



भारत सरकार

GOVERNMENT OF INDIA

पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय

MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE

भारतीय वनस्पति सर्वेक्षण / BOTANICAL SURVEY OF INDIA

सी.जी.ओ. कॉम्प्लेक्स / CGO COMPLEX

तृतीय एम. एस. ओ. भवन / 3<sup>RD</sup> MSO BUILDING

पाँचवाँ और छठा तल / 5<sup>TH</sup> & 6<sup>TH</sup> FLOOR

डी एफ ब्लॉक, सेक्टर 1 / DF BLOCK, SECTOR I

साल्टलेक, कोलकाता-६४ / SALT LAKE, KOLKATA - 700064

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फाइलसंख्या / File No.: BSI- 295/1 (Misc.)/2025-Tech. /1209

Date: 25<sup>th</sup> June, 2025

### TO WHOM IT MAY CONCERN

This is to certify that Botanical Survey of India, Ministry of Environment, Forest and Climate Change, Govt. of India, is having a Memorandum of Understanding (MoU) with the Department of Botany, The University of Burdwan, since 2014 toward scientific and Academic collaboration. As per the term and condition of the MoU, currently both the Organizations are in the process of renewing the MoU with renewed objectives. It is also to certify that, during the period of 2019 to till date, both BSI and The Department of Botany pursued activities which establishes strong linkages and collaboration between the two institutes

1. Scientists of BSI registered their research students for Ph. D in Botany under the University of Burdwan.
2. Conducted several collaborative research works and produced Ph.Ds
3. Shared research facilities for research.
4. Shared Herbarium facilities.
5. Faculty of University of Burdwan worked as expert member for recruitment of research personnel.
6. Organized jointly Botanical Science Congress in March 2024.

The faculty members from the University of Burdwan who have made a strong linkages and collaboration with BSI are Prof. Soumen Bhattacharjee (Coordinator, UGC Center for Advanced Study), Dr. Asok Ghosh etc.

The Scientists of BSI, who have made a strong linkages and collaboration with the Department of Botany, The university of Burdwan are Dr S.S. Dash (Scientist F & Additional Director, BSI), Dr. Tapan Sil (Scientist E), Late Dr. B. K. Sinha (Scientist F), Dr Avishek Bhattacharjee (Scientist E) etc.

Hope in future we will carry forward our close association for academic and research.

  
25/6/2025

(एस. एस. दाश / S. S. Dash)

वैज्ञानिक एफ / Scientist 'F'

(प्रभारी, तकनीकी अनुभाग / In-charge, Tech. Section)

**MEMORANDUM OF UNDERSTANDING (MOU) BETWEEN  
THE UNIVERSITY OF BURDWAN, WEST BENGAL AND  
BOTANICAL SURVEY OF INDIA (BSI) [A NATIONAL BODY  
SETUP IN 1890 TO SURVEY THE COUNTRY FOR ITS  
BOTANICAL RESOURCES WITH HEADQUARTER AT CGO  
COMPLEX, 3<sup>RD</sup> MSO BUILDING, BLOCK-F, SECTOR-I,  
SALT LAKE CITY, KOLKATA-64]**

Botanical Survey of India, the nodal research organization supported by Ministry of Environment and Forests, always plays a significant role in fulfilling nation's commitment to various International conventions like Convention on Biological Diversity (CBD), Convention on International trade in International Endangered species of wild Flora and Fauna (CITES), etc. It has ample expertise in exploring, identifying, creating inventories and documenting the rich diversity of plant resources of the country with particular reference to protected areas and fragile ecosystems. Its activities also include identification of endemic, endangered and threatened species, conservation of threatened taxa, collection and identification of ethnobotanically important plant resources, etc.

The University of Burdwan sincerely sought the collaboration of BSI so that both the organizations can enter into an understanding in protecting the fragile microcosm of unique biodiversity glorifying the Golapbag campus of the University and adding value to the existing knowledge base, teaching and research activities involving the Department of Botany in the process.

The Department of Botany of the University of Burdwan, established in 1964 under the leadership of the eminent teacher and



scientist, Prof. P. N. Bhaduri, Ph. D (London), is one of the pioneer institutes of Plant Science with apt reputation in both teaching and research. Since then the department has successfully completed DSA phase I, II, III and COSIST. In fact, it is the first Department of this University which was considered as a Centre for Advanced Study (CAS) by the UGC in the year 2007 and presently department is in the second year of phase II of CAS scheme. As a mark of record of excellent research, members of the faculty of this Department have published more than 1600 research papers in various peer reviewed journals of national and international repute. More than 200 research students have been admitted to PhD degree under the guidance of faculty members of this department. Apart from teaching, the department is trying to strengthen R & D linkage with different Scientific Institutions with the objective to enhance collaborative research work and develop knowledge base with non commercial application.

So, for fulfilling the objective as stated the authorities of both the organizations decided to collaborate in the following issues for mutual benevolence in matters of phytodiversity conservation and development of research and academic activities based thereupon.

1. Acharya Jagadish Chandra Bose Indian Botanic Garden, BSI will help in preparing a proposal by the Botany Department, University of Burdwan for inclusion of the Golapbag campus of the University as 'Protected Site' by the state government for conservation of its plant diversity in the

greater interest of the society since this area together with Ramnabagan Wildlife Sanctuary which constitutes a green patch in the periurban area to sustain a wide diversity of fauna and abate pollution to optimize the environment of Bardhaman city has been experiencing threats of biodiversity impoverishment especially of the rare species. Moreover aesthetic attributes of the campus emanating from variation in microhabitats (terrestrial, semiaquatic and aquatic), occupancy by both indigenous and exotic species of trees, herbs, shrubs and vines, ornamentals and the faunal diversity especially of birds (migratory waterfowls sustained by the wide variety of aquatic plants) is highly praiseworthy deserving periodic surveillance for protection.

2. BSI will help the Department of Botany, University of Burdwan to develop its existing herbarium and enrich with digital images of plant specimens especially from Type section of Central National Herbarium (CAL), and provide other related infrastructural facilities. For developing the existing departmental Herbarium, its integration with the activities of BSI is deemed essential.
3. BSI will help the Department of Botany, University of Burdwan for developing a Botanic garden in Golapbag campus of the University, where BSI will take active role in sharing its expertise to develop the garden.
4. BSI shall train the technical staff and research scholars of the University for Taxonomic Documentation.

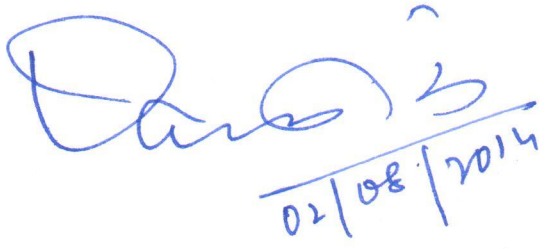
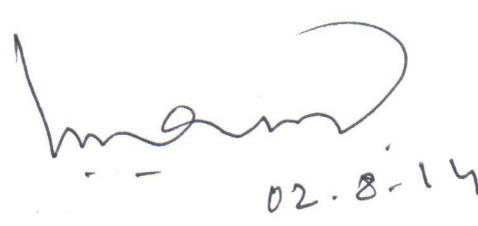
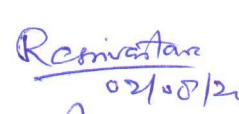
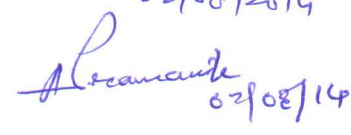



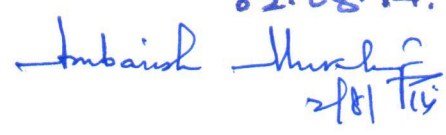


5. BSI will organize trainings, workshops on collection, processing of specimens, their preservation etc.
6. Both BSI and the Department of Botany, University of Burdwan, West Bengal can exchange plant specimens, especially of the Flora of West Bengal.
7. Both the BSI and Department of Botany, University of Burdwan, West Bengal can be involved in faculty exchange programme.
8. BSI will facilitate and sponsor research in some common thrust areas where faculties and scientists from both the Institutes can work in collaborative projects.

In its turn, the University of Burdwan will contribute through its Botany Department in the following issues:

1. University will recognize the BSI scientist as research guide and will recognize BSI as a research organization for Ph. D. programme as per the existing statutory norms of the University of Burdwan.
2. Department of Botany will collect medicinal plants from the district and the adjoining areas where the local healers use them for therapeutic purpose and share the same along with the data-base of ethnomedicinal plants (which are not the part of any codified, classical traditional Indian medicinal system) with BSI.
3. Department will also submit the proposals to DST, Govt. of West Bengal and other Central agencies for getting appropriate funding in order to carry out the assigned responsibilities to be undertaken by the organization.
4. Department shall donate the duplicate herbarium specimens for preservation in CAL and other herbaria of BSI.
5. Department will assist in carrying out advanced biochemical and molecular characterization of plant specimens.

6. University will give priority access to BSI scientists for availing University Science Instrumentation Centre (USIC) facilities
7. University and Department in particular shall simultaneously identify its own Taxonomists and the Taxonomists of its affiliated Colleges for identifying plants and submitting authenticated samples.
8. Any other academic responsibility which may be assigned to the Department based on its expertise, available resources and feasibility for mutual benefit shall be discharged as far as practicable.

 02/08/2014	 02.8.14.
<b>DIRECTOR BOTANICAL SURVEY OF INDIA</b>	<b>VICE-CHANCELLOR UNIVERSITY OF BURDWAN</b>
<b>Witness:</b>  02/08/2014  02/08/14  2/8/2014	<b>Witness:</b>  02.08.14  02.08.14.  2/8/14