

## CRITERION 3 RESEARCH, INNOVATIONS AND EXTENSION SUPPORTING DOCUMENTS FOR

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





## **Summary report**

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: 27 (Twenty seven)

Year	2018-19	2019-20	2020-21	2021-22	2022-23	Total	
Number of MoU	13	04	0	04	02	23	
Collaboration	0	0	02	02	0	04	
Total							

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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 year: 27 (Twenty seven)

SI. No.	Name of the MoU / linkage	Name of the institution / industry with whom the MoU / linkage is made, with contact details	Year of signing MoU/ linkage	Purpose of the MoU/Linkage (internship, on-the-job training, project work, student / faculty exchange and collaborative research)	Duration of MoU / linkage	List the actual activities under each MOU/ Linkage and web -links year-wise				
	2018-19									
1	MoU, Academic collaboration	Mahishadal Raj College, Mahishadal, Dist-Purba Medinipur, PIN-721628, West Bengal, India	2019	i) Visits and formal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach. ii) Cooperate in Under Graduate & Post Graduate education and training through library as well as laboratory resources. iii) Organize joint conferences, webinar, symposia, or other scientific meetings on subjects of mutual interest. iv) Exchange of academic information and materials. v) Pursue avenue for under graduate and post graduate student exchange during the academic year, vi) Explore the possibilities for developing joint research programs and collaborations.	5 years	Special lecture, Visits and formal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach. Explore the possibilities for developing joint research programs and collaborations.				
2	MoU, Academic collaboration	Jhargram Raj College (Girls' Wings), Jhargram, PIN- 721507, West Bengal, India	2019	i) Visits and formal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach. ii) Cooperate in Under Graduate & Post Graduate education and training through library as well as laboratory resources. iii) Organize joint conferences, webinar, symposia, or other scientific meetings on subjects of mutual interest. iv) Exchange of academic information and materials. v) Pursue avenue for under graduate and post graduate student exchange during the academic year, vi) Explore the possibilities for developing joint research programs and collaborations.	5 years	Special lecture, Visits and formal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach. Explore the possibilities for developing joint research programs and collaborations.				
3	MoU, Academic collaboration	Government General Degree College, Salboni, P.O Bhimpur, Dist-Paschim Medinipur, PIN-721516, West Bengal, India	2019	i) Visits and formal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach. ii) Cooperate in Under Graduate & Post Graduate education and training through library as well as laboratory resources. iii) Organize joint conferences, webinar, symposia, or other scientific meetings on subjects of mutual interest. iv) Exchange of academic information and materials. v) Pursue avenue for under graduate and post graduate student exchange during the academic year, vi) Explore the possibilities for developing joint research programs and collaborations.	5 years	Special lecture, Visits and formal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach. Explore the possibilities for developing joint research programs and collaborations.				
4	MoU, Academic collaboration	Government General Degree College, Lalgarh, Dist- Jhargram, PIN-721516, West Bengal, India	2019	i) Visits and formal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach. ii) Cooperate in Under Graduate & Post Graduate education and training through library as well as laboratory resources. iii) Organize joint conferences, webinar, symposia, or other scientific meetings on subjects of mutual interest. iv) Exchange of academic information and materials. v) Pursue avenue for under graduate and post graduate student exchange during the academic year, vi) Explore the possibilities for developing joint research programs and collaborations.	4 years	Special lecture, Visits and formal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach. Explore the possibilities for developing joint research programs and collaborations.				
5	MoU, Academic collaboration	Government General Degree College, Manbazar-II, Susunia, P.OKumari, P.S Boro, PIN-723131, West Bengal, India	2019	i) Visits and formal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach. ii) Cooperate in Under Graduate & Post Graduate education and training through library as well as laboratory resources. iii) Organize joint conferences, webinar, symposia, or other scientific meetings on subjects of mutual interest. iv) Exchange of academic information and materials. v) Pursue avenue for under graduate and post graduate student exchange during the academic year, vi) Explore the possibilities for developing joint research programs and collaborations.	5 years	Special lecture, Visits and formal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach. Explore the possibilities for developing joint research programs and collaborations.				





SI. No.	Name of the MoU / linkage	Name of the institution / industry with whom the MoU / linkage is made, with contact details	Year of signing MoU / linkage	Purpose of the MoU/Linkage (internship, on-the-job training, project work, student / faculty exchange and collaborative research)	Duration of MoU / linkage	List the actual activities under each MOU/ Linkage and web -links year-wise
6	MoU, Academic collaboration	Silda Chandra Sekhar College, Silda, Jhargram, PIN-721515, West Bengal, India	2019	<ul> <li>i) Visits and formal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach. ii) Cooperate in Under Graduate &amp; Post Graduate education and training through library as well as laboratory resources. iii) Organize joint conferences, webinar, symposia, or other scientific meetings on subjects of mutual interest. iv) Exchange of academic information and materials. v) Pursue avenue for under graduate and post graduate student exchange during the academic year, vi) Explore the possibilities for developing joint research programs and collaborations.</li> </ul>	5 years	Special lecture, Visits and formal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach. Explore the possibilities for developing joint research programs and collaborations.
7	MoU, Academic collaboration	Government General Degree College, Narayangarh, Rathipur, Dist-Paschim Medinipur, PIN-721437, West Bengal, India	2019	i) Visits and formal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach. ii) Cooperate in Under Graduate & Post Graduate education and training through library as well as laboratory resources. iii) Organize joint conferences, webinar, symposia, or other scientific meetings on subjects of mutual interest. iv) Exchange of academic information and materials. v) Pursue avenue for under graduate and post graduate student exchange during the academic year, vi) Explore the possibilities for developing joint research programs and collaborations.	5 years	Special lecture, Visits and formal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach. Explore the possibilities for developing joint research programs and collaborations.
8	MoU, Academic collaboration	Government General Degree College, Datan II, Kashmuli, Dist-Paschim Medinipur, PIN-721445, West Bengal, India	2019	i) Visits and formal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach. ii) Cooperate in Under Graduate & Post Graduate education and training through library as well as laboratory resources. iii) Organize joint conferences, webinar, symposia, or other scientific meetings on subjects of mutual interest. iv) Exchange of academic information and materials. v) Pursue avenue for under graduate and post graduate student exchange during the academic year, vi) Explore the possibilities for developing joint research programs and collaborations.	5 years	Special lecture, Visits and formal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach. Explore the possibilities for developing joint research programs and collaborations.
9	MoU, Academic collaboration	Government General Degree College, Kharagpur II, Madpur, Dist-Paschim Medinipur, PIN-721149, West Bengal, India	2019	i) Visits and formal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach. ii) Cooperate in Under Graduate & Post Graduate education and training through library as well as laboratory resources. iii) Organize joint conferences, webinar, symposia, or other scientific meetings on subjects of mutual interest. iv) Exchange of academic information and materials. v) Pursue avenue for under graduate and post graduate student exchange during the academic year, vi) Explore the possibilities for developing joint research programs and collaborations.	5 years	Special lecture, Visits and formal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach. Explore the possibilities for developing joint research programs and collaborations.
10	MoU, Academic collaboration	Vivekananda Satavarshiki Mahavidyalaya, Manikpara, Jhargram 721513, West Bengal, India	2019	i) Visits and formal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach. ii) Cooperate in Under Graduate & Post Graduate education and training through library as well as laboratory resources. iii) Organize joint conferences, webinar, symposia, or other scientific meetings on subjects of mutual interest. iv) Exchange of academic information and materials. v) Pursue avenue for under graduate and post graduate student exchange during the academic year, vi) Explore the possibilities for developing joint research programs and collaborations.	5 years	Special lecture, Visits and formal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach. Explore the possibilities for developing joint research programs and collaborations.





SI. No.	Name of the MoU / linkage	Name of the institution / industry with whom the MoU / linkage is made, with contact details	Year of signing MoU / linkage	Purpose of the MoU/Linkage (internship, on-the-job training, project work, student / faculty exchange and collaborative research)	Duration of MoU / linkage	List the actual activities under each MOU/ Linkage and web -links year-wise
11	MoU, Academic collaboration	Sankrail A.B.S. Mahavidyalaya, Jhargram, PIN-721135, West Bengal, India	2019	<ul> <li>i) Visits and formal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach. ii) Cooperate in Under Graduate &amp; Post Graduate education and training through library as well as laboratory resources. iii) Organize joint conferences, webinar, symposia, or other scientific meetings on subjects of mutual interest. iv) Exchange of academic information and materials. v) Pursue avenue for under graduate and post graduate student exchange during the academic year, vi) Explore the possibilities for developing joint research programs and collaborations.</li> </ul>	5 years	Special lecture, Visits and formal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach. Explore the possibilities for developing joint research programs and collaborations.
12	MoU, Academic collaboration	Government General Degree College Keshiary, Dist- Paschim Medinipur, PIN- 721135, West Bengal, India	2019	i) Visits and formal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach. ii) Cooperate in Under Graduate & Post Graduate education and training through library as well as laboratory resources. iii) Organize joint conferences, webinar, symposia, or other scientific meetings on subjects of mutual interest. iv) Exchange of academic information and materials. v) Pursue avenue for under graduate and post graduate student exchange during the academic year, vi) Explore the possibilities for developing joint research programs and collaborations.	5 years	Special lecture, Visits and formal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach. Explore the possibilities for developing joint research programs and collaborations.
13	MoU, Academic collaboration	Hijli College, Dist-Paschim Medinipur, PIN-721306, West Bengal, India	2019	<ul> <li>i) Visits and formal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach. ii) Cooperate in Under Graduate &amp; Post Graduate education and training through library as well as laboratory resources. iii) Organize joint conferences, webinar, symposia, or other scientific meetings on subjects of mutual interest. iv) Exchange of academic information and materials. v) Pursue avenue for under graduate and post graduate student exchange during the academic year, vi) Explore the possibilities for developing joint research programs and collaborations.</li> </ul>	5 years	Special lecture, Visits and formal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach. Explore the possibilities for developing joint research programs and collaborations.
				2019-20		
14	MoU, Academic collaboration	Egra Sarada Shashi Bhusan College, Egra, Dist-Purba Medinipur, PIN-721429, West Bengal, India	2019	i) Visits and formal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach. ii) Cooperate in Under Graduate & Post Graduate education and training through library as well as laboratory resources. iii) Organize joint conferences, webinar, symposia, or other scientific meetings on subjects of mutual interest. iv) Exchange of academic information and materials. v) Pursue avenue for under graduate and post graduate student exchange during the academic year, vi) Explore the possibilities for developing joint research programs and collaborations.	5 years	Special lecture, Visits and formal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach. Explore the possibilities for developing joint research programs and collaborations.
15	MoU, Academic collaboration	Government General Degree College, Gopiballavpur II, Dist-Jhargram, PIN-721517, West Bengal, India	2019	i) Visits and formal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach. ii) Cooperate in Under Graduate & Post Graduate education and training through library as well as laboratory resources. iii) Organize joint conferences, webinar, symposia, or other scientific meetings on subjects of mutual interest. iv) Exchange of academic information and materials. v) Pursue avenue for under graduate and post graduate student exchange during the academic year, vi) Explore the possibilities for developing joint research programs and collaborations.	4 years	Special lecture, Visits and formal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach. Explore the possibilities for developing joint research programs and collaborations.





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16	MoU, Academic collaboration	Nayagram Pandit Raghunath Murmu Government College, Baligeria, Dist-Jhargram, PIN-721125, West Bengal, India	vernment College, , Dist-Jhargram, 25, West Bengal, 2019 as well as laboratory resources. iii) Organize joint conferences, webinar, symposia, or other scientific meetings on subjects of mutual interest. iv) Exchange of academic information and materials. v) Pursue avenue for		4 years	Special lecture, Visits and formal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach. Explore the possibilities for developing joint research programs and collaborations.
17	MoU, Academic collaboration	Garhbeta College, Garhbeta, Dist-Paschim Medinipur, PIN-721101, West Bengal, India	2020	i) Visits and formal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach. ii) Cooperate in Under Graduate & Post Graduate education and training through library as well as laboratory resources. iii) Organize joint conferences, webinar, symposia, or other scientific meetings on subjects of mutual interest. iv) Exchange of academic information and materials. v) Pursue avenue for under graduate and post graduate student exchange during the academic year, vi) Explore the possibilities for developing joint research programs and collaborations.	4 years	Special lecture, Visits and formal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach. Explore the possibilities for developing joint research programs and collaborations.
				2021-22		
18	MoU, Academic collaboration	Gourav Guin Memorial College, Satbankura, Dist- Paschim Medinipur, PIN- 721253, West Bengal, India	2022	i) Visits and formal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach. ii) Cooperate in Under Graduate & Post Graduate education and training through library as well as laboratory resources. iii) Organize joint conferences, webinar, symposia, or other scientific meetings on subjects of mutual interest. iv) Exchange of academic information and materials. v) Pursue avenue for under graduate and post graduate student exchange during the academic year, vi) Explore the possibilities for developing joint research programs and collaborations.	5 years	Special lecture, Visits and formal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach. Explore the possibilities for developing joint research programs and collaborations.
19	MoU, Academic collaboration	Chandrakona Vidyasagar Mahavidyalaya, Chandrakona, Dist-Paschim Medinipur, PIN-721201, West Bengal, India	2022	i) Visits and formal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach. ii) Cooperate in Under Graduate & Post Graduate education and training through library as well as laboratory resources. iii) Organize joint conferences, webinar, symposia, or other scientific meetings on subjects of mutual interest. iv) Exchange of academic information and materials. v) Pursue avenue for under graduate and post graduate student exchange during the academic year, vi) Explore the possibilities for developing joint research programs and collaborations.	5 years	Special lecture, Visits and formal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach. Explore the possibilities for developing joint research programs and collaborations.
20	MoU, Academic collaboration	Sahid Matangini Hazra Governmet College for Women, Tamluk, Dist-Purba Medinipur, PIN-721649, West Bengal, India	2022	i) Visits and formal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach. ii) Cooperate in Under Graduate & Post Graduate education and training through library as well as laboratory resources. iii) Organize joint conferences, webinar, symposia, or other scientific meetings on subjects of mutual interest. iv) Exchange of academic information and materials. v) Pursue avenue for under graduate and post graduate student exchange during the academic year, vi) Explore the possibilities for developing joint research programs and collaborations.	5 years	Special lecture, Visits and formal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach. Explore the possibilities for developing joint research programs and collaborations.





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21	MoU, Academic collaboration	Sevayatan Sikshan Mahavidyalaya, Sevayatan, Jhargram, PIN-721514, West Bengal, India	2022	i) Visits and formal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach. ii) Cooperate in Under Graduate & Post Graduate education and training through library as well as laboratory resources. iii) Organize joint conferences, webinar, symposia, or other scientific meetings on subjects of mutual interest. iv) Exchange of academic information and materials. v) Pursue avenue for under graduate and post graduate student exchange during the academic year, vi) Explore the possibilities for developing joint research programs and collaborations.	4 years	Special lecture, Visits and formal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach. Explore the possibilities for developing joint research programs and collaborations.
	I			2022-23	I	
22	MoU, Academic collaboration	Kharagpur College, Kharagpur, Dist-Paschim Medinipur, PIN-721305, West Bengal, India	2022	<ul> <li>i) Visits and formal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach. ii) Cooperate in Under Graduate &amp; Post Graduate education and training through library as well as laboratory resources. iii) Organize joint conferences, webinar, symposia, or other scientific meetings on subjects of mutual interest. iv) Exchange of academic information and materials. v) Pursue avenue for under graduate and post graduate student exchange during the academic year, vi) Explore the possibilities for developing joint research programs and collaborations.</li> </ul>	5 years	Special lecture, Visits and formal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach. Explore the possibilities for developing joint research programs and collaborations.
23	MoU, Academic collaboration	Haldia Government College, Haldia, Dist-Purba Medinipur, PIN -722657, West Bengal, India	2022	i) Visits and formal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach. ii) Cooperate in Under Graduate & Post Graduate education and training through library as well as laboratory resources. iii) Organize joint conferences, webinar, symposia, or other scientific meetings on subjects of mutual interest. iv) Exchange of academic information and materials. v) Pursue avenue for under graduate and post graduate student exchange during the academic year, vi) Explore the possibilities for developing joint research programs and collaborations.	5 years	Special lecture, Visits and formal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach. Explore the possibilities for developing joint research programs and collaborations.
				Collaboration		
24	Collaboration	College, Datan II, Kashmuli, Dist-Paschim Medinipur, PIN-721445, West Bengal,	2020	Research collaboration	Continuing	Collaborative research work (Chemistry)
25	Collaboration	Haldia Government College, Haldia, Dist-Purba Medinipur, PIN -722657, West Bengal, India Government General Degree	2020	Research collaboration	Continuing	Collaborative research work (Chemistry)
26	Collaboration	College, Kharagpur II, Madpur, Dist-Paschim Medinipur, PIN-721149, Wort Paper Ludio	2021	Research collaboration	Continuing	Collaborative research work (Chemistry)
27	Collaboration	Tezpur University, Napaam, Assam 784028, India	2021	Research collaboration	Continuing	Collaborative research work (Chemistry)











# Mahishadal Raj College

Sl. No.	Name of the MoU / linkage	Name of the institution / industry with whom the MoU / linkage is made, with contact details	Year of signing MoU / linkage	Purpose of the MoU/Linkage (internship, on-the- job training, project work, student / faculty exchange and collaborative research)	Duration of MoU / linkage
1	MoU, Academic collaboration	Mahishadal Raj College, Mahishadal, Dist-Purba Medinipur, PIN-721628, West Bengal, India	2019	<ul> <li>i) Visits and formal exchanges of faculty, scholars and</li> <li>administrators in specific areas of education,</li> <li>research and outreach. ii) Cooperate in Under</li> <li>Graduate &amp; Post Graduate</li> <li>education and training</li> <li>through library as well as</li> <li>laboratory resources. iii)</li> <li>Organize joint</li> <li>conferences, webinar,</li> <li>symposia, or other</li> <li>scientific meetings on</li> <li>subjects of mutual</li> <li>interest. iv) Exchange of</li> <li>academic information and</li> <li>materials. v) Pursue</li> <li>avenue for under graduate</li> <li>and post graduate student</li> <li>exchange during the</li> <li>academic year, vi)</li> <li>Explore the possibilities</li> <li>for developing joint</li> <li>research programs and</li> <li>collaborations.</li> </ul>	5 years







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Office of The Principal Jhargram Raj College Govt. of West Bengal P.O. & Dist.- Jhargram, Pin – 721 507

#### MEMORANDUM OF UNDERSTANDING

#### BETWEEN

Jhargram Raj College, a reputed academic higher education institution, established in 1949, located at Jhargram, West Bengal, India, PIN 721507, as the FIRST PARTY;

#### AND

Mahishadal Raj College a reputed academic higher education institution, established in 1946, located at Gar Kamalpur, Mahishadal, Purba Medinipur, West Bengal, India, PIN-721628 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 nonbinding 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 & Post Graduate education and training through library 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.
- Pursue avenues for under graduate and post 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.

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Tel No.- 03221-255022/ 258700 Website: https://jrc.ac.in Email: jhargramrajcollege@gmail.com

Office of The Principal Jhargram Raj College Govt. of West Bengal P.O. & Dist.- Jhargram, Pin - 721 507

#### 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 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 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 seal on this the 21st day of February, 2019.

Name

Address

Signed by 1st Party Dr Debnarayan Roy Officer - in - Charge Jhargram Raj College OFFICER - IN - CHARGE JHARGRAM RAJ COLLEGE

Signature of Witness:

	Rochul Kumar Dotta : Dr Rahul Kumar Datta
Name	: Dr Rahul Kumar Datta
Designation	: Associate Professor & Head Dept. of Zoology (UG & PG)
Address	: Jhargram Raj College, Jhargram
	Haad
	Department of Zoology
	Ibargram Rai College

Govt. of West Bengal

Signed by 2<sup>nd</sup>Party

Dr. Asim Kumar Bera Principal Mahishadal Raj College



Principal MAHISHADAL RAJ COLLEGE

Signature of Witness:

: Dr. Subikash M okherjee : Associate Professor Designation Dept. of Economics

: Mahishadal Raj College

DEAD Department of Economice MAHISHADAL RAJ COLLEGE





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### GOVERNMENT OF WEST BENGAL OFFICE OF THE PRINCIPAL JHARGRAM RAJ COLLEGE, JHARGRAM, WEST BENGAL 721507 PHONE: 03221-255022 P. O.: JHARGRAM DIST.: JHARGRAM Website: https://jrc.ac.in



## MAHISHADAL RAJ COLLEGE

(Govt. Sponsored)

NAAC Accredited 'A' Grade College DST (FIST) Govt. Of India approved College, NSDC Training Partner Estd. : 1946

Mahishadal : Purba Medinipur

Phone STD 03224 No. 240220

Date: 29.11.2022

Ref. No. FE/JRC-MR/1/22

# MUTUAL ACTIVITIES CONDUCTED UNDER MOU

(Faculty Exchange)

Colleges involved under MoU: Jhargarm Raj College & Mahishadal Raj College.

We do hereby declare the following activities have been conducted as per the MoU signed between the two colleges.

Si. No.	Dates of Activities	Nature of activity	Recourse person	Conducted at	Beneficiary
			Session 2022-23		
1	07.09.2022, 13.09.2022,	Special Lecture	Sri Tapas Hdaldar Assistant Professor of Chemistry Jhargram Raj College	Mahishadal Raj College	Students of B.Sc. UG Sem- V, Mahishadal Raj CoLege
2.	21.11.2022, 29.11.2022	Special Lecture	Smt. Poulomi Chakraborty Assistant Professor of Philosophy Jhargram Raj College	Mahishadal Raj College	Students of Philosophy UG Sem-III, Mahishadal Raj College

SM

29.11.2022 IGAC COORDINATOR MAHISHADAL RAJ COLLEGE.



Principal Mahishadal Raj Ćcllege Teacher-in-Charge MAHISHADAL RAJ COLLEGE





# Jhargram Raj College (Girls' Wings)

SI. No.	Name of the MoU / linkage	Name of the institution / industry with whom the MoU / linkage is made, with contact details	Year of signing MoU / linkage	Purpose of the MoU/Linkage (internship, on-the- job training, project work, student / faculty exchange and collaborative research)	Duration of MoU / linkage
2	MoU, Academic collaboration	Jhargram Raj College (Girls' Wings), Jhargram, PIN-721507, West Bengal, India	2019	<ul> <li>i) Visits and formal exchanges of faculty, scholars and</li> <li>administrators in specific areas of education, research and outreach. ii) Cooperate in Under</li> <li>Graduate &amp; Post Graduate</li> <li>education and training</li> <li>through library as well as</li> <li>laboratory resources. iii)</li> <li>Organize joint</li> <li>conferences, webinar, symposia, or other</li> <li>scientific meetings on</li> <li>subjects of mutual</li> <li>interest. iv) Exchange of</li> <li>academic information and</li> <li>materials. v) Pursue</li> <li>avenue for under graduate</li> <li>and post graduate student</li> <li>exchange during the</li> <li>academic year, vi)</li> <li>Explore the possibilities</li> <li>for developing joint</li> <li>research programs and</li> <li>collaborations.</li> </ul>	5 years





a.

### **GOVERNMENT OF WEST BENGAL OFFICE OF THE PRINCIPAL** JHARGRAM RAJ COLLEGE, JHARGRAM, WEST BENGAL 721507 PHONE: 03221-255022 P. O.: JHARGRAM DIST.: JHARGRAM Website: https://jrc.ac.in



Tel No.- 03221-255022/ 258700 Website: https://jrc.ac.in Email: jhargramrajcollege@gmail.com

**Office of The Principal** Jhargram Raj College **Govt. of West Bengal** P.O. & Dist.- Jhargram, Pin – 721 507

#### MEMORANDUM OF UNDERSTANDING

#### BETWEEN

Jhargram Raj College, a reputed academic higher education institution, established in 1949, located at Jhargram, West Bengal, India, PIN 721507, as the FIRST PARTY;

#### AND

Jhargram Raj College (Girls' Wing), a reputed academic higher education institution, established in 2014, located at Jhargram, West Bengal, India, PIN 721507 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:

#### **Objectives, Scope, and Major Activities** 1.

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 & Post Graduate education and training through library 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.
- Pursue avenues for under graduate and post graduate student exchange during the academic year.
- Explore the possibilities for developing joint research programs and collaborations.

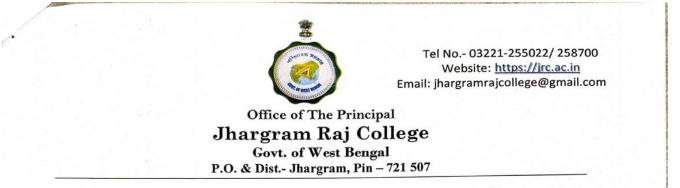
### **Responsibilities of the Institutions**

2. 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

Principal Jhargram Raj Cellege





#### Duration and Option to Amend, Extend or Terminate 3.

This MoU will become effective when signed by authorities of both institutions. The agreement will remain in effect for 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.

#### **General Terms** 4.

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.

#### Signatures 5.

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 seal on this the 14th day of March, 2019.

Signed by 1<sup>st</sup> Party

03

Dr Debnarayan Roy Officer - in - Charge Jhargram Raj College

OFFICER - IN - CHARGE JHARGRAM RAJ COLLEGE Signed by 2<sup>nd</sup>Party

14/03/2019

Susil Kumar Barman Officer - in - Charge Jhargram Raj College (Girls' Wing)

Officer-in-Charge hargram Raj College (Girls' Wing (Govt. of West Bengal) Jhargram-721507

Signature of Witness:

(umara Satta

Signature of Witness:

Ques 14.3.2019

: Dr Rahul Kumar Datta Name Designation : Associate Professor & Head Dept. of Zoology (UG & PG) Address Head

Department of Zoology Jhargram Raj College Govt. of West Bengal

Name : Pampa Hembram Designation : Assistant Professor Dept. of Bengali : Jhargram Raj College, Jhargram Address: Jhargram Raj College (Girls' Wing)

PAMPA HEMBRAM ASSISTANT PROFESSOR (W.B.E.S.) HOD, DEPARTMENT OF BENGALI RGRAM RAJ COLLEGE (GIRLS' WIN JHARGRAM, 721507 GOVT. OF WEST BENGAL WING)







GOVERNMENT OF WEST BENGAL Office of the Principal Jhargram Raj College (Girls' Wing) P.O.- Jhargram :: Dist-Jhargram :: PIN-721507 :: Ph: 03221299907

Date: 06.05.2023

# MUTUAL ACTIVITIES CONDUCTED UNDER MOU

(Faculty Exchange)

Colleges involved under MoU: Jhargarm Raj College and Jhargram Raj College (Girls' Wing)

I do hereby declare that the following activities have been conducted as per the MoU signed between the two colleges.

Si. No.	Dates of Activities	Nature of activity	Recourse person	Conducted at	Beneficiary
			Session 2022-23		
1	31.03.2023, 03.05.2023,	Special Lecture	Smt. Priyanka Mukhopadhyay Basu Assistant Professor of English Jhargram Raj College	Jhargram Raj College (Girls' Wing)	Students of English UG Sem-VI, Jhargram Raj College (Girls' Wing)
2.	06.04.2023, 11.04.2023	Special Lecture	Smt. Srijita Saha Assistant Professor of English Jhargram Raj College	Jhargram Raj College (Girls' Wing)	Students of English UG Sem-VI, Jhargram Raj College (Girls' Wing)

Officer-in-Charge Jhargram Raj College (Girls' Wing)

Officer-in-Charge Jhargram Raj College (Girls' Wing (Govt. of West Bengal) Jhargram-721507





Government General Degree College, Salboni

SI. No.	Name of the MoU / linkage	Name of the institution / industry with whom the MoU / linkage is made, with contact details	Year of signing MoU / linkage	Purpose of the MoU/Linkage (internship, on-the- job training, project work, student / faculty exchange and collaborative research)	Duration of MoU / linkage
3	MoU, Academic collaboration	Government General Degree College, Salboni, P.OBhimpur, Dist-Paschim Medinipur, PIN- 721516, West Bengal, India	2019	<ul> <li>i) Visits and formal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach. ii) Cooperate in Under Graduate &amp; Post Graduate education and training through library as well as laboratory resources. iii) Organize joint conferences, webinar, symposia, or other scientific meetings on subjects of mutual interest. iv) Exchange of academic information and materials. v) Pursue avenue for under graduate and post graduate student exchange during the academic year, vi) Explore the possibilities for developing joint research programs and collaborations.</li> </ul>	5 years







Tel No.- 03221-255022/ 258700 Website: <u>https://jrc.ac.in</u> Email: jhargramrajcollege@gmail.com

Office of The Principal Jhargram Raj College Govt. of West Bengal P.O. & Dist.- Jhargram, Pin – 721 507

### MEMORANDUM OF UNDERSTANDING

#### BETWEEN

Jhargram Raj College, a reputed academic higher education institution, established in 1949, located at Jhargram, West Bengal, India, PIN 721507, as the FIRST PARTY;

#### AND

Govt. General Degree College, Salboni, a reputed academic higher education institution, established in 2014, located at Koyma, P.O.- Bhimpur, Paschim Medinipur, PIN - 721516 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 nonbinding 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 & Post Graduate education and training through library 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.
- Pursue avenues for under graduate and post 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







Tel No.- 03221-255022/ 258700 Website: <u>https://jrc.ac.in</u> Email: jhargramrajcollege@gmail.com

Office of The Principal Jhargram Raj College Govt. of West Bengal P.O. & Dist.- Jhargram, Pin – 721 507

#### 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 **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 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 seal on this the 15<sup>th</sup> day of March, 2019.

Signed by 1st Party

Dr. Debnarayan Roy Officer-in-Charge Jhargram Raj College

OFFICER - IN - CHARGE JHARGRAM RAJ COLLEGE

Signature of Witness:

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Name : Dr. Rahul Kumar Datta Designation : Associate Professor & Head, Department of Zoology Address: Jhargram Raj College, Jhargram

DR. RAHUL KUMAR DATTA WBES Associate Professor of Zoology JHARGRAM RAJ COLLEGE Jhargram 721 507 Govt. of West Bengal Signed by 2<sup>nd</sup>Part

Dr. Shantanu Dhar

Officer-in-Charge Govt. General Degree College, Salboni

OFFICER-IN-CHARGE Govt. General Degree College, Salboni

Signature of Witness:

Name : Dr. Shib Shankar Dash Designation : Coordinator, IQAC Co-ordinator IQAC Address : Govt. General Degree College, Salbom





### GOVERNMENT GENERAL DEGREE COLLEGE SALBONI GOVERNMENT OF WEST BENGAL

Office of the Principal DIST. PASCHIM MEDINIPUR

P.O. BHIMPUR

Memo No-

### Date: 15/12/2022

### MUTUAL ACTIVITIES CONDUCTED UNDER MOU

(Faculty Exchange)

Colleges involved under MoU: Jhargarm Raj College & Govt. General Degree College, Salboni

We do hereby declare the following activities have been conducted as per the MoU signed between the two colleges.

Si. No.	Dates of Activities	Nature of activity	Recourse person	Conducted at	Beneficiary
			Session 2022-23		
1	07.12.2022, 14.12.2022,	Special Lecture	Dr. Ushasi Dutta Assistant Professor of Physics Jhargram Raj College	GGDC Salboni	Students of Physics UG Sem-III, GGDC Salboni
2.	02.12.2022, 09.12.2022	Special Lecture	Sri Utsav Roy Assistant Professor of Philosophy Jhargram Raj College	GGDC Salboni	Students of Philosophy UG Sem-III, GGDC Salboni

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Govt General Degree College Salbon Officer -In-Charge Government General Degree College Salboni (Dr. SHANTANU DHAR)





Government General Degree College, Lalgarh

Sl. No.	Name of the MoU / linkage	Name of the institution / industry with whom the MoU / linkage is made, with contact details	Year of signing MoU / linkage	Purpose of the MoU/Linkage (internship, on-the- job training, project work, student / faculty exchange and collaborative research)	Duration of MoU / linkage
4	MoU, Academic collaboration	Government General Degree College, Lalgarh, Dist-Jhargram, PIN-721516, West Bengal, India	2019	<ul> <li>i) Visits and formal exchanges of faculty, scholars and</li> <li>administrators in specific areas of education, research and outreach. ii) Cooperate in Under</li> <li>Graduate &amp; Post Graduate education and training through library as well as laboratory resources. iii) Organize joint conferences, webinar, symposia, or other scientific meetings on subjects of mutual interest. iv) Exchange of academic information and materials. v) Pursue avenue for under graduate and post graduate student exchange during the academic year, vi)</li> <li>Explore the possibilities for developing joint research programs and collaborations.</li> </ul>	4 years





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### GOVERNMENT OF WEST BENGAL OFFICE OF THE PRINCIPAL JHARGRAM RAJ COLLEGE, JHARGRAM, WEST BENGAL 721507 PHONE: 03221-255022 P. O.: JHARGRAM DIST.: JHARGRAM Website: https://jrc.ac.in



Tel No.- 03221-255022/ 258700 Website: <u>https://irc.ac.in</u> Email: jhargramrajcollege@gmail.com

Office of The Principal Jhargram Raj College Govt. of West Bengal P.O. & Dist.- Jhargram, Pin – 721 507

#### MEMORANDUM OF UNDERSTANDING

#### BETWEEN

Jhargram Raj College, a reputed academic higher education institution, established in 1949, located at Jhargram, West Bengal, India, PIN 721507, as the FIRST PARTY;

#### AND

Govt. General Degree College, Lalgarh, a reputed academic higher education institution, established in 2014, located at P.O.- Lalgarh, Jhargram, PIN - 721516 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 nonbinding 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 & Post Graduate education and training through library 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.
- Pursue avenues for under graduate and post 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

Principal Jhargram Raj College





Tel No.- 03221-255022/ 258700 Website: https://jrc.ac.in Email: jhargramrajcollege@gmail.com

Office of The Principal Jhargram Raj College Govt. of West Bengal P.O. & Dist.- Jhargram, Pin - 721 507

### 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 four 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 seal on this the 24<sup>th</sup> day of August, 2019.

Signed by 1st Party

Dr. Debnaravan Roy Officer-in-Charge Jhargram Raj College

OFFICER - IN - CHARGE JHARGRAM RAJ COLLEGE

Signature of Witness:

umar Dalla : Dr. Rahul Kumar Datta

Name Designation

: Associate Professor & Head, Department of Zoology Address: Jhargram Raj College, Jhargram

DR. RAHUL KUMAR DATTA WBES Associate Professor of Zoology JHARGRAM RAJ COLLEGE Jhargram 721 507 Govt. of West Bengal

Signed by 2<sup>nd</sup>Party

KolSwedwar Charkrabo Dr. Bisweswar Chakraborty 24/08 1019 Officer-in-Charge Govt. General Degree College, Lalgarh Officer - In - Charge Govt. General Degree College, Laigart Leigerh, Jhargram, 721518

Signature of Witness:

Cabrata 108/19

: Dr. Debabrata Das Name : Coordinator, IQAC Designation

Address : Govt. General Degree College, Salboni

Co-ordinator IQAC Govt. Ger. Degree College Lalgarh







GOVERNMENT OF WEST BENGAL LALGARH GOVERNMENT COLLEGE Office of the Principal

P.O.: LALGARH: DIST.: JHARGRAM: e-mail:principal@lalgarhgovtcollege.org: Mob. No.:9474756866

### MUTUAL ACTIVITIES CONDUCTED UNDER MOU

(Faculty Exchange)

Colleges involved under MoU: Jhargarm Raj College &Govt. General Degree College, Lalgarh

We do hereby declare the following activities have been conducted as per the MoU signed between the two colleges.

Si. No.	Dates of Activities	Nature of activity	Recourse person	Conducted at	Beneficiary
		S	ession 2022-23		
1	25 <sup>th</sup> November, 2022	Invited Lecture, Title of his presentation was "Full spectrum analysis of some bioactive natural products isolated from <i>Curcuma</i> ".	Dr. Arghya Ghosh, Assistant Professor (S- II), Department of Botany, Jhargram Raj College, Jhargram, W.B.	Dept. of Botany, GGDC Lalgarh (at College Seminar room of Botany Department, GGDC Lalgarh, Jhargram)	Two days National Level Conference (Blended mode) on 'Ethno biology Knowledge and Biodiversity Conservation' on 25 <sup>th</sup> and 26 <sup>th</sup> November, 2022. Students and teachers even local people.





2.	30.07.2022	Special Lecture: An Introduction to Ecosystem	Md vShariful Islam, Assistant Professor of Zoology, Dept. of Zoology, Jhargram Raj College, Jhargram, W.B.	IQAC, GGDC Lalgarh, Jhargram	Students of EVS, GGDC Lalgarh
3.	31.03.2023	Special Lecture: Immunology	Dr. Nivedita Bhattacharyya, Assistant Professor of Physiology, Jhargram Raj College, W.B.	GGDC Lalgarh	Students of B.Sc (G)UG Sem-IV, GGDC Lalgarh

Bi Sweway Chakaber Officer-in-Charge 0/04 GGDC Lalgarh, Jhargram Officer - in - Charge Govt. General Degree College, Leigarh Lalgarh, Jhargram, 721516





Government General Degree College, Manbazar II

Sl. No.	Name of the MoU / linkage	Name of the institution / industry with whom the MoU / linkage is made, with contact details	Year of signing MoU / linkage	Purpose of the MoU/Linkage (internship, on-the- job training, project work, student / faculty exchange and collaborative research)	Duration of MoU / linkage
5	MoU, Academic collaboration	Government General Degree College, Manbazar-II, Susunia, P.OKumari, P.SBoro, PIN- 723131, West Bengal, India	2019	<ul> <li>i) Visits and formal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach. ii) Cooperate in Under Graduate &amp; Post Graduate education and training through library as well as laboratory resources. iii) Organize joint conferences, webinar, symposia, or other scientific meetings on subjects of mutual interest. iv) Exchange of academic information and materials. v) Pursue avenue for under graduate and post graduate student exchange during the academic year, vi) Explore the possibilities for developing joint research programs and collaborations.</li> </ul>	5 years







Tel No.- 03221-255022/ 258700 Website: <u>https://jrc.ac.in</u> Email: jhargramrajcollege@gmail.com

Office of The Principal Jhargram Raj College Govt. of West Bengal P.O. & Dist.- Jhargram, Pin – 721 507

#### MEMORANDUM OF UNDERSTANDING

#### BETWEEN

Jhargram Raj College, a reputed academic higher education institution, established in 1949, located at Jhargram, West Bengal, India, PIN 721507, as the FIRST PARTY;

#### AND

Govt. General Degree College, Manbazar-II, a reputed academic higher education institution, established in 2015, located at Susunia, P.O.-Kumari, P.S. Boro, Purulia, PIN - 723131 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 nonbinding 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 & Post Graduate education and training through library 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.
- Pursue avenues for under graduate and post 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.

Principal Jhargram Raj College



Continued to Page-2 Tel No.- 03221-255022/ 258700 Website: https://jrc.ac.in Email: jhargramrajcollege@gmail.com Office of The Principal Jhargram Raj College Govt. of West Bengal P.O. & Dist.- Jhargram, Pin - 721 507 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 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 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 seal on this the 18th day of March, 2019.

Signed by 1st Party Signed by Dr. Abhijit Dr. Debnarayan Roy Officer-in-Charge Officer-in-Charge Govt. General Degree College, Manbazar-II Govt. General Degree College Manbazar-II Şusunia, Kumari, Purulia Jhargram Raj College OFFICER - IN - CHARGE JHARGRAM RAJ COLLEGE Signature of Witness: ignature of Witness: n : Dr. Kalyan Chatterjee Dr. Rahul Kumar Datta Name Name : Coordinator, IQAC Designation : Associate Professor & Head, Designation Department of Zoology Address : Govt. General Degree College, Manbazar-II : Jhargram Raj College, Jhargram Address Coordinator DR. RAHUL KUMAR DATTA IQAC WBES Associate Professor of Zoology JHARGRAM RAJ COLLEGE Jhargram 721 507 GGDC at Manbazar-II, Susunia, P.O.-Kumari District-Purulia, W.B. Govt. of West Bengal







Govt. of West Bengal Office of the Principal Government General Degree College, Manbazar-II Susunia, Purulia Dist: Purulia (West Bengal, INDIA), Pin - 723131

## MUTUAL ACTIVITIES CONDUCTED UNDER MOU

(Faculty Exchange)

Colleges involved under MoU: Jhargarm Raj College & Govt. General Degree College, Manbazar II

We do hereby declare the following activities have been conducted as per the MoU signed between the two colleges.

Si. No.	Dates of Activities	Nature of activity	Recourse person	Conducted at	Beneficiary
			Session 2019-20		
1	07.11.2019, 13.11.2019	Special Lecture	Sk. Sikandar Ansari Assistant Professor of Pol. Sc Jhargram Raj College	GGDC Manbazar II	Students of Pol. Sc. UG Sem-III, GGDC Manbazar II
2.	07.11.2019, 13.11.2019	Special Lecture	Sri Abhoy De Assistant Professor of Mathematics Jhargram Raj College	GGDC Manbazar II	Students of Mathematics UG Sem-III, GGDC Manbazar II

11/2019.

Officer-in-Charge GGDC Manbazar II Officer-in-Charge Govt. General Degree College Manbazar II Susunia, Kuman, Purulia

Mob. 8944027161

Off: : Website: www.ggdcm.ac.in e-mails: ggdcmanbazar@gmail.com

ggdcm@ggdcm.ac.in

FAX:

Principal Jhargram Raj Cellege



# Silda Chandra Sekhar College

Sl. No.	Name of the MoU / linkage	Name of the institution / industry with whom the MoU / linkage is made, with contact details	Year of signing MoU / linkage	Purpose of the MoU/Linkage (internship, on-the- job training, project work, student / faculty exchange and collaborative research)	Duration of MoU / linkage
6	MoU, Academic collaboration	Silda Chandra Sekhar College, Silda, Jhargram, PIN-721515, West Bengal, India	2019	<ul> <li>i) Visits and formal exchanges of faculty, scholars and</li> <li>administrators in specific areas of education,</li> <li>research and outreach. ii) Cooperate in Under</li> <li>Graduate &amp; Post Graduate</li> <li>education and training</li> <li>through library as well as</li> <li>laboratory resources. iii)</li> <li>Organize joint</li> <li>conferences, webinar,</li> <li>symposia, or other</li> <li>scientific meetings on</li> <li>subjects of mutual</li> <li>interest. iv) Exchange of</li> <li>academic information and</li> <li>materials. v) Pursue</li> <li>avenue for under graduate</li> <li>and post graduate student</li> <li>exchange during the</li> <li>academic year, vi)</li> <li>Explore the possibilities</li> <li>for developing joint</li> <li>research programs and</li> <li>collaborations.</li> </ul>	5 years







Tel No.- 03221-255022/ 258700 Website: <u>https://jrc.ac.in</u> Email: jhargramrajcollege@gmail.com

Office of The Principal Jhargram Raj College Govt. of West Bengal P.O. & Dist.- Jhargram, Pin – 721 507

#### MEMORANDUM OF UNDERSTANDING

#### BETWEEN

Jhargram Raj College, a reputed academic higher education institution, established in 1949, located at Jhargram, West Bengal, India, PIN 721507, as the FIRST PARTY;

#### AND

Silda Chandra Sekhar College, a reputed academic higher education institution, established in 1971, located at P.O.- Silda, Dist.- Jhargram, PIN – 721515, 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 nonbinding 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 & Post Graduate education and training through library 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.
- Pursue avenues for under graduate and post 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.



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Tel No.- 03221-255022/ 258700 Website: https://jrc.ac.in Email: jhargramrajcollege@gmail.com

Office of The Principal Jhargram Raj College Govt. of West Bengal P.O. & Dist.- Jhargram, Pin - 721 507

#### 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 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 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 seal on this the 20th day of March, 2019.

Signed by 1st Party 03 Dr. Debnarayan Roy Officer-in-Charge

OFFICER - IN - CHARGE Jhargram Raj College HARGRAM RAJ COLLEGE Signed by 2<sup>nd</sup>Party

1110 20,03.2019

Dr. Sujata Tewari Vice-Principal Silda Chandra Sekhar College

Vice-Principal Silda C.S. College Silda, Jhargram Signature of Witness:

Signature of Witness:

Annaro : Dr. Rahul Kumar Datta 293/299 Name : Associate Professor & Head,

20.05.2019 : Sri Shaktipada Shit : Coordinator, IQAC

Designation

Address

Name

Department of Zoology : Jhargram Raj College, Jhargram

R. RAHUL KUMAR DATT WBES Sociate Professor of Zoology ARGRAM NAJ COLLEGE Jhorgrom 721 507 vi. of West Bengal

Address : Silda Chandra Sekhar College

Coordinator IQAC Silda C.S. College Silda - Jhargram

Principal Jhargram Raj Cellege

Designation



图: 9434509680 Website: www.scscollege.ac.in

E-mail: silda\_cscollege@yahoo.com

# SILDA CHANDRASEKHAR COLLEGE

ESTD: 1971

P.O. - Silda \* Pin-721515 \* Dist : Jhargram (W.B.).

Ref: .....

Date: 11.05.2024

From: Dr. Susanta Kumar Dolai Principal, Silda Chandrasekhar College

# MUTUAL ACTIVITIES CONDUCTED UNDER MOU

(Faculty Exchange)

Colleges involved under MoU: Jhargarm Raj College & Silda Chandrasekhar College

We do hereby declare the following activities have been conducted as per the MoU signed between the two colleges.

Si. No.	Dates of Activities	Nature of activity	Recourse person	Conducted at	Beneficiary
			Session 202	2-23	the second s
1	16.08.2022, 18.08.2022, 15.09.2022	Special Lecture	Sri Debanjan Das Assistant Professor of Sanskrit Jhargram Raj College	Silda Chandrasekhar College	Students of Sanskrit UG Sem-V, Silda Chandrasekhar College
2.	18.07.2022, 25.07.2022, 09.11.2022	Special Lecture	Sri Satabdi Das Assistant Professor of Philosophy Jhargram Raj College	Silda Chandrasekhar College	Students of Philosophy UG Sem-V, Silda Chandrasekhar College
3	15.02.2023, 09.03.2023, 13.04.2023	Special Lecture	Sri Sandip Sarkar Assistant Professor of Mathematics Jhargram Raj College	Silda Chandrasekhar College	Students of Mathematics UG Sem-VI, Silda Chandrasekhar College



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(Dr. Susanta Kumar Dolai) Principal Silda Chandrasekhar College Principal Silda CS College Silda, Jhargram





**Government General Degree College, Narayangarh** 

Sl. No.	Name of the MoU / linkage	Name of the institution / industry with whom the MoU / linkage is made, with contact details	Year of signing MoU / linkage	Purpose of the MoU/Linkage (internship, on-the- job training, project work, student / faculty exchange and collaborative research)	Duration of MoU / linkage
7	MoU, Academic collaboration	Government General Degree College, Narayangarh, Rathipur, Dist-Paschim Medinipur, PIN- 721437, West Bengal, India	2019	<ul> <li>i) Visits and formal exchanges of faculty, scholars and</li> <li>administrators in specific areas of education, research and outreach. ii) Cooperate in Under</li> <li>Graduate &amp; Post Graduate education and training through library as well as laboratory resources. iii) Organize joint conferences, webinar, symposia, or other scientific meetings on subjects of mutual interest. iv) Exchange of academic information and materials. v) Pursue avenue for under graduate and post graduate student exchange during the academic year, vi)</li> <li>Explore the possibilities for developing joint research programs and collaborations.</li> </ul>	5 years







Tel No.- 03221-255022/ 258700 Website: <u>https://jrc.ac.in</u> Email: jhargramrajcollege@gmail.com

Office of The Principal Jhargram Raj College Govt. of West Bengal P.O. & Dist.- Jhargram, Pin – 721 507

#### MEMORANDUM OF UNDERSTANDING

#### BETWEEN

**Jhargram Raj College**, a reputed academic higher education institution, established in **1949**, located at Jhargram, West Bengal, India, PIN 721507, as the FIRST PARTY;

#### AND

Govt. General Degree College, Narayangarh, a reputed academic higher education institution, established in 2017, located at Rathipur, Narayangarh, Paschim Medinipur, West Bengal, India, PIN - 721437 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 nonbinding 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 & Post Graduate education and training through library 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.
- Pursue avenues for under graduate and post 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







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Office of The Principal Jhargram Raj College Govt. of West Bengal P.O. & Dist.- Jhargram, Pin - 721 507

#### 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 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 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 seal on this the 20<sup>th</sup> day of March, 2019.

Signed by 1st Party 0.3 Dr. Debnarayan Roy **Officer-in-Charge** 

Jhargram Raj College OFFICER - IN - CHARGE JHARGRAM RAJ COLLEGE

Signed by 2<sup>r</sup> Dr. Badal Kuma Officer-in-Chan Govt. General Degree College, Varavangarh

Signature of Witness:

Dr. Rahul Kumar Datta Name : Associate Professor & Head, Designation Department of Zoology Address: Jhargram Raj College, Jhargram

> Head Department of Zoology Jhargram Raj College Govt. of West Bengal

Signature of Witness:

Sri Anomitra Das Designation : Coordinator, IQAC

Address : Govt. General Degree College, Narayangarh



Name





# GOVERNMENT OF WEST BENGAL

Office of the Principal

**GOVERNMENT GENERAL DEGREE COLLEGE, NARAYANGARH** 

P.O. Bhadrakali :: Dist: Midnapur (West) :: West Bengal :: Pin: 721437, India, Phone: 03222-236512,13, :: Visit: www.ngc.ac.in Memo No. 1045/NGC Date: 03/05/2023

#### MUTUAL ACTIVITIES CONDUCTED UNDER MOU

(Faculty Exchange)

Colleges involved under MoU: Jhargarm Raj College & Govt. General Degree College, Narayangarh

We do hereby declare the following activities have been conducted as per the MoU signed between the two colleges.

Si. No.	Dates of Activities	Nature of activity	Recourse person	Conducted at	Beneficiary
			Session 2022-23		
1	13.04.2023, 24.04.2023,	Special Lecture	Sri Srijit Ghosh Assistant Professor of Physiology Jhargram Raj College	GGDC Narayangarh	Students of B.Sc. UG Sem-IV, GGDC Narayangarh
2.	05.08.2022, 29.08.2022	Special Lecture	Smt. Girija Basu Assistant Professor of Physical Education Jhargram Raj College	GGDC Narayangarh	Students of Physical Ed. UG Sem-III, GGDC Narayangarh



Officerarayangarh Government General Degree College

Principal Jhargram Raj Cellege



**Government General Degree College, Datan II** 

SI. No.	Name of the MoU / linkage	Name of the institution / industry with whom the MoU / linkage is made, with contact details	Year of signing MoU / linkage	Purpose of the MoU/Linkage (internship, on-the- job training, project work, student / faculty exchange and collaborative research)	Duration of MoU / linkage
8	MoU, Academic collaboration	Government General Degree College, Datan II, Kashmuli, Dist- Paschim Medinipur, PIN-721445, West Bengal, India	2019	<ul> <li>i) Visits and formal exchanges of faculty, scholars and</li> <li>administrators in specific areas of education, research and outreach. ii) Cooperate in Under</li> <li>Graduate &amp; Post Graduate education and training through library as well as laboratory resources. iii) Organize joint conferences, webinar, symposia, or other scientific meetings on subjects of mutual interest. iv) Exchange of academic information and materials. v) Pursue avenue for under graduate and post graduate student exchange during the academic year, vi)</li> <li>Explore the possibilities for developing joint research programs and collaborations.</li> </ul>	5 years







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Office of The Principal Jhargram Raj College Govt. of West Bengal P.O. & Dist.- Jhargram, Pin – 721 507

#### MEMORANDUM OF UNDERSTANDING

#### BETWEEN

**Jhargram Raj College**, a reputed academic higher education institution, established in **1949**, located at Jhargram, West Bengal, India, PIN 721507, as the FIRST PARTY;

#### AND

Govt. General Degree College, Dantan-II, a reputed academic higher education institution, established in 2015, located at Kashmuli, Porolda, P.S - Belda, Paschim Medinipur, PIN - 721445 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 nonbinding 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 & Post Graduate education and training through library 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.
- Pursue avenues for under graduate and post 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







Tel No.- 03221-255022/ 258700 Website: https://jrc.ac.in Email: jhargramrajcollege@gmail.com

Office of The Principal Jhargram Raj College Govt. of West Bengal P.O. & Dist.- Jhargram, Pin - 721 507

#### 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 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 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 seal on this the 20<sup>th</sup> day of March, 2019.

Signed by 1<sup>st</sup> Party 03 Dr. Debnarayan Roy Officer-in-Charge Jhargram Raj College OFFICER - IN - CHARGE JHARGRAM RAJ COLLEGE hux Xumore D 20/03

: Dr. Rahul Kumar Datta

Department of Zoology

DR. RAHUL KUMAR DATTA

Associate Professor of Zoology JHARGRAM RAJ COLLEGI Jhargram 721 507 Govt of West Bengal

: Associate Professor & Head,

: Jhargram Raj College, Jhargram

WRES

Signed by 2<sup>nd</sup>Party 2019

Roux 20.03 2019

Dr. Shaishab Kumar Dinda Officer-in-Charge Govt. General Degree College, Dantan-II Officer in charge Govt. Gen. Degree College Dantan - II

Signature of Witness:

Name

Address

Designation

Pabitra Name

: Sri Pabitra Rana Designation : Coordinator, IQAC

Signature of Witness:

Address : Govt. General Degree College, Dantan-II Govt. Gen. Degree College, Dantan - II Paschim Medinipur







#### Govt. of West Bengal Office of the Principal / Officer-in-Charge

Government General Degree College, Dantan-II

Kashmuli :: Paschim Medinipur :: West Bengal :: Pin - 721445 :: Website :: dantan2govtcollege.ac.in ::

Email - kgcprincipal@yahoo.com

### MUTUAL ACTIVITIES CONDUCTED UNDER MOU

(Faculty Exchange)

Colleges involved under MoU: Jhargarm Raj College & Govt. General Degree College Dantan II

We do hereby declare the following activities have been conducted as per the MoU signed between the two colleges.

Si. No.	Dates of Activities	Nature of activity	Recourse person	Conducted at	Beneficiary
			Session 2022-23	Week and the second	
1	20.04.2023, 03.05.2023	Special Lecture	Sri Ansuman Bej Assistant Professor of Chemistry Jhargram Raj College	GGDC, Dantan II	Students of B.Sc. UG Sem-IV, GGDC, Dantan II
2.	29.03.2023, 05.04.2023	Special Lecture	Smt. Oindrila Sen Assistant Professor of History Jhargram Raj College	GGDC, Dantan II	Students of History UG Sem-VI, GGDC, Dantan II
3.	25.03.2023, 06.05.2023	Special Lecture	Dr. Madhusudan Bera Assistant Professor of Chemistry GGDC, Dantan II	Jhargram Raj College	Students of B.Sc. UG Sem-VI, Jhargram Raj College
4.	24.03.2023, 06.05.2023	Special Lecture	Dr. Pabitra Kumar Rana Assistant Professor of English GGDC, Dantan II	Jhargram Raj College	Students of English UG Sem-Vl, Jhargram Raj College

Principal Jhargram Raj College

105/2024 0 Officer-in-Charge GDC Dantan-II Officer in charge Govt. Gen. Degree College Dantan - II Deo Co





**Government General Degree College, Kharagpur II** 

Sl. No.	Name of the MoU / linkage	Name of the institution / industry with whom the MoU / linkage is made, with contact details	Year of signing MoU / linkage	Purpose of the MoU/Linkage (internship, on-the- job training, project work, student / faculty exchange and collaborative research)	Duration of MoU / linkage
9	MoU, Academic collaboration	Government General Degree College, Kharagpur II, Madpur, Dist-Paschim Medinipur, PIN- 721149, West Bengal, India	2019	<ul> <li>i) Visits and formal exchanges of faculty, scholars and</li> <li>administrators in specific areas of education,</li> <li>research and outreach. ii) Cooperate in Under</li> <li>Graduate &amp; Post Graduate</li> <li>education and training</li> <li>through library as well as</li> <li>laboratory resources. iii)</li> <li>Organize joint</li> <li>conferences, webinar,</li> <li>symposia, or other</li> <li>scientific meetings on</li> <li>subjects of mutual</li> <li>interest. iv) Exchange of</li> <li>academic information and</li> <li>materials. v) Pursue</li> <li>avenue for under graduate</li> <li>and post graduate student</li> <li>exchange during the</li> <li>academic year, vi)</li> <li>Explore the possibilities</li> <li>for developing joint</li> <li>research programs and</li> <li>collaborations.</li> </ul>	5 years







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Office of The Principal Jhargram Raj College Govt. of West Bengal P.O. & Dist.- Jhargram, Pin - 721 507

#### MEMORANDUM OF UNDERSTANDING

#### BETWEEN

Jhargram Raj College, a reputed academic higher education institution, established in 1949, located at Jhargram, West Bengal, India, PIN 721507, as the FIRST PARTY;

#### AND

Govt. General Degree College, Kharagpur-II, a reputed academic higher education institution, established in 2015, located at Ambigeria, Madpur, Paschim Medinipur, West Bengal, India, PIN-721149 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:

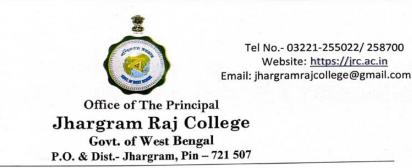
- Visits and formal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach.
- Cooperate in Under Graduate & Post Graduate education and training through library as well as laboratory resources.
- Organize joint conferences, webinar, symposia, or other scientific meetings on subjects of mutual interest.
- Exchange of academic information and materials.
- Pursue avenues for under graduate and post 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.







#### 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 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.

#### **General Terms** 4

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.

#### Signatures 5.

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 seal on this the 16th day of March, 2019.

16/03/2019

Signed by 1st Party

Dr Debnarayan Roy Officer-in-Charge Jhargram Raj College

OFFICER - IN - CHARGE JHARGRAM RAJ COLLEGE

#### Signature of Witness:

: Dr Rahul Kumar Datta

Name Designation

Address

: Associate Professor & Head Dept. of Zoology (UG & PG) : Jhargram Raj College, Jhargram DR. RAHUL KUMAR DATTA

WBES Associate Professor of Zoolog: JHARGRAM RAJ COLLEGE Jhargram 721 507 Govt. of West Bengal

Signed by 2<sup>nd</sup>Rarty Dr. Partha Sarathi Singha

Officer-in-Charge Government General Degree College, Klianagpuhartje Govt. General Degree College Kharagpur-II, Madpur Paschim Medinipur-721149

:Dr. Mousumi Dutta

: Assistant Professor

Dept. of Physiology

Kharagpur - II

Signature of Witness:

Mouscean Sulta

Name Designation Address: Government General Degree College,

> Principal Jhargram Raj Cellege





Government of West Bengal Government General Degree College at Kharagpur II *Office of the Principal* Madpur, Paschim Medinipur – 721149, West Bengal

Date-25-08-2022

### MUTUAL ACTIVITIES CONDUCTED UNDER MoU

(Faculty Exchange)

Colleges involved under MoU: Jhargarm Raj College & Government General Degree College at Kharagpur II

I do hereby declare the following activities have been conducted as per the MoU signed between the two colleges.

Si.	Dates of	Nature of	Recourse person	Conducted at	Beneficiary
No.	Activities	activity	_		
			Session 2022-23		
1	21.04.2022 26.07.2022	Special Lecture	Sri. Arabinda Samanta Assistant Professor of Botany Jhargram Raj College	GGDC at Kharagpur II	Students of Botany Sem-III, GGDC at
2.	11.07.2022 25.08.2022	Special Lecture	Dr. Tapas Adalder Assistant Professor of Chemistry Jhargram Raj College	GGDC at Kharagpur II	Kharagpur II Students of Chemistry Sem-III, GGDC at Kharagpur II

Dr. Partha Sarathi Singha Officer in Charge GGDC at KGP II Madpur, Paschim Medinipore Officer-in-charge Govt. General Degree College Kharagpur-II, Madpur Paschim Medinlpur-721149





Vivekananda Satavarshiki Mahavidyalaya

Sl. No.	Name of the MoU / linkage	Name of the institution / industry with whom the MoU / linkage is made, with contact details	Year of signing MoU / linkage	Purpose of the MoU/Linkage (internship, on-the- job training, project work, student / faculty exchange and collaborative research)	Duration of MoU / linkage
10	MoU, Academic collaboration	Vivekananda Satavarshiki Mahavidyalaya, Manikpara, Jhargram 721513, West Bengal, India	2019	<ul> <li>i) Visits and formal exchanges of faculty, scholars and</li> <li>administrators in specific areas of education,</li> <li>research and outreach. ii) Cooperate in Under</li> <li>Graduate &amp; Post Graduate</li> <li>education and training</li> <li>through library as well as</li> <li>laboratory resources. iii)</li> <li>Organize joint</li> <li>conferences, webinar,</li> <li>symposia, or other</li> <li>scientific meetings on</li> <li>subjects of mutual</li> <li>interest. iv) Exchange of</li> <li>academic information and</li> <li>materials. v) Pursue</li> <li>avenue for under graduate</li> <li>and post graduate student</li> <li>exchange during the</li> <li>academic year, vi)</li> <li>Explore the possibilities</li> <li>for developing joint</li> <li>research programs and</li> <li>collaborations.</li> </ul>	5 years







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Office of The Principal Jhargram Raj College Govt. of West Bengal P.O. & Dist.- Jhargram, Pin – 721 507

#### MEMORANDUM OF UNDERSTANDING

#### BETWEEN

Jhargram Raj College, a reputed academic higher education institution, established in 1949, located at Jhargram, West Bengal, India, PIN 721507, as the FIRST PARTY;

#### AND

Vivekananda Satavarshiki Mahavidyalaya, a reputed academic higher education institution, established in 1964, located at P.O.- Manikpara, Jhargram, PIN - 721513 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 nonbinding 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 & Post Graduate education and training through library 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.
- Pursue avenues for under graduate and post 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







Tel No.- 03221-255022/ 258700 Website: <u>https://jrc.ac.in</u> Email: jhargramrajcollege@gmail.com

Office of The Principal Jhargram Raj College Govt. of West Bengal P.O. & Dist.- Jhargram, Pin – 721 507

#### 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 **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 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 seal on this the 19<sup>th</sup> day of March, 2019.

Signed by 1<sup>st</sup> Party

Dr. Debnarayan Roy Officer-in-Charge Jhargram Raj College

OFFICER - IN - CHARGE JHARGRAM RAJ COLLEGE

Signature of Witness:

19/03/2019 Dr. Rahul Kumar Datta

Name Designation

Address

: Associate Professor & Head, Department of Zoology : Jhargram Raj College, Jhargram

JR. RAHUL KUMAR DATT. WBE Associate Professor of Zoolog JHARGRAM RAJ COLLEG Jhargram 721 507 Govt. of West Bengel

Signed by

Dr. Uma Bhaumik Principal Vivekananda Satavarshiki Mahavidyalaya

> Principal V. S. Mahavidyalaya Manikpara, Jhargram

Signature of Witness:

Manjusha Sing 19.03-2019

Name : Smt. Manjusha Sigha Mahapatra Designation : Coordinator, IQAC

Address : Vivekananda Satavarshiki Mahavidyalaya

Co-Ordinator IQAC V.S Mahavidyalaya





		IDA S	TAVARSH :: DIST JHARG STATION - SARDI ESTD 1964	GRAM :: PIN - HA (S.E.R.)	ne : MANIK - 230244 STD - 03222 VIDYALAYA 721513
	MUTU.	AL ACTIV	(Faculty Exchange Trai College & Vive	E <b>TED UNDER</b> e) ekananda Satabars	shiki Mahavidyalaya
e do hereb o colleges.	y declare the fo	ollowing act	ivities have been cor	nducted as per the	e MoU signed between t
Sl. No.	Dates of Activities	Nature of activity	Recourse person	Conducted at	Beneficiary
1	20.03.2023, 29.03.2023, 12.04.2023	Special Lecture	Session 2022-23 Smt. Girija Basu Assistant Professor of Physical Education Jhargram Raj College	Vivekananda Satabarshiki Mahavidyalaya	Students of B.A (G) UG Sem-IV, Vivekananda Satabarshiki Mahavidyalaya
2.	20.09.2022, 07.11.2022, 11.11.2022	Special Lecture	Sri Tapas Ghosh Assistant Professor of Physics Jhargram Raj College	Vivekananda Satabarshiki Mahavidyalaya	Students of Physics UG Sem- III, Vivekananda Satabarshiki



17.04.2023 0250

Mahavidyalaya

Principal Vivekananda Satabarshiki Mahavidyalaya

Principal V.S. Mahavidyalaya Manikpara, Jhargram





Sankrail A.B.S. Mahavidyalaya

Sl. No.	Name of the MoU / linkage	Name of the institution / industry with whom the MoU / linkage is made, with contact details	Year of signing MoU / linkage	Purpose of the MoU/Linkage (internship, on-the- job training, project work, student / faculty exchange and collaborative research)	Duration of MoU / linkage
11	MoU, Academic collaboration	Sankrail A.B.S. Mahavidyalaya, Jhargram, PIN-721135, West Bengal, India	2019	<ul> <li>i) Visits and formal exchanges of faculty, scholars and</li> <li>administrators in specific areas of education,</li> <li>research and outreach. ii) Cooperate in Under</li> <li>Graduate &amp; Post Graduate</li> <li>education and training</li> <li>through library as well as</li> <li>laboratory resources. iii)</li> <li>Organize joint</li> <li>conferences, webinar,</li> <li>symposia, or other</li> <li>scientific meetings on</li> <li>subjects of mutual</li> <li>interest. iv) Exchange of</li> <li>academic information and</li> <li>materials. v) Pursue</li> <li>avenue for under graduate</li> <li>and post graduate student</li> <li>exchange during the</li> <li>academic year, vi)</li> <li>Explore the possibilities</li> <li>for developing joint</li> <li>research programs and</li> <li>collaborations.</li> </ul>	5 years







Tel No.- 03221-255022/ 258700 Website: <u>https://jrc.ac.in</u> Email: jhargramrajcollege@gmail.com

Office of The Principal Jhargram Raj College Govt. of West Bengal P.O. & Dist.- Jhargram, Pin – 721 507

#### MEMORANDUM OF UNDERSTANDING

#### BETWEEN

Jhargram Raj College, a reputed academic higher education institution, established in 1949, located at Jhargram, West Bengal, India, PIN 721507, as the FIRST PARTY;

#### AND

Sankrail A.B.S. Mahavidyalaya, a reputed academic higher education institution, established in 2007, located at & P.O. Kultikri, Jhargram, West Bengal, India, PIN-721135 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 nonbinding 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 & Post Graduate education and training through library 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.
- Pursue avenues for under graduate and post 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







Tel No.- 03221-255022/ 258700 Website: <u>https://jrc.ac.in</u> Email: jhargramrajcollege@gmail.com

Office of The Principal Jhargram Raj College Govt. of West Bengal P.O. & Dist.- Jhargram, Pin – 721 507

#### 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 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 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.

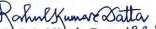
#### 5. Signatures

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 seal on this the 18<sup>th</sup>day of March, 2019.

Signed by 1st Party Dr Debnarayan Roy Officer - in - Charge Jhargram Raj College OFFICER - IN - CHARGE JHARGRAM RAJ COLLEGE

Signature of Witness:



Name Designation

Address

: D-Rahul Kudar Datta 183.19 : Associate Professor & Head Dept. of Zoology (UG & PG) : Jhargram Raj College, Jhargram

DR. RAHUL KUMAR DAT

WBES Associate Professor of Zoology JHARGRAM RAJ COLLEGE Jhargram 721 507 Govt. of West Bengal Signed by 2<sup>nd</sup>Party

03.2019

Dr. Haripada Mahapatha Teacher – in - Charge Sankrail - A.B.S. Mahavidyalaya reacher-in-Charge, Sankrail Anil Biswas Smriti Mahavidyalaya P.O.- Kultikri, P.S.- Sankrail, Dist.- Jhargram, West Bengal

Signature of Witness:

18 3

Name : Swagata Chatterjee Designation : Coordinator, IQAC

Address: Sankrail A.B.S. Mahavidyalaya, Jhargram

Co-ordinator IQAC, Sankrail A.B.S. Mahavidyalaya Kultikri, Jhargram

Principal Jhargram Raj Cellege





Мето No. : ....

Date. : .....

From : The Principal / Teacher-in-Charge

## MUTUAL ACTIVITIES CONDUCTED UNDER MOU

(Faculty Exchange)

Colleges involved under MoU: Jhargarm Raj College &Sankrail ABS Mahavidyalaya

We do hereby declare the following activities have been conducted as per the MoU signed between the two colleges.

Si. No.	Dates of Activities	Nature of activity	Recourse person	Conducted at	Beneficiary
			Session 2022-23		
1	20.03.2023, 12.04.2023, 03.05.2023	Special Lecture	Sikandar Ansari Assistant Professor of Pol. Sc. Jhargram Raj College	Sankrail ABS Mahavidyalaya	Students of Pol.Sc.UG Sem-VI, Sankrail ABS Mahavidyalaya
2.	22.03.2023, 25.04.2023, 03.05.2023	Special Lecture	Sri Susen Gangopadhyay Assistant Professor of History Jhargram Raj College	Sankrail ABS Mahavidyalaya	Students of HistoryUG Sem- VI, Sankrail ABS Mahavidyalaya

MM. Teacher-in-Charge Sankrail Anil Biswas Smriti Mahavidyalaya Sankrail Anil Biswas Smritl Mahavidyalaya

Principal Jhargram Raj Cellege



**Government General Degree College Keshiary** 

Sl. No.	Name of the MoU / linkage	Name of the institution / industry with whom the MoU / linkage is made, with contact details	Year of signing MoU / linkage	Purpose of the MoU/Linkage (internship, on-the- job training, project work, student / faculty exchange and collaborative research)	Duration of MoU / linkage
12	MoU, Academic collaboration	Government General Degree College Keshiary, Dist-Paschim Medinipur, PIN-721135, West Bengal, India	2019	<ul> <li>i) Visits and formal exchanges of faculty, scholars and</li> <li>administrators in specific areas of education,</li> <li>research and outreach. ii) Cooperate in Under</li> <li>Graduate &amp; Post Graduate</li> <li>education and training</li> <li>through library as well as</li> <li>laboratory resources. iii)</li> <li>Organize joint</li> <li>conferences, webinar,</li> <li>symposia, or other</li> <li>scientific meetings on</li> <li>subjects of mutual</li> <li>interest. iv) Exchange of</li> <li>academic information and</li> <li>materials. v) Pursue</li> <li>avenue for under graduate</li> <li>and post graduate student</li> <li>exchange during the</li> <li>academic year, vi)</li> <li>Explore the possibilities</li> <li>for developing joint</li> <li>research programs and</li> <li>collaborations.</li> </ul>	5 years







Tel No.- 03221-255022/258700 Website: <u>https://jrc.ac.in</u> Email: jhargramrajcollege@gmail.com

Office of The Principal Jhargram Raj College Govt. of West Bengal P.O. & Dist.- Jhargram, Pin – 721 507

#### MEMORANDUM OF UNDERSTANDING

#### BETWEEN

**Jhargram Raj College**, a reputed academic higher education institution, established in **1949**, located at Jhargram, West Bengal, India, PIN 721507, as the FIRST PARTY;

#### AND

**Govt. General Degree College Keshiary**, a reputed academic higher education institution, established in **2015**, located at Telipukur, P.O. Tilaboni, P.S. Keshiary, Paschim Medinipur, West Bengal, India, PIN-721135 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 nonbinding 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 & Post Graduate education and training through library 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.
- Pursue avenues for under graduate and post 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







Tel No.- 03221-255022/ 258700 Website: <u>https://jrc.ac.in</u> Email: jhargramrajcollege@gmail.com

Office of The Principal Jhargram Raj College Govt. of West Bengal P.O. & Dist.- Jhargram, Pin – 721 507

#### 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 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 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 seal on this the 19<sup>th</sup>day of March, 2019.

Signed by 1st Party Signed by 2<sup>nd</sup>Party 19 103 2019 Dr. Sudipta Chakraborty 03 Dr Debnarayan Roy Officer - in - Charge Officer - in - Charge Govt. General Degree College, Keshiary Degree Col Jhargram Raj College Officer-in-Charge Govt. Gen. Degree Col OFFICER - IN - CHARGE HARGRAM RAJ COLLEGE Keshiary Signature of Witness: Signature of Witness: Jal 03 20 N 9 03 Name : Dr. Nilay Kumar Maitra Chim Medinip Name : Dr Rahul Kumar Datta : Coordinator, IQAC Designation : Associate Professor & Head Designation Dept. of Zoology (UG & PG) Address: Govt. General Degree College, Keshiary Address : Jhargram Raj College, Jhargram Coordination DR. RAHUL KUMAR DATTA OAC CELL ca. Degree Col WBES Associate Professor of Zoology Keshli JHARGRAM RAJ COLLEGE Jhargram 721 507 Govt. of West Bengal





## Government of West Bengal Office of the Principal GOVERNMENT GENERAL DEGREE COLLEGE, KESHIARY

At.-Telipukur : P.o.- Tilaboni Mahisamura : P.s.- Keshiary Dist- Paschim Medinipur : PIN-721135

Memo No. 3/GGDCK/M/2019,

Date. 26 09 2019

From : The Princi pal Government General Degree College,Keshiary

To:

To Dr. Subha Manna Associate Professor in Zoology Jhargram Raj College Dist.: Jhargram, West Bengal, PIN 721507

#### Ref.: MoU dated 19.03.2019

Subject: Invitation for an academic lecture in the Department of Zoology, Government General Degree College, Keshiary

#### Sir,

Reference to the provision for faculty exchange as mentioned in the MoU dated 19.03.2019 between GGDC, Keshiary and Jhargram Raj College, I would like to cordially invite you to deliver an academic lecture on the topic entitled *"Elementary idea of biological oxidation"* in the Department of Zoology, Government General Degree College, Keshiary on 05.10.2019 from 01:00 PM onwards.

Thanking you in anticipation of your kind consent and active involvement.



Yours sincerely,

Officer-In-Charge

Govt. Gen.Degree College Keshiary







Memo No..... From : The Princi pal Government General Degree College,Keshiary

Date 05/10/2019

To :

### TO WHOM IT MAY CONCERN

It is to certify that Dr. Subha Manna, Associate Professor in Zoology, Jhargram Raj College has deliver an academic lecture on the topic entitled *"Elementary idea of biological oxidation"* in the Department of Zoology, Government General Degree College, Keshiary on 05.10.2019 from 01:00 PM to 02:00 PM. The mentioned lecture was in accordance with the provision for faculty exchange as mentioned in the MoU dated 19.03.2019 between Government General Degree College, Keshiary and Jhargram Raj College. The contribution of Dr. Subha Manna is thankfully acknowledged.



Officer-In-Charo

Govt. Gen.Degree College Keshiary





## Government of West Bengal Office of the Principal GOVERNMENT GENERAL DEGREE COLLEGE, KESHIARY

At.-Telipukur : P.o.- Tilaboni Mahisamura : P.s.- Keshiary Dist- Paschim Medinipur : PIN-721135

Memo No. 1/GGDCK/M/2020,

Date 01/02/2020

From : The Princi pal Government General Degree College,Keshiary

To: To

Md Shariful Islam Assistant Professor in Zoology Jhargram Raj College Dist.: Jhargram, West Bengal, PIN 721507

#### Ref.: MoU dated 19.03.2019

Subject: Invitation for an academic lecture in the Department of Zoology, Government General Degree College, Keshiary

#### Sir,

Reference to the provision for faculty exchange as mentioned in the MoU dated 19.03.2019 between GGDC, Keshiary and Jhargram Raj College, I would like to cordially invite you to deliver an academic lecture on the topic entitled "*Insect plant interaction*" in the Department of Zoology, Government General Degree College, Keshiary on -07.02.2020 from 01:00 PM onwards.

Thanking you in anticipation of your kind consent and active involvement.



Yours sincerely,

Officer-m-Charge

Govt. Gen.Degree College Keshiary





### Government of West Bengal Office of the Principal GOVERNMENT GENERAL DEGREE COLLEGE, KESHIARY At.-Telipukur : P.o.- Tilaboni Mahisamura : P.s.- Keshiary Dist- Paschim Medinipur : PIN-721135

Date 07/02/2020

From : The Principal Government General Degree College,Keshiary TO WHOM IT MAY CONCERN

Memo No.....

#### To:

It is to certify that Md Shariful Islam , Assistant Professor in Zoology, Jhargram Raj College has deliver an academic lecture on the topic entitled "Insect-Plant Interaction" in the Department of Zoology, Government General Degree College, Keshiary on 07.02.2020 from 01:00 PM to 02:00 PM. The mentioned lecture was in accordance with the provision for faculty exchange as mentioned in the MoU dated 19.03.2019 between Government General Degree College, Keshiary and Jhargram Raj College. The contribution of Md Shariful Islam is thankfully acknowledged.



Officer-In-Charge Govt. Gen.Degree College Keshiary





## Government of West Bengal **Office of the Principal GOVERNMENT GENERAL DEGREE COLLEGE, KESHIARY**

At.-Telipukur : P.o.- Tilaboni Mahisamura : P.s.- Keshiary Dist- Paschim Medinipur : PIN-721135

Memo No. 03/GGDCK/H/2024

Date. 22/01/2024

From : The Princi pal Government General Degree College,Keshiary

To: Dr. Dipankar Mondal Assistant professor, Dept of Bengali Jhargram Raj College

Ref: MoU between GGDC, Keshiary and Jhargram Raj College dt. 19.03.2019

Subject: Invitation as guest speaker on 05.02.2024

GGDC

Sir,

Reference to the Memorandum of Understanding signed between Government General Degree College, Keshiary & Jhargram Raj College dated 19.03.2019, GGDC, Keshiary, feels pleasure to invite you as a guest speaker in the one day seminar on "বাংলা শিশুসাহিত্য" to be held on 05.02.2024 at GGDC, Keshiary from 12.30pm onwards.

Thanking you in anticipation of your kind consent and valued presence.

Monua la HoD

Dept. of Bengali

GGDC, Keshiary



Yours sincerely

Officer-in-Charge

Officer-in-Charge Government General Degree College Keshiary







Government of West Bengal Office of the Principal

## **GOVERNMENT GENERAL DEGREE COLLEGE, KESHIARY**

At.-Telipukur : P.O.- Tilaboni Mahisamura : P.S.- Keshiary Dist- Paschim Medinipur : PIN-721135

Date. 05/02/2024

Memo No..... From : The Principal Government General Degree College, Keshiary

To:

## TO WHOM IT MAY CONCERN

Certified that Dr. Dipankar Mondal, Assistant Professor in Bengali, Department of Bengali, Jhargram Raj College, Jhargram, West Bengal, has delivered a Memorandum of Understanding based invited talk on "বাংলা শিশুসাহিত্য" in the one day seminar, organized by the Dept. of Bengali, Government General Degree College, Keshiary, held on 05.02.2024.

Monua lana HoD / Head GGDC, Keshiary IQAC Deptt. of Bengali Dept. of Bengali GGDC, Keshiary Officer-in-Charge GGDC, Keshigry GGDC, Keshiary Government General DAC CELL Degree College Gove Gen. Degree O Keshiary Koshiary 5th February, 2024, Keshiary oree Col n Modmin







## Government of West Bengal Office of the Principal

# **GOVERNMENT GENERAL DEGREE COLLEGE, KESHIARY**

At.-Telipukur : P.O.- Tilaboni Mahisamura : P.S.- Keshiary Dist- Paschim Medinipur : PIN-721135

Memo No.....

Date 07/05/2024

From : The Principal

Government General Degree College, Keshiary

To:

#### TO WHOM IT MAY CONCERN

It is to certify the summary of the collaborative activities between the Government General Degree College, Keshiary and Jhargram Raj College in the Academic Years 2019-2020, 2020-2021, 2021-2022, 2022-2023 based on the MoU dated 19.03.2019 (Purpose of the MoU: Academic collaboration for seminar/workshop/conference/journals, Faculty and student exchange exchange of information on research and educational programme, joint organisation of short-term continuing education programme, joint engagement in research and training programme):

SL No.	Nature of activity	Duration	Date of event	Topic of interaction	Organized by	Participants	Faculty involved
1.	Faculty exchange	One day	23.04.2019	Partition' in Indian cinema: a view from the fourth wall	Jhargram Raj College	Students of the Sem. I, 2018, Part II, III, 2019, Dept. of History, Jhargram Raj College	Inder Mukherjee. Asstt. Prof. in History. GGDC, Keshiary
2.	Faculty exchange	One day	05.10.2019	Elementary idea of biological oxidation	Government General Degree College, Keshiary	Students of Semester I, III & V, 2019, Dept. of Zoology, GGDC, Keshiary	Dr. Subha Manna, Assoc. Prof. in Zoology, Jhargram Raj College
3.	Faculty exchange	One day	05.12.2019	আকস্মিকতায় আক্রান্ত দ্রীবন এবং বনস্থুলের কয়েকটি গল্প	Jhargram Raj College	Students of Semester I, III & Part III, 2019, Dept. of Bengali, Jhargram Raj College	Dr. Monua Panja, Asstt. Prof. in History, GGDC, Keshlary
4.	Faculty exchange	One day	07.02.2020	Insect plant interaction	Government General Degree College, Keshiary	Students of Semester I, III & V, 2019, Dept. of Zoology, GGDC, Keshiary	Md Shariful Islam, Asstt. Prof. in Zoology, Jhargtam Raj College
5.	Faculty exchange	One day	07.02.2020	End of Planning Commission: Understanding the New Trends of Neoliberal Politics in India	Jhargram Raj College	Students of Semester I, III & V, 2019, Dept. of Zoology, Jhargram Raj College	Kalyanasis Bhattacharyya, Asstt. Prof. in Pol. Science, GGDC, Keshiary
<u>6</u> .	Faculty exchange	One day (online)	10.02.2021	Morphology of insects	Jhargram Raj College	Students of Dept. of Zoology. Jhargram Raj College	Debarshi Mondal, Asstt. Prof. in Zoology, GGDC, Keshiary
7.	Faculty exchange	One day	18.03.2022	Plant tissue culture techniques and process of somatic embryogenesis	Jhargram Raj College	Students of Semester I, III & V, 2021, Dept. of Botany, Jhargram Raj College	Dr. Susanta Kumar Maity, Asstt. Prof. in Botany, GGDC, Keshiary
8.	Faculty exchange	One day	03.01.2023	প্রত্যহ নন্দনে রবীন্দ্র কবিতা	Government General Degree College, Keshlary	Students of Semester I, III & V, 2022, Dept. of Zoology, GGDC, Keshiary	Dr. Dipankar Mondal, Asst. Prof. of Bengali, Jhargram Raj College
9.	Faculty exchange	One day	20.02.2023	The history of English language and literature in the embryo stage	Jhargram Raj College	Students of Semester I, III & V, 2022, Dept. of Zoology, Jhargram Raj College	Md Ataur Rahaman, Asst. Prof. of English, GGDC, Keshiary

Principal, Jhargram Raj College



ernment General Degree College, Keshiary

Officer-in-Charge Govt. Gen. Degree College Keshiary



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GOVERNMENT OF WEST BENGAL GOVERNMENT GENERAL DEGREE COLLEGE, LALGARH LALGARH::JHARGRAM::721516 Website: <u>www.lalgarhgovtcollege.org</u>

Memo No.: 18/MoU/JRC

Date: 15.03.2023

To, Dr. Nivedita Bhattacharyya Assistant Professor (stage-III) Department of Physiology Jhargram Raj College Jhargram, 721507

Sub: MoU related invitation letter to deliver a lecture on 'Immunology' to the students of B.Sc. Bio-Sciences of Govt. General Degree College, Lalgarh, Jhargram, on 31.03.2023 at 11.00 a.m. onwards.

Respected Madam,

I cordially invite you to deliver a lecture on 'Immunology' to the students of B.Sc. Bio-Sciences of Govt. General Degree College, Lalgarh, Jhargram, on 31.03.2023 at 11.00 a.m. onwards.

Your presentation is scheduled for an hour followed by an interactive session. It is a humble request to you to keep your talk bilingual for the benefit of audience.

Thanking You.

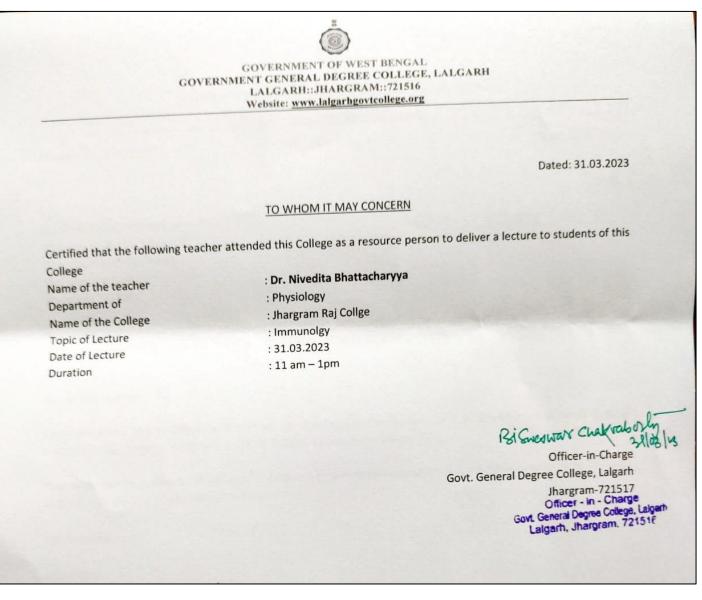
Sincerely yours,

Rai Sucarta Clack robbity 1 (19) 15 (Asst. Prof. Bisweswar chakraborty) Officer-in-Charge Officer - In - Charge Govt. General Degree Golege, Lelger Govt. General Degree Golege, Lelger Jhargram-721516

Copy to: IQAC Coordinator, GGDC Lalgarh Principal, Jhargram Raj College Office File, Notice Board











## Hijli College

Sl. No.	Name of the MoU / linkage	Name of the institution / industry with whom the MoU / linkage is made, with contact details	Year of signing MoU / linkage	Purpose of the MoU/Linkage (internship, on-the- job training, project work, student / faculty exchange and collaborative research)	Duration of MoU / linkage
13	MoU, Academic collaboration	Hijli College, Dist-Paschim Medinipur, PIN-721306, West Bengal, India	2019	<ul> <li>i) Visits and formal exchanges of faculty, scholars and</li> <li>administrators in specific areas of education, research and outreach. ii) Cooperate in Under</li> <li>Graduate &amp; Post Graduate education and training through library as well as laboratory resources. iii) Organize joint conferences, webinar, symposia, or other scientific meetings on subjects of mutual interest. iv) Exchange of academic information and materials. v) Pursue avenue for under graduate and post graduate student exchange during the academic year, vi)</li> <li>Explore the possibilities for developing joint research programs and collaborations.</li> </ul>	5 years







Tel No.- 03221-255022/ 258700 Website: <u>https://jrc.ac.in</u> Email: jhargramrajcollege@gmail.com

Office of The Principal Jhargram Raj College Govt. of West Bengal P.O. & Dist.- Jhargram, Pin - 721 507

#### MEMORANDUM OF UNDERSTANDING

#### BETWEEN

**Jhargram Raj College**, a reputed academic higher education institution, established in **1949**, located at Jhargram, West Bengal, India, PIN 721507, as the FIRST PARTY;

#### AND

Hijli College, a reputed academic higher education institution, established in 1995, located at Kuchalachati, P.O. Hijli Cooperative, Paschim Medinipur, West Bengal, India, PIN-721306 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 nonbinding 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 & Post Graduate education and training through library 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.
- Pursue avenues for under graduate and post 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







Tel No.- 03221-255022/ 258700 Website: <u>https://jrc.ac.in</u> Email: jhargramrajcollege@gmail.com

Office of The Principal Jhargram Raj College Govt. of West Bengal P.O. & Dist.- Jhargram, Pin – 721 507

#### 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 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 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 seal on this the 14<sup>th</sup>day of March, 2019.

Signed by 1st Party

Dr Debnarayan Roy 14 03 2019 Officer – in - Charge Jhargram Raj College OFFICER - IN - CHARGE

Signed by 2<sup>nd</sup>Party

2019 14/03

Dr. Asis Kumar Dandapat Principal Hijli College

DR. ASIS KUMAR DANDAFAT Principal HIJLI COLLEGE Kharagpur-721306

14.03.19

Signature of Witness: Rahul Kumar Datta

14 03 19

Name Designation

Address

: Dr Rahul Kumar Datta : Associate Professor & Head Dept. of Zoology (UG & PG) : Jhargram Raj College, Jhargram

> DR. RAHUL KUMAR DATTA WBES Associate Professor of Zooloc JHARGRAM RAJ COLLEC Jhargram 721 507 Govt. of West Ber

Name :Dr. Sudip Designation : Coordinat

:Dr. Sudip Kumar Das : Coordinator, IQAC

Signature of Witness: Sudip Kuman Ins

Address: Hijli College, Paschim Medinipur

Principal Jhargram Raj Cellege





## পশ্চিম্বিজ पश्चिम बंगाल WEST BENGAL

### MEMORANDUM OF UNDERSTANDING

#### BETWEEN

Jhargram Raj College, a reputed academic higher education institution, established in 1949, located at Jhargram, West Bengal, India, PIN 721507, as the FIRST PARTY;

#### AND

Hijli College, a reputed academic higher education institution, established in 1995, located at Kuchalachati, P.O. Hijli Cooperative, Paschim Medinipur, West Bengal, India, PIN-721306 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 reciprocity of benefits. NOW and the 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 & Post Graduate education and training through library 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.
- Pursue avenues for under graduate and post 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.

#### 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 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 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 seal on this the 14<sup>th</sup>day of March, 2024.

Signed by 1st Party Dr Debnaravan Rov Principal Jhargram Raj College Principal Jhargram Raj College Jhargram, West Bengal- 721507 Signature of Witness: 14 03 2024

Name : Dr Rahul Kumar Datta Designation : Coordinator, IQAC Address : Jhargram Raj College, Jhargram Signed by 2<sup>nd</sup>Party

14 03 2024 Dr. Asis Kumar Dandapat Principal

Hijli College DR. ASIS KUMAR DANDAPAT Principal HIJLI COLLEGE Kharagpur-721306 Signature of Witness: Sudif Kuma JZ, 14/03/24

Name :Dr. Sudip Kumar Das Designation : Coordinator, IQAC Address: Hijli College, Paschim Resinipur







# HIJLI COLLEGE

(Recognized by UGC under section 2(f) and 12-B and Govt. of West Bengal and Affiliated to Vidyasagar University) P.O. : Hijli Co-operative, Kharagpur, Dist.: Paschim Medinipur, West Bengal, India PIN- 721306

Ref. No. HC/MA/JRC/ 41/2024

Date: 22/05/24

### MUTUAL ACTIVITIES CONDUCTED UNDER MOU

(Faculty Exchange)

Colleges involved under MoU: Jhargarm Raj College & Hijli College

We do hereby declare the following activities have been conducted as per the MoU signed between the two colleges.

Si. No.	Dates of Activities	Nature of activity	Recourse person	Conducted at	Beneficiary
			Session 2022-23		The second second
1	10.03.2023, 13.04.2023,	Special Lecture	Dr. Shubhadip Sau Assistant Professor of Physics Jhargram Raj College	Hijli College	Students of Physics UG Sem-IV, Hijli College
2.	20.03.2023, 17.04.2023	Special Lecture	Sri Arabinda Samanta Assistant Professor of Botany Jhargram Raj College	Hijli College	Students of Botany UG Sem-VI, Hijli College



Principal Hijli College

Principal HIJLI COLLEGE Kharagpur-721306











Egra Sarada Shashi Bhusan College

Sl. No.	Name of the MoU / linkage	Name of the institution / industry with whom the MoU / linkage is made, with contact details	Year of signing MoU / linkage	Purpose of the MoU/Linkage (internship, on-the- job training, project work, student / faculty exchange and collaborative research)	Duration of MoU / linkage
14	MoU, Academic collaboration	Egra Sarada Shashi Bhusan College, Egra, Dist-Purba Medinipur, PIN- 721429, West Bengal, India	2019	<ul> <li>i) Visits and formal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach. ii) Cooperate in Under Graduate &amp; Post Graduate education and training through library as well as laboratory resources. iii) Organize joint conferences, webinar, symposia, or other scientific meetings on subjects of mutual interest. iv) Exchange of academic information and materials. v) Pursue avenue for under graduate and post graduate student exchange during the academic year, vi) Explore the possibilities for developing joint research programs and collaborations.</li> </ul>	5 years





## **MEMORANDUM OF UNDERSTANDING (MOU)**



Between JHARGRAM RAJ COLLEGE

Jhargram , West Bengal 721507 &

EGRA SARADA SHASHI BHUSAN COLLEGE EGRA: PURBA MEDINIPUR-721429



This agreement between Jhargram Raj College, Jhargram West Bengal, 721507 and Egra Sarada Shashi Bhusan College, Egra, Purba Medinipur-721429 is signed on the 10<sup>th</sup> July, 2019.

#### Scope of the MOU:

The basic objective of this MOU is to promote academic exchange in terms of exchange of faculty and academic association and research activites between the two colleges to enrich academic exchange where Faculties of Jhargram Raj College, Jhargram and Egra Sarada Shashi Bhusan College will be involved in resource sharing and academic associations like organizing seminars, workshops, special talks etc.

#### **Objectives:**

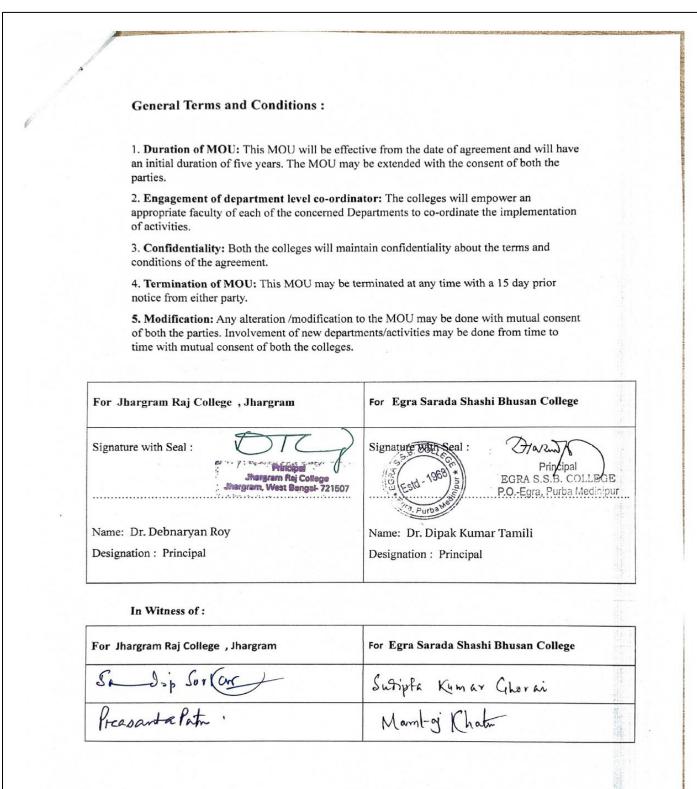
- Faculty exchange for Special Lectures, Workshop, Seminars, and Academic Exercise.
- 2. Conduct collaborative research and share ideas in different fields of science.

3. Students and teachers may visit and use library resources of both the collages as per need.

4. All such activities will be done as per existing guidelines of the university, State Government and UGC.











# GRA SARADA SHASHI BHUSAN COLLEGE



ESTD. : 1968 (Reaccredited by NAAC with – 'B' Grade with a CGPA of 2.32) An ISO Certified College for ISO 9001 : 2015 & ISO 14001 : 2015 Post – Egra : Dist – Purba Medinipur (West Bengal) : Pin – 721429. President : Mr. Tarun Kumar Maity, M.L.A., W.B. Principal : Dr. Dipak Kumar Tamili.

**EXAMPLE 103220-244073, Website -** <u>www.egrassbcollege.ac.in</u> : E-mail – <u>info@egrassbcollege.ac.in</u>

# MUTUAL ACTIVITIES CONDUCTED UNDER MOU

(Faculty Exchange)

Colleges involved under MoU: Jhargarm Raj College & Egra Sarada Shashibhushan College We do hereby declare the following activities have been conducted as per the MoU signed between the two colleges.

Si.	Dates of	Nature	Recourse person	Conducted at	Beneficiary
No.	Activities	of			
		activity			
	•	•	Session 2022-23	•	
1	15.03.2023,	Special	Dr. Susovan	Egra Sarada	Students of
	13.04.2023,	Lecture	Mandal	Shashibhushan	Chemistry UG
			Assistant Professor	College	Sem-VI, Egra
			of Chemistry		Sarada
			Jhargram Raj College		Shashibhushan
			College		College
2.	14.04.2023,	Special	Dr. Arghya	Egra Sarada	Students of
	02.05.2023	Lecture	Ghosh	Shashibhushan	Botany UG
			Assistant Professor	College	Sem-VI, Egra
			of Botany		Sarada
			Jhargram Raj College		Shashibhushan
			Concee		College

0

Principa Egra S.S.B.Colleg

Principal EGRA S.S.B. COLLEGE P.O.-Egra, Purba Medinipur





**Government General Degree College, Gopiballavpur II** 

Sl. No.	Name of the MoU / linkage	Name of the institution / industry with whom the MoU / linkage is made, with contact details	Year of signing MoU / linkage	Purpose of the MoU/Linkage (internship, on-the- job training, project work, student / faculty exchange and collaborative research)	Duration of MoU / linkage
15	MoU, Academic collaboration	Government General Degree College, Gopiballavpur II, Dist- Jhargram, PIN-721517, West Bengal, India	2019	<ul> <li>i) Visits and formal exchanges of faculty, scholars and</li> <li>administrators in specific areas of education, research and outreach. ii) Cooperate in Under</li> <li>Graduate &amp; Post Graduate education and training through library as well as laboratory resources. iii) Organize joint conferences, webinar, symposia, or other scientific meetings on subjects of mutual interest. iv) Exchange of academic information and materials. v) Pursue avenue for under graduate and post graduate student exchange during the academic year, vi)</li> <li>Explore the possibilities for developing joint research programs and collaborations.</li> </ul>	4 years







Tel No.- 03221-255022/ 258700 Website: <u>https://jrc.ac.in</u> Email: jhargramrajcollege@gmail.com

Office of The Principal Jhargram Raj College Govt. of West Bengal P.O. & Dist.- Jhargram, Pin – 721 507

#### MEMORANDUM OF UNDERSTANDING

#### BETWEEN

**Jhargram Raj College**, a reputed academic higher education institution, established in **1949**, located at Jhargram, West Bengal, India, PIN 721507, as the FIRST PARTY;

#### AND

Govt. General Degree College, Gopiballavpur-II, a reputed academic higher education institution, established in 2015, located at P.O. Beliaberah, Jhargram, West Bengal, India, PIN - 721517 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 nonbinding 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 & Post Graduate education and training through library 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.
- Pursue avenues for under graduate and post 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







Tel No.- 03221-255022/ 258700 Website: <u>https://jrc.ac.in</u> Email: jhargramrajcollege@gmail.com

Office of The Principal Jhargram Raj College Govt. of West Bengal P.O. & Dist.- Jhargram, Pin – 721 507

#### 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 **four 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 seal on this the 24<sup>th</sup> day of August, 2019.

FFICER - IN - CHAF

Signed by 1<sup>st</sup> Party

Dr. Debnarayan Roy Officer-in-Charge Jhargram Raj College

Signature of Witness: 24 08

Name : Dr. Rahul Kumar Datta Designation : Associate Professor & Head, Department of Zoology Address: Jhargram Raj College, Jhargram

DR. RAHUL KUMAR DATTA WBES Associate Professor of Zoology JHARGRAM RAJ COLLEGE Jhargram 721 507 Govt. of West Bengel Signed by 2<sup>nd</sup>Party

Dr. Sujit Kisku Officer-in-Charge Govt. General Degree College, Gopiballavpur-II RGE OFFICER - IN - CHARGE Govt. General Degree College Gopiballavpur - II

Delentra Neutr Das 24-08-2019 Signature of Witness:

Name : Sri Jitendranath Das Designation : Coordinator, IQAC

Address : Govt. General Degree College, Gopiballavpur-II

CO-ORDINATOR, IQAC GOVT. GENERAL DEGREE COLLEGE GOPIBALLAVPUR-II





Date: 14.12.2022

# MUTUAL ACTIVITIES CONDUCTED UNDER MOU

(Faculty Exchange)

Colleges involved under MoU: Jhargarm Raj College & Govt. General Degree College, Gopiballavpur II

We do hereby declare the following activities have been conducted as per the MoU signed between the two colleges.

Si. No.	Dates of Activities	Nature of activity	Recourse person	Conducted at	Beneficiary
			Session 2022-23		-
1	16.11.2022, 14.12.2022,	Special Lecture	Dr. Tanmay Singha Mahapatra Assistant Professor of Bengali Jhargram Raj College	GGDC Gopiballavpur- II	Students of Bengali UG Sem-III, GGDC Gopiballavpur II
2	02.12.2022, 09.12.2022	Special Lecture	Sri Susen Gangopadhyay Assistant Professor of History Jhargram Raj College	GGDC Gopiballavpur- II	Students of History UG Sem-III, GGDC Gopiballavpur II

Officer-in-Charge Government General Degree College, Gopiballavpur-II OFFICER - IN - CHARGE Govt. General Degree College Gopiballavpur - II

Principal Jhargram Raj Celleg



Nayagram Pandit Raghunath Murmu Government College

Sl. No.	Name of the MoU / linkage	Name of the institution / industry with whom the MoU / linkage is made, with contact details	Year of signing MoU / linkage	Purpose of the MoU/Linkage (internship, on-the- job training, project work, student / faculty exchange and collaborative research)	Duration of MoU / linkage
16	MoU, Academic collaboration	Nayagram Pandit Raghunath Murmu Government College, Baligeria, Dist-Jhargram, PIN- 721125, West Bengal, India	2019	<ul> <li>i) Visits and formal exchanges of faculty, scholars and</li> <li>administrators in specific areas of education,</li> <li>research and outreach. ii) Cooperate in Under</li> <li>Graduate &amp; Post Graduate</li> <li>education and training</li> <li>through library as well as</li> <li>laboratory resources. iii)</li> <li>Organize joint</li> <li>conferences, webinar,</li> <li>symposia, or other</li> <li>scientific meetings on</li> <li>subjects of mutual</li> <li>interest. iv) Exchange of</li> <li>academic information and</li> <li>materials. v) Pursue</li> <li>avenue for under graduate</li> <li>and post graduate student</li> <li>exchange during the</li> <li>academic year, vi)</li> <li>Explore the possibilities</li> <li>for developing joint</li> <li>research programs and</li> <li>collaborations.</li> </ul>	4 years







Tel No.- 03221-255022/ 258700 Website: <u>https://jrc.ac.in</u> Email: jhargramrajcollege@gmail.com

Office of The Principal Jhargram Raj College Govt. of West Bengal P.O. & Dist.- Jhargram, Pin – 721 507

#### MEMORANDUM OF UNDERSTANDING

#### BETWEEN

**Jhargram Raj College**, a reputed academic higher education institution, established in **1949**, located at Jhargram, West Bengal, India, PIN 721507, as the FIRST PARTY;

#### AND

Nayagram Pandit Raghunath Murmu Govt. College, a reputed academic higher education institution, established in 2014, located at P.O. Baligeria, Jhargram, PIN – 721125 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 nonbinding 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 & Post Graduate education and training through library 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.
- Pursue avenues for under graduate and post 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







Tel No.- 03221-255022/ 258700 Website: <u>https://irc.ac.in</u> Email: jhargramrajcollege@gmail.com

## Office of The Principal Jhargram Raj College Govt. of West Bengal P.O. & Dist.- Jhargram, Pin – 721 507

#### 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 **four 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 seal on this the **24<sup>th</sup> day of August**, **2019**.

Signed by 1<sup>st</sup> Party

Dr. Debnarayan Roy Officer-in-Charge Jhargram Raj College

OFFICER - IN - CHARGE JHARGRAM RAJ COLLECT Signature of Witness: D. P. / P.

Name : Dr. Rahul Kumar Datta Designation : Associate Professor & Head, Department of Zoology Address: Jhargram Raj College, Jhargram A

> .C. RAHUL KUMAR DAT WBES Associate Professor of Zoology JHARGRAM RAJ COLLEGE Jhargram 721 507 Govt. of West Bengal

Signed by 2<sup>nd</sup>Party

Dr. Netai Chandra Das Officer-in-Charge Nayagram Pandit Raghunath Murmu Govt. College PRINCIPAL / OFFICER-IN-CHARGE NAYAGRAM P.R.M. GOVT. COLLEGE BALIGERIA, NAY

WEST BLAND WARGRAM

Signature of Witness:

SK Nasim Al. 24.08-2019

Name : Sk. Nasim Ali Designation : Coordinator, IQAC

Address: Nayagram Pandit Raghunath Murmu Govt. College

IQAC Nayagram P.R.M. Govt. College Baligeria, Jhargram, 721125





# GOVERNMENT OF WEST BENGAL NAYAGRAM PANDIT RAGHUNATH MURMU GOVERNMENT COLLEGE Office of the Principal BALIGERIA, NAYAGRAM, JHARGRAM, 721125

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Memo No.:31/macum /23 Date: 17/04/.2023 MUTUAL ACTIVITIES CONDUCTED UNDER MOU

(Faculty Exchange)

Colleges involved under MoU: Jhargarm Raj College & Nayagram Pandit Raghunath Murmu Govt. College

We do hereby declare the following activities have been conducted as per the MoU signed between the two colleges.

Si.	Dates of	Nature of	Recourse person	Conducted at	Beneficiary
No.	Activities	activity			
			Session 2022-23		
1	10.04.2023, 17.04.2023,	Special Lecture	Shouvik Biswas Assistant Professor of Sanskrit Jhargram Raj College	Nayagram Pandit Raghunath Murmu Govt. College	Students of Sanskrit UG Sem-IV, Nayagram Pandit Raghunath Murmu Govt. College
2.	16.09.2022, 10.11.2022	Special Lecture	Dr. Tanmoy Singha Mahapatra Assistant Professor of Bengali Jhargram Raj College	Nayagram Pandit Raghunath Murmu Govt. College	Students of Bengali UG Sem-III, Nayagram Pandit Raghunath Murmu Govt. College

Officer-in-Charge Nayagram Pandit Raghunath Murmu Govt. College PRINCIPAL / OFFICER-IN-CHARGE NAYAGRAM P.1 OVT. COLLEGE

WEST BENGAL, 721125

BALIGERIA, NA'.



M, JHARGRAM



# **Garhbeta College**

SI. No.	Name of the MoU / linkage	Name of the institution / industry with whom the MoU / linkage is made, with contact details	Year of signing MoU / linkage	Purpose of the MoU/Linkage (internship, on-the- job training, project work, student / faculty exchange and collaborative research)	Duration of MoU / linkage
17	MoU, Academic collaboration	Garhbeta College, Garhbeta, Dist- Paschim Medinipur, PIN-721101, West Bengal, India	2020	<ul> <li>i) Visits and formal exchanges of faculty, scholars and</li> <li>administrators in specific areas of education,</li> <li>research and outreach. ii) Cooperate in Under</li> <li>Graduate &amp; Post Graduate</li> <li>education and training</li> <li>through library as well as</li> <li>laboratory resources. iii)</li> <li>Organize joint</li> <li>conferences, webinar,</li> <li>symposia, or other</li> <li>scientific meetings on</li> <li>subjects of mutual</li> <li>interest. iv) Exchange of</li> <li>academic information and</li> <li>materials. v) Pursue</li> <li>avenue for under graduate</li> <li>and post graduate student</li> <li>exchange during the</li> <li>academic year, vi)</li> <li>Explore the possibilities</li> <li>for developing joint</li> <li>research programs and</li> <li>collaborations.</li> </ul>	4 years





Garhbete College Garhbeta, Paschim Medinipur

# GOVERNMENT OF WEST BENGAL OFFICE OF THE PRINCIPAL JHARGRAM RAJ COLLEGE, JHARGRAM, WEST BENGAL 721507 PHONE: 03221-255022 P. O.: JHARGRAM DIST.: JHARGRAM Website: https://jrc.ac.in



GARHBETA COLLEGE

(Affiliated to Vidyasagar University) Accredited by NAAC Website : www.garhbetacollege.ac.in E-mail : garhbetacollege48@gmail.com Phone No. - (03227) 265143/267154

◆ A1 - GARHBETA ◆ P.O.: GARHBETA ◆ DIST.: PASCHIM MEDINIPUR ◆ STATE.; WEST BENGAL ◆ PIN- 721127



# MEMORANDUM OF UNDERSTANDING

### BETWEEN

**GARHBETA COLLEGE, Garhbeta , Paschim Medinipur** a reputed academic higher education institution, established in 1948, located at Garhbeta , Paschim Medinipur, PIN - 721101, West Bengal, India as the **FIRST PARTY**;

#### AND

JHARGRAM RAJ COLLEGE, a reputed academic higher education institution, established in 1949, located at Jhargram, West Bengal, India, Pin 721507 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 & Post Graduate education and training through library as well as laboratory resources.
- Organize joint conferences, seminar, symposia, or other scientific meetings on subjects of mutual interest.

Continued to Page-2







- Exchange of academic information and materials.
- Pursue avenues for under graduate and post 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.

#### 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 four 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 11<sup>th</sup> day of March, 2020.



Signed by 1 Dr Hariprasad Sarkar) Principal Garhbeta conegal College Garhbeta Garhbeta, Paschim Medinipur (But 11,3,2020

#### Signature of Witness :

Name Designation Address : Dr Prithwish Kr. Hait : Associate Professor in Economics : Garhbeta College

Signed by 2nd Party 03/2020 (Dr Debnarayan Roy Principal Officer-in Jhargram Raj College OFFICER - IN - CHARGE 2020 Signature of Witness :

Name: Dr. Rahul Kumar Datta Designation: Associate Professor in Zoology Address: Jhargram Raj College, Jhargram

> Associate Professor Jhargram Raj College







GARHBETA COLLEGE (Affiliated to Vidyasagar University) Accredited by NAAC Website : www.garhbetacollege.ac.in E-mail : garhbetacollege48@gmail.com Phone No. - (03227) 265143/267154

♦ AI - GARHBETA ♦ P.O.: GARHBETA ♦ DIST.: PASCHIM MEDINIPUR ♥ STATE.; WEST BENGAL ♥ PIN- 721127

# MUTUAL ACTIVITIES CONDUCTED UNDER MOU

(Faculty Exchange)

Colleges involved under MoU: Jhargarm Raj College & Garhbeta College

We do hereby declare the following activities have been conducted as per the MoU signed between the two colleges.

Si. No.	Dates of Activities	Nature of activity	Recourse person	Conducted at	Beneficiary
			Session 2022-23		
1	08.08.2022, 22.08.2022, 14.11.2022	Special Lecture	<b>Dr. Krishnendu</b> Sinha Assistant Professor of Zoology Jhargram Raj College	Garhbeta College	Students of Zoology PG Sem-III, Garhbeta College
2.	17.08.2022, 17.11.2022	Special Lecture	<b>Dr. Dipankar</b> <b>Mondal</b> Assistant Professor of Bengali Jhargram Raj College	Garhbeta College	Students of Bengali PG Sem-III, Garhbeta College
3	08.08.2022, 22.08.2022, 14.11.2022	Special Lecture	<b>Sri Srijit Ghosh</b> Assistant Professor of Physiology Jhargram Raj College	Garhbeta College	Students of Physiology PG Sem-V, Garhbeta College

non Dr. Hariprasad Sa

Principal Garhbeta College *Principal* Garhbeta College Garhbeta,Paschim Medinipur











# **Gourav Guin Memorial College**

Sl. No.	Name of the MoU / linkage	Name of the institution / industry with whom the MoU / linkage is made, with contact details	Year of signing MoU / linkage	Purpose of the MoU/Linkage (internship, on-the- job training, project work, student / faculty exchange and collaborative research)	Duration of MoU / linkage
18	MoU, Academic collaboration	Gourav Guin Memorial College, Satbankura, Dist-Paschim Medinipur, PIN-721253, West Bengal, India	2022	<ul> <li>i) Visits and formal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach. ii) Cooperate in Under Graduate &amp; Post Graduate education and training through library as well as laboratory resources. iii) Organize joint conferences, webinar, symposia, or other scientific meetings on subjects of mutual interest. iv) Exchange of academic information and materials. v) Pursue avenue for under graduate and post graduate student exchange during the academic year, vi) Explore the possibilities for developing joint research programs and collaborations.</li> </ul>	5 years







Tel No.- 03221-255022/ 258700 Website: <u>https://jrc.ac.in</u> Email: jhargramrajcollege@gmail.com

Office of The Principal Jhargram Raj College Govt. of West Bengal P.O. & Dist.- Jhargram, Pin – 721 507

### MEMORANDUM OF UNDERSTANDING

### BETWEEN

**Jhargram Raj College**, a reputed academic higher education institution, established in **1949**, located at Jhargram, West Bengal, India, PIN 721507, as the FIRST PARTY;

### AND

Gourav Guin Memorial College, a reputed academic higher education institution, established in 2008, located at C.K. Road, P.O.- Satbankura, Paschim Meduinipur, PIN -721253 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 nonbinding 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 & Post Graduate education and training through library 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.
- Pursue avenues for under graduate and post 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







Tel No.- 03221-255022/ 258700 Website: <u>https://irc.ac.in</u> Email: jhargramrajcollege@gmail.com

Office of The Principal Jhargram Raj College Govt. of West Bengal P.O. & Dist.- Jhargram, Pin – 721 507

## 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 **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 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 seal on this the 1<sup>st</sup> day of April, 2022.

Signed by 2<sup>nd</sup>Party Signed by 1<sup>st</sup> Party 01.04.20 22 Dr. Anupam Parua Dr Debnarayan Roy Principal Principal **Gourav Guin Memorial College** Jhargram Raj College Principai Principal Gourav Guin Memorial College Jhargram Raj College Jhargram, West Bengal- 721507 C. K. Road Satbankura Paschim Medinipur, 721253 Signature of Witness: Signature of Witness: Mumara Unmar Gliarai 01/04/2022 : Sri Tinku Kumar Ghorai : Dr Rahul Kumar Datta Name Name : Coordinator, IQAC : Coordinator, IQAC Designation Designation Address : Gourav Guin Memorial College : Jhargram Raj College, Jhargram Address CU-US Saiddling Internal Quality Assurance Ce. Jhargram Raj College Jhargram, West Bengal







Ref. No. .....

Date .....

# MUTUAL ACTIVITIES CONDUCTED UNDER MOU

(Faculty Exchange)

Colleges involved under MoU: Jhargarm Raj College & Gourav Guin Memorial College

We do hereby declare the following activities have been conducted as per the MoU signed between the two colleges.

Si.	Dates of	Nature of	Recourse person	Conducted at	Beneficiary						
No.	Activities	activity									
	Session 2022-23										
1	09.12.2022, 16.12.2022	Special Lecture	Sk. Sikandar Ansari Assistant Professor of Pol. Sc Jhargram Raj College	Gourav Guin Memorial College	Students of Pol. Sc. UG Sem-III, Gourav Guin Memorial College						
2.	10.08.2022, 17.08.2022	Special Lecture	Smt. Baishakhi Kundu Assistant Professor of Bengali Jhargram Raj College	Gourav Guin Memorial College	Students of Bengali UG Sem- III, Gourav Guin Memorial College						



17.12.22.

Principal <sup>17,12.</sup> Gourav Guin Memorial College

Principaî Gourav Guin Memorial College C. K. Road, Satbankura Paschim Medinipur, 721253





# Chandrakona Vidyasagar Mahavidyalaya

Sl. No.	Name of the MoU / linkage	Name of the institution / industry with whom the MoU / linkage is made, with contact details	Year of signing MoU / linkage	Purpose of the MoU/Linkage (internship, on-the- job training, project work, student / faculty exchange and collaborative research)	Duration of MoU / linkage
19	MoU, Academic collaboration	Chandrakona Vidyasagar Mahavidyalaya, Chandrakona, Dist- Paschim Medinipur, PIN-721201, West Bengal, India	2022	<ul> <li>i) Visits and formal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach. ii) Cooperate in Under Graduate &amp; Post Graduate education and training through library as well as laboratory resources. iii) Organize joint conferences, webinar, symposia, or other scientific meetings on subjects of mutual interest. iv) Exchange of academic information and materials. v) Pursue avenue for under graduate and post graduate student exchange during the academic year, vi) Explore the possibilities for developing joint research programs and collaborations.</li> </ul>	5 years







Tel No.- 03221-255022/ 258700 Website: <u>https://jrc.ac.in</u> Email: jhargramrajcollege@gmail.com

Office of The Principal Jhargram Raj College Govt. of West Bengal P.O. & Dist.- Jhargram, Pin – 721 507

#### MEMORANDUM OF UNDERSTANDING

#### BETWEEN

**Jhargram Raj College**, a reputed academic higher education institution, established in **1949**, located at Jhargram, West Bengal, India, PIN 721507, as the FIRST PARTY;

#### AND

Chandrakona Vidyasagar Mahavidyalaya, a reputed academic higher education institution, established in 1985, located at P.O.- Chandrakona, Paschim Medinipur, PIN -721201 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 nonbinding 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 & Post Graduate education and training through library 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.
- Pursue avenues for under graduate and post 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







Tel No.- 03221-255022/ 258700 Website: <u>https://jrc.ac.in</u> Email: jhargramrajcollege@gmail.com

Office of The Principal Jhargram Raj College Govt. of West Bengal P.O. & Dist.- Jhargram, Pin – 721 507

#### 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 **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 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 seal on this the 4<sup>th</sup> day of January, 2022.

Signed by 1<sup>st</sup> Party

04 01 Dr Debnarayan Roy

Principal Jhargram Raj College

Principal Jhargram Raj College Jhargram, West Bengal- 721507

Signature of Witness:

Name: Dr. Rahul Kumar DattaDesignation: Coordinator, IQACAddress: Jhargram Raj College, Jhargram

Signed by 2<sup>nd</sup>Party



Dr. Manoranjan Goswami Principal Chandrakona Vidyasagar Mahavidyalaya

> Principel, handrakona Vidyasagar Mahavidyhalay: Chandrakona :: Paschim Medinipur

Signature of Witness:

 Name
 : Dr. Subhrajit Dutta

 Designation
 : Coordinator, IQAC

 Address
 : Chandrakona Vidyasagar Mahavidyalaya

L.Q.A.C. Co-ordinator Chandratione Vidyasagar Mathanidyalaya E-ma subhrojuphys@gmail.com





(Affiliated to Vidyasagar University) Chandrakona \* Paschim Medinipur \* West Bengal \* Pin - 721201:5 Email : chandrakonavm@gmail.com \* Website : www.chandrakonavm.ac.in

Ref. No .....

Date .....

Mobile No.- 9434223896

Phone : (03225) 266-294 (Office)

Tele Fax : (03225) 267 - 279 (Principal's Chamber)

# MUTUAL ACTIVITIES CONDUCTED UNDER MOU

(Faculty Exchange)

Colleges involved under MoU: Jhargarm Raj College & Chandrakona Vidyasagar Mahavidyalaya

We do hereby declare the following activities have been conducted as per the MoU signed between the two colleges.

Si.	Dates of Activities	Nature of activity	Recourse person	Conducted at	Beneficiary
No.	Activities	action of the second se	Session 2022-23		
1	15.07.2022, 05.08.2022, 26.0832022	Special Lecture	Sri Shouvik Biswas Assistant Professor of Sanskrit Jhargram Raj College	Chandrakona Vidyasagar Mahavidyalaya	Students of Sanskrit UG Sem- III, Chandrakona Vidyasagar Mahavidyalaya
2.	18.07.2022, 25.07.2022	Special Lecture	Sri Sujan Pramanik Assistant Professor of Philosophy Jhargram Raj College	Chandrakona Vidyasagar Mahavidyalaya	Students of Philosophy UG Sem-III, Chandrakona Vidyasagar Mahavidyalaya
3	21.11.2022, 28.11.2022	Special Lecture	Sri Sayantan Roy Assistant Professor of Mathematics Jhargram Raj College	Chandrakona Vidyasagar Mahavidyalaya	Students of Mathematics UG Sem-V, Chandrakona Vidyasagar Mahavidyalaya

Principal Chandrakona Vidyasagar Mahavidyalaya Principal, Chandrakona Vidyasagar Mehavidyalaya Chandrakona, Paschim Medinipur





# Sahid Matangini Hazra Governmnet College for Women

SI. No.	Name of the MoU / linkage	Name of the institution / industry with whom the MoU / linkage is made, with contact details	Year of signing MoU / linkage	Purpose of the MoU/Linkage (internship, on-the- job training, project work, student / faculty exchange and collaborative research)	Duration of MoU / linkage
20	MoU, Academic collaboration	Sahid Matangini Hazra Governmnet College for Women, Tamluk, Dist- Purba Medinipur, PIN-721649, West Bengal, India	2022	<ul> <li>i) Visits and formal exchanges of faculty, scholars and administrators in specific areas of education, research and outreach. ii) Cooperate in Under Graduate &amp; Post Graduate education and training through library as well as laboratory resources. iii) Organize joint conferences, webinar, symposia, or other scientific meetings on subjects of mutual interest. iv) Exchange of academic information and materials. v) Pursue avenue for under graduate and post graduate student exchange during the academic year, vi) Explore the possibilities for developing joint research programs and collaborations.</li> </ul>	5 years







Tel No.- 03221-255022/ 258700 Website: https://jrc.ac.in Email: jhargramrajcollege@gmail.com

Office of The Principal **Jhargram Raj College Govt. of West Bengal** P.O. & Dist.- Jhargram, Pin - 721 507

# MEMORANDUM OF UNDERSTANDING

## **BETWEEN**

Jhargram Raj College, a reputed academic higher education institution, established in 1949, located at Jhargram, West Bengal, India, PIN 721507, as the FIRST PARTY;

### AND

Sahid Matangini Hazra Govt. College for Women, a reputed academic higher education institution, established in 2015, located at P.O. Chak Srikrishnapur, P.O. Kulberia, PS -Tamluk, Purba Medinipur, West Bengal, India, PIN-721649 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:

#### Objectives, Scope, and Major Activities 1.

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 & Post Graduate education and training through library 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.
- Pursue avenues for under graduate and post graduate student exchange during the academic year.
- Explore the possibilities for developing joint research programs and collaborations.

#### **Responsibilities of the Institutions** 2.

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







Tel No.- 03221-255022/ 258700 Website: https://jrc.ac.in Email: jhargramrajcollege@gmail.com

Office of The Principal Jhargram Raj College **Govt. of West Bengal** P.O. & Dist.- Jhargram, Pin - 721 507

#### 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 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 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.

#### Signatures 5.

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 seal on this the 7<sup>th</sup>day of February, 2022.

20

Signed by 1st Party

Dr Debnarayan Roy

Principal

Jhargram Raj College

Principal

Jhargram Raj College

Signed by 2<sup>nd</sup>Party

College

for

Women

Dr.Bijoy<sup>®</sup>Krishna Roy Principal General Degree Sahid Matangini Hazra Govt. College for Women

Principal Shahid Matangini Hazra Government General Degrae College for Women Chataritrishnepur, Kulberia, Nimtouri Tâmluk, Purbe Medinipur

Signature of Witness:

ahulk unar Dattao7/02/2022

Signature of Witness: Parker Sere :Smt Piku Dasgupta

: Dr Rahul Kumar Datta Name Designation : Co-ordinator, IQAC Address

: Associate Professor of Pol. Science Designation : Jhargram Raj College, Jhargram Address: Sahid Matangini Hazra Govt

Name

**Co-ordinator** Internal Quality Assurance Cell Jhargram Raj College Jhargram, West Bengal

IQAC Co-Ordi ahid Matangini Hazr eneral Degree C

Principal Jhargram Raj Cellege



# MUTUAL ACTIVITIES CONDUCTED UNDER MOU

(Faculty Exchange)

Colleges involved under MoU: Jhargarm Raj College & Shahid Matangini Hazra Govt. General Degree College for Women

I do hereby declare the following activities have been conducted as per the MoU signed between the two colleges.

Si.	Dates of	Nature of	Recourse person	Conducted at	Beneficiary				
No.	Activities	activity	•						
Session 2022-23									
1	27.04.2023, 04.05.2023,	Special Lecture	Sri Tapas Adaldar Assistant Professor of Chemistry Jhargram Raj College	Shahid Matangini Hazra Govt. General Degree College for Women	Students of B.Sc. UG Sem- IV, Shahid Matangini Hazra Govt. General Degree College for Women				
2.	31.03.2023, 11.04.2022	Special Lecture	Smt. Poulomi Chakraborty Assistant Professor of Philosophy Jhargram Raj College	Shahid Matangini Hazra Govt. General Degree College for Women	Students of Philosophy UG Sem-VI, Shahid Matangini Hazra Govt. General Degree College for Women				



Principal

Shahid Matangini Hazra Govt. General Degree College for Women Proceeding for Women General Degree College for Women General Degree College for Women Chalanthristnaper, Kutherle, Nimtouri Timbut, Purba Bedinipyi





# Sevayatan Sikshan Mahavidyalaya

Sl. No.	Name of the MoU / linkage	Name of the institution / industry with whom the MoU / linkage is made, with contact details	Year of signing MoU / linkage	Purpose of the MoU/Linkage (internship, on-the- job training, project work, student / faculty exchange and collaborative research)	Duration of MoU / linkage
21	MoU, Academic collaboration	Sevayatan Sikshan Mahavidyalaya, Sevayatan, Jhargram, PIN-721514, West Bengal, India	2022	<ul> <li>i) Visits and formal exchanges of faculty, scholars and</li> <li>administrators in specific areas of education,</li> <li>research and outreach. ii) Cooperate in Under</li> <li>Graduate &amp; Post Graduate</li> <li>education and training</li> <li>through library as well as</li> <li>laboratory resources. iii)</li> <li>Organize joint</li> <li>conferences, webinar,</li> <li>symposia, or other</li> <li>scientific meetings on</li> <li>subjects of mutual</li> <li>interest. iv) Exchange of</li> <li>academic information and</li> <li>materials. v) Pursue</li> <li>avenue for under graduate</li> <li>and post graduate student</li> <li>exchange during the</li> <li>academic year, vi)</li> <li>Explore the possibilities</li> <li>for developing joint</li> <li>research programs and</li> <li>collaborations.</li> </ul>	4 years





Phone: (9474959985) SEVAYATAN SIKSHAN MAHAVIDYALAYA A Govt. Sponsored College Established in 1959 Affiliated to VU & WBUTTEPA and Recognized by the NCTE: Letter No. ERC/7-87.6(1). 3/2008/11885)

(Affiliated to VU & WBUTTEPA and Recognized by the NCTE: Letter No. ERC/787.6(1). 5/2006/11885) Revised Letter No. – ERC/NCTE/(APE00720)/B.Ed.(Revised Order)/2015/32494, Dtd. 30-05-2015. P.O.: Sevayatan, Dist. - Jhargram, PIN 721514:: WBUTTEPA Code No. 16024 E-mail: ssmahavidyalaya@yahoo.co.in Web: www.ssmahavidyalaya.ac.in

Ref. No. :---

Date:-----

## Memorandum of Understanding (MOU)

Between

Sevayatan Sikshan Mahavidyalaya (Govt. Sponsored College) Sevayatan, Jhargram, PIN - 721514

With

Jhargram Raj College, Govt. College, Jhargram, Pin- 721507

This Memorandum of Understanding (MOU) is interred into the two institutions. Sevayatan Sikshan Mahavidyalaya, Sevayatan, Jhargram, 721514 AND Jhargram Raj College, Govt. College, Jhargram, 721507.

Both the institutions undertake to promote and Develop Co-operation with each other on various activities as listed.

Sevayatan Sikshan Mahavidyalaya Deliverable:

- a) Exchange of students and teachers of PG Course (CBCS) on Environmental Education.
- b) Seminar for all college students/alumni from UG to PG.
- c) Exchange may be implemented in the field of cultural programmes and sports competitions.
- d) Students and teachers may use the resources of college during the exchange and extension activities.
- e) Evaluation System Examination related mater and Publication of result.

f) Collaboration in research or training programme sponsored by different agency. Jhargram Raj College Deliverables:

a) Exchange of students and Teachers of PG Course Bengali (CBCS).

- b) Seminar/Work shop for all college students both UG and PG.
- c) Faculty exchange for special lectures, seminar classes.





- d) Provide necessary infrastructure specially science laboratories.
- e) Exchange may be implemented in the field of cultural programmes and sports competitions.
- f) There is no fund flow one institute to another.
- g) Collaboration in research or training programme sponsored by different agencies.

## General Terms and Conditions:

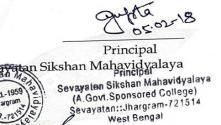
- Any dispute arising during the course of implementation of this initiative will be resolved through mutual discussion by both of the institutions.
- <u>Technical and Financial Support</u>: Technical and Financial Support for each activity will be provided by the concerned college.
- This MOU will remain valid for a period of 04 (Four) years from the date of signing of the MOU. Further renewal of the MOU will be based on mutual discussion and consent of both parties.
- Extension of Agreement According to the willingness of both colleges with prior intimation and permission of the authorities one month before the end of the validity period of 04 (four) years, this may be extended with the written agreement of two colleges.

The parties executed this MOU on 05-02-2018 and will remain valid for four (04) years.

18 5 02 - IN - CHARGE Principal/OIC JHARGRAM RAJ COLLEGE OFFIC Jhargram Raj College

Witness 05.02.18

DR. RAHUL KUMAR DATTA WBES Associate Professor of Zoology JHARGRAM RAJ COLLEGE Jhargram 721 507 Govt. of West Bencal



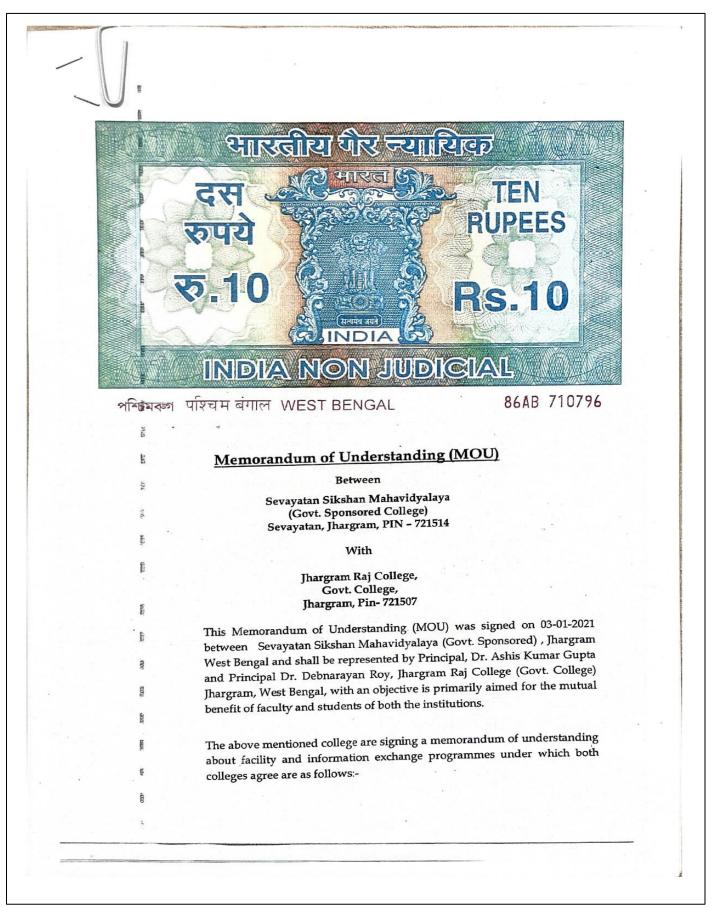
05.02.2018

Co - ordinator Internal Quality Assurance Cell (IOAC) Sevayatan Sikshan Mahavidyalaya Sevayatan, Jhargram Paechim Medinipu,

Sena











-:2:-1. Mutual agreement for free of cost exchange of knowledge and sharing information. Decision about schedule exchange programme will be taken by Principal of both the institutions. 2. Exchange of students and faculty of PG course (CBCS) on Environmental Education and Bengali (CBCS). 3. Method, Procedures and detailed programmes regarding exchange programme will be decided by the Principals and respective faculty members of both the institutes. 4. Exchange programme will depend upon need of students with respect to curriculum and co-curricular activities. 5. Both the institution agreed to collecting publish articles, research papers, book, journals and share the expenses if any. 6. Both the institutions agreed to collecting arrange/organise guest lectures, extension lectures, orientations programmes, seminars, workshops etc. to encourage the research in both the institution. BEN This MOU is valid at least for a period of four (04) years. Maintaining good elations it will be extended further for mutual benefits of institutions. 01.22 202 0 05 Principal Principal Principal/OIC. Jhargram Raj College Jhargram Raj College Jhargram, West Bengal- 72150 ksha Sevayatan Sikshan Mahavidyalaya Sevayatan Sikshan Mahavidyalaya (A.Govt.Sponsored College) Sevayatan::Jhargram-721514 Witness:-West Bengal 05.01.2022 Co - ordinator Co-orginator Internal Quality Assurance Cell (IQAC) Internal Quality Assurance Cell Sevayatan Sikshan Mahavidyalaya Jhargram Raj College Sevayatan, Jhargram. Parchim Medinipu-Jhargram, West Bengal





Phone: (9474959985) SEVAYATAN SIKSHAN MAHAVIDYALAYA A Govt. Sponsored College Established in 1959 (Affiliated to VU & WBUTTEPA and Recognized by the NCTE: Letter No. ERC/7-87.6(1). 3/2008/11885) Revised Letter No. - ERC/NCTE/(APE00720)/B.Ed.(Revised Order)/2015/32494, Dtd. 30-05-2015. P.O.: Sevayatan, Dist. - Jhargram, PIN 721514:: BSAEU Code No. 16024 E-mail: ssmahavidyalaya@yahoo.co.in Web: www.ssmahavidyalaya.ac.in Ref. No. :--Date:-List of Activities Conducted under MOU Between Sevayatan Sikshan Mahavidyalaya & Jhargram Raj College, Jhargram Activities from 2022-2023 SI. Date of **Resource** Person Conducted by Type of Topic No. Activity Activity Discussed Dr. Dipankar Mandal, Sevayatan Sikshan Faculty Special class on 03-10-2022 1 Asst. Professor Mahavidyalaya Exchange **CBCS** Bengali of Bengali Dr. Baishakhi Kundu, Sevayatan Sikshan Faculty Special class on 2 04-10-2022 Asst. Professor Mahavidyalaya Exchange **CBCS** Bengali of Bengali Dr. Debanjan Das, Sevayatan Sikshan Cultural 03-08-2022 3 Asst. Professor Adjudicator Mahavidyalaya Exchange Dept. of Sanskrit Dr. Dipankar Mandal, Sevayatan Sikshan Cultural 03-08-2022 4 Asst. Professor Adjudicator Mahavidyalaya Exchange of Bengali



(Principal) Sevayatan Sikshan Mahavidyalaya Principal Sevayatan Sikshan Mahavidyalaya (A.Govt.Sponsored College) Sevayatan::Jhargram-721514 West Bengal











# **Kharagpur College**

SI. No.	Name of the MoU / linkage	Name of the institution / industry with whom the MoU / linkage is made, with contact details	Year of signing MoU / linkage	Purpose of the MoU/Linkage (internship, on-the- job training, project work, student / faculty exchange and collaborative research)	Duration of MoU / linkage
22	MoU, Academic collaboration	Kharagpur College, Kharagpur, Dist-Paschim Medinipur, PIN- 721305, West Bengal, India	2022	<ul> <li>i) Visits and formal exchanges of faculty, scholars and</li> <li>administrators in specific areas of education,</li> <li>research and outreach. ii) Cooperate in Under</li> <li>Graduate &amp; Post Graduate</li> <li>education and training</li> <li>through library as well as</li> <li>laboratory resources. iii)</li> <li>Organize joint</li> <li>conferences, webinar,</li> <li>symposia, or other</li> <li>scientific meetings on</li> <li>subjects of mutual</li> <li>interest. iv) Exchange of</li> <li>academic information and</li> <li>materials. v) Pursue</li> <li>avenue for under graduate</li> <li>and post graduate student</li> <li>exchange during the</li> <li>academic year, vi)</li> <li>Explore the possibilities</li> <li>for developing joint</li> <li>research programs and</li> <li>collaborations.</li> </ul>	5 years





E-mail: kharagpurcollege@gmail.com

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# KHARAGPUR COLLEGE KHARAGPUR

ESTD.: 1949

P.O.– Inda, Kharagpur, Municipality– Kharagpur, Sub-Division– Kharagpur, P.S.– Kharagpur (T), Dist.– Paschim Medinipur, West Bengal, PIN– 721305.

### MEMORANDUM OF UNDERSTANDING

#### BETWEEN

KHARAGPUR COLLEGE, located at O.T Road, Inda, Kharagpur, Dist: Paschim Medinipur, West Bengal, India, PIN 721305 as the FIRST PARTY;

AND

JHARGRAM RAJ COLLEGE, located at Jhargram, Dist: Jhargram, West Bengal, India, Pin 721507 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 & Post Graduate education and training through library 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.
- Pursue avenues for under graduate and post 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



Kharagpur College

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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 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 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 14<sup>th</sup> September, 2022.

Signed by 1st Party



Dr Bidyut Samanta Principal Kharagpur College *Principal* Kharagpur College

#### Signature of Witness:

Name Designation Address J. Framanik : Dr Jyotirmoy Pramanik : Coordinator, IQAC : Kharagpur College Co-ordinator, IQAC Kharagpur College Signed by 2nd Party

Dr Debnarayan Roy Principal Jhargram Raj College

Principal Jhargram Raj College Jhargram, West Bengal- 721507

#### Signature of Witness:

umaro

Name Dr. Rahul Kumar Datta Designation : Coordinator, IQAC Address: Jhargram Raj College, Jhargram

Co-ordinator Internal Quality Assurance Cell Jhargram Raj College Jhargram. West Bengal





E-mail: kharagpurcollege@gmail.com

☎: 03222-225920, 257320 Fax: 03222-227926 Website: www.kharagpurcollege.ac.in



# KHARAGPUR COLLEGE KHARAGPUR

P.O. – Inda, Kharagpur, Block– Kharagpur-1, Sub-Division– Kharagpur, P.S. – Kharagpur (T), Dist. – Paschim Medinipur, West Bengal, PIN– 721305.

# MUTUAL ACTIVITIES CONDUCTED UNDER MOU

(Faculty Exchange)

Colleges involved under MoU: Kharagpur College & Jhargram Raj College

We do hereby declare that the following activities have been conducted as per the MoU signed between the two Colleges.

SI	Dates of activities	Nature of activity	Resource person	Conducted at	Beneficiary
		Sessio	n 2022-2023		
01	27 <sup>th</sup> ,28 <sup>th</sup> ,29 <sup>th</sup> ,30 <sup>th</sup> ,31 <sup>st</sup> January2023 &1 <sup>st</sup> ,2 <sup>nd</sup> ,3 <sup>rd</sup> February 2023	Special lecture	Dr. Mintu Haldar Assistant Professor, of Bengali, Kharagpur College	Jhargram Raj College (Virtual mode)	Students of Bengali PG Semester-I of Jhargram Raj College
02	17.04.2023	Special lecture	Sri Rajkumar Mandi Assistant Professor, of Zoology, Kharagpur College	Jhargram Raj College	Students of UG 4 <sup>th</sup> Semester of Zoology Hons of Jhargram Raj College
03	28.03.2023	Special lecture	Dr. Tapas Ghosh Assistant Professor of Physics, Jhargram Raj College	Kharagpur College	UG Students of Physics Honours, Kharagpur College

Principal Jhargram Raj College Principal Jhargram Raj College



Principal Kharagpur College

Principal Kharagpur College





# Haldia Government College

Sl. No.	Name of the MoU / linkage	Name of the institution / industry with whom the MoU / linkage is made, with contact details	Year of signing MoU / linkage	Purpose of the MoU/Linkage (internship, on-the- job training, project work, student / faculty exchange and collaborative research)	Duration of MoU / linkage
23	MoU, Academic collaboration	Haldia Government College, Haldia, Dist-Purba Medinipur, PIN - 722657, West Bengal, India	2022	<ul> <li>i) Visits and formal exchanges of faculty, scholars and</li> <li>administrators in specific areas of education,</li> <li>research and outreach. ii) Cooperate in Under</li> <li>Graduate &amp; Post Graduate</li> <li>education and training</li> <li>through library as well as</li> <li>laboratory resources. iii)</li> <li>Organize joint</li> <li>conferences, webinar,</li> <li>symposia, or other</li> <li>scientific meetings on</li> <li>subjects of mutual</li> <li>interest. iv) Exchange of</li> <li>academic information and</li> <li>materials. v) Pursue</li> <li>avenue for under graduate</li> <li>and post graduate student</li> <li>exchange during the</li> <li>academic year, vi)</li> <li>Explore the possibilities</li> <li>for developing joint</li> <li>research programs and</li> <li>collaborations.</li> </ul>	5 years





DIA COVERNMENT COLLECT

ESTD. 1988



### **MEMORANDUM OF UNDERSTANDING (MOU)**

### BETWEEN

### HALDIA GOVERNMENT COLLEGE P.O. - DEBHOG, HALDIA, PURBA MEDINIPUR, 721657

AND

# JHARGRAM RAJ COLLEGE JHARGRAM, 721507 WEST BENGAL

P.O. Oebhoo

Raj Colleg 721507 Jhargram, West Bengal-







This MOU is entered into on the 28<sup>th</sup> November, 2022 by and between Haldia Government College, having an address at P.O.- Debhog, Haldia, Purba Medinipur, 721657

And

Jhargram Raj College, having an address at Jhargram, 721507

The aforesaid institutions are hereinafter referred to individually as institute and collectively as institutes.

### **Objectives of the MOU**

1. To promote and enhance academic exchange and cooperation between the institutes.

2. To promote research/continuing education activities between the institutes.

3. To collaborate in organizing Workshops and Conferences.

4. To execute other activities as mutually agrees upon.

### **Terms and Conditions**

1. Initially the MOU will be effective for five years but may be extended if mutually agreed upon by both the institutes.

Prin Jhargram Raj College West Bengal-Jhargram,







2. This MOU may be amended, renewed or terminated by mutual written agreement of the institutes at any time.

3. Either institute shall have the right to terminate this MOU upon 60 days prior written notice to the other institute.

4. Nothing contained in this MOU shall infer or create for either of the institutes, any right over the intellectual or physical property of the other institute.

### **Coordinators**

Both institutes will designate persons who will have responsibility for coordination and implementation of this agreement.

### Signed in Duplicate

This MOU is executed in duplicate with each copy being an official version and having equal legal validity. By signing below, the institutes, acting by their duly authorized signatories, have caused this MOU to be executed and effective from the day, month and year as first above written

Officer-in-Charge

(Dr. Pijush Kanti Tripathi) Officir - In-charge Haldia Government College Ort Definition of the American Haldia Government College Debhog, Haldia, Purba Medinipur

Pu/2022

Co-ordinator I.Q.A.C Haldia Govt. College Debhog, Purba Mediniput, Pin-721657

Principal (Dr. Debnarayan Roy)

ebnarayan Roy)

Jhargram Raj College Jhargram, West Bengal- 721507

On behalf of Jhargram Raj College Jhargram-721507

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### Activities under MoU In academic session 2022-2023 Between

Haldia Government College and Jhargram Raj College

Name of the Activity	Date and duration	Place Department	Name of the Teacher	Number of Students Partcipated	Description of the activity
Teacher Exchange	03.12.2022 (8 am to 11 am)	Department of Chemistry, Haldia Government College	Dr. Tarun Mistri Assistant Professor, Jahrgarm Raj College	18 students of MSc Semester-III	Paper CEM-301
Teacher Exchange	10.12.2022 (8 am to 11 am)	Department of Chemistry, Haldia Government College	Dr. Tarun Mistri Assistant Professor, Jahrgarm Raj College	18 students of MSc Semester-III	Paper CEM-301
Teacher Exchange	17.12.2022 (8 am to 11 am)	Department of Chemistry, Haldia Government College	Dr. Tarun Mistri Assistant Professor, Jahrgarm Raj College	18 students of MSc Semester-III	Paper CEM-301
Teacher Exchange	07.01.2023 (8 am to 11 am)	Department of Chemistry, Haldia Government College	Dr. Tarun Mistri Assistant Professor, Jahrgarm Raj College	18 students of MSc Semester-III	Paper CEM-301
Teacher Exchange	14.01.2023 (8 am to 11 am)	Department of Chemistry, Haldia Government College	Dr. Tarun Mistri Assistant Professor, Jahrgarm Raj College	18 students of MSc Semester-III	Paper CEM-301
Teacher Exchange	21.01.2023 (8 am to 11 am)	Department of Chemistry, Haldia Government College	Dr. Tarun Mistri Assistant Professor, Jahrgarm Raj College	18 students of MSc Semester-III	Paper CEM-301

Principal Principal Jhargram, Walt Bengal 721507

Dr. Pijush Kanti Tripathi

Officer-in-Oharge Haldia Geverangent College Made Government College

2

Principal Jhargram Raj Cellege



# **Collaboration**





## **Government General Degree College, Datan II**

SI. No.	Name of the MoU / linkage	Name of the institution / industry with whom the MoU / linkage is made, with contact details	Year of signing MoU / linkage	Purpose of the MoU/Linkage (internship, on-the- job training, project work, student / faculty exchange and collaborative research)	Duration of MoU / linkage
24	Collaboration	Government General Degree College, Datan II, Kashmuli, Dist-Paschim Medinipur, PIN- 721445, West Bengal, India	2020	Research collaboration	Continuing







### Govt. of West Bengal *Office of the Principal / Officer-in-Charge* Government General Degree College, Dantan-II (College recognised under Section 2 (f) of the UGC Act, 1956) Kashmuli :: PaschimMedinipur :: West Bengal :: Pin – 721445 :: Website :: dantan2govtcollege.ac.in ::

Email – kgcprincipal@yahoo.com

Date: 15.04.2023

## To whom it may concern

It is my great pleasure to extend my appreciation for the continued collaboration with Dr. Prasanta Patra, Assistant Professor, Department of Chemistry, Jhargram Raj College. Since the inception in 2020, our collaboration has yielded significant scientific advancement, fostering a productive relationship between our institutions.

Our collaborative efforts have resulted in several successful publication of research article in reputed journals, that have made significant contribution in the field of chemistry. Dr. Patra has contributed immensely in the progress of our collaborative work. Hope our collaboration will remain continued and will lend valuable contribution in the field of chemical science and our society.

With best wishes,

Dunda 15 04 23

(Dr. Shaishab Kumar Dinda) Officer-in-Charge Govt. Gen. Degree College, Dantan-II Kashmuli, Paschim Medinipur, 721445 Officer In charge Govt. Gen. Degree College Dantan - II





# NJC

### PERSPECTIVE

### Check for updates

Cite this: New J. Chem., 2021, 45, 7450

### Diverse synthesis of pyrrolo/indolo [3,2-c]coumarins as isolamellarin-A scaffolds: a brief update

Khokan Samanta,<sup>a</sup> Prasanta Patra,  ${}^{\textcircled{m}} \star^b$ Gandhi Kumar Kar, $^c$ Shaishab Kumar Dinda $^d$  and Dibyendu Shekhar Mahanty $^e$ 

Received 26th December 2020, Accepted 23rd March 2021

DOI: 10.1039/d0nj06267g

rsc.li/njc

This paper reviews a vast body of literature on diverse synthetic methodologies, biological, and fluorescence activities of pyrrolo/indolo[3,2-c]coumarin derivatives published during last 20 years. Synthesized pyrrolo/indolo[3,2-c]coumarins have been reported in the literature by the construction of either pyrrole, indole, or coumarin ring via classical reaction protocols including metal-catalyzed reactions, and green reaction protocols starting from suitable precursors.

### Introduction

<sup>a</sup> Department of Chemistry, Haldia Government College, Haldia, Purba Medinipur, India

<sup>b</sup> Department of Chemistry, Jhargram Raj College, Jhargram 721507, India. E-mail: prasantaanunama1983@smail.com

E-mail: prasantaanupama1983@gmail.com

<sup>6</sup>Department of Chemistry, Presidency University, 86/1 College Street, Kolkata, India

Dr Khokan Samanta was born in

the village of Purba Medinipur,

West Bengal, India. He did his

MSc (2006) from Vidyasagar

University, Paschim Medinipur,

and PhD (2012) in Synthetic

Organic Chemistry under the

Achintya Kumar Sarkar and

Prof. Gandhi Kumar Kar at

Presidency University (formerly

University of Calcutta), Kolkata,

College

of Prof.

under

joint supervision

Presidency

<sup>d</sup> Department of Chemistry, Government General Degree College Datan II, Paschim Medinipur, India

<sup>e</sup> Department of Botany, Barasat Government College Kolkata, India



Khokan Samanta

India. He carried out his postdoctoral research (2012–2013) in nanotechnology under Prof. Hyoyoung Lee at Sungkyunkwan University, South Korea. He is working as an Assistant Professor (WBES) since 2015 at the Department of Chemistry, Haldia Government College, West Bengal, India. His research interest is based on the metal-catalyzed C-C coupling reaction, synthesis of bio-active heterocycles, and graphene-nanochemistry. The chemistry of coumarin derivatives (natural, as well as synthetic) has occupied a significant position in the field of synthetic and medicinal chemistry due to various biological activities<sup>1–6</sup> that include anti-microbial,<sup>7–9</sup> anti-depressant,<sup>10</sup> anti-oxidant,<sup>11–13</sup> anti-leishmanial,<sup>14</sup> anti-inflammatory,<sup>15</sup> anti-coagulant,<sup>16</sup> and anti-cancer<sup>17</sup> reported over the last 50–60 years. On the other hand, pyrrole and indole derivatives are also important for their robust biological interests.<sup>18–20</sup>



Dr Prasanta Patra was born in the village of Paschim Medinipur, West Bengal, India. He did his MSc (2006) from Vidyasagar University, Paschim Medinipur, and PhD (2012) in Organic Chemistry under the supervision of Prof. Gandhi Kumar Kar at Presidency University (formerly Presidency College under Kolkata University), Kolkata. India. He is an Assistant Professor of the Department of Chemistry, West Bengal

ROYAL SOCIETY OF **CHEMISTRY** 

Prasanta Patra

Education Service, since 2009. He is currently working as an Assistant Professor of Chemistry at the Department of Chemistry, Jhargram Raj College. His research interest is on the improvement of methodologies of heterocycles mainly  $\gamma$ -lactams and pyridocoumarins and their biological importance.

7450 | New J. Chem., 2021, 45, 7450-7485

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# Haldia Government College

SI. No.	Name of the MoU / linkage	Name of the institution / industry with whom the MoU / linkage is made, with contact details	Year of signing MoU / linkage	Purpose of the MoU/Linkage (internship, on-the- job training, project work, student / faculty exchange and collaborative research)	Duration of MoU / linkage
25	Collaboration	Haldia Government College, Haldia, Dist-Purba Medinipur, PIN -722657, West Bengal, India	2020	Research collaboration	Continuing







Haldia Govt. College

### Haldia Government College (Affiliated to Vidyasagar University) Haldia, 721657, West Bengal, India Email: hgchaldia@gmail.com

Phone: 03224-252278/252044

Date: 15.04.2021

### To whom it may concern

It is my great pleasure to extend my appreciation for the continued collaboration with Dr. Prasanta Patra, Assistant Professor, Department of Chemistry, Jhargram Raj College. Since the inception in 2020, our collaboration has yielded significant scientific advancement, fostering a productive relationship between our institutions.

Our collaborative efforts have resulted in several successful publication of research article in reputed journals, that have made significant contribution in the field of chemistry. Dr. Patra has contributed immensely in the progress of our collaborative work. Hope our collaboration will remain continued and will lend valuable contribution in the field of chemical science and our society.

With best wishes,

Khokan Samanta

(Dr. Khokan Samanta) Assistant Professor (W.B.E.S), Department of Chemistry Haldia Government College Haldia, 721657, West Bengal, India





ORGANIC PREPARATIONS AND PROCEDURES INTERNATIONAL 2023, VOL. 55, NO. 1, 63–83 https://doi.org/10.1080/00304948.2022.2116909



**REVIEW ARTICLE** 

Check for updates

# A Brief Review on the Synthesis of Pyrrolo[2,3-c]coumarins, including Lamellarin and Ningalin Scaffolds

Prasanta Patra<sup>a</sup>, Sibasish Manna<sup>a</sup>, Susanta Patra<sup>b</sup>, Khokan Samanta<sup>c</sup>, and Debnarayan Roy<sup>d</sup>

<sup>a</sup>Department of Chemistry, Jhargram Raj College, Jhargram, India; <sup>b</sup>Department of Chemistry, IIT(ISM) Dhanbad, Dhanbad, India; <sup>c</sup>Department of Chemistry, Haldia Government College, Haldia, Purba Medinipur, India; <sup>d</sup>Department of Zoology, Jhargram Raj College, Jhargram, India

ARTICLE HISTORY Received 20 January 2022; Accepted 20 August 2022

### **Table of contents**

Introduction
I. From 3-aminocoumarin by the formation of pyrrole rings
1. By Fischer indole reaction
2. By amino-Claisen rearrangement
3. Reaction with $\alpha$ -halo ketones
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5. By Nef reaction
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# **Government General Degree College, Kharagpur II**

SI. No.	Name of the MoU / linkage	Name of the institution / industry with whom the MoU / linkage is made, with contact details	Year of signing MoU / linkage	Purpose of the MoU/Linkage (internship, on-the- job training, project work, student / faculty exchange and collaborative research)	Duration of MoU / linkage
26	Collaboration	Government General Degree College, Kharagpur II, Madpur, Dist-Paschim Medinipur, PIN- 721149, West Bengal, India	2021	Research collaboration	Continuing







Government General Degree College Kharagpur II (Affiliated to Vidyasagar University) Madpur, Paschim Medinipur, 721149, West Bengal, India Email: principalggdckgp2@gmail.com

Date: 22.09.2021

### To whom it may concern

It gives me great pleasure to express my gratitude for our ongoing collaboration with Dr. Dilip Rout, Associate Professor in the chemistry department of Jhargram Raj College. Since the commencement in 2021, our collaboration has yielded significant scientific advancement, fostering a productive relationship between our institutions.

Our collaborative efforts have resulted in successful publication of research article in reputed journals, that have made significant contribution in the field of chemistry. Dr. Rout has contributed immensely in the progress of our collaborative work. I hope that our partnership will continue and that it will benefit both our society and the field of chemical science.

With best wishes,

Sund Kumar Bhanja (Dr. Sunil Kumar Bhanja) Assistant Professor (W.B.E.S), Department of Chemistry Government General Degree College Kharagpur II Madpur, Paschim Medinipur, 721149, West Bengal, India Assistant Professor (Dept. of Chemistry) Government of West Bengal Govt. General Degree College, KGP-II Paschim Medinipur-721149, West Bengal





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### Structural studies of immunomodulatory $(1 \rightarrow 3)$ -, $(1 \rightarrow 4)$ - $\alpha$ glucan from an edible mushroom Polyporus grammocephalus



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#### ABSTRACT

A water soluble polysaccharide (PGPS) with molecular weight –  $1.4 \times 10^5$  Da was isolated by alkali treatment from an edible mushroom Polyporus grammocephalus and purified by gel chromatography using sepharose-6B column. Monosaccharide analysis revealed that PGPS was made up of glucose only. PGPS contained (1  $\rightarrow$  3)- $\alpha$ -D-Glcp and  $(1 \rightarrow 4)-\alpha$ -D-Glcp moieties in a molar ratio of nearly 1:2. Through a series of chemical and spectroscopic (1D/2D NMR) investigations, the repeating unit of the glucan was established as:  $\rightarrow$  3)- $\alpha$ -D-Glcp(1  $\rightarrow$  [4)- $\alpha$ -D-Glcp(1]<sub>2</sub> $\rightarrow$ 

This α-glucan was observed to stimulate some prime components of immune system, namely, macrophages, splenocytes, and thymocytes.

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#### 1. Introduction

Mushrooms are attractive functional food and also considered as an important renewable source for the development of immune-active drugs [1]. Mushroom polysaccharides, especially glucans have become a prime theme of research for immunobiologists due to their immunomodulatory and antitumor properties [2-7]. Numerous bioactive B-D-glucans with diversified structural features have been isolated from edible mushrooms [8–10]. Apart from the  $\beta$ -D-glucans, various linear and branched  $\alpha$ -D-glucans have also been reported. Linear  $(1 \rightarrow 3)$ - $\alpha$ -D-glucan from Armillariella tabescens [11] and Termitomyces *microcarpus* [12],  $(1 \rightarrow 6)$ - $\alpha$ -D-glucan from *Termitomyces eurhizus* [13] and Pleurotus florida [14],  $(1 \rightarrow 3)$ -,  $(1 \rightarrow 6)$ - $\alpha$ -D-glucan from Termitomyces eurhizus [13],  $(1 \rightarrow 4)$ -,  $(1 \rightarrow 6)$ - $\alpha$ -D-glucan from Agaricus blazei [2,15] and Tricholoma matsutake [16] have been reported to show their immunomodulating and antitumor activities. A branched α-Dglucan having  $\alpha$ -(1  $\rightarrow$  4)-D-glucopyranosyl main backbone chain with  $(1 \rightarrow 6)$ - $\alpha$ -D-glucopyranosyl side chain has been identified from the fruiting bodies of Coprinus comatus [17]. Moreover, linear glucans containing both  $\alpha$ - and  $\beta$ -glycosidic linkages such as  $\alpha$ -(1  $\rightarrow$  4),

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https://doi.org/10.1016/j.ijbiomac.2020.11.121 0141-8130/© 2020 Elsevier B.V. All rights reserved.  $\beta\text{-}(1\rightarrow6)\text{-}D\text{-}glucan$  from Astraeus hygrometricus [18] and  $\alpha\text{-}(1\rightarrow4)\text{,}$  $\beta$ -(1  $\rightarrow$  3)-D-glucan from Termitomyces microcarpus [19] have also been reported.

Polyporus grammocephalus is an edible mushroom commonly found in the hill areas of West Bengal, India. It generally occurs on dead hard wood causing white rot and occasionally growing as a parasite on living trees. Polyporus grammocephalus contains 20.6% of protein, 41.11% of carbohydrate, 24.62% of crude fibre, 8.75% of free amino acids, 2.03% of fat and sufficient amount of important minerals such as calcium, potassium and phosphorous, etc. [20]. As claimed by a published report, P. grammocephalus contains essential oils, phenols, terpenes, steroids, fatty acids, sugars, anthraquinones, coumarins, anthrones, tannins, flavonoids, and alkaloids [21]. So, it can be considered as an excellent and safe dietary component. P. grammocephalus is also known to show significant antioxidant, antimicrobial and NOS activation properties [22,23]. Different solvent extracts of P. grammocephalus showed cytotoxic and chemo protective effects [21,24]. Bioactive components isolated from certain polyporus species like P. confluence, P. umbellatus, P. sulphureus, P. badius, and P. sclerotium have been reported to exhibit antitumor, immune-enhancing, antibacterial, anti-inflammatory, antiviral, anti-aldosteronic & diuretic effects [25-29]. The present article deals with an immunoenhancing  $(1 \rightarrow 3)$ -,  $(1 \rightarrow 4)$ - $\alpha$ -glucan which was isolated from the alkaline extract of the fruit bodies of Polyporus



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# **Tezpur University**

SI. No.	Name of the MoU / linkage	Name of the institution / industry with whom the MoU / linkage is made, with contact details	Year of signing MoU / linkage	Purpose of the MoU/Linkage (internship, on-the- job training, project work, student / faculty exchange and collaborative research)	Duration of MoU / linkage
27	Collaboration	Tezpur University, Napaam, Assam 784028, India	2021	Research collaboration	Continuing





From Dr. Saona Seth Assistant Professor of Chemistry Department of Applied Sciences School of Engineering Tezpur University, Napaam, Assam-784028



Date: 17.03.2022

### To whom it may concern

It is my great pleasure to extend my appreciation for the continued collaboration with Dr. Susovan Mandal, Assistant Professor, Department of Chemistry, Jhargram Raj College. Since the inception in 2021, our collaboration has yielded significant scientific advancement, fostering a productive relationship between our institutions.

Together, we are drafting a research article, which we aim to publish soon in a reputed journal that has significantly advanced the discipline of chemistry. Dr. Mandal has made a significant contribution to the advancement of our teamwork. I hope that our collaborative work will continue and that it will significantly advance both our society and the field of chemical science.

Sincerely,

Sama Sett Saona Seth

Dr Saona Seth Assistant Professor Department of Applied Sciences Tezpur University Napaam 1, pur 764028, Assam





# ChemComm

### HIGHLIGHT

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# ROYAL SOCIETY OF CHEMISTRY

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### Removal of dyes using polymers of intrinsic microporosity (PIMs): a recent approach

Abinash Gogoi,<sup>a</sup> Hima Barman,<sup>a</sup> Susovan Mandal<sup>b</sup> and Saona Seth 💿 \*ª

Removal of dyes from various industrial effluents is a great challenge, and cost-effective methods and materials with high dye removal efficacy are in high demand. Adsorption, nanofiltration and photocatalytic degradation are three major techniques that have been investigated for dye removal. PIMs are promising materials for use in these three methods based on their attributes, such as microporosity, solution processibility, high chemical stability and tunability through facile synthesis and easy postmodification. Although the number of reports on dye removal employing PIMs are limited, some of the materials have been shown to exhibit good dye separation properties, which are comparable to those of the state-of-the-art material activated carbon. In this highlight, we make an account of progress in PIMs and PIM-based composite materials in different dye removal processes over the last decade. Furthermore, we discuss the existing challenges of PIM-based materials and aim to analyze the key parameters for improving their dye removal properties.

wastes into water bodies.

cosmetics, food products, etc., which require more than hun-

dred thousand of different dyes.<sup>2,3</sup> In fact, more than a million

tons of dyes are produced every year for different industrial

purposes, and 10-15% of them are released with the industrial

functional groups which are responsible for the color of dyes

and auxochromes are functional groups (e.g., -COOH, -OH,

-OR, -NH<sub>2</sub>), covalently connected to chromophores which can further tune the color and often help to increase the solubility of dyes. Dyes are classified as neutral, cationic and anionic dyes

based on the charge present on the chromophores. Based on

the origin, they can be natural or synthetic. Natural dyes are

Dye molecules are composed of two components, chromophores and auxochromes.4,5 Chromophores are unsaturated

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### 1. Introduction

The increasing level of toxic chemical wastes, such as hazardous metal ions, drug residues, dyes, agrochemicals and greenhouse gases, is contaminating air, water and soil. Due to globalization, emission of these pollutant materials from different industries is also increasing. Among these pollutants, dyes are considered as major organic contaminants.<sup>1,2</sup> Dyes are colored compounds that are used to impart color to different substrates, such as paper, fabric, leather products, plastics, ink,

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