

Form D1 APPLICATION TO RCGM TO CARRY OUT RESEARCH AND DEVELOPMENT INVOLVING HAZARDOUS MICROORGANISMS (HMOs), GENETICALLY MODIFIED ORGANISMS (GMOs)/ LIVING MODIFIED ORGANISMS (LMOs) FOR AGRICULTURAL AND ENVIRONMENTAL APPLICATION

1. Applicant Details :

Instructions to follow

Name of Applicant :

Designation :

Address/Line-1 :

Address/Line-2 :

State / UT :

District :

Village / Town / City :

Pin Code :

Office Phone Number :

With STD Code

Mobile No :

Email :

2. Application for :

3. Product Code :

Choose/ generate the CODE, which explicitly conveys the essence of the proposed work. Kindly note that the same code might be used for generation of future references.

4. Status of the Project :

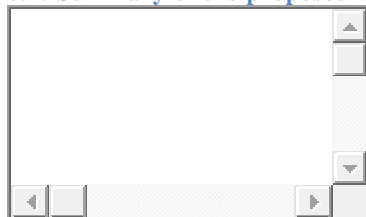
☐ Ongoing ☒ New

5. Proposed work objective(s):

Furnish details of key objectives and scientific background of the projects as bullet points

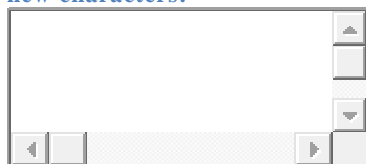
6. Proposed work plan :

6.1: Summary of the proposed work plan utilizing HMOs, GMOs/LMOs and product(s) thereof :

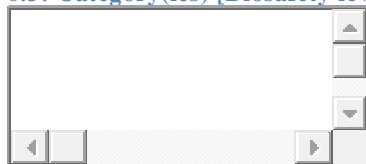
A rectangular text box with a light gray border and a vertical scrollbar on the right side, intended for a summary of the proposed work plan.

Indicate laboratory studies proposed to be undertaken including basic transformation, expression of target gene(s), Standardization of fermentation/ production procedure(s), etc., as bullet points

6.2: Greenhouse/ nethouse experiments on HMOs, GMOs/LMOs for testing/ assessing the efficacy of their new characters:

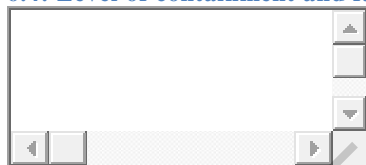
A rectangular text box with a light gray border and a vertical scrollbar on the right side, intended for details on greenhouse or nethouse experiments.

6.3: Category(ies) [Biosafety level(s)] of experiments to be performed:

A rectangular text box with a light gray border and a vertical scrollbar on the right side, intended for specifying the category and biosafety level of experiments.

To be submitted as bullet points

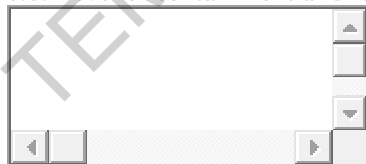
6.4: Level of containment and facilities appropriate for the proposed work:

A rectangular text box with a light gray border and a vertical scrollbar on the right side, intended for describing the level of containment and facilities.

6.5: Location(s) at which research work would be performed and details of contact person(s):

A rectangular text box with a light gray border and a vertical scrollbar on the right side, intended for providing location and contact person details.

6.6: Level of containment and facilities existing at above location(s):

A rectangular text box with a light gray border and a vertical scrollbar on the right side, intended for describing existing containment and facilities at the location(s).

7. Description of the HMOs, GMOs/LMOs and product(s) thereof proposed to be employed in the research proposal (in scientific terms):

7.1: Taxonomy (common and scientific) and geographical origin of host(s) or the host(s) carrying the vector(s)/ target gene(s) :

7.2: Morphology & Physiology :

7.3: Belonging to Risk Group(s)/ Risk Category(ies) before genetic modification, if any :

As per rDNA Safety Guidelines, 1990

7.4: Belonging to Risk Group(s)/ Risk Category(ies) after genetic modification, if any :

As per rDNA Safety Guidelines, 1990

7.5: History of use :

. Provide the details on its environmental stability; toxicity; allergenicity; virulence/ pathogenicity; host range; transmissibility and treatment options

. If the provided space is insufficient to furnish complete details, please enclose the relevant information as annexure

Upload

please upload only .pdf,.doc,.png,.gif and .docx file.

7.6: Anticipated new characters (including morphological and phenotypic changes) in GMOs/LMOs and product(s) thereof and expected difference as compared to conventional counterparts :

If the provided space is insufficient to furnish complete details, please enclose the relevant information as annexure

Upload

please upload only .pdf,.doc,.png,.gif and .docx file.

7.7: Anticipated functions of the product(s) :

If the provided space is insufficient to furnish complete details, please enclose the relevant information as annexure

7.8: Proposed fate of the HMOs, GMOs/LMOs and product(s) there of :

8. Details on :

- Do you work on or planning to work on multiple gene constructs for the proposed research?
If so, furnish details of each of this gene construct as per the requirement given below.
Post furnishing information of one gene construct, clicking on 'ADD' button would make provision(s) to furnish details of another gene constructs
- If the provided space is insufficient to furnish complete details, please enclose the relevant information as annexure, separately for each gene construct

8.1: Name of gene construct :

8.2: Details of gene construct:

Provide annotated restriction maps of the gene construct(s) defining start & end positions of each genetic element along with salient features of key gene(s)

8.3: Source of nucleic acid(s) :

8.4: Description of the target gene(s) and mode of action, if known :

Provide details of target gene(s) that will be inserted, deleted or modified, and associated genetic elements e.g. promoter/enhancer elements, introns, polyadenylation sequences. If the provided space is insufficient to furnish complete details, please enclose the relevant information as annexure

8.5: Nucleic acid/ amino acid sequence(s) of the gene(s) incorporated/ to be incorporated into the host organism :

Please enclose the nucleic acid/ amino acid sequence of the target gene(s) in FASTA format with accession number, if any

8.6: Description of the other gene(s) (such as marker, reporter gene, etc) inserted, deleted or modified, if any :

8.7: Whether the product(s) of target gene(s) have been implicated in toxic and/or allergenic effect?

☐ YES ☒ NO

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please upload only .pdf,.doc,.png,.gif and .docx file.

9. Anticipated exchange of HMOs, GMOs/LMOs and product(s) thereof for research purpose, if any

10. What precautions will be taken to prevent any unintended dispersal of the HMOs, GMOs/LMOs and product(s) thereof?

11. Proposed decontamination and disposal mechanisms

12. Contingency plan and risk management measures in case of an unintentional release of the HMOs, GMOs/LMOs and product(s) thereof :

13. Appropriate references and any other relevant information :

Please also provide details of citations included in the application, if any
Please enclose the relevant information as annexure

Upload

14. Confidential information?

☐ YES ☒ NO

15. Whether the HMOs, GMOs/LMOs and product(s) thereof under consideration, have been deliberated earlier by the RCGM? If so, provide relevant 'Unique Application Code (UAC)' assigned for each of those deliberations :

	S.No.	Unique Application Code (UAC)
<input type="checkbox"/>	01	<input type="text"/>

16. Declaration By The Applicant:

- I declare that I am familiar with, and agree to comply with all the provisions mentioned in the regulations and Guidelines on Biosafety of recombinant DNA Research and Biocontainment, 2017 and Guidelines & Handbook for Institutional Biosafety Committee (IBSC), 2011 and other applicable Guidelines, as modified time to time by the Government of India.
- I would ensure that all investigators/ researchers and staff working in the area of HMOs, recombinant DNA, GMOs/LMOs and product(s) thereof understand and follow the aforesaid biosafety guidelines.
- I assure that adequate training would be conducted to create awareness about compliance requirements while working with biorisk inherent microorganisms and/ or recombinant organisms.
- The HMOs, GMOs/LMOs and product (s) thereof (transferred material), if any, will be utilized for RCGM approved purpose(s) only.
- I also assure that deviations to the above provisions, if any; arising out of the experiments would be brought to the notice of the Chairman-IBSC and the Member Secretary-RCGM immediately.
- I am aware that making false or misleading statements may attract penalty under the Environment (Protection) Act, 1986.

Name :

Designation :

Signature with stamp & Date:

- To be signed in original by hand. (Electronic/ scanned signatures not acceptable)

17. Certified & Forwarded By the Chairman of the IBSC:

Submission of Minutes of the IBSC meeting is obligatory. Kindly note that minutes older than two years are void. Please refer FAQs for submission of minutes of the IBSC meeting.

- I certify that the information contained in this form has been checked by the Institutional Biosafety Committee (IBSC) and found to be complete.
- I further certify that investigator(s), researcher(s) and staff intended to work with HMOs, recombinant DNA, GMOs/LMOs and product (s) thereof have adequate training and experience for the proposed dealings.
- The proposal set out above has been considered and approved by the IBSC in its meeting held on as the agenda item no. and is forwarded to RCGM for further necessary action (Copy of the duly signed minutes of relevant meeting is enclosed).

Please enclose duly signed minutes of the IBSC meeting in which the proposal under consideration was deliberated and approved by the IBSC

Upload

Please upload only .pdf,.doc,.png,.jpg and .docx file.

Name :

Designation :
Chairman

Signature with stamp & Date:

- To be signed in original by hand. (Electronic/ scanned signatures not acceptable)