



मणिपुर मणिपुर MANIPUR

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MEMORANDUM OF UNDERSTANDING

between

**DIRECTORATE OF ENVIRONMENT AND CLIMATE CHANGE,
GOVERNMENT OF MANIPUR,**

MANIPUR UNIVERSITY, CANCHIPUR, IMPHAL, MANIPUR,

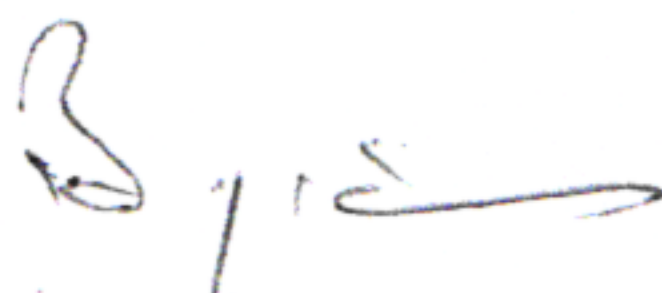
and

DHANAMANJURI UNIVERSITY, IMPHAL, MANIPUR

THIS AGREEMENT is made on the 10th of July 2025 between the **Directorate of Environment and Climate Change, Govt. of Manipur**, the **Manipur University, Canchipur, Imphal, Manipur** and the **Dhanamanjuri University, Imphal, Manipur**

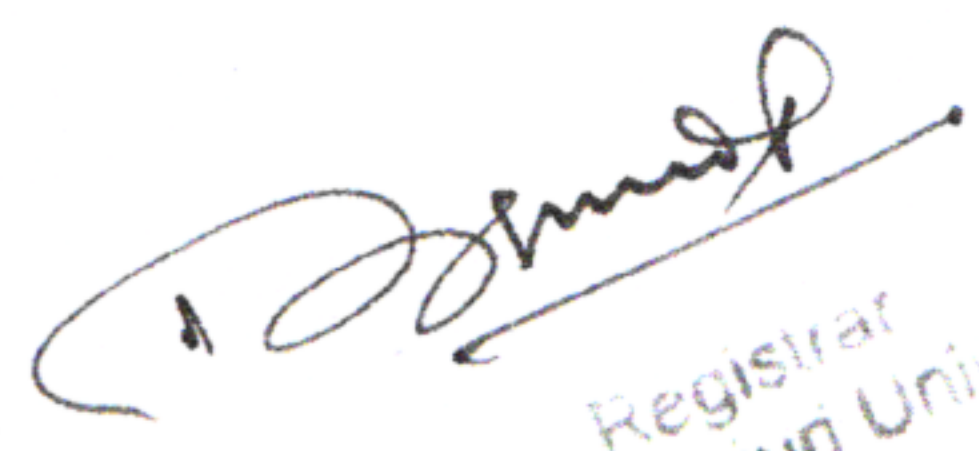
WHEREAS, **Directorate of Environment and Climate Change**, is a non-profit organization of Govt. of Manipur, hereinafter referred to as “**DoE&CC**” and represented in this MoU by the Director (DoE&CC), Govt. of Manipur. As the nodal agency, DoE&CC undertakes various activities related to state policy planning, bio-diversity conservation, regulation, co-ordination and promotion of environment and mitigation of climate change. DoE&CC is also engaged in wetlands conservation, resource management, waste-water treatment, environmental impact assessment and capacity building through scientific cooperation with higher education institutions and other state departments.

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Directorate of Environment & Climate Change
Government of Manipur

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Registrar


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Manipur

WHEREAS, **Manipur University** is a central university located in Imphal, Manipur, India; hereinafter referred to as “**MU**” and represented in this MoU by the Registrar (MU), Manipur. As a hub for higher studies in many academic disciplines, MU offers high quality teaching and education in several fields including, aquaculture, fisheries and allied subjects such as fish taxonomy, ecology, biodiversity assessment etc., under the Department of Life Sciences (Zoology).

WHEREAS, **Dhanamanjuri University** is state university located in Imphal, Manipur, India; hereinafter referred to as “**DMU**” and represented in this MoU by the Registrar (DMU), Manipur. As a state university it provides higher studies in many academic disciplines, DMU offers teaching and education in several fields including environmental chemistry, agricultural chemistry, sustainable chemistry, and analytical techniques involved in wastewater analysis, ground water analysis and soil testing, under the Department of Chemistry.

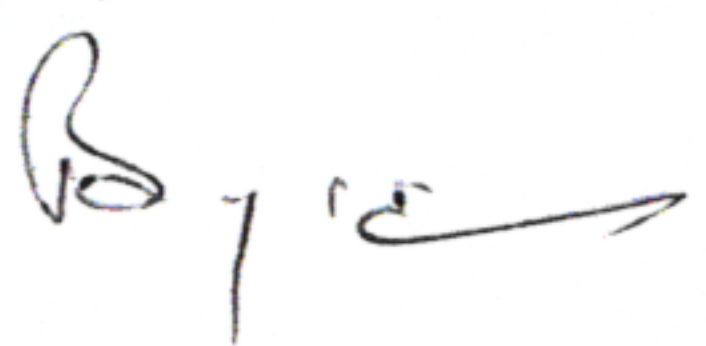
WHEREAS, **DoE&CC, MU and DMU** have mutual interest in fostering a research collaboration through this MoU for undertaking the project “Ingenious Phumdi-Based Floating Treatment Wetlands (FTW) System for Wastewater Treatment at Waithou-Phumnom Pat.

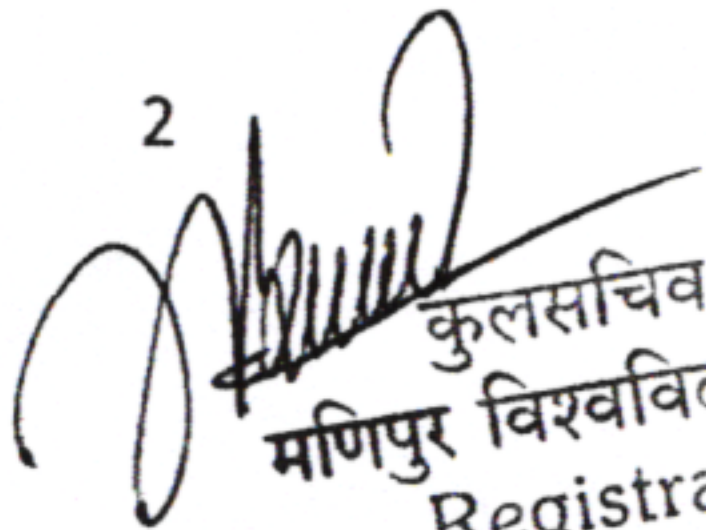
NOW THEREFORE, **DoE&CC, MU and DMU** inspired by their common objectives to promote restoration, conservation of aquatic resources and biodiversity, efficient use of water resources and mitigation of chemical pollution threatening our aquatic system and to encourage sustainability in the Manipur and north-east hilly regions in general, along with generating sustainable livelihood for the communities around the wetlands, have entered into this MoU under the terms and conditions set forth in the following articles:

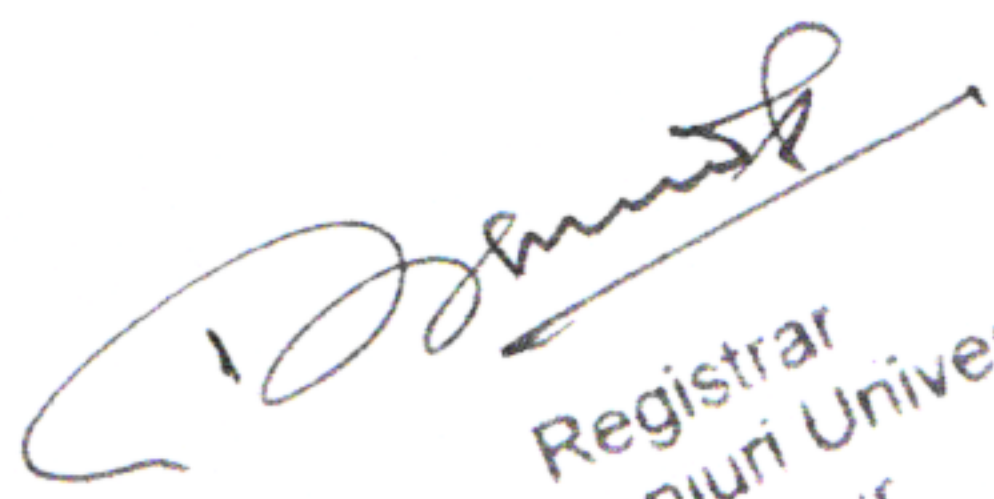
Article I – AREAS OF COLLABORATION

Under this MoU, the Directorate of Environment and Climate Change (DoE&CC), Government of Manipur, Manipur University (MU), and Dhanamanjuri University (DMU) have agreed in principle to collaboratively undertake the aforementioned project under the aegis of the DoE&CC, Govt. of Manipur. The collaboration will focus on broad thematic areas such as:

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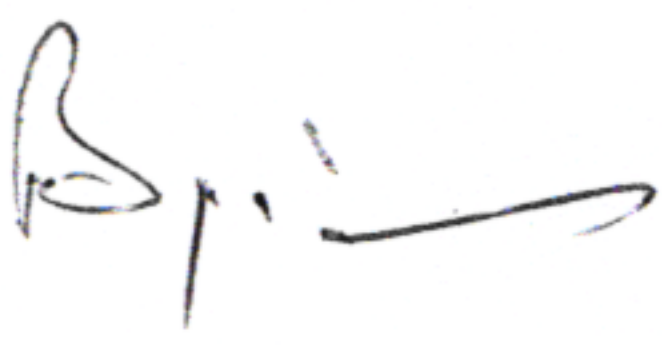
- a) Conservation and restoration of wetlands for sustaining the Waithou-Phumnom Pat and other similar ecosystems.
- b) Promotion of sustainable aquaculture practices in and around wetland areas.
- c) Enhancement of livelihoods for local communities through capacity-building and resource-based economic activities linked to wetland conservation.

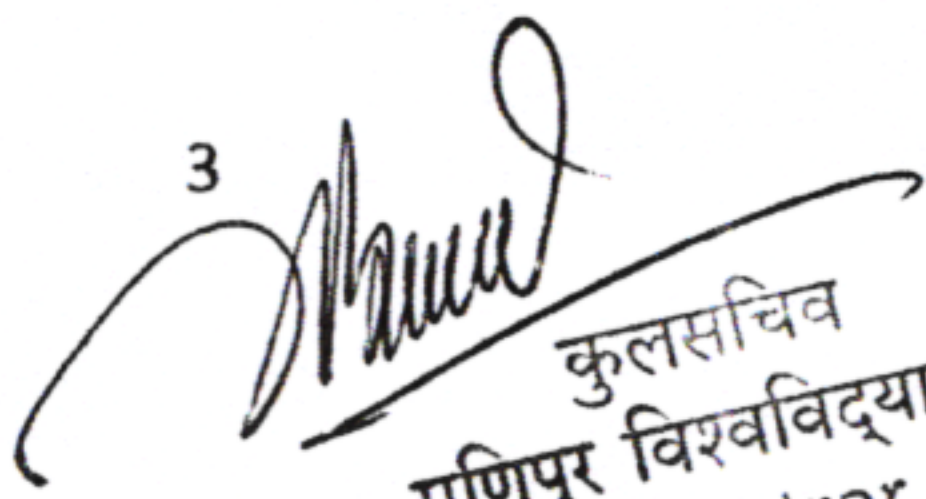
The effectiveness of the collaboration between **DoE&CC**, **MU** and **DMU** will be determined time to time by a joint evaluation of the progress made in various projects undertaken. Also, it is understood that the specific areas of collaboration for research and technical support will be defined in the work plan developed and approved in accordance with Article II and V hereof.

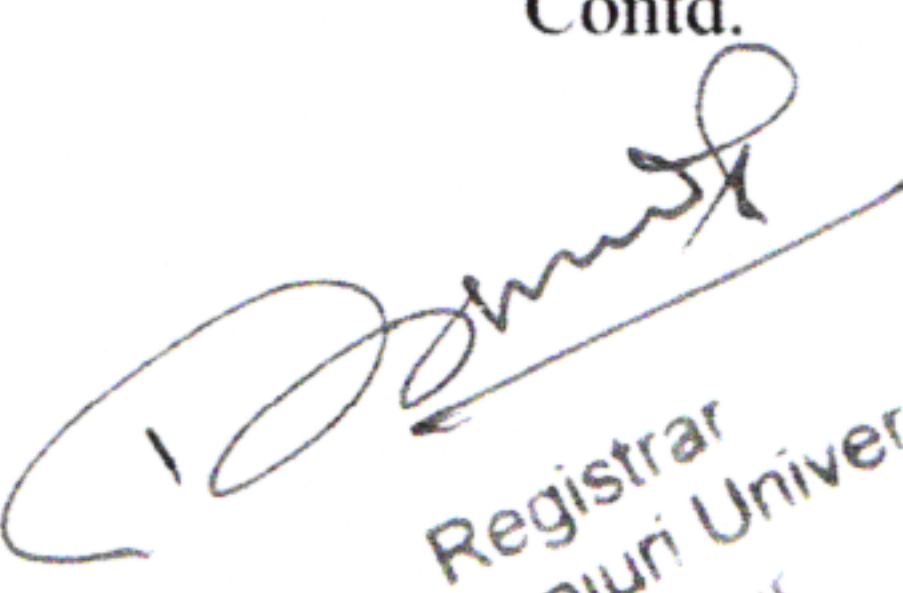
Article II- RESPONSIBILITIES OF EACH PARTY

MU: Within the work plan that is agreed upon by all the parties within the benchmark amount of the project (as provided in the concept note), MU, Manipur, will:

1. Conceptualize projects and the technology involved for the implementation of the projects
2. Jointly implement the project and all committed activities as per the agreed proposal and guidelines prescribed by the Directorate of Environment and Climate Change (DoE&CC), Government of Manipur.
3. Provide facilities and all technical / logistical assistance required for the project.
4. Allow the project staff to exchange project related information, literature and material.
5. Use the funds and manpower provided exclusively for the approved project works.
6. Maintain financial records and accounts adequate to reflect the operations, resources and expenditure in respect of the project.
7. Submit periodic accounts to the lead institution i.e., Directorate of Environment and Climate Change (DoE&CC), Government of Manipur, as per the prescribed format, within specified time limit.
8. Furnish regular progress reports with geotagged photographs as per the reporting schedule (on quarterly basis), adequately describing all the prescribed project activities which were carried out.


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9. Submit a consolidated final report and field guide manual for system operation and maintenance of systems developed during the collaborative project.

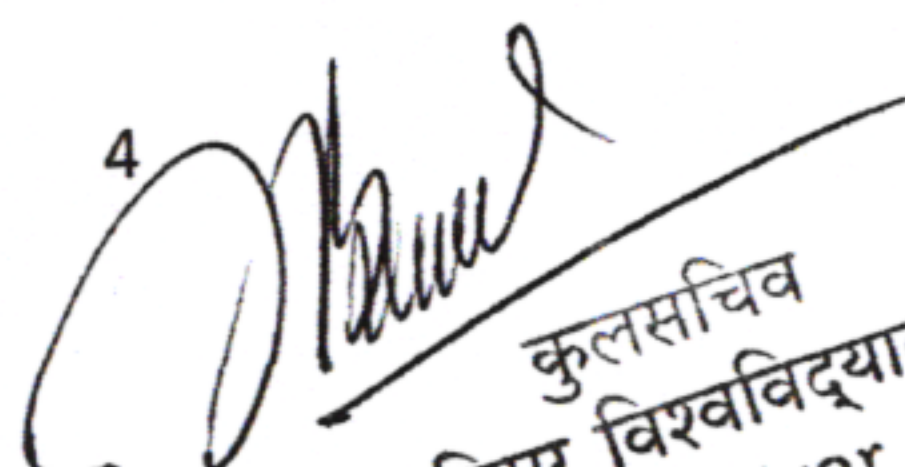
DMU: Within the work plan that is agreed upon by all the parties within the benchmark amount of the project (as provided in the concept note), DMU, Manipur, will:

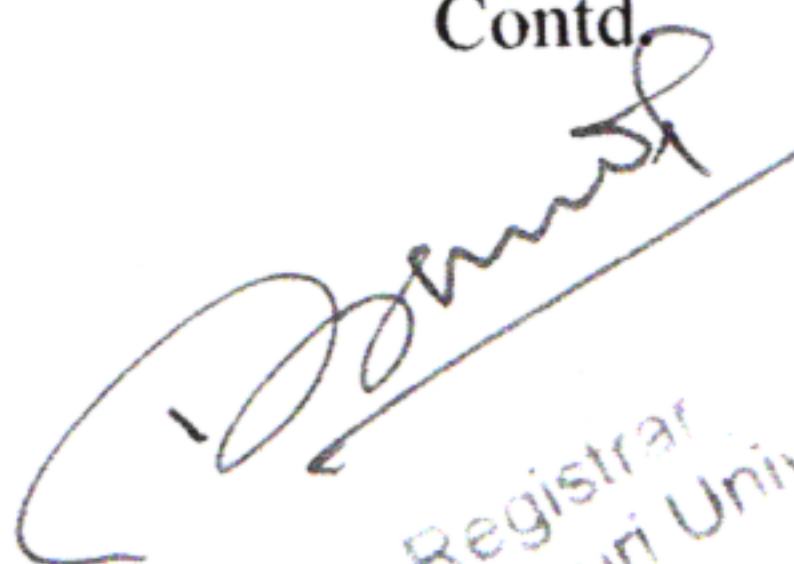
1. Conceptualize projects and the technology involved for the implementation of the projects
2. Jointly implement the project and all committed activities as per the agreed proposal and guidelines prescribed by the Directorate of Environment and Climate Change (DoE&CC), Government of Manipur.
3. Provide facilities and all technical / logistical assistance required for the project.
4. Allow the project staff to exchange project related information, literature and material.
5. Use the funds and manpower provided exclusively for the approved project works.
6. Maintain financial records and accounts adequate to reflect the operations, resources and expenditure in respect of the project.
7. Submit periodic accounts to the lead institution i.e., Directorate of Environment and Climate Change (DoE&CC), Government of Manipur, as per the prescribed format, within specified time limit.
8. Furnish regular progress reports with geotagged photographs as per the reporting schedule (on quarterly basis), adequately describing all the prescribed project activities which were carried out.
9. Submit a consolidated final report and field guide manual for system operation and maintenance of systems developed during the collaborative project.

DOE&CC: Within the work plan that is agreed upon all the parties within the benchmark amount of the project (as provided in the concept note), Directorate of Environment and Climate Change (DoE&CC), Manipur, Government of Manipur, will:

1. Jointly implement projects by acting as the main collaborating agency of the project under the benchmark amount (as provided in the concept note).


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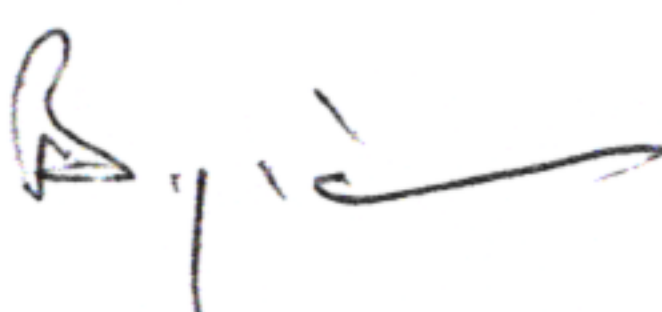
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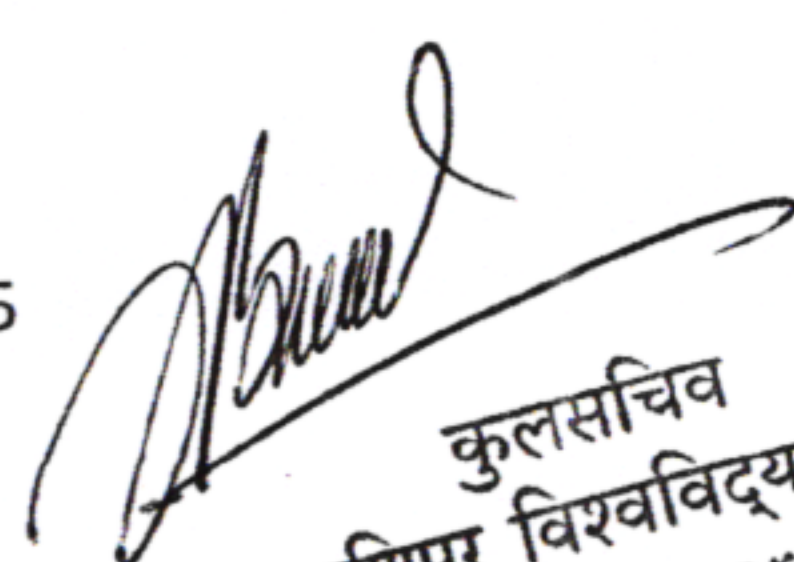
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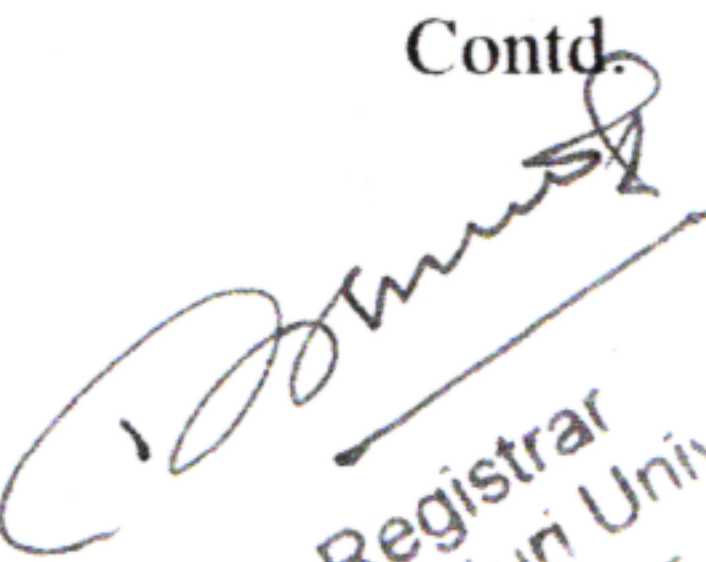
2. Provide scientific and technical assistance to carry out the project documentation work.
3. Community engagement and outreach activities shall be primarily undertaken by the Directorate of Environment and Climate Change (DoE&CC), ensuring effective participation, awareness, and involvement of local stakeholders in the conservation and livelihood initiatives.
4. Actively monitor the progress of committed activities by the implementing partner through periodic review meetings and quarterly progress reports.
5. Monitor fund utilization by the collaborating partner and work done by project manpower.
6. Scrutinize and admit the justifiable changes proposed by the implementing partner with respect to the project activities, research-in-charge and team involved, in exceptional cases.
7. Review the information generated under the project and organize workshops for discussion.
8. Project expenditure, procurement, recruitment and financial reporting would be as per the guidelines of the Directorate of Environment and Climate Change (DoE&CC), Government of Manipur. In case of any dispute, it shall be solved amicably by holding discussions between the collaborating partners.
9. Directorate of Environment and Climate Change (DoE&CC), Government of Manipur shall not be responsible for absorption of any staff deployed for the project after completion or termination of the project.

ARTICLE-III: PUBLICATION OF RESULTS AND OWNERSHIP

The results and outcomes of collaborative research and developmental activities shall be made available in a common domain, jointly owned and jointly published in public interest, with mutual consent of all the parties. However, the conceptualization and technology developed under this project shall not be reproduced or utilized elsewhere without the prior consent of the Principal Investigators (PIs) from DMU and MU. The Intellectual Property Rights (IPR) of the technology developed shall remain solely with the respective PIs from DMU and MU.

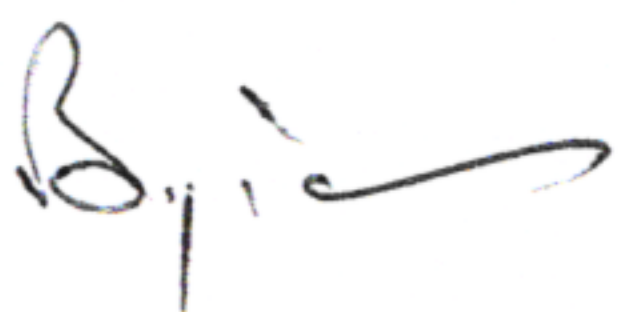

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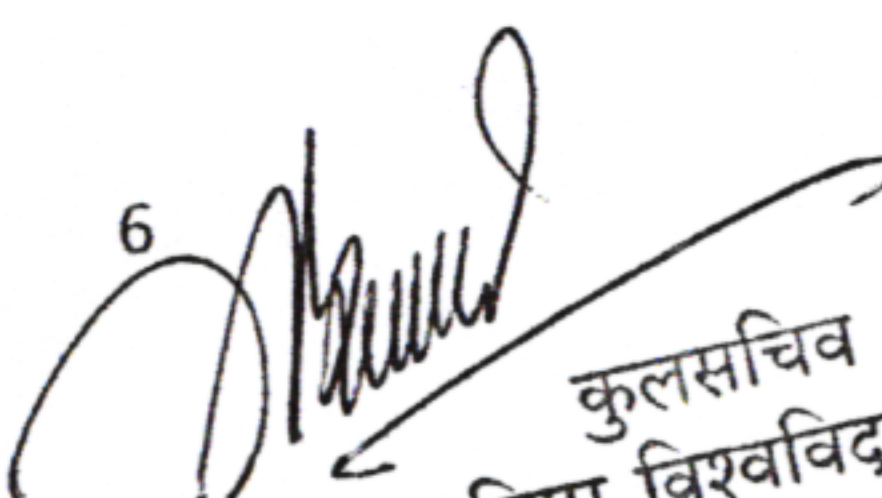
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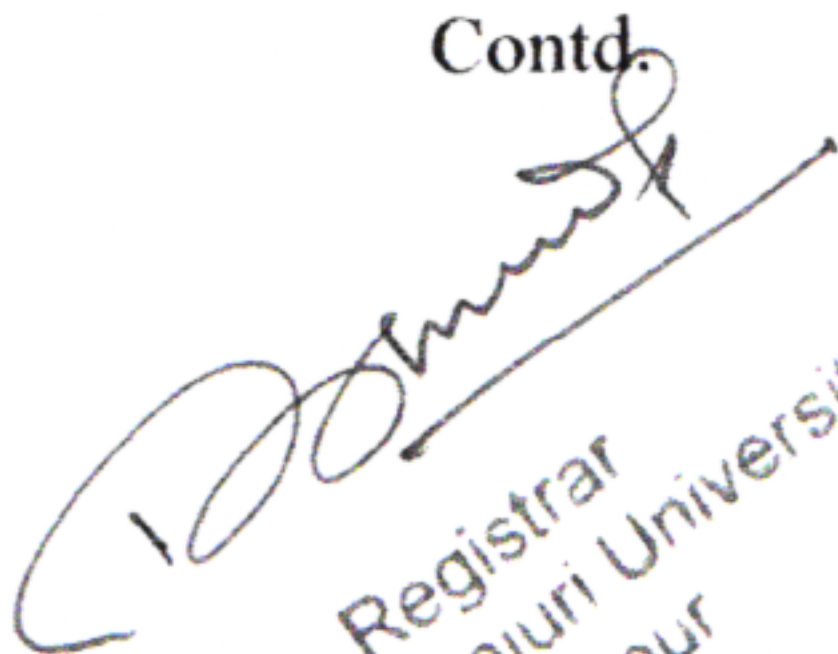
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Article IV- TERMS AND CONDITIONS

1. Information and scientific outcomes will be exchanged between all the three parties viz., **DoE&CC, MU** and **DMU** with due recognition for the source of the material.
2. The grant under the project should be utilized exclusively for the approved project activity.
3. If the project is not put in operation within stipulated period from the date of sanction, the sanction accorded for the funding of the scheme shall stand withdrawn. In exceptional cases and for valid reasons this period may be extended with the approval of competent authority.
4. Financial assistance provided for this project should be duly acknowledged in any published account of the project work.
5. The sanctioned amount may be paid in one or more installments as decided by the competent authority of the main collaborating agency.
6. The project procurement, expenditure and fund utilization will be as per guidelines of DoE&CC, MU and DMU. However, the implementing agency can follow its own financial guidelines in the interest of the project and to the satisfaction of the competent authority of the funding agency.
7. The project grant should be refunded by the implementing institution, if the scheme is discontinued midway or if the technical program approved by DoE&CC is not adhered to.
8. For the operation of the project, the implementing institution shall make available the requisite staff and other required facilities which may be necessary for the project activities.
9. No extension would be allowed for completion of the project work and writing of final report. All needs to be completed within the tenure of the project. However, in exceptional circumstances, for genuine reasons, extension may be given to a reasonable time period without any additional financial commitment.
10. The main collaborating institution and implementing institutions shall consult each other before making any change in the arrangement for supervision of the project or in the approved technical program.
11. On termination of the project, the implementing institution shall ensure that all available specimens collected during the project are preserved for future, under intimation to DoE&CC.


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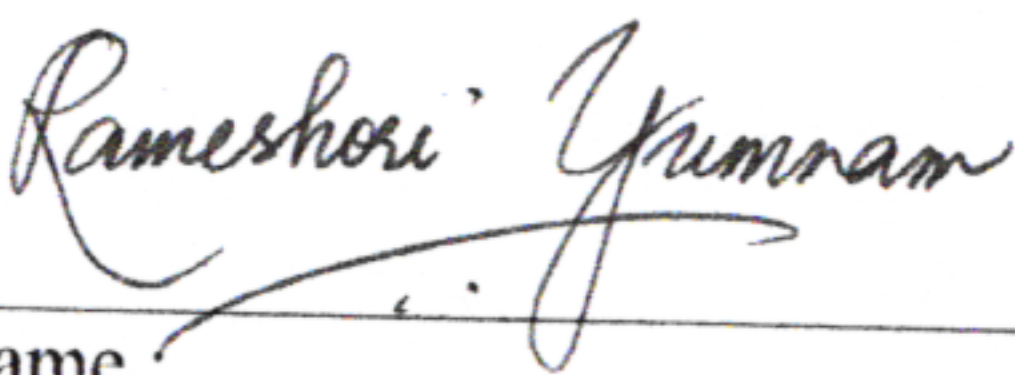
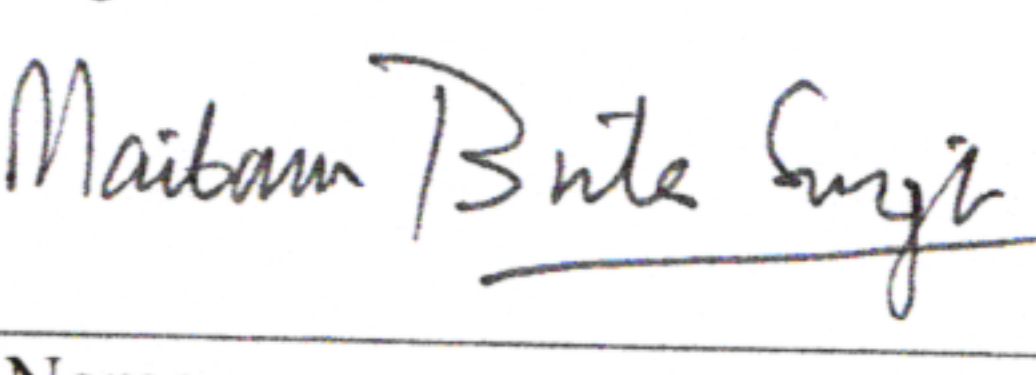
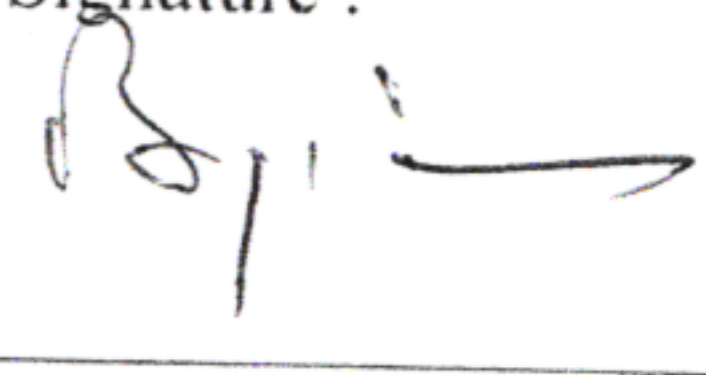
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Article V-AMENDMENTS

The parties may, by mutual consent in writing, modify any provisions of this MoU from time to time.

Article VI- EFFECTIVITY

This MoU shall take effect on the date the last authorized representative affixes his/ her signature and shall remain valid for 2 (two) year unless sooner terminated when one of the parties notifies the other in writing of its intention to terminate the MoU; in which case, the MoU will terminate six months from the date of such notification. This MoU may be further renewed or extended upon mutual agreement between the parties, which shall be made not later than three months prior to the termination date.

For the Registrar Manipur University	For the Registrar Dhanamanjuri University	For the Director Directorate of Environment and Climate Change
PI of the Project	PI of the Project	Coordinator of the Project
Signature: 	Signature : 	Signature : 
Name : Dr. Rameshori Yumnam	Name : Dr. Maibam Birla Singh	Name : Dr. T. Brajakumar Singh
Designation : Assistant professor Department of Zoology, Manipur University	Designation : Assistant professor Department of Chemistry, Dhanamanjuri University	Designation : Director Directorate of Environment and Climate Change, Government of Manipur
Affiliation : कुलसचिव मणिपुर विश्वविद्यालय Registrar Manipur University	Affiliation : Registrar Dhanamanjuri University	Affiliation : DIRECTOR Directorate of Environment & Climate Change Government of Manipur