

MEMORANDUM OF UNDERSTANDING

**MEMORANDUM OF UNDERSTANDING, COLLABORATION AND EXCHANGE OF
INFORMATION BETWEEN THE SUNDARBAN HAZI DESARAT COLLEGE AND
SYLVERA**

The Sundarban Hazi Desarat College and Sylvera, hereinafter referred to as **THE PARTIES**,

CONSIDERING that on February 18, 2025, **THE PARTIES** express the desire to engage in a formal collaboration focused on the exchange of information, research, and academic development in the field of environmental studies, particularly in the context of the Sundarbans ecosystem,

RECOGNIZING the relevance of bilateral cooperation between both institutions for the exchange of research findings, data, academic resources, and the application of best practices in environmental research and sustainable development,

CONVINCED that cooperation between **THE PARTIES** in these areas will contribute to academic growth, knowledge dissemination, and the advancement of both institutions' research capabilities,

They have come to the following understanding:

I. PURPOSE

1.1. The purpose of this Memorandum of Understanding (hereinafter MOU) is to foster cooperation between **THE PARTIES** in the areas of research, information exchange, and academic development.

1.2 This MOU refers to the above ground biomass and soil organic carbon research project taking place in the Indian Sundarbans designated "India Campaign" to start mid March for 61 working days until May.

1.3. Through this cooperation, **THE PARTIES** aim to exchange essential knowledge, research data results, and successful academic practices, contributing to the advancement of environmental studies and research, with a particular emphasis on the Sundarbans mangrove ecosystem.

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Principal
Sundarban Hazi Desarat College
Fathankhali, South 24 Parganas

II. SCOPE OF COOPERATION

THE PARTIES mutually undertake to cooperate in the following areas:

- a) **Research Collaboration:** Joint research efforts, particularly in the area of environmental studies, mangrove ecosystems, and related fields, with a focus on data exchange and joint academic publications.
- b) **Exchange of Knowledge and Expertise:** Sharing of academic resources, research findings, and teaching methodologies to support the academic development of both institutions.
- c) **Academic Development Programs:** Facilitation of workshops, seminars, and other academic initiatives that promote research excellence and the advancement of knowledge in relevant academic fields.
- d) **Other Mutually Agreed Research Projects:** Any additional academic projects that both **THE PARTIES** mutually agree upon, with a focus on information exchange and collaborative academic development.

III FINANCING

No financial commitments or funds will be exchanged between **THE PARTIES** as part of this collaboration. Each party will bear its own costs and expenses related to the implementation of this MOU, and there will be no financial obligations or contributions required from either party.

Sylvera will cover the costs associated with hiring, providing accommodation, and supporting the subsistence of the students and scholars engaged in the fieldwork. Additionally, Sylvera has allocated a budget to host an in-person workshop at the conclusion of the campaign, which the students involved in the fieldwork will be invited to attend.

IV COOPERATION ACTIVITIES

Cooperation activities under this **MOU** may take the form of:

	Details	Responsible	Remarks
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Commitment		Party	
Data Sharing	Sylvera will share relevant lidar and spectrometer data results with the Sundarban Hazi Desarat College.	Sylvera	Sylvera will share the results with Sundarban Hazi Desarat College for academic purposes i.e. scientific publications, etc.
Co-authorship	Commits to include local teams as co-authors for research publications.	Dr Raghab Ray and Faculty members of Science Department s of Sundarban Hazi Desarat College as required by Sylvera and as decided by both the PARTIES	Students and scholars involved in the data collection and or data analysis will be offered co-authorship for research publications that may arise from the data collected.
Training for Students and Scholars	Will provide the necessary training for both students and scholars involved in the project to undertake the data collection.	Sylvera and Dr Raghab Ray	Sylvera will provide soil sampling and Emlid georeferencing training while Dr Raghab Ray will provide inventory training for both students and scholars involved in the project.
In-Person Workshop	An in-person workshop will be held at the end of the campaign for the Forest Department and students/scholars involved in the fieldwork	R & D Cell along with Internal Quality Assurance Cell (IQAC) of Sundarban Hazi Desarat College	Location TBD. Agenda: On Riegl VZ400i and VUX 120, Medusa Spectrometer technologies
Online Class/Workshop by Lidar Scientists	Lidar scientists will conduct an online class/workshop on the data processing of Sylvera's lidar and spectrometer data.	Sylvera Lidar Scientists	A 30 min workshop to be delivered via zoom on how Sylvera analyses the collected data
Hiring	Hire students and scholars to aid the data collection process.	Sylvera	Research and Development Cell (R & D) will support in the selection of the students and scholars suitable to participate in the project

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Arranging online workshop logistics	The college will coordinate the online workshop logistics and provide the facilities from where students can attend	Sundarban Hazi Desarat College	The college will be responsible for promoting the online workshop within the institution, gathering students to participate, and providing necessary facilities for those who may not have access to laptops, ensuring they can attend the workshop.
Students responsibility	Dr Raghab Ray will manage the local team	Dr Raghab Ray	The students will be working directly with Dr Raghab Ray who will be leading the inventory data collection and is responsible for managing the local field team.

V COORDINATION OF THE PARTIES

- For the coordination of this **MOU, THE PARTIES** will appoint their representatives no later than 30 days after the MOU is signed by exchanging written communications.
- The coordinators of both Parties, by joint decision, will agree on the review of ongoing cooperation and plan future cooperation projects and activities.

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Best Efforts

THE PARTIES shall use their best efforts for the proper execution of the activities and achievement of the purposes of this **MEMORANDUM**, as well as in the scheduling of meetings, using, whenever possible and appropriate, remote communication tools, such as videoconferencing and other means of electronic communication and collaborative work.

VI MODIFICATIONS

THE PARTIES agree that in order to modify the clauses of this MOU, the corresponding Addendum must be signed under the same formality and procedure as this MOU.

VII RIGHTS AND OBLIGATIONS

7.1 Neither of **THE PARTIES** will be liable for failure to comply with the obligations of the other.

7.2 The non-exercise of any or all the rights corresponding to a Party shall not be understood as a waiver thereof.

7.3 Nothing in this current **MOU** will affect the rights and obligations of **THE PARTIES** arising from national or international treaties, conventions and agreements related to the environment of which they are a party.

7.4 The projects and cooperation activities that develop **THE PARTIES**, by virtue of this **MOU**, will be carried out in accordance with the respective laws and regulations of the countries and subject to the availability of adequate funds.

VIII VALIDITY

This document will enter into force on the date of subscription by **THE PARTIES** and will be valid for one (1) year, renewable by mutual agreement, upon review by both.

IX INTELLECTUAL PROPERTY RIGHTS

Sylvera will retain ownership of the data generated from this collaboration and commit to sharing the results for academic purposes, such as scientific publications. In the event that an activity requires access to, sharing or transferring technology subject to patents or other intellectual property rights, **THE PARTIES** shall agree in advance on the appropriate and effective protection of such rights in accordance with their national legislation and international commitments.

X DISPUTE RESOLUTION

The parties agree that any dispute, controversy or discrepancy that may arise regarding the correct execution, compliance or interpretation of this MOU, including those relating to the nullity or invalidity thereof, will be resolved through direct negotiations between the parties, using their best efforts to reach an agreement.

Tammy Mandal
Principal
Sundarban Hazi Desarat College
Pathankhali, South 24 Parganas

Signature: *Tarun Mandal*

Name: **DR. TARUN MANDAL**

Title: *Principal*

Date: *19/02/2025*

Principal
Sundarban Hazi Desarat College
Pathankhali, South 24 Parganas

SYLVERA LIMITED

Signature:

Name: *Andrew Burt*

Title: *Head of Field Data Science*

Date: 19/02/2025

Company Name &
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