

No. BT/BS/17/175/2005-PID

Dated: 02.01.2006

OFFICE ORDER

Subject: Reconstitution of Review Committee on Genetic Manipulation in the Department of Biotechnology.

In accordance with the Notification of the Ministry of Environment and Forests (MoE&F) vide Gazette Notification No. GSR 1037 (E) dated 5th December 1989, notified under the Environment (Protection) Act 1986, the Department of Biotechnology (DBT) has reconstituted the Review Committee on Genetic Manipulation (RCGM) which shall function in the Department of Biotechnology with the following constitution:

1. Dr. V.P. Kamboj, Ex-Director, CDRI and
CSIR Emeritus Scientist,
Central Drug Research Institute,
Chattar Manzil, Post Box. No. 173,
Lucknow – 226 001. - Chairman
2. Prof. M. Udaya Kumar, Professor,
Department of Crop Physiology,
University of Agricultural Sciences, Hebbal,
GKVK, Bangalore - 560 065. - Co-Chairman
3. Dr. N.T. Yaduraju, Principal Scientist
Division of Agronomy,
Indian Agricultural Research Institute (IARI),
Pusa Campus, New Delhi - 110 012. - Member
4. Dr. Rakesh Tuli,
National Botanical Research Institute,
Rana Pratap Marg, P.B. No. 436,
Lucknow – 226 001. - Member
5. Dr. J. Nagaraju, Staff Scientist & Chief,
Laboratory of Molecular genetics,
Centre for DNA Fingerprinting and Diagnostics,
4-87/1, ECIL Road,
Nacharam, Hyderabad – 500 076. - Member
6. Dr. T.P. Rajendran, ADG (Plant Protection)
Indian Council of Agricultural Research (ICAR),
Krishi Bhawan, New Delhi – 110 001. - Member

7. Dr. V.V.S. Suryanarayana, Principal Scientist,
Indian Veterinary Research Institute,
Hebbal, Bangalore – 560 024. - Member
8. Dr. B.M. Khadi, Director,
Central Institute for Cotton Research (CICR),
(Indian Council of Agricultural Research)
Post Bag No. 2, Shankar Nagar P.O.,
Nagpur – 440 010. - Member
9. Dr. A.R. Reddy, Professor,
Department of Plant Sciences,
School of Life Sciences,
University of Hyderabad,
Hyderabad – 500 046. - Member
10. Dr. Shiva Reddy, Group Leader,
Plant Biology: Plant transformation,
International Centre for Genetic Engineering and Biotechnology,
P.O. Box No. 10504,
Aruna Asaf Ali Marg, New Delhi – 110 067. - Member
11. Prof. Har Narayan Gour,
Professor and Head,
Department of Plant Pathology,
Rajasthan College of Agriculture,
Maharana Pratap University of Agriculture and technology
Udaipur – 313 001, Rajasthan. - Member
12. Dr. Rakesh K. Jain, Scientist-F,
Institute of Microbial Technology,
Sector 39A, Chandigarh – 160 036. - Member
13. Dr. Hemant J. Purohit, Head,
Environmental Genomics Unit,
National Environmental Engineering Research Institute (NEERI),
Nehru Marg, Nagpur – 440 020. - Member
14. Dr. A.K. Panda, Staff Scientist,
National Institute of Immunology,
Aruna Asaf Ali Marg,
New Delhi – 110 067. - Member
15. Dr. P. Kondaiah, Professor,
Department of Molecular Reproduction,
Development & Genetics,
Indian Institute of Science, Maleswaram,
Bangalore – 560 012. - Member

16. Dr. Debi P. Sarkar,
Professor & Head,
Department of Biochemistry,
University of Delhi South Campus,
Benito Juarez Road, New Delhi - 110 021. - Member
17. Dr. B. Sesikeran, Dy. Director,
Head Pathology Division,
National Institute of Nutrition (NIN),
Jamai-Osmania PO.
Hyderabad – 500 007. - Member
18. Nominee, ICAR
Indian Council of Agricultural Research (ICAR),
Krishi Bhawan, New Delhi – 110 001. - Member
19. Nominee, CSIR
(Research Planning Business Development Group (RPBD)),
Council of Scientific and Industrial Research,
Anusandhan Bhavan, 2, Rafi Marg,
New Delhi - 110 001. - Member
20. Nominee, ICMR
Indian Council of Medical Research (ICMR),
Ansari Nagar, Post Box No.4911,
New Delhi – 110 029. - Member
21. Nominee MoE&F / GEAC
Ministry of Environment & Forests,
Paryavaran Bhavan, C.G.O. Complex,
Lodi Road, New Delhi -110 003. - Member
22. Dr. J.L.Karihaloo, Director
National Bureau of Plant Genetic Resources (NBPGR),
Pusa Campus, New Delhi – 110 012 - Member
23. Nominee DCG(I)
O/o Drugs Controller General of India,
Directorate General of Health Services,
Nirman Bhawan, New Delhi 110 011. - Member
24. Dr. K.K. Tripathi, Adviser
DBT - Official Member
25. Dr. K.S. Charak, Scientist-F,
DBT - Official Member
26. Dr. Bindu Dey, Scientist-F
DBT - Official Member

- | | | | |
|-----|--|---|------------------|
| 27. | Dr. Suchita Ninawe, Scientist-E
DBT | - | Official Member |
| 28. | Dr. T.V.Ramanaiah,
Scientist-F, DBT | - | Member Secretary |

TERMS OF REFERENCE OF RCGM

1. The RCGM shall function in the DBT to monitor the safety related aspects in respect of all ongoing r-DNA projects & activities involving Genetically Engineered Organisms/ Hazardous Micro-organisms and controlled field experiments as per the Rules-1989 of EPA-1986.
2. The RCGM shall constitute Monitoring-cum-Evaluation Committee (MEC) through DBT as per the 'Revised Guidelines for Research in Transgenic Plants and Guidelines for Toxicity and Allergenicity Evaluation of Transgenic Seeds, Plants & Plant Parts-1998'. RCGM may also appoint subgroups to undertake specific activities related Biosafety.
3. The RCGM shall bring out manuals of guidelines specifying procedure for regulatory process with respect to activities involving genetically engineered organisms in research, use and application including industry with a view to ensure environmental safety.
4. The RCGM shall lay down procedures restricting or prohibiting production, sale, importation and use of such genetically engineered organisms or products thereof for research and applications that may have biohazard potential.
5. The RCGM shall review all on-going research projects involving high-risk category and controlled field experiments.
6. The RCGM or its constituted subgroups shall visit periodically the experimental sites where projects with biohazard potential are being pursued to ensure that adequate safety measures have been taken as per the guidelines.
7. The RCGM would issue the clearance for import of genes, DNA fragments, vectors, plasmids, etiologic agents & vectors, transgenic germplasm(s) including transformed calli, seeds, plants & plant parts for research use only.
8. The RCGM can authorize applicants to conduct contained field trials limited to a total of 20 acres in multi-locations in one crop season in the country to seek answers to relevant and necessary questions on biosafety including risks related to environment, animal and human health. In one location, where the experiment is conducted with transgenic plants, the land used should not be more than one acre. The design of the trial experiments is either provided by the RCGM or it may approve the protocol designed by the Investigator.
9. The RCGM, on case-by-case basis, can authorize applicants to use bioreactors beyond 20 ltrs capacities exclusively for research purposes only to produce sufficient material/ products of GMOs required for generating pre-clinical and other relevant data required to establish the product for commercial use.

10. The RCGM, if required, can direct the applicants to generate toxicity, allergenicity and any other relevant data on transgenic materials/ GMOs in appropriate test systems. The RCGM may design or approve a protocol for conducting experiments to seek answers to the above.
11. The RCGM, if required, can direct the applicants to generate long term environmental safety data, who are seeking release of transgenic plants into the open environment after completion of initial safety evaluation.
12. The RCGM, if required, can generate or examine the research projects, proposals for conduct of workshops, seminars, symposia, training courses etc., creation of information systems/ data banks in electronic media, websites etc. and recommend to the DBT for funding of specific projects for furthering the cause of generating specific biosafety data related to use of GMOs in the environment and strengthening infrastructure facilities & dissemination of biosafety rules, regulations & guidelines in the country.
13. The RCGM may also invite, induct or appoint experts in their individual capacities for furthering the cause of RCGM.
14. The RCGM shall maintain the classified information provided by the applicants as confidential.
15. The RCGM shall function for a period of three years from the date of notification.
16. The RCGM shall meet at least twice in a year or as and when required.
17. The Members of RCGM shall be paid TA/DA and honorarium as per the Government rules & regulations.

This issues with the approval of Secretary, Department of Biotechnology.

(T.V. Ramanaiyah)
Scientist-F & Member –Secretary, RCGM
Department of Biotechnology.

RCGM agreed to meet in general on 4th Tuesday of every month. Applicants are advised to submit applications 20 days ahead of the scheduled meeting of RCGM for consideration. No application would be consider by the Committee which is not received within the prescribed time limits.

Composition of new Review Committee on Genetic Manipulation (RCGM)

1. Dr. V.P. Kamboj, Ex-Director, CDRI and
CSIR Emeritus Scientist,
Central Drug Research Institute,
Chattar Manzil, Post Box. No. 173,
Lucknow – 226 001.
e-mail: kambojvp@yahoo.com - Chairman

2. Prof. M. Udaya Kumar, Professor, - Co-Chairman
Department of Crop Physiology,
University of Agricultural Sciences, Hebbal,
GKVK, Bangalore - 560 065.
Phone: 080-2363 6713
e-mail: udayakumar_m@yahoo.com
3. Dr. N.T. Yaduraju, Principal Scientist - Member
Division of Agronomy,
Indian Agricultural Research Institute (IARI),
Pusa Campus, New Delhi - 110 012.
Phone: 011-2584 1488;
Fax : 011-2584 6420
e-mail: yaduraju@yahoo.co.uk
4. Dr. Rakesh Tuli, - Member
National Botanical Research Institute,
Rana Pratap Marg, P.B. No. 436,
Lucknow – 226 001.
Phone: 0522-220 5849# 324:
Fax: 0522-220 5836
e-mail: rakeshtuli@hotmail.com; rakeshtuli23@rediffmail.com
5. Dr. J. Nagaraju, Staff Scientist& Chief, - Member
Laboratory of Molecular genetics,
Centre for DNA Fingerprinting and Diagnostics,
4-87/1, ECIL Road,
Nacharam, Hyderabad – 500 076.
Phone: 040-2717 1427(D); 040-2715 1344# 1100(O), 1120(L)
Fax: 040-2715 5610/2715 5479
e-mail: jnagaraju@mailcity.com
6. Dr. T.P. Rajendran, ADG (Plant Protection) - Member
Indian Council of Agricultural Research (ICAR),
Krishi Bhawan,
New Delhi – 110 001.
e-mail: tprajendran@yahoo.com
7. Dr. V.V.S. Suryanarayana, Principal Scientist, - Member
Indian Veterinary Research Institute,
Hebbal, Bangalore – 560 024.
Phone: 080-2341 8078
e-mail: veluvarthy@yahoo.com
8. Dr. B.M. Khadi, Director, - Member
Central Institute for Cotton Research (CICR),
(Indian Council of Agricultural Research)

Post Bag No. 2, Shankar Nagar P.O.,
Nagpur – 440 010.

Phone: 07103-275 536

Fax : 07103-275 529

e-mail: cicrngp@rediffmail.com

9. Dr. A.R. Reddy, Professor, - Member
Department of Plant Sciences,
School of Life Sciences,
University of Hyderabad,
Hyderabad – 500 046.
Phone: 040-2301 0265;
Fax: 040 2301 0145
e-mail: arjulsl@uohyd.ernet.in
10. Dr. Shiva Reddy, Group Leader, - Member
Plant Biology: Plant transformation,
International Centre for Genetic Engineering and Biotechnology,
P.O. Box No. 10504,
Aruna Asaf Ali Marg, New Delhi – 110 067.
Phone: 011-2618 1212(L); 2618 9358/9360/94361/2619 5007 # 351
Fax : 011-2616 2316
e-mail: vsreddy@icgeb.res.in
11. Prof. Har Narayan Gour, - Member
Professor and Head,
Department of Plant Pathology,
Rajasthan College of Agriculture,
Maharana Pratap University of Agriculture and technology
Udaipur – 313 001, Rajasthan.
Phone: 0294-241 3612;
Fax: 0294-242 0447
e-mail: gour_hn@sancharnet.in
12. Dr. Rakesh K. Jain, Scientist-F, - Member
Institute of Microbial Technology,
Sector 39A, Chandigarh – 160 036
Phone: 0172-269 0908/5215/5225
Fax: 0172-269 0585/0632
E-mail: rkj@imtech.res.in; rakesh110@yahoo.com
13. Dr. Hemant J. Purohit, Head, - Member
Environmental Genomics Unit,
National Environmental Engineering Research Institute (NEERI),
Nehru Marg, Nagpur – 440 020.
Phone: 0712-2241 974;
Telfax: 0712-2249 883
e-mail: hemanthdhd@hotmail.com
14. Dr. A.K. Panda, Staff Scientist, - Member

- National Institute of Immunology,
Aruna Asaf Ali Marg,
New Delhi – 110 067.
15. Dr. P. Kondaiah, Professor, - Member
Department of Molecular Reproduction,
Development & Genetics,
Indian Institute of Science, Maleswaram,
Bangalore – 560 012.
Phone: 080-2293 2688
Fax : 080-23360 0999
e-mail: paturu@mrdg.iisc.ernet.in
16. Dr. Debi P. Sarkar, - Member
Professor & Head,
Department of Biochemistry,
University of Delhi South Campus,
Benito Juarez Road,
New Delhi - 110 021.
Phone: 011-2411 1967/2411 6178 (L)
Fax: 011-2411 0283/ 2411 5270
e-mail: dpsarkar59@rediffmail.com
17. Dr. B. Sesikeran, Dy. Director, - Member
Head Pathology Division,
National Institute of Nutrition (NIN),
Jamai-Osmania PO.
Hyderabad – 500 007.
Phone: 040-2700 8921# 309
Fax: 040-2701 9074
e-mail: sesikeran@gmail.com
18. Nominee, ICAR - Member
Indian Council of Agricultural Research (ICAR),
Krishi Bhawan,
New Delhi – 110 001.
19. Nominee, CSIR - Member
(Research Planning Business Development Group (RPBD)),
Council of Scientific and Industrial Research,
Anusandhan Bhavan, 2, Rafi Marg,
New Delhi - 110 001.
20. Nominee, ICMR - Member
Indian Council of Medical Research (ICMR),
Ansari Nagar, Post Box No.4911,
New Delhi – 110 029.
21. Nominee MoE&F / GEAC - Member
Ministry of Environment & Forests,
Paryavaran Bhavan, C.G.O. Complex,

Lodi Road, New Delhi -110 003.
Fax : 011 436 2551

- | | | | |
|-----|--|---|------------------|
| 22. | Dr. J.L.Karihaloo, Director
National Bureau of Plant Genetic Resources (NBPGR),
Pusa Campus, New Delhi – 110 012
Phone: 011-2584 3697
Fax : 011-2585 1495/ 2578 5619
e-mail: director@nbpgr.ernet.in | - | Member |
| 23 | Nominee DCG(I)
O/o Drugs Controller General of India,
Directorate General of Health Services,
Irman Bhawan, New Delhi 110 011. | - | Member |
| 24. | Dr. K. K. Tripathi, Adviser,
DBT | - | Official Member |
| 25. | Dr. K.S. Charak, Scientist-F
DBT | - | Official Member |
| 26. | Dr. Bindu Dey, Scientist-F
DBT | - | Official Member |
| 27. | Dr. Suchita Ninawe, Scientist-E
DBT | - | Official Member |
| 28. | Dr. T.V.Ramanaiah,
Scientist-F,
Department of Biotechnology,
CGO Complex, Lodi Road,
New Delhi – 110 003. | - | Member Secretary |