

**APPLICATION TO IBSC / INFORMATION TO RCGM TO CARRY OUT RESEARCH AND
DEVELOPMENT INVOLVING HAZARDOUS MICROORGANISMS (HMOs), GENETICALLY MODIFIED
ORGANISMS (GMOs)/ LIVING MODIFIED ORGANISMS (LMOs) FOR HEALTH CARE AND INDUSTRIAL
USE**

Project No:
Submission date:
(to be filled by IBSC secretariat)

1. Name of the Applicant:

Designation:

Address (Please include mobile no & email ID)

2. Title of the Project:

3. Status of the Project: Ongoing / New

4. Proposed work objective(s):

(furnish details of key objectives and scientific background of the project as bullet points)

5. Proposed work plan

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

(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)

5.2. Category(ies) [Biosafety level(s)] of experiments to be performed

5.3. Level of containment and facilities appropriate for the proposed work:

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

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

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

6.1. Taxonomy of host(s) or the host(s) carrying the vector(s)/target gene(s):

6.2. Morphology & Physiology

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

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

6.5. History of use:

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

6.6. Anticipated new characters in GMOs/LMOs and product(s) thereof and expected difference as compared to conventional counterparts:

6.7. Anticipated functions of the product(s)

6.8. Proposed fate of the HMOs, GMOs/LMOs and product(s) thereof:

7. Details on

7.1. Source of nucleic acid(s)

7.2. 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)

- 7.3. Vector map and Nucleic acid/ amino acid sequence(s) of the gene(s) incorporated/ to be incorporated into the host organism:
(Provide nucleic acid/ amino acid sequence of the target gene(s) in FASTA format with accession number. If any)
- 7.4. Description of the other gene(s) (such as marker, reporter gene, etc) inserted, deleted or modified, if any:
- 7.5. Details of gene construct, if any:
(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))
- 7.6. Number of copies of the genes incorporated:
- 7.7. Whether the product(s) of target gene(s) have been implicated in toxic and/or allergenic effect:
Yes / No
8. Anticipated exchange of HMOs, GMOs/LMOs and product(s) thereof for research purpose, if any:
(Provide details of probable material(s) to be exchanged along with details of exchangers)
9. What precautions will be taken to prevent any unintended dispersal of the HMOs, GMOs/LMOs and product(s) thereof?
10. Proposed decontamination and disposal mechanisms
11. Contingency plan and risk management measures in case of an unintentional release of the HMOs, GMOs/LMOs and product(s) thereof:
12. Appropriate references and any other relevant information
13. Confidential information?
14. Whether the HMOs, GMOs/LMOs and product(s) thereof under consideration, have been deliberated earlier by the RCGM? If so, provide relevant
15. 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

16. Certified / Forwarded by the Chairman & DBT Nominee of the IBSC

- 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 approved / forwarded to RCGM for further necessary action

Name: Dr Geetanjali Sachdeva
Designation: Chairman

Signature with Stamp & date

Name: Dr Sanjay Biswas
Designation: DBT Nominee

Signature with date