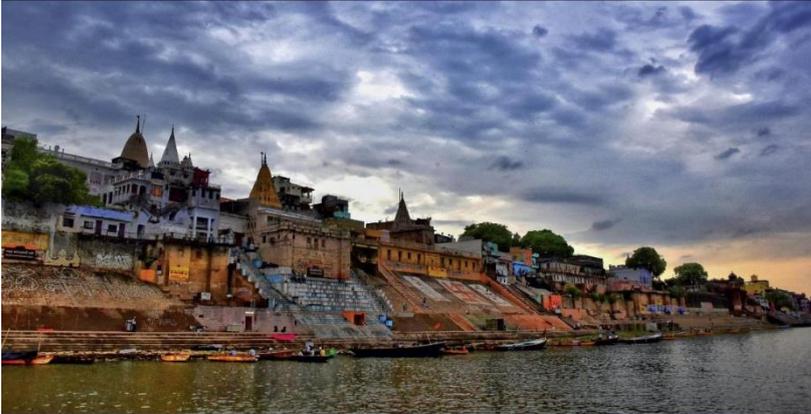


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Ecological Significance of River Ecosystems

Challenges and Management Strategies



Edited by
**Sughosh Madhav, Shyam Kanhaiya,
Arun Lal Srivastav, Virendra Bahadur Singh
and Pardeep Singh**



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CHAPTER

19

Palaeoclimatic imprint on fluvial
sediments: examples from Indian
Phanerozoic successions

Nivedita Chakraborty^a, Anudeb Mandal^b, Sunipa Mandal^c

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^cDepartment of Geological Sciences, Jadavpur University, Kolkata, India

19.1 Introduction

Rivers on earth are the major dynamic geomorphic entities within the continental realm, leading to extremely complex response to considerable spatiotemporal variability of different natural factors (Knox, 1983). Fluvial systems are highly sensitive to climatic and environmental changes, along with base-level change and tectonics, which governs their morphology and sedimentation pattern. Though, it is very difficult to compartmentalize the influences of climate and tectonics as the interaction between them controls weathering and erosion in the catchment areas of major rivers (Burbank et al., 2003; Clift, 2010). Fluvial response to climatic change may be classified into stratigraphic (stratigraphic architecture produced by aggradation, degradation, or lateral migration), morphological (change in channel geometry), and sedimentological (spatial distribution of depositional environments and palaeogeography) components (Blum and Tornqvist, 2000). The fluvial archives, encompassing riverine sediments especially paleosols and slack water deposits of floodplain, climate-sensitive lithologies (coal, evaporite, eolianite, etc.) along with palaeoecological constituents like preserved fossil plants and trace fossils, hold the potential for developing a detail record of fluvial-climate connection in space and time (Allen et al., 2011). Although there is a growing call for novel research in this field, studies connecting fluvial systems and climate change in the pre-quaternary time are relatively neglected (Allen et al., 2011; Blum and Tornqvist, 2000; Goodbred, 2003; Meetei et al., 2007).

The present article aims to make a brief appraisal on palaeoclimatic clues hidden within the fluvial sediments highlighting some of the potential palaeoclimatic archives (paleosol,



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Indigenous siliciclastic and extraneous polygenetic carbonate facies in the Albian-Turonian Karai Shale, Cauvery Basin, India

Nivedita Chakraborty¹ · Anudeb Mandal² · Adrita Choudhuri³ · Sunipa Mandal³ · Subir Sarkar³

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Abstract

The Albian-Turonian marine Karai Shale, a mixed siliciclastic–carbonate formation in the pericratonic Cauvery rift basin, India, arouses interest as its evenly laminated siliciclastic beds appear indigenous, settling from suspension, while the calcarenite beds are made of materials that were deposited elsewhere and then shifted by agents that occasionally invaded the present depositional site. Three calcarenite facies recognized differ in body geometry, sedimentary structures, recurrence and in association. One of the two calcarenite facies enclosed by grey shale is most widely distributed, characterized by tabular geometry, internal wave-cum current structures, overall graded nature and gutters at base. It is inferred as product of meteorological storms. The other calcarenite facies overlapping in occurrence constitutes a single amalgamated bed package that is characterized by highest degree of dilution by siliciclastics in coarsest fraction, selectively incorporating pebble-sized fragments of the granitic basement and wood. Its beds are internally massive or cross-stratified and interpreted as products of successive pulses of ebb of a very strong event may be a megastorm or tsunami. The third calcarenite facies is represented by a couple of trough cross-stratified sheets embedded within greenish grey shale enriched in phosphate nodules and glauconite pellets and completely devoid of storm beds. Near-orthogonal diversion of palaeocurrent between the two associations invokes ocean bottom current to impinge upon the shelf-margin during maximum transgression for the third calcarenite facies. The $\delta^{13}\text{C}$ ratio in the TST part is consistent with deposition on open marine shelf, but in the HST part they indicate influx of meteoric water.

Keywords Karai Shale formation · Mixed siliciclastic–carbonate shelf · Indigenous siliciclastics · Polygenetic clastic carbonates · Sedimentation dynamics · TST–HST transects

Introduction

Mixed siliciclastic–carbonate deposits generally embrace indigenous chemical and extraneous clastic fractions occurring together. Deposition of mixed sediments predominantly

involves marine shelves, where siliciclastic sediments are generally trapped in the nearshore zone and carbonate deposition is held in clear, deeper water subtidal settings (Myrow and Landing 1992) and at the shelf margin where carbonate deposits interfinger with deep basin shales (e.g. Handford 1986). A number of studies have documented such heterolithic systems depicting interfingering between laterally adjacent facies in ancient as well as modern geological settings where carbonates represent locally generated sediment, while the siliciclastic fraction is driven from outside (e.g. Łabaj and Pratt 2016; Zeller et al. 2015; Chiarella and Longhitano 2012; Ryan-Mishkin et al. 2009; Wright et al. 2005; Dunbar and Dickens 2003; Osleger and Montanez 1996; Budd and Harris 1990; Mount 1984). However, the Albian-Turonian marine shelf-originated mixed siliciclastic–carbonate Karai Shale Formation of the Cauvery Basin, India (Chakraborty and Sarkar 2013; Chakraborty et al. 2015; Nagendra et al. 2011; Tewari et al. 1996a), shows

The original version of this article was revised: Figure 1 was incorrectly published in original publication and the same is corrected here.

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Research paper

Microenvironmental constraint on $\delta^{13}\text{C}$ depletion: Garudamangalam Sandstone, Cauvery Basin, India

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ABSTRACT

Within the hydrocarbon-producing Cretaceous marine Uttatur Group, Cauvery Basin, India, the Garudamangalam Sandstone Formation is at top of a TST-HST transit. The $\delta^{13}\text{C}$ value is expectedly depleted within the calcareous Garudamangalam Sandstone, which is the top most unit of the Uttatur Group, overlying the Karai Shale. The calcareous sandstone was deposited in a coastal setting around a shore-parallel river mouth bar. Instances of excessive depletion of $\delta^{13}\text{C}$ up to -44.5% in the carbonate cement is suggestive of methane generation and its subsequent sequestration. The common occurrence of early diagenetic pyrite in these rocks testifies to the proliferation of sulfate-reducing bacteria and is suggestive of methane generation beneath the sulfate reduction zone. Upward-moving diffusive methane was possibly consumed by methanotrophs at the base of the sulfate-reduction zone. Abundant fabric-selective carbonate cement corroborates microbially-controlled anaerobic oxidation of methane. The presumed high rate of nutrient supply, abundance of vegetative material and moderately high organic carbon content in sediments (av. 1.6%), support this contention. All the samples which have the greatest $\delta^{13}\text{C}$ depletion are characterized by enriched organic carbon and are derived from a tidal inlet-mouth facies, and selectively from mud drapes on cross-bedding in tidal strata. Calcarenite at the base of the same cross-strata are invariably much less depleted in $\delta^{13}\text{C}$. This range of relationships indicates the transport of methanotrophs that settled on foreset beds mostly as tides slackened under the broader control of neap-spring cycles.

1. Introduction

An unusual negative excursion of $\delta^{13}\text{C}$ in calcite values approaching -50% is commonly correlated with methane sequestration (Claypool and Kaplan, 1974). The topic gains importance in the view of recent trend of $\sim 1\% \text{ yr}^{-1}$ increase in atmospheric methane (Reeburgh, 2007 and references therein). Reeburgh (2007) made a review of earlier work on the natural processes of methanogenesis and methane oxidation. This paper focuses upon environmental constraints on spatial variation of $\delta^{13}\text{C}$, locally depleted to an extraordinary extent (-44.5%) in the Cretaceous Garudamangalam Sandstone (GS), Trichinopoly, India (Fig. 1). It presents evidence for reworking of methanotrophs, originally invoked by Pohlman et al. (2013). It brings to light a selective environmental constraint on spatial variation of $\delta^{13}\text{C}$, which decreased values to about -50% .

Calcite precipitated inorganically from sea water yields $\delta^{13}\text{C} -2$ to $+2\%$ PDB (Rollinson, 1993), while $\delta^{13}\text{C}$ values from organic carbon

are much lower, at $\sim -25\%$ (Irwin et al., 1977; Rollinson, 1993). Methane $\delta^{13}\text{C}$ values are far more depleted; $< -50\%$ when biogenic, and lower when abiotic (Claypool and Kaplan, 1974; Henderson, 2004; Reeburgh, 2007). Whether biogenic or abiotic, ^{12}C is preferentially lost upon oxidation, and hence the residual methane turns heavier.

Sarkar et al. (2014) proposed a shore-parallel deltaic mouth-bar palaeogeography during deposition of the GS, which may have significance in this regard, especially if the methane is biogenic. Bange et al. (1994) identified the coastal zone as source of $\sim 75\%$ global oceanic methane emission to the atmosphere. Supersaturation of methane in coastal waters readily arises because of the addition of organic matter, including vegetative organic matter especially rich in C^{12} , from land (Cynar and Yayanos, 1992; Ward, 1992). Additionally, the high rate of nutrient supply in a deltaic environment induces high rates of in-situ biogenic production and further boosts methane generation. Faecal pellets which are extraordinarily rich in methane are abundant in such an environment (Turner, 2002; Wilson and Schieber, 2015). Stagnant

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[Dr. Anudeb Mondal, Assistant Professor of Geology]
2. Start Date of Collaboration : January,2017
3. End date of Collaboration : Continuing
4. Duration : January,2017- Continuing
5. Purpose of the Collaboration : Collaborative Geological Field work, Research & Publication.
6. Collaborative Research Activities : Dr. Nivedita Chakraborty, Department of Geology, Kabi Jagadram Roy Government General Degree College carried out collaborative geological research field work with Dr. Anudeb Mondal, Department of Geology, Presidency University in and around Ariyahur, Cauvery Basin and Bhuj, Kutch basin during 2017-2022, and **PUBLISHED 03 (THREE) SCIENTIFIC PAPERS during 2018-2022.**
7. Outcomes in terms of Research Publications: i) **Chakraborty, N., Mandal, A., Mandal, S., 2022.** Palaeoclimatic imprint on fluvial sediments: examples from Indian Phanerozoic successions in: Madhav et al., (eds.) *Ecological Significance of River Ecosystem*, Elsevier.
ii) **Chakraborty, N., Sarkar, S., Mandal, A., Mandal, S. Bumby, A., 2018.** Microenvironmental Constraint on $\delta^{13}\text{C}$ Depletion: Garudamangalam Sandstone, Cauvery Basin, India. *Journal of Marine and Petroleum Geology* 91, 776-784.
iii) **Chakraborty, N., Mandal, A., Choudhuri, A., Mandal, S., Sarkar, S., 2018.** Indigenous siliciclastic and extraneous polygenetic carbonate beds in the Albian-Turonian Karai Shale, Cauvery Basin, India. *Carbonates and Evaporites* 33(3), 561-576.

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Date: 17.12.2015

To whom it may concern

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I wish her all success in life.

Maji

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This is to certify that Dr. Nivedita Chakraborty, Assistant Professor, Department of Geology, Kabi Jagadram Roy Government General Degree College, Mejia (Bankura) and me are doing a collaborative research on Cretaceous rocks of Cauvery (East coast) and Kutch Basin (West coast), India since 2016. We did geological field works together in different remote areas and open cast mines in and around Ariyalur (Tamil Nadu) and Bhuj (Gujarat) since 2016. We have published multiple papers in different peer reviewed journals and books during 2016-2021.

The collaborative linkage between Dr. Chakraborty and me is for academic and research purpose.


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**Aseismic Tectonism-Induced
Soft-Sediment Deformation
in a Tranquil Palaeogeography:
Chikkshelikere Limestone Member,
Proterozoic Kaladgi Basin, Southern
India**



Soumik Mukhopadhyay, Adrita Choudhuri, Nivedita Chakraborty
and Subir Sarkar

Abstract The wide spectrum of synsedimentary deformation products occurring almost at all stratigraphic levels within the ~40 m-thick section of the Chikkshelikere Limestone Member of tentative Mesoproterozoic age in India is evaluated for its origin. Among the two principal facies components, both carbonate, of this Member the dark micritic facies generally underwent brittle deformation, and the light microsparry facies responded in ductile fashion to the same deformational stress. Breccia patches, hardly having any boundary, abound at almost every stratigraphic level within the Chikkshelikere Limestone Member. The third facies constituting less than 3% by volume of the Member is of laterally persistent carbonate intraclastic conglomerate beds. The dark facies is of massive micrite, while the light facies is made up of interlocking microspar crystals, but bears minor wave-current structures, and rare minute erosional features at its base. Non-luminescent character of the former under CL is reminiscent of oxidizing basin-floor environment, while the bright orange luminescence of the latter testifies pervasive burial recrystallization. The dark micritic facies is interpreted as indigenous and the light microsparry facies as allochthonous, possibly laid by highly energy-depleted storm wave-cum-current. Mineralogical as well as geochemical analyses indicate preferred dolomitization and carbon enrichment in the dark micritic facies. Selective pyritization is also observed along the base of the same facies. These features collectively suggest selective microbial mat proliferation within this facies. Despite early induration being the rule for carbonate sediments, microbial mat growth apparently enhanced its rate within the dark micritic facies

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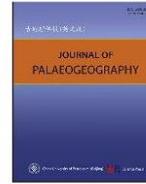
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Lithofacies palaeogeography and sedimentology

Syn-sedimentary tectonics and facies analysis in a rift setting: Cretaceous Dalmiapuram Formation, Cauvery Basin, SE India



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Abstract The Cretaceous (Albian–Cenomanian) Dalmiapuram Formation is one of the economically significant constituents in the hydrocarbon-producing Cauvery rift basin, SE India that opened up during the Late Jurassic–Early Cretaceous Gondwanaland fragmentation. The fossil-rich Dalmiapuram Formation, exposed at Ariyalur within the Pondicherry sub-basin of Cauvery Basin, rests in most places directly on the Archean basement and locally on the Lower Cretaceous (Barremian–Aptian) Basal Siliciclastic Formation. In the Dalmiapuram Formation, a facies association of tectonically-disturbed phase is sandwiched between two drastically quieter phases. The early syn-rift facies association (FA 1), records the first carbonate marine transgression within the basin, comprising a bar–lagoon system with occasionally storms affecting along the shore and a sheet-like non-recurrent biomicritic limestone bed on the shallow shelf that laterally grades into pyrite–glauconite-bearing dark-colored shale in the deeper shelf. Spectacular breccias together with varied kinds of mass-flow products comprise the syn-rift facies association (FA 2). While the breccias occur at the basin margin area, the latter extend in the deeper inland sea. Clast composition of the coarse clastics includes large, even block-sized limestone fragments and small fragments of granite and sandstone from the basement. Marl beds of quieter intervals between tectonic pulses occur in alternation with them. Faulted basal contact of the formation, and small grabens filled by multiple mass-flow packages bear the clear signature of the syn-tectonic activity localized contortions, slump folds, and pillow beds associated with mega slump/slide planes and joints, which corroborates this contention further. This phase of tectonic intervention is followed by another relatively quieter phase and accommodates the late syn-rift facies association (FA 3). A tidal bar–interbar shelf depositional system allowed a transgressive systems tract motif to grow eventually passing upwards into the Karai Shale Formation, whose contact with the Dalmiapuram Formation is gradational.

Keywords Syn-sedimentary tectonics, Facies analysis, Carbonate shelf, Cretaceous, Dalmiapuram Formation, Cauvery Basin

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ii) **Chakraborty, N., Sarkar, S.**, 2018. Syn-sedimentary tectonics and facies analysis in a rift setting: Cretaceous Dalmiapuram Formation, Cauvery Basin, SE India. *Journal of Palaeogeography* 7 (2), 146-167.
iii) Mandal, A., Koner, A., **Sarkar, S.**, Tawfik, H. A., **Chakraborty, N.**, Bhakta, S., Bose, P. K., 2016. Physico-chemical tuning of palaeogeographic shifts: Bhuj Formation, Kutch, India. *Journal of Marine and Petroleum Geology* 78, 474-492.

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This is to certify that Dr. Nivedita Chakraborty, Assistant Professor, Department of Geology, Kabi Jagadram Roy Government General Degree College, Mejia, Bankura is associated with me in collaborative geological field work in Cretaceous successions of Cauvery Basin, Tamil Nadu since 2010. We did geological field trip to different remote areas and open cast mines in and around Ariyalur during the month of July 2018 (10 days). This collaborative linkage is for academic and research purpose.

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Cretaceous Deposits of India: A Review



**Nivedita Chakraborty, Anudeb Mandal, R. Nagendra, Shilpa Srimani,
Santanu Banerjee, and Subir Sarkar**

Abstract India offers a graceful natural laboratory for time traveling to the Cretaceous world. The present chapter attempts a review of Cretaceous geology from India heading for its stance on evolution of basin, stratigraphy, sedimentation, climate, volcanism, relative sea level, biogeography and mass extinction. It was the era when India separated from the Gondwanaland next to the South Pole and initiated the longest passage in a northward direction. Tectonic spurt and reformation steered the geography of the island continent. Margins of the land got novel shape, new ocean and bays opened up, coastlines were formed and new sedimentary basins developed at the continental margins as well as in the interior part. Later, Gondwana sedimentation was ceased. Relative sea level (RSL) was set to fluctuate at a similar pace to global transgression and regression. Sediments were deposited on the east coast, west coast, and offshore basins in response to the rise in RSL during Albian, Turonian and Campanian. A Late Cretaceous transgression in central India came from the west. The maximum fossil foraminifer diversity was in the late Cenomanian/earliest Turonian and this time-interval is corresponding with the maximum sea-level recorded during the Mesozoic. Apparently, a warm temperate humid palaeoclimate prevailed with a tendency of increasing humidity at the end of the Cretaceous. The paleotemperature graph was higher in Late Cretaceous too. India witnessed three renowned volcanic episodes during this period: Rajmahal and Sylhet flood basalts in the eastern part and Deccan volcanism in the western sector. India perhaps retained the biotic link with

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7. Outcomes in terms of Research Publications: **Chakraborty, N., Mandal, A., Nagendra, R., Srimani, S., Banerjee, S., and Sarkar, S., 2021.** 'Cretaceous deposits of India: A review', in: Banerjee, S., and Sarkar, S. (eds.) *Mesozoic Stratigraphy of India* (Society of Earth Scientists Series), Springer, Chapter 2, 39-85p.

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Certificate of Collaborative Research

This is to certify that Dr. Nivedita Chakraborty, Assistant Professor at the Department of Geology, Kabi Jagadram Roy Government General Degree College, Mejia, Bankura, has been actively involved in a collaborative research project on Sedimentology and Stratigraphy of Cauvery Basin, southern India with the Department of Geology, Anna University, Chennai, since 2010. The research collaboration between these two esteemed institutions has been ongoing and has resulted in numerous publications in national and international journals. Additionally, efforts are underway to compile a comprehensive book on the Geology of the Cauvery Basin. The research interactions and intra-university collaboration have significantly contributed to the fields of sequence stratigraphy, sedimentary facies studies, and the promotion of students in Cretaceous field studies. Dr. Nivedita Chakraborty and researchers from both universities have effectively combined their expertise, resources, and efforts to complete the research project. Their collaboration has provided valuable insights and made noteworthy contributions to the understanding of Cretaceous sedimentary successions. The outcomes of this collaborative research endeavour have shed light on the correlation between outcrop and subcrop Cretaceous successions, enhancing the interpretation of seismic profiles and the refinement of litho- and biostratigraphy. We take great pleasure in acknowledging the exceptional work and dedication exhibited by Dr. Nivedita Chakraborty throughout this collaborative research initiative.

Dr. Nivedita Chakraborty's commitment to academic excellence and the pursuit of knowledge has been instrumental in the successful outcome of the collaborative project and subsequent research publications. This certificate serves as a testament to their outstanding teamwork, professionalism, and ability to work harmoniously across institutional boundaries. It recognizes its unwavering commitment to advancing scientific understanding and fostering academic collaboration. We firmly believe that the collaborative efforts will continue to yield significant advancements in the respective fields of research and inspire others to engage in fruitful collaborations. We express our sincere appreciation for Dr. Nivedita Chakraborty's contributions and extend our best wishes for continued success in their future endeavours.



July 14 2023



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Continental-to-Marine Transition in an Ongoing Rift Setting: Barremian-Turonian Sediments of Cauvery Basin, India



Nivedita Chakraborty, Subir Sarkar, and R. Nagendra

Abstract Study of Cretaceous (Barremian-Turonian) sediments within the Ariyalur-Pondicherry sub-basin, Cauvery Basin, India mirrors the deposition of fluvial-to-marine transition in a syn-rift setting during the Mesozoic breakup of east Gondwanaland. Within the investigated interval, fluvial Basal Siliciclastic Formation (Upper Gondwana equivalent), overlying the Archean Basement, is succeeded by the marine Dalmiapuram Formation (shallow water) and the Karai Shale Formation (offshore). However, both the marine formations demonstrate the lithocontact with the basement locally. Process-based sedimentary facies analysis identifies nine facies associations categorized in non-marine, shallow marine and deep marine super associations, cumulatively comprising forty sedimentary facies. Facies associations vary in its lithology, primary sedimentary structures, stratal geometry and pattern, paleocurrent direction, as well as in grain size and sorting. The present study reveals the depositional processes ensued across the environmental continuum of mountain front to the ocean. Basal Siliciclastic sediments are restricted in isolated outcrops, along the western margin of the basin. Within this formation, scree-alluvial fan and channel amalgamation are restricted at basin-margin while flood-plain governs in basin-interior. The depositional contextual shifted from continental to marine during Albian on the advent of marine transgression along the eastern passive margin of India. A carbonate (non-rimmed) ramp platform, evolving from homoclinal to distally steepened, shaped the pre-fall shelf by depositing carbonates (Dalmiapuram Formation) while, organic-rich glauconite, phosphate nodule bearing shale (Karai Shale Formation) settled in the basin center. The fluvial-to-marine transition surface records a sequence boundary with the overlying formations reflecting relative sea level change. Limestone to shale conversion is gradational in accord with

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CHAPTER

6

Physico-Chemical Characteristics
of the Barremian-Aptian Siliciclastic
Rocks in the Pondicherry Embryonic
Rift Sub-basin, India

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7. Outcomes in terms of Research Publications: i) **Chakraborty, N., Sarkar, S., Nagendra, R.,** 2021. Continental-to-marine transition in an ongoing rift setting: Barremian-Turonian sediments of Cauvery Basin, India, in: Banerjee, S., and Sarkar, S. (eds.) *Mesozoic Stratigraphy of India* (Society of Earth Scientists Series), Springer, Chapter 20, 587-622p.
ii) **Chakraborty, N., Sarkar, S., Mandal, A., Mejjama, W., Tawfik, H. A., Nagendra, R., Bose, P. K. and Eriksson, P. G.,** 2017. Physico-chemical Characteristics of the Barremian-Aptian Siliciclastic Rocks in the Pondicherry Embryonic Rift Sub-basin, India in: Mazumder, R. (ed.) *Sediment provenance: influences on compositional change from Source to Sink*, Elsevier, Chapter 6, 85-121p.

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