

NATIONAL BIODIVERSITY AUTHORITY

Minutes of the 13th Authority Meeting



सत्यमेव जयते

28th JANUARY, 2009

NEW DELHI

Minutes of the 13th Authority Meeting of National Biodiversity Authority

Date: 28th January, 2009

Venue: Room No 623, Ministry of Environment and Forests, Paryavaran Bhavan,
CGO Complex Ministry of Environment and Forests,
New Delhi 110 003.

Thirteenth meeting of the National Biodiversity Authority was held on 28.1.2009 at 10.30 A.M. in Committee Room No 623, Ministry of Environment and Forests, New Delhi under the Chairmanship of Dr P. L. Gautam, Chairman, NBA. The list of participants is at **Annexure 1**.

At the outset, the Chairman welcomed the Members of National Biodiversity Authority as well as the Special Invitees to the 13th Authority meeting. He informed that the Authority meeting is conducted at Delhi to take advantage of the presence of maximum members. It was also apprised that there are some issues requiring actions on a fast track approach for effective implementation of Biological Diversity Act at national level. On behalf of the Members, Shri A. K. Goyal, Jt. Secretary, MoEF, welcomed Dr. P. L. Gautam, the new Chairman, and expressed his confidence that during his tenure. Chairman acknowledged with thanks Shri A. K. Goyal as well as all the Members for the greetings. To begin with the Chairman presented the important activities and events since 12th Authority meeting. The Chairman placed on record the contributions of all his predecessors, present and past members of the NBA, the Expert Committees, Chairpersons and Member Secretaries of State Biodiversity Boards and the staff members of NBA for their role in the growth of NBA. He also made a special mention about the contributions of Shri G. K. Prasad, and Shri P. R. Mohanty, after the completion of term of Prof S. Kannaiyan. One of the important events that took place in the visit of Parliamentary Committee to assess the delay in submission of Annual Report of NBA to the Parliament. It was explained by the Chairman that the causative factor for such as initial teething problems viz. staff office accommodation etc in setting up of the new national level institution. NBA also had to urgently formulate notification including setting up of the house in order for its establishment. Further, the Annual Report for the previous periods got delayed due to the delay in conducting the audit and approval of accounts by the competent Authority. Now that the processes for audit have been streamlined and efforts already made for timely submission of Annual Report. Thereafter, the agenda items were considered.

1. Confirmation of minutes of the 12th meeting of National Biodiversity Authority

It was informed that the comments as received from different members were suitably incorporated and have been circulated. The authority approved the minutes of the 12th Authority meeting.

2. Discussion on the Action Taken on the Minutes of the 12th Meeting of the Authority

Agenda12.1: Approval of Annual Report for the year 2007-2008

It was informed that the Annual Report has been revised as per suggestions and is ready for submission. The Audit certificate is awaited from the CAG and immediately on its receipt the Annual Report will be submitted.

Agenda 12.2: Minutes of the Meeting of the Expert Committee on Evaluation of applications on Access to bioresources, Transfer of Research Results, IPR and Third party Transfer

It was informed that action has been taken in all the cases. Some agreements have been signed and in respect of some other cases personal hearing has to be given. The authority noted the progress.

Agenda 12.3: Minutes of the Meeting of the Expert Committee on Determination of Benefit Sharing on Access for commercial use, Transfer of Research Results, IPR and Third party Transfer applications

It was apprised that 46 applications have been received and action is being taken. It was also informed that two meetings have been conducted, one in collaboration with UNU-IAS Japan at New Delhi and the other in RIS, New Delhi for the discussion on the preparation of guidelines on Benefit Sharing.

Agenda 12.4: Review of NBA (Recruitment and Conditions of Service of Officer and other employees) especially in the context of column 13 with respect to the post of Secretary, NBA in the Schedule.

Shri A K Goyal informed that with respect to the post of Secretary NBA, it may be indicated as "Pay of Joint Secretary to Government of India". This has to be amended and the amendment notification to be issued accordingly.

The Authority desired that necessary action be taken as suggested by the member.

Agenda 12.5: Eligibility criteria for the Post of Chairman NBA

For determining the eligibility criteria for the post of Chairman, NBA, an expert committee was formed and a meeting was held in MOEF. The eligibility criteria as recommended by the expert committee was approved. It was also decided that same criteria shall be applicable for appointment of Chairman, State Biodiversity Boards.

Action: Secretary

Agenda 12.6: Decisions taken on the State Biodiversity Board Interactive and Review Meeting Held on 28th & 29th April, 2008 at Ooty, Tamil Nadu

The members noted the progress and decided to have regular review meeting with State Biodiversity Boards. It was decided to have the next review meeting in 2nd week of April.

Agenda 12.8: Regulation on Biodiversity Heritage Sites

The progress was reviewed. It was apprised that the draft has been prepared and Dr Vijayan has been requested to submit the consolidated version. Considering the importance of the activity, it was decided that an Expert committee be constituted by the Chairman NBA to finalise the matter.

Agenda 12.9: Draft local audit report on the Accounts of NBA for the period 2007-08

Discussed and decided under item 13.15

Agenda 12.10: Legal Consultant for the National Biodiversity Authority on Retainer Arrangement.

As per decision of the authority, the action is being taken. Accordingly, the advertisement for appointment of Law Firms is being processed.

Agenda 12.12: Additional Agenda with the Permission of the Chair

12.12.1. Consideration of proposal for extension of appointment of Expert Consultant for the Expert Committee on Soil, Sediment and Microbial Diversity:

Progress noted.

12.12.2 Consideration of the minutes of the Second Expert Committee meeting on Soil, Sediment and Microbial Diversity:

It was decided that the matter will be put up for approval of the authority in the ensuing meeting.

12.12.3 Consideration of agenda by Dr. A.K. Ghosh: “In order to implement Section 3 and Section 55 of the Biological Diversity Act an Authority may be designated for implementation of the provisions of law”.

A notification in this regard has already been made by the Administrative Ministry.

12.12.4 Consideration of agenda by Dr Kathiresan regarding the proposal for conducting “Capacity building on People’s Biodiversity Register in the Marine and Coastal regions of India”.

Highlighting the active contribution of the Annamalai University, Dr Kathiresan explained the proposal as under:

- The proposal shall be submitted once the approval of NBA is received.
- To start with, a methodology will be developed on the preparation of the register for coastal marine biodiversity for coastal villages, institutions involved in R&D and bioresources-based industries. The register will be prepared in English and other regional languages based on simplified methodology of NBA.
- Efforts will be made on capacity building where the State Biodiversity Boards and Biodiversity Management Committees have been established and replicated in other states in phased manner.
- The coastal and marine biodiversity register will include the particulars: (1) bioresources and biodiversity; (2) commercially exploited resources and their conservation status; (3) traditional knowledge related to marine and coastal diversity as well to spawning and aggregation of marine fishes and resilient species; (4) Information about biodiversity hotspots identified by State Government, and protected with the support of NBA or habitat threatened by overuse/abuse/neglect.
- Awareness programmes will be conducted at the levels of coastal villages and coastal districts for conservation and sustainable use of coastal and marine bioresources.
- Capacity building for local coastal villagers to negotiate benefits sharing in connection with the use of traditional knowledge among the coastal communities.
- Funding for this proposal to the tune of Rs. 1.5 crores for the 11th Five Year Plan period.
- If the proposal is considered by NBA, for immediate persuasion, seed money of Rs. 10 lakhs may be considered.

After presentation, discussions were held. Dr S. Subramaniam supported that Gulf of Mannar biosphere Reserve Trust, Ramanathapuram may be consulted. The members expressed their views and agreed in principle. It was decided that a proposal for the same shall be invited by NBA from

Centre for Advance Studies in Marine Biology, Annamalai University, Parangipettai for consideration in the next meeting.

Action: Secretary

AGENDA FOR THE 13th MEETING

Agenda 13. 1: Proposal on Indian Biodiversity Information System (IBIS) Data base.

Members discussed the matter and emphasized the importance of establishing compatibilities synergies and harmony amongst the different databases in the country developed independently by different departments and agencies. A need for a Clearing House Mechanism for different databases at NBA level was also emphasized with appropriate and effective safety measures. Considering that there are a number of databases relating to biodiversity being dealt with different organizations, it was decided that NBA may organize a Secretary level meeting of all concerned departments/organizations (such as CSIR, DBT, ICAR, FSI etc.) It was felt that all existing databases must be made GIS-enabled, and brought under NBA, which could provide the central meta-database. It was also agreed that the NBA may undertake all necessary ground work and have a detailed base paper prepared for this meeting.

Dr Ghosh suggested that the allocations for SBB, BMC and National Biodiversity Fund should have been brought as separate items. After discussion it was decided to sanction Rs.60 lakhs towards one time grant of Rs 50 thousands each for the establishment of BMCs, and Rs.20 lakhs towards establishment of National Biodiversity Fund, out of the balance amount of the sanctioned budget for the year 2008-09. Chairman was authorized to further reappropriate this allocation, if needed. It was decided that NBA budget allocation should include broad items viz. NBA, SBB, BMC and others and further splitting of these budget items should be done at the level of Chairman.

Action: Secretary

Agenda 13. 2: Allowances or fees to members of committees set up by NBA (Section 13(4), Biological Diversity Act).

This matter was discussed and decided that, NBA being an Autonomous Body and hence, based on the orders issued by other similar autonomous bodies under Government of India, the Chairman was authorized take final decision, after suitable consultations.

Action: Secretary

Agenda 13. 3: Directives to State Government for threatened areas, habitats and biological resources (Section 36 (2) of the Biological Diversity Act, 2002)

The Members agreed for the constitution of an Expert Committee for framing the Rules on declaring threatened areas. It was decided that Shri G. K. Prasad may be the Chairman of the Expert Committee with Dr. A. K. Ghosh, CED, Kolkatta, Dr. E.A.Siddique former DDG Crop Science, ICAR/Hyderabad, Shri Asish Kothari, Kalpaviriksh, Pune, Dr.A.Joshi, HESCO and one representative each from WII, BNHS, CES, IISC, MSSRF, PVP&FRA, SBB, GOMBRT Ramanathapuram as members. Chairman NBA is authorised to constitute and restructure the Expert committee.

Action: Secretary

Agenda 13. 4: Delegation of Powers - Section 16 of the Biological Diversity Act

The Members approved the proposal of delegation of powers to the Secretary in principle. It was also agreed that there is a need to indicate some limit for this delegation and hence the proposal may be reworked out by Chairman, NBA in consultation with JS (AKG). The members also advocated enhancing the budget of NBA substantially. Dr S Subramainam expressed the scope of enhancing the budget provision by including provision for infrastructural development.

Action: Secretary

Agenda 13. 5: Guidelines on National Biodiversity Fund (Section 26 (2))

The agenda on the constitution of an Expert Committee in principle, for framing the guidelines for application of National Biodiversity Fund with Terms of Reference as per the provisions of Biodiversity Act and Rules was approved after detailed discussions. The Members authorised the Chairman NBA to constitute/restructure the Expert Committee.

Further, it was decided to recommend to the Government for its contribution towards National Biodiversity Fund and that a letter written to MoEF by the NBA.

Action: Secretary

Agenda 13. 6: Protection of Traditional Knowledge (Section 36(5))

It was informed that various groups are working on this subject. It was agreed that the National level Consultation Meeting on Traditional Knowledge could be organised by NBA with the help of Prof. Anil Gupta through National Innovation Foundation.

Chairman NBA requested the Members to participate and represent the NBA in relevant regional events on behalf of the NBA. The NBA will bear the expenditure of such visits undertaken by the sponsored member (s). The modalities in this regard may be communicated by NBA along with the request for participation. The experience of the members shall be shared in the subsequent authority meeting.

Action: Secretary

Agenda 13. 7: Meeting held at NBA with Director UNESCO

Prof. Anil Gupta, Member, NBA opined that such agenda should not be placed in the authority meeting. Chairman himself may approve in the future.

Action: Secretary

Agenda 13. 8: Tour Report by Dr. S. Subramaniam Member NBA on Gulf of Mannar Biosphere Reserve

Members noted the report of the Honourable Member and found useful. They also advised to pursue further action on his recommendations.

Action: Secretary

Agenda 13. 9: Inclusion of a representative from the Department of Animal Husbandry, Dairying and Fisheries as a Member in the Expert Committee to evaluate the access, patent, transfer of research results and material transfer applications.

Members approved the inclusion of Members proposed from the Animal Husbandry, and Dairying and Fisheries department for the above Committee. The Chairman NBA was authorised to include any other member depending upon the expertise needed for the different EC meetings.

Action: Secretary

Agenda 13. 10: Termination of agreements by Novozymes

While the authority approved the termination of agreements, it was agreed that the company may be asked to return/destroy the samples.

Action: Secretary

Agenda 13. 11: Printing of Biological Diversity Act, 2002 and Biological Diversity Rule, 2004 in Gujarati.

The authority approved the printing of Biological Diversity Act, 2002 and Biological Rules, 2004 in Gujarati.

Action: Secretary

Agenda 13. 12: Facilitating approvals for taxonomic research

The matter was deliberated at great length. The Scientist concerned was also given opportunity to enlighten the authority. Considering the importance of identification of new taxa/species by our scientists, the proposal of IMTECH/CSIR was approved. Dr Naresh Kumar suggested that the provisions may be applicable to all organizations undertaking similar research work. It was also decided that the concerned scientist/organization/Institution should clearly indicate in the MOU that in case the material deposited in the designated Repositories is accessed for commercial purposes, the same will be subject to benefit sharing arrangements as per the Biological Diversity Act. It was also suggested that the effort should be made by the ICAR to get international recognition for NBAIM, Mau, (UP) as International Repository. Dr Ghosh suggested that CSIR may also be requested to get the collection at Pune recognized and to this effect he presented the following account:

National Collection of Industrial Microorganisms (NCIM) is a national facility dedicated to isolation, preservation and distribution of authentic cultures. Established in 1951, it is a part of the divisions of Biochemical Sciences in the NCL. Starting with just 400 cultures, the NCIM holds 3700 cultures today. At the suggestions of Dr.S.S.Bhatnagar, Director, Council of Scientific and Industrial Research India, "The National Collection of Type Cultures" (NCTC) was started in 1941 at the Indian Institute of Science, Bangalore, under the direction of Prof. M.Sreenivasaya. In 195, the culture collection was transferred to the then Biochemistry Division of the National Chemical Laboratory, Pune under the direction of Dr.M.Damodaran. In 1956, it was decided that the culture collection will maintain only organisms of value to research and industry and hence the name was changed from NCTC to National Collection of Industrial Microorganisms (NCIM). NCIM was designated as a Resource Centre of NCL in 2002. NCIM consists of around 3700 strains of algae, bacteria, fungi and yeast. Only nonpathogenic cultures are maintained in the collection. NCIM is one of the largest culture collections in India and is a member of World Federation for Culture Collections (WFCC). Also the Government of India may take up the issue of necessary amendment to the existing clause making it compulsory to deposit the collection in two different countries, to enable the scientist to publish his/her paper.

The matter can be taken up during the next meeting of the contracting parties of the “BUDAPEST TREATY ON THE INTERNATIONAL RECOGNITION OF THE DEPOSIT OF MICROORGANISMS FOR THE PURPOSES OF PATENT PROCEDURE” done at Budapest on April 28,1977, and amended on September 26, 1980.

Dr Anil Gupta emphasized that India should take lead in establishing state of art laboratory facilities/ repository for microbial diversity in SAARC region in Bhutan which will satisfy the requirement of depositing one sample of taxa, for publication work of taxonomic research in the Designated National Repositories in other countries.

It was agreed that a committee under the chairmanship of Director, NBPGR, with Directors of BSI and ZSI and Dr.A.K.Ghosh as members may discuss the matter in a meeting before March 2009 and come out with recommendations.

A notification to that effect shall be put up by the NBA/MOEF. Till a view is taken on the matter, it was agreed that all such proposals relating to taxonomic research may be considered on case by case basis as was done for IMTECH's proposal in this meeting.

Action: Secretary

Agenda 13. 13: Publication of booklet (Bulletin) on the Biodiversity of *Morus* species.

The approval was accorded for the publication of booklet on the Biodiversity of *Morus* species. It was agreed that the NBA may consider mechanism for approving proposals for publication. The members reiterated the earlier decision that such small matters be decided at the level of Chairman, NBA.

Action: Secretary

Agenda 13. 14: Minutes of the Meeting of the Expert Committee on Evaluation of applications on Access to bioresources, Transfer of Research Results, IPR and Third party Transfer

It was approved that the minutes of the Expert Committee on Evaluation of Application on Access to bioresources, Transfer of Research Results, IPR and Third-party transfer of bioresources held on 11.11.2008 at the Conference Hall of National Biodiversity Authority.

Action: Secretary

Agenda 13. 15: Revised Annual Accounts 2007-08

It was informed that the revised annual accounts for the financial year 2007-2008 were circulated to all members through email as well as by fax and speed post. The members of the authority approved the same and the approved annual accounts were placed before audit and the CAG Audit department audited the accounts and the report was sent to CAG New Delhi. The final audit certificate is awaited for submission to the Parliament.

Considering the above and the submission made to the Parliamentary Committee, during their visit on 20-21st January 2009 to Chennai, for delay in submission of Annual Report of NBA to the Parliament, it was decided to expedite the completion of the Annual Report and timely laying in the Parliament. For timely submission of Annual Report by NBA the Chairman NBA is authorized to approve the “Annual accounts comprising of receipts and payment account, income and

expenditure accounts and balance sheet” for conduct of audit. The action taken will be intimated for ratification of the decision by the authority in the subsequent meeting (s).

Action: Secretary

Agenda 13. 16: Implementation of Sixth Pay commission to officers and staff of NBA

It was unanimously ratified by the Members, for the implementation of Sixth Pay Commission to Officers and staff of NBA.

Action: Secretary

Agenda 13. 17: Minutes of the Meeting of the Expert Committee to Determine the Benefit sharing

The recommendations of the Expert Committee to determine the Benefit Sharing held on 25.11.2008 at the Conference Hall of NBA was approved.

Action: Secretary

Agenda 13.18: Compensation for Loss of Biodiversity by Dr A. K. Ghosh, Member, NBA

The agenda was introduced by the honourable member and during discussion it appeared that the matter needs to be taken up with CAMPA. Dr.Ghosh opined that since it was not clear as to which Department/Ministry/Authority will take up the issue of “Payment of compensation for loss of Biodiversity due to land use change in the Forest, Agricultural land or Wetland area”, the Ministry of Environment and Forests will be the right organization to take this up on the basis of his agenda notes. The honorable member Dr S. Subramaniam also highlighted for suitable compensation for mine affected biodiversity rich areas and emphasized that the issue may be taken up with the concerned governments. While respecting the feeling of the Members, Shri A K Goyal informed that the CAMPA was established under the H’ble Supreme Court’s decision and there is no scope for any deviation from the directives of the honourable court.

Action: Secretary

Agenda 13.19: Submission of Annual Plan for the year 2009-2010

It was informed that Annual Plan for the year 2009-2010 was sent to the Administrative Ministry.

Agenda 13.20: Requirement of additional scientific staff for NBA

The Members were apprised of the sanctioned strength of NBA. It was agreed that the staff sanctioned for the Authority are on the lower side and inadequate to cope up with the increasing workload. Hence it was recommended that the NBA need to be adequately strengthened by providing need based human resource in scientific, technical, legal, administrative and financial areas as under:

- (i) Immediately a) the need based scientific, technical and supporting staff be engaged by using the services of consultants and others on loan/tenure basis as per the arrangements and conditions adopted by other Departments/Organizations such as CSIR, DBT etc and b) NBA need to develop specific projects/schemes where RA/RF etc may be engaged co-terminus with project at par with CSIR, DBT. ICAR etc.

- (ii) The NBA should prepare the detailed proposal with justification for regular positions for Head Quarters and Regional offices of NBA.
- (iii) Presently, the sanctioned positions of NBA are not in tune with the approved norms of Ministry of Finance. Without any promotional avenue through Flexible Complimentary Scheme or otherwise, it was felt that it will have adverse affect on the continuity of trained persons in the field and the overall growth of the NBA. Hence, it was agreed that the NBA may prepare its HR policy to address the concerns relating to career advancement of its scientific and other staff and forward proposals for consideration of the MOEF.

Action: Secretary

Agenda 13. 21: Confidential Report Form to be adopted staff for National Biodiversity Authority

The Members approved the proposed Confidential Report forms to be used for the staff of NBA in accordance with the practices being followed by similar institutions.

Action: Secretary

Agenda 13.22: Amendment to Biological Diversity Rules, 2004 and National Biodiversity Authority (Salary, Allowances and Conditions of service of Chairperson and other Members) Rules, 2003

The authority approved the amendment to Biological Diversity Rules, 2004 regarding salary of Chairperson.

Action: Secretary

Agenda 13. 23: Revision of Remuneration for Expert Consultants

The matter was discussed at length and it was observed that there is poor response of persons to work as Expert Consultants with NBA as the remuneration is not attractive. It was brought to the notice of the Chair that CSIR / DBTetc., have revised the honorarium and it may be worth while to take advantage of such packages to attract highly competent and committed scientists/experts. Hence, the authority authorized the Chairman, NBA to decide on the emoluments/remuneration for Expert Consultants.

Action: Secretary

Agenda 13. 24: Publication of Pocket Guide on Access to Genetic Resources, Benefit Sharing and Bioprospecting in English, Hindi and other languages

The authority approved the publication of pocket guide on Access to Genetic Resources, Benefit Sharing and Bioprospecting in English, Hindi and other languages.

Action: Secretary

Agenda 13. 25: Amendment in Gazette Notification on Enforcement of Biological Diversity Act

Shri A.K. Goyal, Jt. Secretary informed that the recent amendment notifying Forest officers not below the rank of Range Officers in their respective jurisdictions are authorised to file

complaints under Section 61 (a) of the Biological Diversity Act, 2002 has been made. Further, he informed that the Customs Department has not agreed to the Gazette Notification on Enforcement of Biological Diversity Act.

Action: Secretary

Agenda 13. 26: Preparation of Rules for management and conservation of all the Heritage sites (Section 37.2 of the Biological Diversity Act)

The authority approved the constitution of an Expert Committee to prepare the rules for management and conservation of all the Heritage Sites and authorized the Chairman NBA to constitute the same.

Action: Secretary

Agenda 13. 27: Date for the 14th Authority Meeting

The authority decided to hold the 14th Authority meeting during first week of May, 2009.

Action: Secretary

Agenda 13. 28: Any other item with the permission of the Chairman

13. 28. 1 - ADDL. AGENDA: 10th meeting of Expert Committee for evaluation of applications for Access, Seeking Patent, Transfer of Research Results and Third Party Transfer of bioresources held on 23rd January, 2009 at NBA office, Chennai.

The Authority approved the recommendations of the expert committee meeting held on 23-01-2009 at the Conference Hall of National Biodiversity Authority.

Action: Secretary

13. 28. 2 - ADDL. AGENDA: Minutes of the Fifth Expert Committee for Determination of Benefit Sharing

The Authority approved the recommendations of the expert committee meeting held on 24-01-2009 at the Conference Hall of National Biodiversity Authority.

Action: Secretary

13.28.3 - ADDL. AGENDA: Termination of application submitted in Form I

The Authority approved the termination of application of Prof. Dr. Stefanie Engel, Dept. of Environmental Sciences, Switzerland on 18-10-2007 for the approval "To identify plants preferred by livestock and that have a high nutritional Value".

Action: Secretary

13.28. 4 - ADDL. AGENDA : Infrastructure development for NBA:

Dr S. Subramaniam, emphasized the urgent need of taking initiatives on the infrastructure development such as acquiring land for the NBA office complex through State Government of Tamil Nadu, starting construction of building, regional setups etc. Necessary funding provision may be included in the budget of NBA in the financial year 2009-2010.

Action: Secretary

13.28. 5 - ADDL. AGENDA : IPR agreements of CSIR:

Based on the letter vide no.NBA/Tech Appl/9/109/07/08-09/333 dt.23.01.09 sent by NBA in connection with signing of agreements for 205 applications submitted for seeking IPR to Director General, Council of Scientific and Industrial Research and to the Head, Intellectual Property Management Division. Dr. R. K. Gupta and Dr Naresh Kumar (Member Representative of DG CSIR) attended the Authority meeting and participated in the discussion. Considering that CSIR is a public organization and in order to encourage innovations by the scientists who are also engaged in generating public goods and services, it was decided that in the instant cases the agreements with CSIR may be approved with 2 % of royalty on benefit sharing. The action on this matter may be expedited on priority as otherwise it will tantamount to violation of the provisions of the Biological Diversity Act and Rules.

The meeting ended with the Vote of thanks by the Chair.

Annexure 1: Participation in the 13th meeting of the Authority

OFFICIAL MEMBERS

Dr P.L. Gautam, Chairman, National Biodiversity Authority, Chennai.

Shri M. B. Lal, Addl. Director General of Forests (Wildlife), MOEF, CGO Complex, Lodhi Road, New Delhi

Shri A. K. Goyal, JS, MoEF, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi 110003

Shri B. S. Sajwan, CEO, NMPB, Dept of AYUSH, Chandralok Building, 36 Janpath, New Delhi

Shri P. Madeswaran, Director, Ministry of Earth Sciences, Block -12, CGO Complex, New Delhi – 110003.

Dr. Renu Swarup, Advisor, DBT, CGO Complex, Block No. 2, Lodhi Road, New Delhi 110003

Dr. S. K. Sharma, Director, NBPGR, ICAR, Pusa, New Delhi- 110 012

Dr. Naresh Kumar, Head, Dept. of Sci. and Indus. Res., R& D Planning Div., CSIR, Rafi Marg, New Delhi

NON-OFFICIAL MEMBERS

Dr A. K. Ghosh, Director, Centre for Environment and Development, 329, Jodhpur Park, Kolkata -700 068.

Dr. S. Subramaniam, 54 VGP – Golden Sea View, Part II, 2nd Main Road, 5 Cross Street, Chennai – 600041.

Prof. K. Kathiresan, CAS in Marine Biology, Annamalai University, Parangipettai – 608502.

Prof. Anil Gupta, Indian Institute of Management, Ahmedabad 380 015.

LEAVE OF ABSENCE GRANTED TO OFFICIAL MEMBERS

Dr. B. Harigopal, Adviser, DST, Technology Bhavan, New Mehrauli Road, New Delhi – 110016.

Shri Pankaj Kumar, JS (PP), Dept. of Agri. and Coop, Krishi Bhavan, Dr. Rajendra Prasad Road, New Delhi

Shri A. K. Srivastava, Director, Ministry of Tribal Affairs, Shastri Bhavan, New Delhi-110001.

LEAVE OF ABSENCE GRANTED TO NON OFFICIAL MEMBERS

Prof. Raghavendra Gadagkar, CES, Indian Institute of Science, Bangalore 560 012.

SPECIAL INVITEES PRESENT

Dr Sujata Arora, Additional Director, MoEF, Paryavaran Bhavan, Lodi Road, New Delhi.

Dr. Chandan Singh, Research Officer, MoEF, Paryavaran Bhavan, Lodi Road, New Delhi.

(INVITED TO PARTICIPATE IN DISCUSSION ON AGENDA 13.12 – “FACILITATING APPROVALS FOR TAXOMIC RESEARCH)

Dr S. Y. Mahesh, Scientist, NBAIM, ICAR, P.O. B 6, Kusmaur, Mau Nath Bhanjan, UP 275 101.

Dr T. Chakrabarti and Dr R.K. Jain, IMTECH, Sector 39a, Chandigarh

Dr. R.K. Gupta, Head, IPMD, CSIR, 14 Satsay vihar Marg, New Delhi 67

SECRETARY, NBA

Dr K Venkataraman, Secretary, NBA, Chennai