

**FORM 19**  
**INFORMATION TO RCGM TO CARRY OUT RESEARCH INVOLVING**  
**GMOs/LMOs FOR AGRICULTURE AND ENVIRONMENT USE**

1. Name of the Applicant  
Designation  
Address  
Telephone No.  
Fax No.  
e-mail
  
2. IBSC Code
  
3. Application for :
  - 3.1 Purpose
  - 3.2 New  Yes  No
  - 3.3 Ongoing Project  Yes  No  
If yes, no. & date of earlier permits/letters issued :
  - 3.4 If yes, briefly state the purpose for which permission was granted.
  - 3.5 Category of experiments as per the Recombinant DNA Safety Guidelines, 1990 and/or Revised Guidelines for Research in Transgenic Plants, 1998.
  
4. Objectives of the proposal
  
5. Description of the genetically engineered organisms (including plants and animals) employed in the research proposal
  - 5.1 Description of genetically engineered organisms
  - 5.2 Anticipated new characters in genetically engineered organisms/ Expected difference as compared to non-transgenic counterparts.
  - 5.3 Description of the target gene and mode of action.
  - 5.4 Description of the other genes inserted if, any (Such as marker/ reporter gene)
  - 5.5 History of use including toxicity and allergenicity aspects
  
6. Details on (Nucleic acid(s) & Vectors) :
  - 6.1 Source of nucleic acid(s) :
  - 6.2 Copy number of gene(s) :
  - 6.3 Nucleic acid sequence (Please enclose the nucleic acid sequence map of the target gene) :
  - 6.4 Vector(s) description (please enclose the Plasmid map) :

7. Summary of the proposed work plan.
  - 7.1 Basic transformation work and tissue culture procedure at laboratory level and standardize the procedure to assess the expression of the target gene in the transformed material.
  - 7.2 Transfer of target gene imported/ indigenously isolated in Indian germplasm and to assess the expression of the target gene in the transformed material.
  - 7.3 Transfer of target gene from imported materials such as seeds to indigenous species and to assess the expression of the target gene in the transformed material.
  - 7.4 Lab/greenhouse/nethouse/contained facility experiments on GMOs/LMOs for testing/ assessing the efficacy of their new characters.
  
8. Format of the information to be provided about green house facility, if applicable
  - 8.1 Frame structure
  - 8.2 Optimum size of the unit
  - 8.3 Plastic film covering
  - 8.4 Dimension of evaporation pad (in terms of Length \*Breadth\*Height)
  - 8.5 Covering of external surface of the pad
  - 8.6 Mesh net covering used to cover the pad
  - 8.7 Size of the mesh
  - 8.8 Temperature maintained
  - 8.9 Irrigation
  - 8.10 Location and orientation of the unit
  - 8.11 Drainage system
  - 8.12 Photograph of the green house.
  
9. Indicate whether gene is toxic to animals
  
10. Indicate whether gene is allergenic to animals
  
11. Geographical origin of plant.
  
12. Decontamination and disposal mechanisms
  
13. Risk management (Emergency plan)
  
14. Any other relevant information

11.

Declaration:

I declare that the information provided in the above format is correct and accurate to the best of my knowledge. The "Recombinant DNA Safety Guidelines 1990 and Revised Guidelines for research in transgenic plants & Guidelines for Toxicity and Allergenicity Evaluation of transgenic seeds, plants and plant parts" 1998 brought out by the Department of Biotechnology, Ministry of Science & Technology, Govt. of India will be and is being strictly followed. The imported material will be and is being utilized for the said purpose only. In case any untoward incident occurs, the Chairman of the IBSC and the Member-Secretary of the RCGM will be immediately informed.

Date: Signature of the Applicant

Forwarded:

The proposal set out above has been considered by the "Institutional Biosafety Committee" in its meeting held on \_\_\_\_\_ and is forwarded to RCGM for further necessary action.

Date: Signature and Name of the Chairman, IBSC

Note:

1. Please submit 20 copies of the application along with the enclosures to the Member Secretary, RCGM, Department of Biotechnology for consideration by RCGM.
2. Enclosed: (Kindly tick the enclosures)
  - Sequence map of the gene
  - Vector Map
  - Copy of the permit, if issued earlier
  - Copy of the minutes of IBSC meeting in which the proposal was approved