INSTITUTIONAL BIOSAFETY COMMITTEE

Cotton University

Panbazar, Guwahati- 781001, Assam, India
Website: www.cottonuniversity.ac.in

Examination and decisions taken by IBSC on its 11th Meeting held on 24th Sept. 2026

Sl. No.	Appln No.	Name (PG/UG/ PhD)	Title of the research Problem	Remarks, if any
1	IBSC/Apln/ 2025/61	Doniel Deka, PhD Scholar, MBBT	Machine learning guided design of indigenous PGP consortia and nano-enabled formulation for sustainable crop production	Approved with the condition that the applicant should restrict his/her work up to Risk Group II for the isolation, screening and development of the proposed PGP consortia. Based on first phase of work, If the proposed pot-based experiment requires handling Risk Group II PGPB, further approval may be obtained from IBSC.
2	IBSC/Apln/ 2025/62	Sampa Paul PhD Scholar, MBBT	Development of sustainable technology for the synthesis of high- value products from lignocellulosic biomass	Approved. As the proposed organism fall under risk group 1
3	IBSC/Apln/ 2025/63	Bipasha Choudhury, MSc. Botany	Developing a fungal consortium with plant growth promoting and water stress-tolerance properties from the rhizospheric soil of monocotyledonous weeds	Approved subject to condition that; 1. The applicant should provide details of the methods for fungal identification and risk-group assessment. Appropriate measures should be undertaken to confirm that potentially pathogenic or otherwise hazardous fungi are excluded before proceeding with further experimentation. The student needs to give an undertaking (forwarded by supervisor) to restrict the work with only Risk Group I fungi
4	IBSC/Apln/ 2025/64	Kuldeep Nath, MSc , MBBT	Isolation and characterization of cellulolytic bacteria from the gut of termites associated with tea plants (Camellia sinensis)	Approved with a recommendation to use BSL II facility
5	IBSC/Apln/ 2025/65	Bhumismita Nath, MSc, Botany	Developing a consortium of fungus with drought tolerance and plant growth promoting properties from the rhizosphere of dicotyledonous weeds of Cotton University Campus	Approved subject to condition that; 1. The applicant should provide details of the methods for fungal identification and risk-group assessment. Appropriate measures should be undertaken to confirm that potentially pathogenic or otherwise hazardous fungi are excluded before proceeding with further

				experimentation. The student needs to give an undertaking (forwarded by supervisor) to restrict the work with only Risk Group I fungi
6	IBSC/Apln/ 2025/66	Farhana Wahid, MSc, EBWS	Study of soil microbial diversity and abundance (bacteria and fungi) in different land use types of Kamrup (M) district	Approved
7	IBSC/Apln/ 2025/67	Jyotishman Das MSc, MBBT	Adaptive Evolution of bacterial responses to persistent environmental contaminant	Approved with a recommendation to work under BSL II facility and disposal of evolved culture needs to be specified.
8	IBSC/Apln/ 2025/68	Pratiksha Bora MSc, Botany	A study on the effects of native and commercial AM Fungi on secondary metabolite production of Eryngium foetidum L.	Approved with recommendation to provide source and composition of commercial AM fungi inoculum.
9	IBSC/Apln/ 2025/69	Arghadip Sarkar, MSc, MBBT	Isolation, identification and bioprospecting of endophytic Fungi from Aquilaria species for bioactive secondary metabolites	Approved subject to condition that; 1. The applicant is requested to submit a **detailed methodology for fungal identification and risk-group assessment** to demonstrate that potentially pathogenic or otherwise hazardous fungi will be **identified and excluded before further experimentation**. 2. Allowed only to work with Risk Group I
10	IBSC/Apln/ 2025/70	Prerona Saloi MSc, Botany	A comparative analysis of growth of Eryngium foetidium L. inoculated with native and commercial AM fungi	Approved with recommendation to provide source and composition of commercial AM fungi inoculum to be used.
11	IBSC/Apln/ 2025/71	Kakoli Kashyap UG, Botany	Efficacy of broad-spectrum antibiotics and medicinal plant extracts against certain bacterial strains isolated from the environment	Not approved. 1.Since the proposed work involves the isolation and handling of microorganisms from environmental samples, which may potentially contain microorganisms belonging to **Risk Groups II, III, or IV**, the proposed work **should not be undertaken in the existing facility described in the application**. **2.** The proposal should be **revised to restrict the proposed work**

				exclusively to microorganisms belonging to Risk Group I and resubmitted to the IBSC for consideration and approval **within one week**.
12	IBSC/Apln/ 2025/72	Bhumika Hazarika UG, MBBT	Metabolite profiling and bioactivity of medicinal plants used in the preparation of traditional starter cultures for wine preparation in Assam	Approved. Endangered plant should be avoided
13	IBSC/Apln/ 2025/73	Nibedita Sinha UG, MBBT	Microbial approaches for sustainable remediation of cadmium contamination and plant growth enhancement	Approved with handling of bacteria that comes under risk Group II and not III. Plant growth enhancement part is permitted only for risk group I
14	IBSC/Apln/ 2025/74	Bharti Das UG, MBBT	Bioprospecting indigenous cellulolytic bacteria for cellulase production and deinking of waste paper	Approved with recommendation to use BSL II facility
15	IBSC/Apln/ 2025/75	Roop Hriday Roy UG, MBBT	Green synthesis of silver nanoparticles using *Garcinia pedunculata* leaf extract and evaluating its biological activity	**Approved**, with the following conditions: should use **type strains instead of MDR clinical strains** for the *in vitro* biological assay of the synthesized nanoparticles. A declaration to this effect, duly signed by the concerned supervisor, should be submitted to the IBSC. Further it is recommended to dispose all liquid waste in accordance with the **institute's approved liquid-waste disposal protocol**.
16	IBSC/Apln/ 2025/76	Hriddhirupa Choudhury UG, Botany	Biofilm attenuation by phytochemical plant extract and molecular docking of phytochemicals against biofilm/quorum-sensing targets with in-silico design of a candidate sgRNA against a biofilm-associated gene	Approved with a recommendation to use risk group I or type Strain. The waste phytochemicals have to be discarded through institutional waste disposal mechanism.

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17	IBSC/Apln/ 2025/77	Sudipta Kumar Rabha, UG, Botany	Phytochemical profiling and piscicidal activity of *Persicaria hydropiper* (L.) Delarbre plant extract in *Heteropneustes fossilis*	Not approved in the present form. Its seems that the proposed work has already been completed as reflected in the submitted proposal. Needs to resubmit the revised proposal within a week.
18	IBSC/Apln/ 2025/78	Naina Bora UG, MBBT	Exploring gut bacteria of the Tea Looper (*Hyposidra talaca*) for their potential role in pesticide detoxification and tolerance	Approved with recommendation to work in BSLII facility

Member Secretary, IBSC, CU