



Annual Report 2009-2010



Launching of India-UNDP Project



14th Meeting of Authority



Preparation of People's Biodiversity Register



Fourth National Meet of SBBs



National Biodiversity Authority

Conservation | Sustainable utilization | Equitable benefit sharing



ANNUAL REPORT 2009–10



National Biodiversity Authority

Government of India
TICEL Bio Park
5th Floor, Taramani ,
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Dr. P.L. Gautam

Chairman,
National Biodiversity Authority
Chennai



Foreword

Biodiversity is the comprehensive web of life on the planet Earth. It manifests itself at species, genetic and ecosystem levels. Biodiversity is vital to sustaining the living networks and systems that provide us all with health, wealth, food, fuel and the vital services our lives depend on.

Humans are an integral part of nature's rich diversity and are on top of the pyramid of evolution. Intense human activity is by far the prime reason for the loss of biological diversity at an alarming rate. These losses are irreversible and leave us all impoverished. Conserving biodiversity is basic to our survival and well-being. It is our prime concern and bounden duty to protect this natural endowment to be passed on to our children and grandchildren.

India has a hoary past with great reverence to nature. The spirit of conservation and sustainable use of natural resources is deeply etched in our culture. India, therefore, is earnest in its commitment to preserving biodiversity. Because of its firm conviction that protecting our biodiversity is a critical national priority as it is linked to local livelihoods of millions of people in the country, India has launched pioneering initiatives towards conservation of biodiversity. Sustainable use of our biodiversity, therefore, has both ecological and economic value.

The Biological Diversity Act, 2002 is implemented engaging decentralized regulation of activities through Biodiversity Management Committees (BMCs), State Biodiversity Boards (SBBs) and the National Biodiversity Authority (NBA), each with well-defined functions within their respective jurisdiction. Accordingly, it is being operated at national, state and local levels, as a three-tier system.

I express my appreciation to the committed efforts and valuable guidance offered by the Members of the Authority for the execution of the various functions, activities and programmes of the NBA, SBBs and BMCs. I compliment the staff of the NBA for their efforts to bring this Annual Report 2009-10.

I fondly hope that the publication will offer a glimpse of the various activities carried out in the year 2009-10. I greatly appreciate valuable comments for further improvement of the report.


P.L. Gautam

C. Achalender Reddy, IFS

Secretary,
National Biodiversity Authority
Chennai

Acknowledgement

I deem it a great privilege to place on record the invaluable encouragement and guidance of the Ministry of Environment and Forests in finalizing the Annual Report 2009-10. I also gratefully acknowledge the Members of the Authority for their inputs to this Annual Report.

I sincerely thank the State Biodiversity Boards and Biodiversity Management Committees for their active support and significant contributions to the Annual Report.

I express my appreciation to the Office of the Principal Director of Audit (Scientific Audit) for furnishing the Audit Certificate well on time.

I wish to convey my sincere thanks to the Officers and Staff of National Biodiversity Authority for their unstinted support and cooperation in preparing this Annual Report.

I express my warmest regards and gratitude to our Chairman, Dr. P.L. Gautam for his valuable advice and unflinching support in the preparation and submission of the Annual Report 2009-10.



C. Achalender Reddy



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1

Executive Summary

The National Biodiversity Authority (NBA) was set up in 2003 at Chennai by the Government of India to implement the different provisions of the Biological Diversity Act 2002 (BD Act) and Biological Diversity Rules, 2004.

The BD Act provides a legal mechanism for establishing sovereign rights over the Indian biodiversity and its conservation, protection against misappropriation, regulation of access and sustainable use of biodiversity and associated knowledge.

The BD Act, 2002 is implemented engaging decentralized regulation of activities through Biodiversity Management Committees (BMCs), State Biodiversity Boards (SBBs) and the NBA, each with well-defined functions within their respective jurisdiction. Accordingly, it is being operated at national, state and local levels, as a three-tier system.

A significant progress has been made in implementing the Act and it is believed that with the support, cooperation and partnership of different stakeholders, the implementation process will reach new heights. It will provide an exemplary mechanism for meeting the various provisions of the Act. However, it is to be understood that it is an umbrella Act covering the kaleidoscopic biodiversity of the country, interfacing with many other related Acts/instruments and above all involving diverse stakeholders representing public, private and NGO sectors.

This report presents the progress of the NBA for the year 2009-10. During this year, three

meetings of the authority were held and the important decisions taken are recorded in the report. The NBA constituted five expert committees-viz- Expert Committee on "Access and Benefit Sharing" for processing the applications received by NBA; Expert Committee to prepare guidelines for selection and management of Biodiversity Heritage Sites(BHS); Task Force (Expert Committee) for preparation of guidelines on creating structures, running administration and maintaining of accounts and other related matters pertaining to Biodiversity Management Committees; Expert Committee for the preparation of Training Module for Officers staff and various stakeholders on legal, social, technical aspects of implementation of various provisions of Biological Diversity Act, 2002; and Expert Committee for Implementing the Project for Establishing "Indian Biodiversity Information System" (IBIS). It also reconstituted the Expert Committee on Agro biodiversity.

During this period, 142 applications were received for access of bioresources for research/commercial use, transfer of research results, intellectual property rights and third party transfer. Totally, 13 agreements have been signed. So far, 11 patents have been granted on the applications cleared by NBA. The NBA has also received a royalty amount of ₹ 37.89 lakhs from the applicants who have exported bioresources.

A special project titled "Strengthening Institutional Structures to Implement the Biological

Diversity Act" was launched during the year. This India-UNDP project is in operation in the States of Madhya Pradesh and Jharkhand. Districts of Hoshangabad, Rewa and Balaghat in Madhya Pradesh and Hazaribagh and Latehar in Jharkhand have been identified for the implementation of the project. All the major activities of the project are presented in this report.

NBA shifted its office from Neelankarai to a new premises at the TICEL Biopark in Taramani on August 19, 2009. Shri Jairam Ramesh, Hon'ble Minister of State (I/C), Environment and Forests, GoI inaugurated the new office premises. A liaison office of NBA has been established in the National Seed Corporation campus, Pusa, New Delhi and started functioning since April 2009.

The year 2010 is observed as the International Year of Biodiversity. The slogan for the celebrations of the International year of Biodiversity is: "Biodiversity is life. Biodiversity is our life". The International Year of Biodiversity (IYB) is a year-long celebration of biological diversity and its value for life on earth, taking place around the world in 2010. Coinciding with the date of 2010 Biodiversity Target mentioned in the strategic plan, the year 2010 was declared as IYB by the 61st session of the United Nations General Assembly in 2006. The International Year of Biodiversity will help raise awareness of the importance of biodiversity all over the world. Saving biodiversity requires an effort from everyone. Through activities and events in many countries, the global community will work together

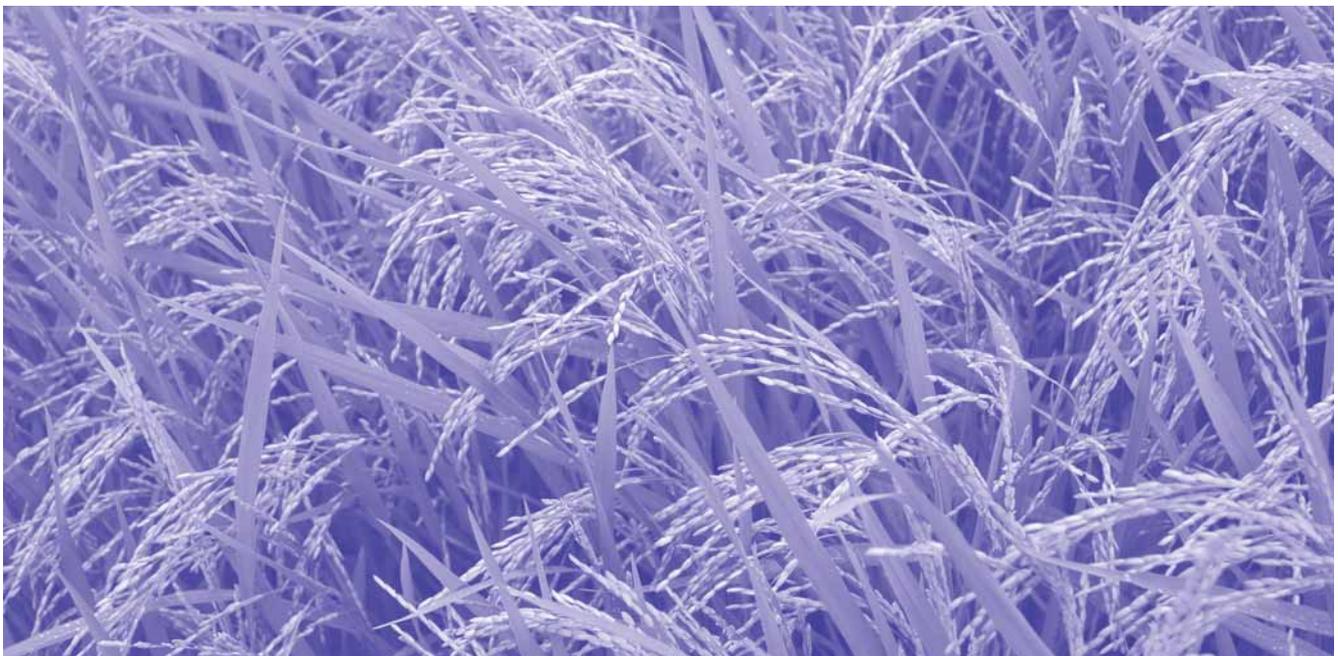
to ensure a sustainable future. The IYB celebrations till March 31 is recorded in this Annual Report.

The Annual Accounts of 2009-10 and Annual Plan of 2010-11 are also dealt with in the report.

The SBBs have organised workshops/ exhibitions/conferences/trainings/ awareness programmes, celebration of biodiversity day etc. The SBBs in collaboration with other agencies have been pursuing /supporting the identification of BHSs, preparation of PBRs, constitution of BMCs, *in-situ* and *ex-situ* conservation including the protection of the threatened species etc. So far, 24 State Biodiversity Boards, 31,542 Biodiversity Management Committees have been constituted in different states and 370 PBRs have been prepared by the respective SBBs /BMCs. The fourth national-level meeting of all Member Secretaries of State Biodiversity Boards was held in Kolkata on 10-11 September 2009.

NBA has participated and also organized various conferences, workshops, conservation *mela*, symposium, national seminars, policy dialogues and national consultations for the policy makers, scientists, public and college and school students. NBA has also collaborated with relevant international organisations like UNDP, GBIF, UNEP/GEF etc. for organizing consultative meetings and workshops.

Four publications, two fliers, a short english film entitled "Deadly Neighbours" on Invasive Alien Species, and a table and wall calendar on biodiversity were brought out by NBA during 2009-10.





2

Introduction

India is known for its rich heritage of biodiversity. It is one of the recognized megadiverse countries of the world. With an area of about 329 mha, India is seventh largest country in the world. The varied edaphic, climatic and topographic conditions have resulted in a wide range of ecosystems and habitats such as forests, grasslands, wetlands, coastal and marine ecosystems, and deserts which in turn have contributed to immense biological diversity with large variation in species of plants, animals and microbes. Conserving biodiversity is basic to our survival and well-being and using it sustainably, forms part of the Indian culture and lifestyle. Biodiversity and ecosystem services provided by it contribute to poverty eradication and national development.

India, a mega diversity country with only 2.4% of the land area and 4% of fresh water, accounts for 7-8% of the recorded species of the world. So far, 45,968 species of plants and 91,364 species of animals have been documented. At the global level, 2, 78, 900 species of microorganisms have been described so far, out of the estimated 3.75 million extant species.

The Earth's biological resources are vital to humanity's economic and social development. As a result, there is a growing recognition that biological diversity is a global asset of tremendous value to present and future generations. At the same time, the threat to species and ecosystems has never been as great as it is today. Species extinction caused by

human activities continues at an alarming rate. In response, the U.N. Convention on Biological Diversity (CBD) was adopted during the Earth Summit on June 5, 1992. It is the most comprehensive international agreement covering different aspects of biodiversity.

The objectives of CBD are the conservation of biological diversity, the sustainable use of its components and the fair and equitable sharing of the benefits arising out of the utilization of genetic resources, including appropriate access to genetic resources and by appropriate transfer of relevant technologies, taking into account all rights over those resources and to technologies, and by appropriate funding. India is committed to contributing towards achieving the objectives of the CBD. Globally, 193 countries are parties to the provisions of CBD. India as a party to this convention, has implemented this by enacting Biological Diversity Act in 2002 and Biological Diversity Rules in 2004.

India has participated in all major international events on environmental issues, since the Stockholm Conference on Human Environment and Development in 1972. The country has contributed to and ratified several key multilateral agreements on environmental issues, including the Convention on Biological Diversity (CBD). Pursuant to the CBD, following a widespread consultative process, a National Policy and Macro level Action Strategy on Biodiversity was developed in 1999, to consolidate and augment the existing strategies and programmes

relating to biodiversity. India has enacted the Biological Diversity Act, 2002, which was developed through an extensive and intensive consultation process initiated in 1994. India is one of the few countries to have enacted such a legislation. This Act primarily aims at giving effect to the provisions of the Convention on Biological Diversity (CBD), including regulating access to biological resources and associated traditional knowledge so as to ensure equitable sharing of benefits arising out of their use.

Taking cognizance of the provisions of the CBD, and to deal with extensive pressure on the biological resources, the Government of India has enacted Biological Diversity Act, 2002 and Biological Diversity Rules, 2004. Accordingly, national, state and local level mechanisms have been provided for implementation of the Act. At the national level, National Biodiversity Authority (NBA) has been established by Government of India in October, 2003 at Chennai (Tamil Nadu) under Section 8 of the Act. The State Biodiversity Boards (SBBs) are established by the State Governments while the Biodiversity Management Committees (BMC) are constituted by the Local Bodies. The Government of India has developed a National Biodiversity Action Plan in 2008.

The functions of NBA are as follows:

- ▶ Advise the Government of India on matters relating to conservation of biodiversity, sustainable use of its components and equitable sharing of benefits arising out of utilization of biological resources.
- ▶ Regulate activities and issue guidelines for access to biological resources and for fair and equitable benefit sharing in accordance with the sections 3, 4 and 6 of the Biological Diversity Act, 2002. Certain individuals/ nationals/organizations require prior approval of NBA for obtaining biological resources and/or associated knowledge for use.
- ▶ Take necessary measures to oppose the grant of intellectual property rights in any country outside India on any biological resource obtained from India or knowledge associated with such biological resource derived from India.
- ▶ Advise the State Governments in the selection of areas of biodiversity importance to be notified

as heritage sites and suggest measures for their management.

- ▶ NBA and SBB provide guidance and technical support to Biodiversity Management Committees (BMC) for preparing People's Biodiversity Registers (PBR).
- ▶ Perform such other functions as may be necessary to carry out the provisions of this Act.

The SBBs are established by the State Governments by official gazette notification in accordance with Section 22 of the Act. For the seven union territories, NBA or authorised body exercises the powers and functions of SBB.

The SBBs are established by the State Governments with a Chairperson, five ex-officio members representing the concerned departments and five members appointed from experts in matters relating to conservation of biological diversity, sustainable use of biological resources and equitable sharing of benefits arising out of the use of biological resources.

The functions of SBB are as follows:

- ▶ Advise the State Governments, subject to guidelines issued by the Central Government, on matters relating to conservation of biodiversity, sustainable use of its components and equitable sharing of benefits arising out of utilization of biological resources.
- ▶ Regulate by granting approvals or otherwise request for commercial utilization or bio-survey and bio-utilization of any biological resource by Indians;
- ▶ Perform such other functions as necessary to carry out the provisions of this Act or as prescribed by the State Governments.

Local bodies constitute the BMC in accordance with Section 41, within their area of jurisdiction for the purpose of promoting conservation, sustainable use and documentation of biological diversity including preservation of habitats, conservation of landraces, folk varieties and cultivars, domesticated stocks and breeds of animals, microorganisms and chronicling of knowledge relating to biological diversity. BMC is constituted in accordance with Biological Diversity Rule (22.1) of the Act. It consists of a chairperson and six persons nominated by the

local body, of whom one third are women and 18% are scheduled castes/scheduled tribes.

The functions of BMCs are as follows:

- ▶ Prepare, maintain and validate People's Biodiversity Register (PBR) in consultation with the local people. The BMC is to maintain a Register giving information about the details of access to biological resources and traditional knowledge granted, details of the collection fee imposed and details of the benefits derived and the mode of their sharing.
- ▶ Advise on any matter referred to it by the State Biodiversity Board or Authority for granting approval, to maintain data about the local vaids and practitioners using the biological resources.

National, State and Local level biodiversity funds, for channeling benefits to benefit claimers, conservation and promotion of biological resources or knowledge associated and socioeconomic development of these areas, are respectively established under Sections 27, 32 and 43 of the Act.

The important roles of central and state governments are as follows:

- ▶ Establish National Biodiversity Authority, State Biodiversity Board and Biodiversity Management Committee.
- ▶ Develop national strategies, plans, programmes for the conservation and promotion and sustainable use of biological diversity.
- ▶ Issue directives to the concerned State Governments to take immediate ameliorative measures for protection of biodiversity rich habitats, threatened by overuse, abuse or neglect.
- ▶ Integration of the conservation, promotion and sustainable use of biological diversity into relevant sectoral or cross sectoral plans, programmes and policies. Endeavour to respect and protect the knowledge of local people relating to biological diversity, as recommended by the NBA.
- ▶ Assess the impact of projects on environment and biodiversity, and regulate, manage or control the risks or adverse impact of use and release of living modified organisms on conservation; and sustainable use of biological diversity and human health.

- ▶ The Central Government may, in consultation with NBA: a) notify threatened species and prohibit or regulate their collection, rehabilitation and conservation, b) designate institutions as repositories for different categories of biological resources and c) exempt certain biological resources normally traded as commodities.
- ▶ State Governments in consultation with the local bodies, notify biodiversity heritage sites, frame rules for management and conservation of all the heritage sites (in consultation with Central Government) and launch schemes for compensation /rehabilitation of affected people.

Shifting to TICEL Biopark

NBA shifted its office from Neelankarai to a new premises at the TICEL Biopark in Taramani on August 19, 2009 which was inaugurated by Shri Jairam Ramesh, Hon'ble Minister of State (I/C), E&F. Prof. M. S. Swaminathan, Chairman, MSSRF, Chennai, Shri Sundararaju, I.F.S., Principal Chief Conservator of Forest and Chief Wildlife Warden, Tamil Nadu Forest Department, Shri A.K. Goyal, I.F.S., Joint Secretary, MoEF, New Delhi, Dr.S. Subramanian, Member, NBA, Shri C. Achalender Reddy, I.F.S., Secretary, NBA and other dignitaries were present and graced the occasion.



Liaison Office in Delhi

As the NBA has to liaise with different departments/ministries/organizations etc., located in Delhi, the need for establishing Liaison office of NBA has been highlighted in different meetings of the Authority. The NSC offered the space for office and IARI has offered two Type-I quarters for guest room/staff. Accordingly, the liaison office has been established in the National Seed Corporation (a Govt. of India undertaking) campus, Pusa since April, 2009.

Foundation Day 2009

A simple function was held to celebrate the seventh Foundation Day of NBA on October 1, 2009 at its new premises in TICEL Bio Park. Prof. T.N. Ananthkrishnan, former Director of Zoological Survey of India, who was the chief, delivered the Foundation Day lecture. Shri C. A. Reddy, Secretary of NBA, welcomed the gathering. Dr. P.L. Gautam, Chairman, NBA, gave a talk on biodiversity of India and related



issues and felicitated the chief guest. Shri C. Achalender Reddy gave a welcome address and Dr.K.Venkatarman, Sr. Consultant, gave a presentation on reminiscences of NBA. Hon'ble Justice P.Bhaskaran, Retired Judge, Chairman, Loss of Ecology (P&PC) Authority, Shri T.S.Srinivasamurthy, I.F.S., Director, Department of Environment, Govt. of Tamil Nadu, Dr.A.G. Ponnai, Director, CIBA, Dr. Kasim, Scientist-incharge, CMFRI, Dr.G.Thirumalai, Officer-in-charge, SRS, ZSI Dr. Remadevi, Officer-In-charge, MBS, ZSI, and other officials of various scientific departments/institutions attended the programme. Smt. S. Padmavathi, Administrative Officer, NBA, proposed a vote of thanks.

Celebration of International Year of Biodiversity 2010

The International Year of Biodiversity (IYB) is a year-long celebration of biological diversity and its value for life on earth, taking place all over the world in 2010. Coinciding with the date of the 2010 biodiversity target, the year was declared as IYB by the 61st session of the United Nations General Assembly in 2006. The International Year of Biodiversity will help raise awareness of the importance of biodiversity all over the world. Saving biodiversity requires an effort from everyone. Through activities and events in many countries, the global community will work together to ensure a sustainable future.

Main Goals

The celebrations of the International Year of Biodiversity are a unique opportunity to raise public awareness about the vital role of biodiversity sustaining life on Earth, supporting ecosystem services and of its importance to human wellbeing and poverty reduction. The main goals of the IYB, 2010 are to:

- Enhance public awareness of the importance of conserving biodiversity and of the underlying threats to biodiversity
- Raise awareness of the accomplishments to save biodiversity that have already been realized by communities and governments
- Promote innovative solutions to reduce the threats to biodiversity
- Encourage individuals, organizations and governments to take immediate steps to halt biodiversity loss, and
- Start dialogue between stakeholders for the steps to be taken in the post-2010 period.

The Ministry of Environment & Forests (MoEF), Government of India has developed a plan of action for celebrating the IYB 2010. Under the guidance of the plan of action of MoEF, an Executive Committee for carrying out the plan of action for celebrating the IYB 2010 has been constituted under the leadership of Chairman, NBA. During this period, two meetings were conducted and various activities have been carried out. The major events are as follows:-

MoEF and NBA organized a plenary session on Biodiversity and sustainable Development on Jan 7, 2010 during the 97th Indian Science Congress at Thiruvananthapuram, Kerala which was hosted by



the University of Kerala and Indian Space Research Organisation. About 2000 participants from Government departments, academic institutions, scientific institutions, and non Governmental organizations took part in it. Dr.P.L. Gautam, Chairman, NBA welcomed the participants and introduced the theme of the session to the participants. In the inaugural session Dr.G.Madhavan Nair, General President, ISCA Guests of Honour, gave his inaugural address and released the Compendium of Biological Diversity Act, Rules and Notifications. Dr.R.S.Paroda, Former Director General ICAR & Secretary DARE, Govt. of India released the promotional materials of the NBA as a part of the celebration of the International Year of Biodiversity. It was informed that the Union Minister of Environment and Forests, Govt. of India has launched the Indian celebration for IYB 2010 by releasing the

biodiversity resource materials in Delhi on 4th January 2010. After inaugural session, the technical session was chaired by Dr.R.S. Paroda and co-chaired by Prof. S.Jana, Emeritus Professor, Canada. In this session 12 papers were presented from various Government organizations, NGOs and academic institutions on various topics relevant to biodiversity and its sustainable development. The event was supported by the UNDP.

The MoEF and NBA are also organizing various events like seminars, exhibition, campaign, conferences, consultations, competitions, institution of rewarding mechanisms for biodiversity conservers, awards and awareness generation among the researchers, students, scientists and general public about the importance of conserving and protecting the biodiversity.





MoEF and NBA in partnership with agencies like UNDP are also extending catalytic support for the celebration of IYBD, 2010. As part of the IYBD, the Gujarat State Biodiversity Board organized awareness workshops and camps from February 23 to March 27, 2010. These efforts were focused on generating awareness on biodiversity conservation, Biodiversity act and formation of BMCs. These were held at Rajpipla (Narmada district), SPIPA, Ahmedabad (Ahmedabad district), Umarpada (Surat district), Vijaynagar (Sabarkantha district), Junagadh (Junagadh district).

The Jharkhand Biodiversity Board organized public awareness workshop on Biodiversity and Conservation in Jalima Village, Hazaribagh, on January 24, 2010. The workshop included several activities including Rakshabandhan (tie of protection) for trees; Quiz competition for students; Displays of banners and statues, as well as a film show; Speeches by local experts and villagers; and Cultural programme with songs and poetry by locals on the theme of biodiversity conservation. Winners of the competitive events were given prizes, sponsored by an NGO.

On February 13, 2010, a campaign for creation of awareness regarding biodiversity and conservation, was launched at Nature Interpretation Centre, Betla, Latehar. During the campaign, special sessions were held with presentations on general biodiversity and

on the biodiversity of the district. People's Biodiversity Register (PBR) and Biodiversity Act were discussed. An open forum with a question answer session was also organized during which queries were raised and suggestions were given by the professors and experts who participated in the session.

An Awareness creation and training on PBR in Hazaribagh district was held at Rajderwa, Hazaribagh on March 20, 2010. Participants in the programme included EDC Members of 4 villages namely- Horia, Donaikala, Lotwa, Kayle and forest officials and villagers. Among the topics discussed were general information on Biodiversity, Biodiversity Act and its importance, Sustainable use, conservation and equitable benefit sharing of biodiversity and PBR.

Awareness creation and training programme on PBR in Latehar district was held on March 26, 2010. The training program was conducted at Forest Nursery, Kechki, Latehar. The participants included EDC Members of Kechki East and Kechki West village and the villagers. The topics for training included general information on Biodiversity, Biodiversity Act and its importance, Sustainable use, conservation and equitable benefit sharing of biodiversity and PBR.

To mark the International Year of Biodiversity, the Madhya Pradesh Biodiversity Board organized a special awareness generation and orientation programme for students and biodiversity conservers on 5 January 2010 (IYB-2010). The programme was conducted in association with Capital Project Administration (CPA). School children, biodiversity conservers, Government officials and staff of CPA actively participated in the programme. A radio programme, "Chalti Rahe Zindagi", was aired on January 10, 2010. A seminar on IYB 2010 was conducted on January 11, and a moving tableau was created depicting Biodiversity of Hoshangabad and the need for its conservation, as participation of the



Republic Day Parade held at the District Stadium, Hoshangabad. The tableau was awarded the first prize.

The Manipur State Biodiversity Board meeting was held on January 25, 2010 as part of IYB 2010 celebrations, and several important proposals including the constitution of more BMCs in the State were discussed. On February 22 and 23, 2010, a buyer - seller Meet was organized in Imphal, by the Manipur Biodiversity Board in collaboration with the Institute of Bio-resources and Sustainable Development (IBSD) to promote medicinal plants-based livelihood opportunities in the State. A large number of representatives of AYUSH manufacturers, growers of medicinal plants and local entrepreneurs attended the meeting. The meeting was also attended by some renowned companies like Pharmexcil, Dabur, Himalayas, Natural Remedies, Century Products, Shree Dhanwantri Herbals, Herbal Research Consortium, Nandan Biomedics, Allen Laboratories Ltd. etc. The meet focussed on the need for primary

processing of medicinal and aromatic plants in Manipur and also stressed on strengthening the capacity-building needs of farmers and entrepreneurs engaged in primary processing. This will help in value addition, and also improve the safety standards and effectiveness of the drugs.

The Mizoram Biodiversity Board launched the International Year of Biodiversity celebrations on January 25, 2010. A programme was held at I&PR auditorium Aizawl, chaired by Dr S.S.Garbyal, PCCF & Secretary, Environment & Forests, Mizoram. The Minister for Environment & Forest, Mizoram and Chairman of the State Biodiversity Board was the Chief Guest. The invitees were environmental NGOs and members of the SBB.

The progress of the implementation of the Biological Diversity Act, 2002 by the National Biodiversity Authority for the year 2009-10 is described in subsequent chapters.







3

Constitution of the Authority

The NBA is headed by a Chairperson, who is an eminent person, having the knowledge and experience in sustainable management of biodiversity and equivalent in rank to the Secretary to Government of India. It consists of ten ex-officio members from related Ministries of Government of India, and five non-official members who are experts in different aspects of biodiversity management.

The Constitution of the Authority as provided in the Biological Diversity Act 2002 since inception of NBA is as under:

Chairperson

Sl. No.	Name	Period	
		From	To
1.	Mr. Vishwanath Anand	01.10.2003	14.07.2004
2.	Dr. S. Kannaiyan	20.05.2005	19.05.2008
3.	Mr. G. K. Prasad*	20.05.2008	30.09.2008
4.	Mr. P. R. Mohanty*	01.10.2008	31.12.2008
5.	Dr. P. L. Gautam	31.12.2008	Till date

*Additional charge

Members

Ex-officio members appointed under section 8 (4)(b):

1. Joint Secretary or an officer of an equivalent rank to the Government of India in the Ministry of Tribal Affairs
2. Additional Director General (Forests), Ministry of Environment and Forests, Govt. of India
3. Joint Secretary to the Government of India dealing with the subject in the Ministry of Environment and Forests

Ex-officio members appointed under section 8 (4)(I):

4. Joint Secretary or an officer of an equivalent rank to the Government of India dealing with the subject in the Agricultural Research and Education, Ministry of Agriculture
5. Joint Secretary or an officer of an equivalent rank to the Government of India dealing with the subject in the Department of Biotechnology

6. Joint Secretary or an officer of an equivalent rank to the Government of India dealing with the subject in the Department of Ocean Development
7. Joint Secretary or an officer of an equivalent rank to the Government of India dealing with the subject in the Department of Agriculture and Cooperation
8. Joint Secretary or an officer of an equivalent rank to the Government of India dealing with the subject in the Department of Indian Systems of Medicine and Homoeopathy
9. Joint Secretary or an officer of an equivalent rank to the Government of India dealing with the subject in the Department of Science and Technology
10. Joint Secretary or an officer of an equivalent rank to the Government of India dealing with the subject in the Department of Scientific and Industrial Research.

Non-official Members (appointed u/s 8(4) (d)):

The term for office of the non-official members of the NBA is for a period of three years with effect from the notification. The list of new members nominated Wef 22.2.2010 was notified vide Gazette Notification S.O.389(E) dated 15th February, 2010. The past and present non-official members are as follows:

Sl. No.	Name	Period	
		From	To
1	Dr. A. K. Ghosh, Director, Centre for Environment and Development, Kolkatta.	22.02.2007	21.02.2010
2	Prof. Raghavendra Gadagkar, Centre for Ecological Science, Indian Institute of Science, Bangalore	22.02.2007	21.02.2010
3	Prof. K. Kathiresan, CAS in Marine Biology, Annamalai University, Tamil Nadu	22.02.2007	21.02.2010
4	Prof. Anil Gupta, Indian Institute of Management, Vastrapur, Ahmedabad	22.02.2007	21.02.2010
5	Dr. S. Subramaniyan, 54, VGP-Golden sea view, Part II, 2nd Main Road, 5th cross street, Palavakkam, Chennai.	22.02.2007 22.02.2010	21.02.2010 21.02.2013
6	Dr. R.S. Rana, Chairman, Bio-Link, D-43, Indraprastha Apartments, Sector-14, Rohini, New Delhi - 100 025	22.02.2010	21.02.2013
7	Dr. Uppaendra Dhar, 11, SBI Apartments, Near Eicher School, Sector - 46, Faridabad-121002, Haryana.	22.02.2010	21.02.2013
8	Dr.K.M. Bujarbaruah, Vice-Chancellor, Assam Agricultural University, Jorhat - 785013.	22.02.2010	21.02.2013
9	Dr. Darshan Shankar, Advisor, FRLHT, Chairman, Institute of Ayurveda and Integrated Medicine (IAIM), 74/2, Jarakabande Kaval, Post Attur, Via Yelahanka, Bengaluru - 560 064.	22.02.2010	21.02.2013

Secretary:

Sl. No.	Name	Period	
		From	To
1	Mr.C. Achalender Reddy	12.03.2009	Till date



4

Meetings of the Authority

During 2009-10, three meetings of the Authority were held and the important decisions taken are given below.

14th Authority meeting

The fourteenth meeting of the Authority was conducted on 21st July, 2009 in New Delhi. Approvals were accorded for (1) eligibility criteria for the post of chairman NBA; (2) model guidelines for selection and management of the Biodiversity Heritage Sites (BHS), (3) logo of NBA, (4) exemption for certain biological resources as normally traded commodities; (4) new process / procedure for disposal of technical applications, (5) model People's Biodiversity Register (PBR) and (6) establishment of expert committee on Indian Biodiversity Information System (IBIS).

The following decisions were taken during the meeting:

- After 13th meeting of Authority, considering the establishment of SBBs in most of the States and BMCs in some of the States, NBA is consulting SBBs and BMCs (through respective SBBs) for access to biological resources. There was a heavy pressure from researchers and private sectors from India and abroad for clearance of their applications. Therefore, it was decided that a month time (30 days) for SBB/BMC may be given to provide consent, and if not received it shall be presumed that SBBs/BMCs have no objection in accessing the bioresources. This decision was taken as time limit is prescribed in the Act for disposal of applications.

- It was decided that expert committee on access, patent, transfer of research results and third party transfer and expert committee on determination of benefit sharing would be merged as one committee.
- It was decided to constitute a Finance Committee consisting of Financial Advisor of MoEF, one representative from NBA and one from the concerned division of MoEF. The sub-committee will recommend to the authority on policy matters involving major financial investments.

Shri Jairam Ramesh, Hon'ble Minister E&F graced the occasion by his presence in the Authority meeting. Shri B. S. Parsheera, Special Secretary, Ministry of Environment and Forests, Government of India also joined during the interaction. Prof. Madhav Gadgil made a presentation on IBIS. The Hon'ble Minister appreciated the initiative of creating IBIS database and directed NBA to constitute an expert committee to guide /advise NBA in starting this project. The remarks of the Minister were as follows:-

- It was decided that the process of constitution of BMC may be simplified and established in a phased manner by making panchayat samities/ joint forest management committees/eco-development committees as BMCs. It was proposed that the BMC's may be initially formed at Samiti level.

- As a pilot project, two states may be adopted, one in the south and another in north to educate people on benefit sharing and collection of fee as mentioned in Act. The panchayat/BMC may charge the fee for accessing the biological resources.
- It was decided to explore the possibility of making CAMPA funds available for management of Biodiversity Heritage Sites that are outside the forest areas.



15th Authority meeting

The fifteenth meeting was held on 29th October 2009 in New Delhi. The matters placed for consideration were : (1) Recommendations of the 12th meeting of Expert Committee on Access and

Benefit Sharing for processing of application, (2) Reviewing of proceedings of the 1st Interface meeting of NBA and DARE/ ICAR and IVth meeting of Member Secretaries of State Biodiversity Boards held in Kolkata on 10-11 September 2009.



16th Authority meeting

The sixteenth Authority meeting was conducted on 19th March 2010 in Chennai. The matters placed for consideration were: (1) declaration of conflict of interest ; (2) enhancement in funding support to NBA; (3) issues raised on Bt Brinjal and notification on normally traded commodities; (4) amendments in the

model Agreements, (5) acceptance of voluntary contributions to National Biodiversity Fund; (6) Tax Deducted at Source from the royalty received by NBA and SBBs; and (7) amendment of provisions under National Biodiversity Authority (Recruitment and Conditions of Service of Officer and other employees) Regulations, 2006.



5

Expert Committees

The following committees were constituted by the Authority as per Section 13 of the Biological Diversity Act.

1. Expert Committee on "Access and Benefit Sharing "for processing the application received by NBA.

All applications seeking access to bioresources and/or associated knowledge for research, bio-survey and bio-utilization (made under Section 3 by the applicants who are not Indian citizens), also all applications seeking transfer of research results for commercial or otherwise, or seeking IPR on invention based on bioresources and/or associated knowledge, or transfer of already accessed bioresources to others, are received by the NBA and processed by the Expert Committee on Access and Benefit Sharing [EC-ABS] for making suitable recommendations for consideration of the Authority.



This expert committee, presently chaired by Dr. R. S. Rana (Member, NBA), is treated as a standing

committee and it is reconstituted periodically by the Authority under Rule 11 as and when required. EC-ABS met on 11, May 2009 and 16-17 September, 2009 and its recommendations were endorsed by the NBA in its 14th and 15th meetings, held in July and October 2009 respectively, and annexed to the proceedings of these meetings.

2. Expert Committee for Implementing the Project for Establishing "Indian Biodiversity Information System" (IBIS).

Rule 12(Xiii) of Biological Diversity Rules provides for National Biodiversity Authority to take steps to build up database and to create information and documentation system for biological resources and associated traditional knowledge through Biodiversity Registers and electronic database to ensure effective management, promotion and sustainable uses. Accordingly, an expert committee was constituted under the leadership of Prof. Madhav Gadgil. The committee met and decided that the existing database of different institutions/organizations/agencies may be linked in the IBIS portal by preparing metadatabase.



3. **Expert Committee to prepare rules for selection and management of Biodiversity Heritage Sites.**

The Biological Diversity Act, 2002 requires the State Biodiversity Boards (SBBs) to frame guidelines/rules to declare and manage the Biodiversity Heritage Sites. Accordingly, an expert committee was constituted and the model guidelines prepared by the expert committee in the meeting held on 19.02.09 were widely circulated and uploaded in the website. The comments received from different experts/agencies/SBBs were subsequently considered by the expert committee and the recommendations are under consideration of the Authority.

4. **Expert Committee on preparing guidelines on ameliorative measures for biodiversity-rich areas threatened by overuse, abuse or neglect**

Section 36(2) of BD Act, 2002 where the Central Government has reason to believe that any area rich in biological diversity, biological resources and their habitats is being threatened by overuse, abuse or neglect, directives shall be issued to the concerned State Government to take immediate ameliorative measures, offering such State Government such technical and other assistance that is possible to be provided or needed. An Expert committee for this purpose was constituted under the leadership of Shri G.K. Prasad, IFS (Retd.) Ex-Addl. Director General of Forest, MoEF. The committee held two meetings and guidelines are being prepared.

5. **Task Force (Expert Committee) for preparation of guidelines on creating structures, running administration and maintaining of accounts and other related matters pertaining to Biodiversity Management Committees**

Since India is a large and diverse country geographically, politically, socially, culturally and economically, it may not be possible to have a uniform approach of establishing and managing BMCs. Therefore, models which are implementable in various states have to be evolved and structured so that the provisions of the Act

and Rules can be implemented effectively within a reasonable span of time. EC has been constituted for the said purpose under the leadership of Smt. Gayatri Ramachandran, IAS (Retd.).

6. **Expert Committee for the preparation of training module for officers, staff and various stakeholders on legal, social, technical aspects of implementation of various provisions of Biological Diversity Act, 2002.**

Rule 12(ix) states that the Authority may plan and organize training of personnel engaged or likely to be engaged in programmes for the conservation of biodiversity and sustainable use of its components. Accordingly, the EC has been constituted under the leadership of Shri T.C. James, Director, National Intellectual Property Organisation, New Delhi.

7. **Reconstitution of the Expert Committee on Agro biodiversity**

Section 13(1) of the BD Act, 2002 states that the NBA may constitute a committee to deal with agro biodiversity, and Section 13(2) of the BD Act, 2002 states that NBA may constitute Expert Committees for the efficient discharge of its duties and performance of its functions under the Act. Accordingly, an expert committee on Agro-biodiversity was constituted in 2005, which was reconstituted in Oct, 2009 with Dr. R.B. Singh as chairperson. The committee met in January, 2010 to discuss the agrobiodiversity related matters.





6 Conservation and Sustainable use of Biodiversity

The efforts made by the Authority relating to different aspects of conservation and sustainable use of biodiversity during the period of report are given below:-

1. Participation of Chairman, Secretary and other officials of NBA in the following events & Support extended by NBA to various organizations to conduct conferences, workshops, training etc.

- Celebration of International Day for Biodiversity held at NBPGR, New Delhi, May 22, 2009 : As a promotional material a film on "Deadly Neighbours - A world of Invasive Alien species" was produced by NBA. At national level, the NBA in collaboration with NBPGR organised a seminar on "Invasive alien species" on May 22, 2009. A souvenir having articles on the management of Invasive Alien Species was also released on this occasion.
- Training programme on harnessing Intellectual Property for strategic competitive and collaborative advantage at IIM Ahmedabad, 17-19 July 2009.
- International Symposium on Environmental Pollution, Ecology and Human Health at Sri Venkateswara University, Tirupati, July 27, 2009.
- Meetings of Task Force on *sui generis* system for protection of traditional knowledge organized by FICCI in New Delhi on July 13, 2009, September 9, 2009 and October 21, 2009
- Fourth National level meeting of Member Secretaries of State Biodiversity Boards, held at Kolkata, September 10-11, 2009



- Inauguration of the exhibition on Environment Protection 2009, Loyola College, October 1, 2009
- Giving away the breed saviour awards during the consultation workshop on developing code of conduct for implementation of FAO organized by Sustainable Agricultural Environmental Volunteer Action (SEVA), Delhi, October 8, 2009.
- Valedictory address in the national workshop on taxonomy of fungi at the centre for Advanced Studies in Botany, University of Madras, Chennai, October 12, 2009
- Seminar on 'The Economics of Ecosystem and Biodiversity' (TEEB) organized by IIFM and others at New Delhi, October 13, 2009.
- Training on implementation of Biological Diversity Act to the officers, faculty and staff of Indira Gandhi National Forest Academy, Dehradun, October 25, 2009
- National Seminar on Designing Crops for the Changing Climate, Birsa Agricultural University, Ranchi, October 30, 2009.
- Meeting of Sub-group for output 3 of AWP 2009-10 on 'Mainstreaming Conservation & Sustainable use of medicinal plant biodiversity for three Indian States' at Paryavaran Bhawan, MoEF, New Delhi, November 25, 2010.
- Meeting of the Steering Committee of the World Heritage Biodiversity Project (WHBP) held by UNESCO at Paryavaran Bhawan, New Delhi, November 29, 2009.
- FLIPPER FEST 09 : marine biodiversity conservation awareness fair, organized by TREE Foundation, Guindy Children's Park, Chennai, November 26, 2009.
- Session on biodiversity during national conference on "Emerging and Merging Areas of Biology" organized by the Presidency College and ISCA, Chennai Chapter, CLRI Complex, Chennai, December 12, 2009.
- Regional Workshop for East, South-East Asia on 'Updating the Strategic Plan of the Convention for the post 2010 period' in Tokyo, Japan, December 15-18, 2009
- Technical session on access and benefit sharing mechanism during PGR National Symposium on Recent Global Developments in the Management of Plant Genetic Resources organized by ISPGR and NBPGR, New Delhi, December 18, 2009
- Awareness generation workshop on conservation strategy for maintaining local breeds of livestock organized by Sree Radha Madhav Sevasram Charitable Trust, Mathura, December 20, 2009
- Seminar on "Agrobiodiversity Hotspots, Farmers' Rights and International Legislations" organized by PPV& FRA, NASC Complex, New Delhi, December 21, 2009.
- "Technical Session" of State level consultation on effective management of agrobiodiversity in an era of climate change organized by MSSRF, Kerala, January 5, 2010.
- Special session on "biodiversity and sustainable development" in the plenary session of 97th Indian Science Congress at Thiruvananthapuram, January 7, 2010



- "Marine Mammal Stranding Workshop" organized by Central Marine Fisheries Research Institute, Kochi, January 21, 2010



- Workshop on Food and Health Security at G.B.Pant University of Agriculture and Technology, Pant Nagar organized by Lokhit Foundation, Dehradun, February 19, 2010
- National consultation on advancing the science of taxonomy in India for biodiversity conservation organized by ATREE, Bangalore, February 23, 2010.
- 2nd Meeting of the PSC for GOI-GEF-UNDP Project on "Mainstreaming conservation and sustainable use of medicinal plant biodiversity for three Indian States" held at FRLHT, Bangalore, March 5, 2010.
- Event on release of satellite tagged turtle into sea off Injambakkam beach, organized by Tree Foundation, Chennai, March 14, 2010.

2. Awareness Generation

The NBA participated and / or supported organization of various conferences, workshops, conservation fairs, symposium, national seminars, policy dialogues and national consultations for the policy makers, scientists, public and college and school students. The Secretary, NBA gave a lecture on "Implementation of Biological Diversity Act 2002" to the Indian Forest Service probationers and State Forest Service trainees on November 22, 2009 and January 15, 2010 respectively.

The Technical Officer, NBA delivered a lecture on biodiversity and its conservation in India to the school children of Eden Garden Baptist school, Perambur, Chennai on March 24, 2010.

He highlighted the importance of biodiversity in the light of International year of biodiversity 2010.

4. Establishment of State Biodiversity Boards

The State Biodiversity Boards (SBBs) have been established in 24 states in India. Ten states viz. Andhra Pradesh, Gujarat, Rajasthan, Karnataka, Madhya Pradesh, Manipur, Sikkim, West Bengal, Tripura, and Maharashtra have also notified the state specific rules in accordance with the provisions of the Act.

5. Establishment of Biodiversity Management Committee

So far, 31,542 BMCs (out of which formation of BMCs in 3969 Gram Sabhas in Madhya Pradesh are under progress) have been constituted by the local bodies in 14 states - Andhra Pradesh, Himachal Pradesh, Karnataka, Madhya Pradesh, West Bengal, Kerala, Goa, Nagaland, Manipur, Uttar Pradesh, Gujarat, Punjab, Mizoram and Tripura. The status of BMCs and preparation of PBRs is given below.

Sl. No.	States	BMCs formed	Preparation of PBRs
1	Andhra Pradesh	18	5
2	Karnataka	3,287	89
3	Kerala	200	74
4	Tripura	04	
5	West Bengal	21	13
6	Madhya Pradesh *	27,712	50
7	Goa	5	-
8	Himachal Pradesh	2	-
9	Punjab	31	
10	Mizoram	234	
11	Gujarat	11	
12	Uttar Pradesh	01	-
13	Manipur	06	
14	Nagaland	10	
15	Uttarakhand	-	139
	Total	31,542	370

*BMCs constituted in 50 districts panchayats, 313 Janpad Panchayat, 23,043 Gram Panchayat, 237 Nagar Panchayat, 14 Nagar Nigam, 86 Nagar Palika Parishad and 3969 gram sabhas (in progress).

6. Biodiversity Heritage Sites

The State Governments are required to frame rules for the management and conservation of all the heritage sites. The Government of Karnataka has notified the Tamarind site at Nallur in Devanahalli Taluk, Bangalore district as first Biodiversity Heritage Site in the country.

The details of BHS identified, in process of notification and notified are as under:

Name of the state	Identified (Phase 1)	In process (Phase 2)	Notified (Phase 3)
Karnataka Notified: 1 In Process: 3		Hogerkhan in Kadur taluk, Gandhi krushi vignana Kendra (University of Agricultural sciences), Nethrani island in Bhaktal taluk	Tamarind grove at Nallur village
Uttarakhand Identified: 15	Sandra Kotigad & Singtur ranges of Tons Division, Dodital & Kalyani area of Uttar Kashi forest area, Dudhotoli massif in Pauri, Kalmuni ridge in Pithoragarh, Anthansi-Mandakini-Golopha in Pithoragarh, Samdeva area in Pithoragarh, Kilbury area in Nainital, Dasoli & Mandakini area in Chamoli, Barkot area in Dehradun, Tumeria Barrage in Udham Singh Nagar		
Punjab Identified: 3	Harike wetland, Kanjli wetland, Ropar		
Manipur Identified: 19	Chingkhei river, Maklang, Lokchao Catchment are of Iril & Imphal, Shirol, Jiri- Makru Catchment, Buning, Pumlentput, Caves of Thanlon & Kangkhui, Bandramiai, Tingkai, Sinzawl, Barak River, Mondum Mahadev, Thangjing hill, Tujisngbi river (3km stretch near Myanmar), Nungsum area near Sugnu, Kachaophung in Ukhrul, Kailam area		
Andhra Pradesh Identified: 1	Veerapuram of Anantapuram		
West Bengal Identified: 1	The Old Kanakdurga temple		
Himachal Pradesh Identified: 8	Devata Sahib Maheshwarji Chagaon, Tehsil Nichar Distt. Kinnaur/ Devi Jagrsan, Pujarli in Shimla District/ Kalu Devta, Bharana in Shimla District/ Mansa Mata, Munish in Shimla District/ Pavasi Devta, Bholar in Shimla District,/Adi Shakti Mata, Kacheri in Shimla District/ Mata Mangla Kali in Shimla District/ DevVan Aloh Chamkina Paneh Maniala, Distt Kangra		

Notification of Threatened Species

In accordance with Section 38 of BD Act, the Central Government in consultation with the concerned State Government, may from time to time notify any species which is on the verge of extinction or likely to become extinct in the near future as threatened species and prohibit or regulate collection thereof for any purpose and take appropriate steps to rehabilitate and preserve those species. Plants and animals on the verge of extinction were identified and notified in States of HP, Kerala, UP, Uttarakhand, Mizoram, Orissa, Meghalaya, WB and Goa.



7

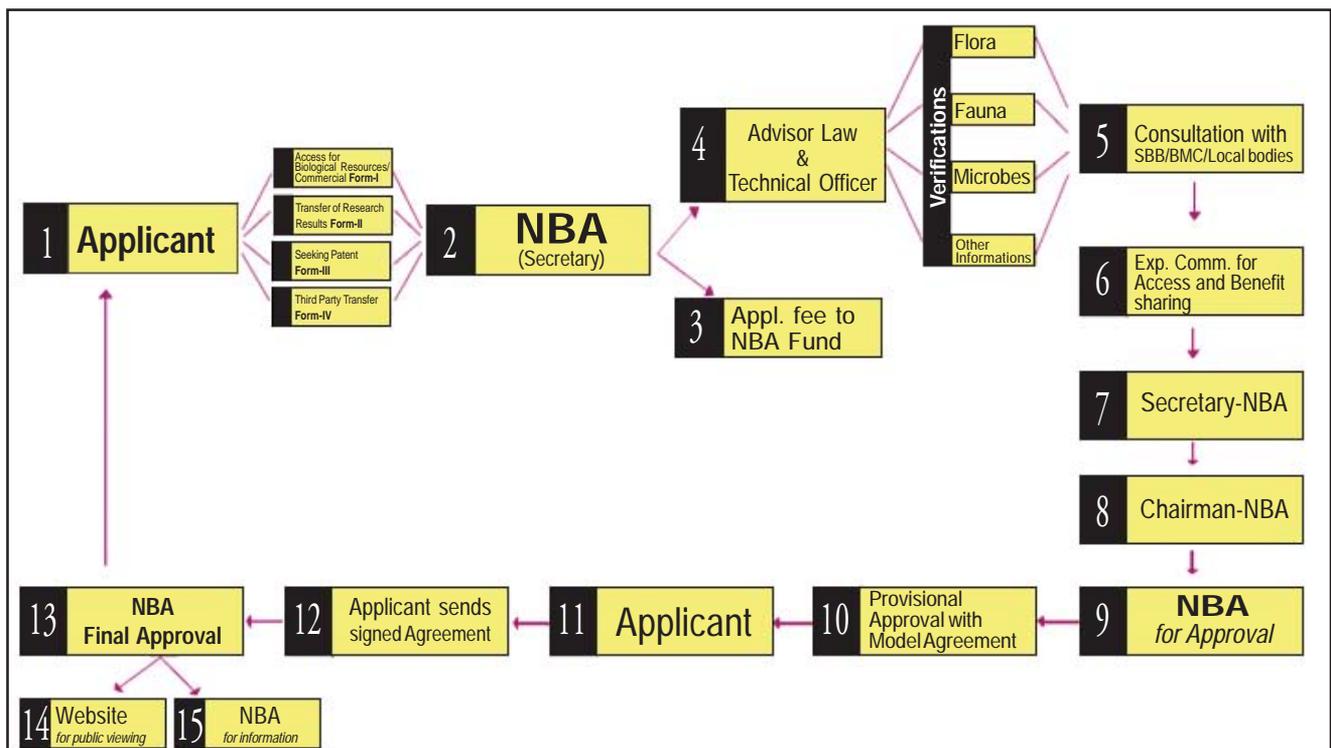
Access and Benefit Sharing

1. Approval process

Access to bio resources and / or associated knowledge from India is considered and approved by the National Biodiversity Authority in accordance with section 3, 4, 6 of Biological Diversity Act and rule 14, 17, 18 and 19 of Biological Diversity Rules.

The applications received from public/private sectors and foreign nationals for approval of access to bio resources and associated traditional knowledge are processed as elaborated below:

Schematic presentation of processing of applications under Biological Diversity Act, 2002 and Rules 2004.



The request for access is examined by the Expert Committee on Access and Benefit Sharing constituted by the Authority and case by case recommendations made by the above committee are deliberated and considered in the authority meeting. So far, NBA has received 503 applications related to access to bio resources/

associated knowledge and benefit sharing. The request for access to biological resources and associated knowledge is made in the following forms to enforce benefit sharing mechanism as and when commercialization of accessed biological / genetic resources is done.

Form	Category	Applications Received since 2004
Form I	Access to Biological resources and associated traditional Knowledge	88
Form II	Transferring the results of research to foreign nationals, companies, NRI's for commercial purposes.	21
Form III	Intellectual Property Right	362
Form IV	Third Party transfer of the accessed biological resources and associated knowledge.	32
Total		503

2. Consultations with SBB and BMC

As per the Section 41(2) of BD Act, the NBA and SBB shall consult the BMC while taking any decision relating to the use of biological resources and knowledge associated with such resources occurring within the territorial jurisdiction of the BMC.

After the 13th meeting of the Authority, considering the establishment of SBBs in most of the States and BMCs in some of the States, NBA has started consulting SBBs and BMCs (through respective SBBs) for access to biological resources. Consents have been received from the following SBBs for access requests by 18 applicants: AP (2), Tripura (2), Karnataka (3), WB (9) and Tamil Nadu (2).

3. The status of the applications received by NBA during the year 2009-10

Details	Received	Cleared	Under Process	Closed	Agreement Signed (2009-2010)	Agreement Signed in 2009-10 for the applications submitted in previous years
Form I (Access for Research/ Commercial)	23	6	16	1	2	—
Form II (Transfer of Research Results)	11	—	11	—	—	1
Form III (Seeking Patent)	97	10	87	—	3	6
Form IV (Third Party Transfer)	11	2	9	—	1	—
Total	142	18	123*	1	6	7

**includes applications for which information is awaited from the applicant.*

4. Royalty Received:

So far, NBA has received the following royalty for the agreements signed:

Sl.no.	Name of the company	Form	Total Amount received (₹ in lakhs)
1	PepsiCo India Holdings Pvt. Ltd.	I (Access for Commercialisation) & IV (Third Party Transfer)	7.79 29.57
2	Bio India Biologicals (BIB) corporation, Hyderabad.	I(Access for Commercialisation)	0.53
		Total	37.89

5. Patents granted based on the approval of NBA as on 31.03.2010

Sl.No	Application no. & Applicant name	Details of Invention
1	NBA/Tech appl/9/129 Mr. P.M.Murali	Herbal composition for respiratory disorders such as chronic obstructive pulmonary disease and bronchitis based on the presence of active ingredients in the plant extracts
2	NBA/Tech appl/9/118 Dr. Anilkumar Vaidya	Preparation of a herbal formulation for the treatment for asthma, acute bronchitis and lung disease
3	NBA/Tech appl/9/157 Dr. Polok Kumar Mukherjee	A process of preparing herbosomes with andrographolide having increased hepatoprotective activity and product thereof
4	NBA/Tech appl/9/171 Shri. Amin Jyoti	Antiestrogenic phytosterol extract from fenugreek seeds
5	NBA/Tech appl/9/185 Shri. D. S Prabhakar	A medicinal composition of nut kernel of <i>Caesalpinia bonduie</i> (L.) Roxb. for diabetes in mammals
6	NBA/Tech appl/9/208 M/s. Bose Institute	A new mannose binding insecticidal lectin isolated from seeds of <i>Annona squamosa</i> , and process for its preparation
7	NBA/Tech appl/9/100 Mr. Manish Saurastri	Invention relates to composition and a process for preparation of a composition for manufacturing textured soluble container using herbal texturing agent.
8	NBA/Tech appl/9/205 Dr. Mrs.Geeta Pandurang Pawar	Preparation of an Ayurvedic anti snake venom comprising four medicinal plants
9	NBA/Tech appl/9/229 Prof. Dr. S. K. Nayak	Hybrid composites comprising polypropylene (PP), natural and synthetic fibers, and more particularly referring to a low-cost pineapple leaf-fiber (PALF) based polypropylene composite with material hybridization with glass fibers and material layout for improved behavior that leads to enhanced mechanical properties resulting in lower cost and reduced environmental impact
10	NBA/Tech appl/9/230 Prof. Dr. S. K. Nayak	A rheological process has been developed wherein natural fiber PALF (Pineapple leaf fiber) has been dispersed with a thermoplastic matrix.
11	NBA/Tech appl/9/131 Ms. Kalpana Bhupendra Katkar	A process for preparing the composition for purifying and adding medicinal properties to the air in the form of air freshner

6. Measures taken in respect of IPR

As per Section 18(4) of the BD Act 2002, the NBA has initiated action to establish a legal cell, to render advise to NBA in dealing with statutory matters and to take necessary steps to oppose the grant of intellectual property rights on any biological resource obtained from India or knowledge associated with such biological resource which is derived from India.





8

INDIA - UNDP Project

Strengthening Institutional structures to implement the Biological Diversity Act

Operational Area: The project is in operation in the states of Madhya Pradesh and Jharkhand. Districts of Hoshangabad, Rewa and Balaghat in Madhya Pradesh and Hazaribagh and Latehar in Jharkhand have been identified for the implementation of the project.



Madhya Pradesh



Jharkhand

Project Duration : 3 years (2009 - 2012)

Project Budget : USD 1.18 million (UNDP funded)

Objective: Strengthening the institutional capacities at various levels and bring in behavioral changes to manage natural resources in an integrated, participatory and sustainable manner.

The project will help to address the challenges in implementation of the Biological Diversity Act by supporting and strengthening the State Biodiversity Boards (SBBs) and Biodiversity Management Committees (BMCs) through capacity building, awareness and education, database and networking. The initiatives in the two states are pilot projects that will function as templates in strengthening the Biodiversity Boards of India.

The Work Plan:

Target 1 : Institutional capacities of relevant national, state, and local Institutions enhanced for effective implementation of Biological Diversity Act.

Target 2 : Enhanced understanding at national, state and local institutions for conservation (*in-situ* and *ex-situ*) of bio resources and ecosystems.

Target 3 : Knowledge sharing among national, state and local relevant institutions for effective implementation of BD Act.

Activities of the Project Management Unit (PMU)

Project Inception: Project Inception Meeting was held on June 15, 2009 at Dr MCR HRD Institute, Hyderabad. The meeting was chaired by Shri B S Parsheera, Special Secretary, MoEF, GoI. Dr. P. L. Gautam, Shri A. K. Goyal, Dr. Sujata Arora, Shri C. A. Reddy, Dr. Balakrishna Pisupati, Dr. K Venkataraman, Dr. K. S. Murli, Dr. Preeti Soni, and Member Secretaries of Madhya Pradesh and Jharkhand attended the meeting. Dr. Murali, from UNDP gave an overview of the Project. Shri B. S. Parsheera explained the responsibility of the State Governments to establish BMCs and the preparation of Peoples Biodiversity Registers and highlighted the need for establishment of BMCs. The two States of Madhya Pradesh and Jharkhand were suggested to form a model for the implementation of the BD Act.



Project Planning and Review Meeting: The planning and review meeting was held at NBA, Chennai on 08.12.09 under the chairmanship of Dr P.L. Gautam, National Project Director. It was attended by Ms. Lianchawii of UNDP, Secretary NBA, member secretaries MP and Jharkhand, NBA staff and project personnel. The roles and responsibilities of different project units were elaborated and a detailed plan of action was prepared based on the deliberations and discussions.



Meetings of the Project Management Committee (PMC): Till March 2010, three meetings of the PMC have been held as under:

1. July 9, 2009 at NBA, Chennai
2. December 23, 2009 at NBA, Chennai
3. February 10, 2010 at Central Institute of Agricultural Engineering (CIAE), Bhopal

Meetings of the Project Steering Committee (PSC): The first meeting of the PSC was held on the 22nd February 2010 at Paryavaran Bhavan, CGO Complex, MoEF, New Delhi.



Staff Training: It was conducted by the UNDP on the 10 and 11th February at New Delhi. Mr Saibal K. Dey, Project Coordinator, Jharkhand and Mrs P. Uma, Finance Assistant, PMU, participated in this training.

Progress in Jharkhand

Orientation Meeting: Project Orientation Meeting in Jharkhand was organised on September 14, 2009 at Ranchi under the Chairmanship of Shri Shiv Basant, Chief Secretary of Jharkhand. Presentations were made by Dr. K. Venkataraman, Project Manager and Dr. Preeti Soni of UNDP, followed by remarks by

Dr. P. L. Gautam, National Project Director. It was agreed to move forward with the implementation of the project as per the project document.

Launch Workshop: Launch Workshop in Jharkhand was organized on September 15, 2009 at the ATI Conference Hall, Ranchi. His Excellency K. Sankaranarayanan, the Governor of Jharkhand was the Chief Guest. Sri Wilfred Lakhra, Advisor to H.E. Governor of Jharkhand, Chief Secretary, Govt. of Jharkhand, Chairman, NBA, and UNDP Country Director also attended the ceremony.



Project Activities:

- A workshop for creation of awareness was organised on January 24, 2010 at Jalima village, Hazaribag District. It was attended by about 700 villagers, local experts from the University and NGOs, students from the local schools, Social workers and Media representatives besides the resource persons from the SBB and Forest Department.



Activities included:

- ✓ Raksha bandhan on trees;
- ✓ Quiz competition among the students;

- ✓ Display of banners and film show;
- ✓ Training by local experts and villagers;
- ✓ Cultural programme, songs and poetry by local villagers based on conservation of biodiversity;
- ✓ Prize distribution
- Another workshop was organised on February 13, 2010 in Latehar District. The agenda for the workshop consisted of explanatory sessions on the BD Act, International Year of Biodiversity 2010 and basics of PBR preparation. Cultural programmes based on biodiversity were also organised.
- Trainings on PBR preparation were organised in the two project districts - Hazaribagh and Latehar on March 20, 2010 and March 26, 2010, respectively. The participants for the training included EDC members, Forest Officials and villagers. The aspects covered under the training included general information on biodiversity, Biodiversity Act and its importance, sustainable use, conservation and equitable benefit sharing of bioresources and preparation of People's Biodiversity Register.

Progress in Madhya Pradesh

Orientation Meeting: The Project Orientation meeting was held on August 13, 2009 at Bhopal under the chairmanship of the Chief Secretary, Government of Madhya Pradesh, which was attended by senior officers of the state and representatives of UNDP, NBA and MoEF. Presentations were made by Shri. A.K. Jain, Member Secretary, State Biodiversity Board, Dr. K. Venkataraman, Project Manager and Ms Lianchawii of UNDP. It was followed by discussion. The Chief Secretary showed keen interest in the project and it was decided to proceed with its implementation.

Launch Workshop: Launch Workshop was organized on October 15, 2009 at RCVP Norohna Academy of Administration, Bhopal. Shri Rajendra Shukla, Honourable Minister of State, Forest, Biodiversity and Biotechnology was the Chief Guest. Dr. P. L. Gautam, National Project Director, presided over the ceremony. The project details were elaborated by the representatives of state, NBA and UNDP. The state government ensured full support for the implementation of the project.



Project Activities:

- Education, awareness and training programmes are being conducted on regular basis for the three project districts. Orientation programmes were conducted for school children as under:

January 16, 2010 : Navodaya Vidyalaya, Powarkedha, Hoshangabad

February 11, 2010: Navodaya Vidyalaya, Ratibad, Hoshangabad

February 26, 2010: Navodaya Vidyalaya, Powarkedha, Hoshangabad



- Workshop for network of partners on programme planning including their capacity building and training.
 - * Three workshops in Balaghat and one workshop in Hoshangabad were conducted with the help of MP forest and agriculture departments and other stake holders.
 - * Workshop on the orientation for PBR Preparation with participation of the professors of Botany and Zoology of Sarojini Naidu College and Sant Hirdaram College, Bhopal and their students was held on March 26 and 27, 2010.



- * One day workshop was organized at Madhai (Distt. Hoshangabad) on March 19, 2010.
- A study has been entrusted to the Indian Institute of Forest Management, Bhopal to document the industrial units using the bio-resources in the State.
- Field survey for documentation of Biodiversity Heritage Sites (BHS) is in progress -proposals have been received from ZSI, BSI, TFRI, SFRI, Dept. of Forest, Agriculture, Animal Husbandry suggesting places which can be declared as BHS.
- One booklet and one pamphlet on biodiversity have been published in Hindi. Documentary Film on Biodiversity of MP has been prepared and a Digital Biodiversity Atlas of MP is being developed with the help of Madhya Pradesh Council for Science and Technology (MAPCOST), Bhopal.



- A radio programme "Chalti Rahe Zindagi" is being aired by Akashwani. Live phone-in programme was launched for IYB on January 10, 2010.



- Launching of International Year of Biodiversity (IYB-2010) by Secretary, Biodiversity and Biotechnology Dept. at Ekant Park, Bhopal on January 5, 2010 in association with Capital Project Administration.
- Seminar organized at Pt. Khushilal Sharma Government Ayurveda college, Bhopal on January 11, 2010 to commemorate the launching of IYB 2010.



- Discussion are in progress with Mahatma Gandhi State Institute of Rural Development (MGSIRD), Jabalpur, for incorporating biodiversity issues in the training curriculum of newly elected local body representatives.
- Displayed a moving tableau depicting Biodiversity of Hoshangabad on Republic Day celebrations organised at the District Stadium, Hoshangabad for which it won the first prize.







9

Regulations and Notifications

The following notifications have been issued by the Government of India on the recommendation of NBA/State Governments

Sl. No.	Title of Notification/Order	Date of Notification	Reference
1	Species of plants and animals which are on the verge of extinction in the State of Himachal Pradesh	17.03.2009	S.O.783(E)
2	Species of plants and animals which are on the verge of extinction in the State of Kerala	15.04.2009	S.O.997(E)
3	Species of plants and animals which are on the verge of extinction in the State of Uttar Pradesh	15.04.2009	S.O.998(E)
4	Species of plants and animals which are on the verge of extinction in the State of Uttarakhand	15.04.2009	S.O.999(E)
5	Species of plants and animals which are on the verge of extinction in the State of Mizoram	30.09.2009	S.O.2524(E)
6	Species of plants and animals which are on the verge of extinction in the State of Orissa	30.09.2009	S.O.2525(E)
7	Species of plants and animals which are on the verge of extinction in the State of Meghalaya	30.09.2009	S.O.2526(E)
8	Biological resources notified as normally traded commodities under Section 40 of Biological Diversity Act	26.10.2009	S.O.2726(E)
9	Species of plants and animals which are on the verge of extinction in the State of Goa	31.03.2010	S.O.770(E)
10	Species of plants and animals which are on the verge of extinction in the State of West Bengal	31.03.2010	S.O.769(E)
11	Appointment of Non-Official Members to NBA	15.02.2010	S.O.389(E)



10

Finance and Accounts of the Authority

Receipts and Payments Account for the year ended 31st March, 2010

(Amount in ₹)

Receipts	Current Year 2009-10	Previous Year 2008-09	Payments	Current Year 2009-10	Previous Year 2008-09
I. Opening Balances:			I. Expenses:		
a) Cash in hand	3,000	3,000	a) Establishment Expenses	85,44,559	38,36,868
b) Bank Balances:			b) Administrative Expenses	1,39,61,749	97,65,734
(i) Current A/c	50,88,229	27,84,306	II. Payment made towards Funds for Various Projects	14,40,783	41,76,325
(ii) In Deposit A/c	18,25,000	7,50,000	III. Investments and Deposits made		
(iii) Savings A/c	–	–	a) Out of Earmarked / Endowment funds	–	–
II. Grants Received: (For Authority A/c)			b) Out of Own Funds (Rent & Telephone Deposits etc.)	8,02,600	7,500
a) From Govt. of India	2,87,91,742	2,86,09,000	IV. Expenditure on Fixed Assets & Capital Work-in-Progress		
b) From State Govt.	–	–	a) Purchase of Fixed Assets	–	4,60,596
c) From other Sources	–	19,875	b) Advance paid for purchase of Car	–	–
III. Income and Investments from			c) Expenditure on Capital Work-in-progress	64,07,820	6,45,794
a) Earmarked / Endowment Funds	–	–	V. Refund of Surplus money/ Loans		
b) Own Funds (Other Investments)	–	–	a) To the Govt. of India	–	–
IV. Interest received			b) To the State Govt.	–	–
a) On Bank deposits	2,10,358	65,811	c) To other providers of funds	–	–
b) Loans, Advances, etc.	–	–	VI. Finance charges (Interest)	25,899	9,212
V. Other incomes:			VII. Other Payments		
Application Fees	3,99,170	2,05,252	Grants to State Biodiversity Boards	5,00,000	94,00,000
Royalty	30,09,990	7,79,624	Transfer from NBA. Authority A/c to NBA. Fund A/c	–	–
Administrative & Service charges recd.	38,981	–	Refund of Sponsorship amount to SBI.Ch-6	1,00,000	–
Miscellaneous Incomes	8,879	800	GEF.Project A/c	16,13,966	–
Sale of Newspapers	172	590	UNDP.Project A/c	49,27,468	–
VI. Amount Borrowed	–	–	VIII. Closing Balances		
VII. Other Receipts:			a) Cash in hand	5,000	3,000
Earnest Money / Security Deposit recd. from Contractors	1,40,000	20,00,000	b) Bank Balances:		
Transfer from NBA. Authority A/c to NBA.Fund A/c	–	–	(i) Current A/c	45,201	50,88,229
Encashment of Fixed Deposit	–	–	(ii) In deposit A/c	21,25,000	18,25,000
GEF.Project A/c	16,45,890	–	(iii) Savings A/c	55,56,910	–
UNDP.Project A/c	51,87,600	–	c) GEF.Bank A/c	31,924	–
Total	4,63,49,011	3,52,18,258	d) UNDP.Cash & Bank A/c	2,60,132	–
			Total	4,63,49,011	3,52,18,258

Income and Expenditure Account for the year ended 31st March, 2010

(Amount in ₹)

INCOME		Schedule No.	Current Year	Previous Year
Income from Sales/Services		12	–	–
Grants/Subsidies	* 2,87,91,742	13	* 2,16,87,001	2,86,28,875
Less:- Purchase of Fixed Assets } Assets during the year }	(-) 71,04,741			
Fees/Subsidies		14	3,99,170	3,47,293
Income from Investments (Income on Invest, from earmarked/endow. Funds transferred to Funds)		15	–	–
Income from Royalty, Publication etc.		16	30,09,990	7,79,624
Interest Earned		17	1,89,283	1,18,472
Other income		18	48,032	1,902
Increase/(decrease) in stock of Finished goods and works in-progress		19		
TOTAL (A)			2,53,33,476	2,98,76,166
EXPENDITURE				
Establishment Expenses		20	89,66,474	41,98,295
Other Administrative Expenses etc.		21	1,72,62,137	1,10,43,840
Expenditure on Grants, Subsidies etc.		22	5,00,000	94,00,000
Interest paid		23	25,899	9,212
Depreciation (Net Total at the year-end-corresponding to Schedule 8)			15,08,200	1,96,949
Loss on Sale of Office Equipment (Paper Shredding Machine)		4,021		
TOTAL (B)			2,82,66,731	2,48,48,296
*Balance being Excess of Expenditure over Income (A-B) } transferred to Capital Fund }			(29,33,255)	50,27,870

Balance Sheet as at 31st March, 2010

(Amount in ₹)

CORPUS / CAPITAL FUND AND LIABILITIES	Schedule No.	Current Year	Previous Year
Capital Fund	1	1,43,18,976	88,79,871
Reserves and Surplus	2	–	–
Earmarked / Endowment Funds	3	–	–
Secured Loans and Borrowings	4	–	–
Unsecured Loans and Borrowings	5	–	–
Deferred Credit Liabilities	6	–	–
Current Liabilities and Provisions	7	25,52,159	6,76,180
TOTAL		1,68,71,135	95,56,051
ASSETS			
Fixed Assets	8	77,90,748	8,17,656
Investments - From Earmarked / Endowment Funds	9	–	–
Investments - Others	10	21,25,000	18,25,000
Current Assets, Loans, Advances Etc.,	11	69,55,387	69,08,292
Miscellaneous Expenditure (To the extent not written off or adjusted)			
Deferred Revenue Expenditure not Written off during 2008-09	24	–	5,103
TOTAL		1,68,71,135	95,56,051



11

Annual Plan 2010-11

1. To conduct of four authority meetings during the year 2010-11 and implement the proceedings of the meeting.
2. To promote formation of State Biodiversity Boards in all the states and Biodiversity Councils/Bodies in Union territories under necessary support and guidance of National Biodiversity Authority.
3. To monitor the projects initiated by State Biodiversity Boards.
4. To sponsor conducting of workshops, awareness creation, extension activities, research development etc.
5. Creating awareness through mass media - five documentary films on the eco-systems and biodiversity are proposed to be produced.
6. To promote formation of Biodiversity Management Committees in different States of India.
7. To conduct and sponsor scientific conferences and awareness programs for different stakeholders.
8. Documentation of People's Biodiversity Register.
9. Acquisition of land for office building, land development and civil construction.
10. To celebrate International Year of Biodiversity 2010 in a befitting manner.
11. To design and implement Indian Biodiversity Information System -Phase I - Online submission/ processing and monitoring of applications, agreements and funds flow, developing linkages between State Biodiversity Board and NBA etc. as per the recommendation of the expert committee formed for the purpose.
12. To implement integrated information management systems that automates and facilitates office administration and finance processes smoothly and enable reporting system to streamline information sharing within NBA and provide updated information at all times to higher management levels.
13. To frame Access and Benefit Sharing guidelines and implement the same.
14. To make necessary amendments to the Biological Diversity Act and Rules.
15. To suggest and implement appropriate models for BMC and related matters under the various provisions of the B.D.Act as per the recommendation of the task force (Expert Committee).
16. To frame guidelines for utilisation of the funds in the national biodiversity fund by NBA, SBB and BMCs as per the guidelines finalized by the expert committee.
17. To frame guidelines to take ameliorative measures for biodiversity rich areas threatened by overuse, abuse and neglect.





12 Programmes and Activities of State Biodiversity Boards

1. State Biodiversity Boards Notified

As of now, 24 States have established "State Biodiversity Boards" viz., Karnataka, Goa, Madhya Pradesh, West Bengal, Punjab, Kerala, Arunachal Pradesh, Nagaland, Himachal Pradesh, Mizoram, Chhattisgarh, Manipur, Sikkim, Gujarat, Uttarakhand, Andhra Pradesh, Uttar Pradesh, Haryana, Tamilnadu, Jharkand, Tripura and Orissa. Similar initiatives are being taken to implement Biological Diversity Act, 2002, by constituting Biodiversity Councils to monitor and implement the Biodiversity Management Committees in the Union Territories of India.

2. Financial Assistance granted to SBB

Based on the decision taken in the first meeting of NBA, the authority has been providing one-time grant-in-aid of ₹ 10 lakhs for the establishment and creation of infrastructure for the State Biodiversity Boards. In respect of Tamil Nadu Biodiversity Board, an initial grant of ₹ 5 lakhs has been provided by NBA during 2009-10. So far, NBA has provided grants to the tune of ₹ 249 lakhs to the State Biodiversity Boards and BMCs (₹ 50,000 per BMC) to create infrastructural facilities.

3. Activities of the State Biodiversity Boards

3.1. Andhra Pradesh

The Board has taken steps to mitigate cases related to Biopiracy. The Board has successfully

registered cases against foreign nationals involved in Biopiracy of Tarantula spiders from Vishakhapatnam and Anantapur districts of Andhra Pradesh and trademark dispute case with respect to Sona Masuri against Malaysia has been taken up. The Biodiversity Board has also initiated a two-pronged strategy in this direction.

- i. The first strategy concerns with prevention of Biopiracy concept which aims at production of the first video document from the video recording of oral traditional knowledge present with illiterate and bare-footed experienced senior citizens of the Mahanandi Biodiversity Management Committee of Kurnool district. The collaboration with International Institute of Information Technology (IIIT), Hyderabad for the same with flora database of the Andhra Pradesh Forest Department is in progress. IPR cell of Osmania University has been assigned with the task of uplinking the oral traditional knowledge database to the World Intellectual Property Organization's website.
- ii. The second strategy involves curative measures against Biopiracy. Through Newsletters, the board has been creating awareness and requesting the stakeholders to report cases of biopiracy so that actions can be initiated against the perpetrators.

The Veerapuram Grama Panchayat of Anantapur has submitted resolution requesting for declaring Veerapuram as biological Heritage Site Under section 37 (1) (a) Biological Diversity Act, 2002 to enable the State Government to notify in the official Gazette areas of Biodiversity Heritage Sites under this Act. Beside this, many other sites have been identified and are in the process of declaring as BHSs. Initiatives to establish Biodiversity Parks of Andhra Pradesh are also under progress.

In terms of sustainable utilization of the biological resources, the board has made an attempt to assess the quantity of biological resources being utilized by various agencies such as herbal unit, seed industries and other biotechnological companies of Andhra Pradesh and they were requested to submit details in Form I of the Biological Diversity Act, 2002.

BMC Mahanandi has resolved that an accession fee of ₹ 300 lakhs be collected from multinational seed company for alleged Biopiracy of the bacteria, *Bacillus thuringiensis*. The Board proposed to initiate action against the soft drink companies which are preparing "herbal cola" drink based on the traditional knowledge of the *Hemidesmus* sp. In southern Andhra Pradesh, the first Biopiracy case as per the Biological Diversity Act, 2002 was booked against a German National Dr. Marc Clark Baumgartner and his local associate, Mr. Venkat Reddy. The Board proposed prevention of Biopiracy through the capacity building initiatives of grass-root level staffs of the line departments, empowering the self help groups and biodiversity management committees for reporting and preventing Biopiracy, and establishment of biopiracy squads as striking force to combat biopiracy.

Peoples Biodiversity Registers for Mahanandi Village has been prepared. Besides this, numerous capacity building activities in the form of brainstorming session, training workshops and conferences have been organized by the Board to sensitize stakeholders in matters pertaining to biodiversity and its conservation.

A case of access to benefit sharing of biological resources namely leaves of 'neem' to a local company exporting 'neem' leaves has been

initiated. Amarachinta BMC in Mahaboobnagar has been sensitized to 'access to benefit sharing' mechanism.

3.2 Chhattisgarh

The State of Chhattisgarh is according high priority for the cause of conservation of Biodiversity. In 2009-10, ₹ 20 lakhs was provided to the State Biodiversity Board by the State Government to run its activities and ₹ 5 crores, for undertaking Biodiversity conservation measures inside forests which was fully utilized.

As per the requirement of BD Act 2002 and BD Rules 2004, BMCs are being formed at the local body level and the process of preparation of People's Biodiversity Register at the desired level is under progress, covering an area of 9364.653 hectares in Katghora, North Kondagaon and Jagdalpur Forest Divisions through community-based Natural Resource Management. A survey of resources and a microplan on conservation in the above mentioned area has been undertaken with UNDP assistance. Beside this survey *in-situ* and *ex-situ* propagation of rich biodiversity of the State, promotion of NWFP-based livelihood activities, herbal health care and marketing of NWFP for better price for the MFP Collectors has been initiated. Similarly, Chhattisgarh Medicinal Plants Board has initiated the conservation of Medicinal Plants Diversity and Sustainable Use with UNDP assistance. An e-library of medicinal plants related literature and e-herbarium of medicinal plants has been set up. A database on traditional healers and vaidyas has been generated. Plantation of 2600 plants of *Asparagus racemosus*, 10,000 plants of *Embllica officinalis*, 10,000 cuttings of *Tinospora cordifolia*, 10,000 slips of *Vetiveria zizanioides* and other medicinal plants was done and a nursery for raising medicinal plants and to distribute to the farmers has been initiated.

The rich biodiversity of the State provide ample livelihood opportunities to the tribals and the people residing around forests. According to an estimate, a benefit to the tune of ₹ 1200 crores is drawn by the people from the rich biodiversity of the State. Non-wood forest produce supplements significantly to the earnings of the tribals and other

weaker sections. In 2009-10, an amount of ₹ 100 crores was distributed as wages to the Tendu Patta pluckers and more than ₹ 108 crores is expected to be distributed as bonus. During sal seed collection an amount of ₹ 88 crores was distributed as wages. The cultivation of lac has been undertaken in a bigger way in the State and it stands at the first place in the Country. The collection of other MFPs like mahua flowers, bauhinia leaves, honey, tamarind etc. form major part in the earnings of the local people.

3.3. Gujarat

Gujarat Biodiversity Rules notified by Govt. of Gujarat vide Notification No. WLP/ 2003/ 1777/ 2009(45)/W (Part-II), Dated 18/2/2010; Eight posts in different cadres were sanctioned in the Board by the Government of Gujarat with the efforts of the Board. An officer of the rank of Principal Chief Conservator of Forests has been appointed as Chairman of the Board.

During this year, ten BMCs were formed in four Districts viz., Seven in Panchmahal and one in Tapti, Narmadha and Junagadh Districts. As part of IYB 2010 seven awareness camps were conducted in seven places covering six districts involving scientists, NGO, Govt. officers and villages sarpanches and public.

livelihoods and conservation of biodiversity, three comprehensive project proposals for getting funds related to biodiversity conservation in HP were prepared with consultation of Dr. Archana Godbole, Honorary Director, Applied Environment Research Foundation, Pune, Maharashtra.

A manual on capacity building of the Biodiversity Management Committees prepared and it was found to be very useful. It was evident in the performance efficiency of the two Panchayats namely; Gram Panchayat, Jhukhala (Bilaspur district) and Gram Panchayat, Khatnol (Shimla district) in the State.

A participatory workshop on PBR was conducted detailing the methods of documenting the flora and fauna of an area and the use and misuse of the bioresources. PBR process has been initiated in the selected panchayats including formation of BMC in the state.

The Board celebrated International Biodiversity day on the theme "Biodiversity and Invasion of Alien Species" on May 22, 2009 by organising various activities such as slogan competition, and essay writing competition. The Biodiversity Day was celebrated through 1693 Eco-clubs established by the State Council for Science, Technology and Environment. Live discussion on the topic

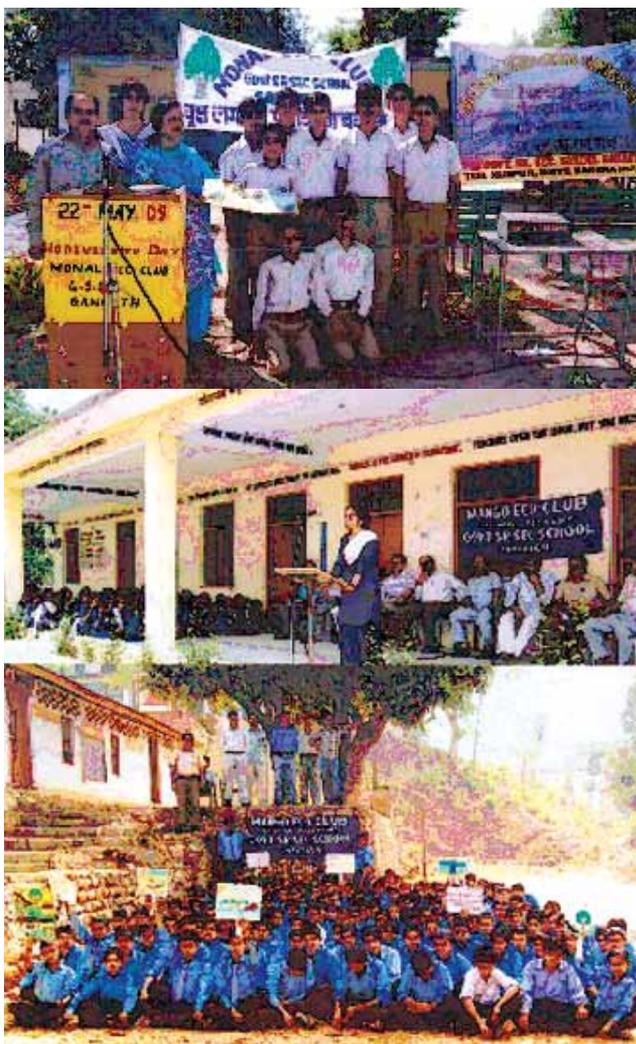


BMC members of Gram Panchayat, Jukhala in Biomapping session during the manual briefing for preparation of Biodiversity Register testing session.

3.4. Himachal Pradesh

A draft of status report on biodiversity of Himachal Pradesh, concept note for integrated conservation and development programme for the participatory long term biodiversity conservation and sustainable development, participatory ecotourism planning and management for better

"Biodiversity and Invasion of Alien species" was organized through Doordarshan and All India Radio. Biodiversity Day was celebrated by over 40 schools in Shimla and adjoining areas. An Exhibition on Biodiversity was organized by the State Council.



3.5 Jharkhand

Jharkhand Biodiversity Board has started implementing to adopt India - UNDP Project "Strengthening Institutional Structures to Implement the Biological Diversity Act" in September, 2009 which will be carried out till 2012. Project Orientation Meeting at Jharkhand was organized on 14th September, 2009 under the Chairmanship of Shri Shiv Basant, Chief Secretary of Jharkhand and the project was launched on 15th September, 2009 by Hon'ble Governor of Jharkhand. Initially this project will be implemented in Hazaribagh and Latehar Districts. PBR trainings have been organized in these to Districts for villagers and eco development committees (EDCs).

Awareness materials on biological diversity has been published and they were distributed in the various workshops and training programmes.

The Board meeting of Jharkhand biodiversity board was held on December 4, 2009.



3.6. Karnataka

The Karnataka Biodiversity Board (KBB) has formed Biodiversity Management Committees at district, taluk and grampanchayat levels. In 2009-10, 1328 BMCs were formed. Karnataka Biodiversity Board has declared the Nalluru Tamarind Grove in Devenahalli taluk as Heritage site under Section 38 of Biological Diversity Act 2002. The grove has 300 tamarind trees spread over an area of about 22 hectares. These are very old trees. The age of the trees has been assessed as 410 years as per carbon dating. Similarly, the 20 hectares of Nethrani coral reef island in Uttara Kannada about 11 nautical miles west of the coast of Bhatkal (18 km) in the Arabian Sea, Hogrekan in Chikmagalur and the University of Agricultural Sciences, GKVK, Bengaluru have been identified as Biodiversity heritage sites. A proposal has been sent to the State Government for approval.

People's Biodiversity Registers were taken up in various districts at grampanchayat level and are being prepared by BMCs with the technical assistance from NGOs / Departments / Universities / Colleges and other knowledgeable

persons as per the format communicated by NBA. The PBRs are prepared in Kannada and English.

Action has been initiated to identify and demarcate an area of 100 - 200 ha depending upon availability in the core forest area of 13 dry districts and conserve the species which are on the decline in the forests of districts namely Bangalore (R) Bagalkot, Bellary, Bidar, Bijapur, Chamrajnagar, Chitradurga, Gulbarga, Kolar, Koppal, Mandya, Raichur & Tumkur. The Deputy Conservators of Forests (Territorial) are implementing this project. The area is given full protection. There will be no harvest in these areas. The activities such as fire protection, sowing of indigenous species, soil and water conservation will be taken up. Inventory and documentation of Biodiversity will be done under the supervision and guidance of the Center for sustainable development. This way the change in Biodiversity will be monitored and the reason for changes will be identified so that remedial measures can be planned.

A programme has been initiated to collect the information of Bio-resources utilized from bio-industries with the involvement of Karnataka Indian Medicine Manufacturer's Association (Regd) and Karnataka Unani Medical Association, with the financial assistance of NBA.

The Board has sponsored a two-year study on western ghat of Uttara Kannada district in the first phase to the Centre for Ecological Sciences (Indian Institute of Science), Bengaluru at a cost of ₹ 40 lakhs. The other districts will be covered in the Western Ghats in a phased manner.

The Biodiversity Atlas for the state is being planned by Ashoka Trust for Research in Ecology and Environment, Bengaluru at a cost of ₹ 35.96 lakhs in 18 months.

The Karnataka Biodiversity Board has taken up the training programme on creation of awareness in respect of biodiversity and its related issues including traditional knowledge biodiversity documentation and management plan. In 2009-10, about 40 training programmes have been conducted.

Training and awareness programmes and consultative workshops were conducted on

various aspects of biodiversity conservation and sustainable use and traditional knowledge, biopiracy of bioresources for BMCs, Scientists, Environmentalists, Forest Range Officers, NGOs, Officers of related departments, public etc.

3.7 Kerala

Two hundred BMCs were constituted as of March 2010 by the Kerala Biodiversity Board. PBR workshops were organised in thirty nine Panchayats. Fourteen District level workshops were organised for Panchayat Presidents and Secretaries for BMC formation and PBR during 2009-2010. The work related to the completion of PBR of 15 Panchayats was over during the period. A review of the progress made in the PBR work showed that the work was not satisfactory, mainly due to the lack of personnel at field level for carrying out the data collection. Therefore, it was decided to recruit JRFs at district level to speed up the process of PBR preparation. A committee has been constituted to monitor and evaluate the activities of PBR preparation.



Assessment of the fish diversity of the Vembanad lake was made by the Board along with ATREE, Regional Agriculture Research Station (RARS) of Kerala Agricultural University, Kumarakom during 26-27 May 2009. The physical and chemical parameters



of the Lake were also analysed. This would help in drawing up strategies of bioresource enhancement and conservation management of the lake on which the local fishermen depend for their livelihood.



A project on wetland biodiversity conservation was initiated in April 2009 in the Kole Wetlands lying close to the Veliampkode and Maranchery Panchayats in the Malappuram District. The area covers about 200 hectares. The objectives of the project were: (1) wetland management ensuring biodiversity enhancement and long term conservation, (2) sustainable utilization of wetland resources for economic benefits of the local people, ensuring biodiversity enrichment and (3) demonstration of changes in the toxic levels in the food-web during different management practices.

An agro biodiversity restoration project in collaboration with the local Panchayat, Agriculture Department, Padasekhara Samithy and local farmers was launched in August, 2008. The project was launched in a micro watershed in the Padetti village extending about 160 hectares in the Palakkad district and the main objective was to demonstrate how the biodiversity of an agro ecosystem could be enhanced by appropriate eco-friendly interventions.

As part of this project, the following scientific studies were also outsourced:-

- 1) comparative Flora (mainly herbs and shrubs) in organic and chemical farming Ecosystems
- 2) diversity and community structure of ground dwelling arthropods in the chemical and organic farming area
- 3) study of Benthic Fauna and Soil Chemistry in the organic and Chemical farming areas
- 4) Homestead Biodiversity Enhancement.

The KSBB along with the Department of Agriculture, Govt. of Kerala organised a national workshop on GM Crops - their merits and demerits during 2-3 February 2010 at Government Guest House at Thiruvananthapuram. The workshop was inaugurated by the Hon'ble Chief Minister of Kerala Shri V.S.Achuthanandan and presided over by Shri Mullakkara Retnakaran, Hon'ble Minister for Agriculture. The workshop was attended by the Hon'ble Minister for Forests and Wildlife of Punjab, Shri Tikshan Sud and the Hon'ble Minister of Agriculture Dr.Ramkrishna Kusmaria from Madhya Pradesh. There was also representation from the States of Tamil Nadu, Andhra Pradesh, Delhi, Himachal Pradesh and West Bengal.



Dr. Devinder Sharma, Dr.Vandana Shiva, Dr.Pushpa M. Bhargava, Dr.G.P.I. Singh, Dr.G.V.Ramanjaneyulu, Shri T.Vijayakumar, Dr.Nammalwar and Dr.P.V.Satheesh spoke on merits and demerits of GM Crops.

The Ministry of Forests and Environment, Govt. of India has constituted the Western Ghats Ecology expert panel(WGEEP) to come out with recommendations for the conservation, protection and rejuvenation of the western Ghats region and also to suggest effective



measures for implementation of the notifications issued by the Government from time to time. The Chairman, Kerala State Biodiversity Board is nominated as a member of the WGEEP. The first meeting of the expert panel was held at ATREE, Bengaluru on 31 March, 2010, which was attended by Dr.V.S.Vijayan.



The International biodiversity year was organised jointly with the Dept. of Aquatic biology and Fisheries of the Kerala University at the Kariavattom Campus on May 22, 2009. The theme of the seminar was Biodiversity and Invasive Alien species.

An awareness programme on Biodiversity Conservation for the Judiciary was conducted at Ernakulam on December 12, 2010. A one day seminar for media persons of the Malppuram district was held on September 29, 2009 at Malappuram.

Children's ecological congress has been declared as a calendar event to be celebrated during November 11-12 every year. The second children's Ecological Congress was held on November 11-12, 2009 at Kanakakkunnu Palace in Thiruvananthapuram. The theme of the seminar



was "Agro biodiversity Conservation". The congress was inaugurated by the Hon'ble Agriculture Minister Shri Mullakkara Retnakaran. The chief guest for valedictory function was the Hon'ble Chief Minister Shri V.S.Achuthanandan, who gave away the prizes for the winners.

About 210 students and 50 teachers participated in the programme. Competitions were held in painting, essay writing, quiz and also for oral presentation on the project work carried out in the school on agro biodiversity. The overall trophy was shared between the Ramakrishna Mission Higher Secondary School, Kozhikode and Government U.P. School, Jawahar Colony, Thiruvananthapuram.



Green Awards for the year 2009, were distributed by the Hon'ble Chief Minister Shri V.S.Achuthanandan on November 12, 2009 to the following in various categories



The Ramakrishna Mission Higher Secondary School, Kozhikode as "Green school"; Shri A.Mohankumar C/o Siddharamam and Shri John Peruvanthanam, Ernakulam as "Green Individual"; Community Agro Biodiversity Centre, MSSRF, Wayanad as "Green Institution" and Mr.K.S.Sudhi, Senior Reporter, The Hindu, as "Green Media Person"

3.8 . Madhya Pradesh

The State Forest Department carried out the preparation of PBRs of both forest and revenue villages located in forest areas. It has prepared PBRs of 867 forest areas and 233 revenue villages. Samples of PBRs have been submitted to the MPSBB.

The preparation of Biodiversity Atlas of Madhya Pradesh showing species diversities in forest and non-forest areas and wild and domestic flora and fauna in each tehsil of all 50 districts of Madhya Pradesh has been entrusted to Madhya Pradesh Council of Science and Technology (MPCOST), Bhopal. The required data were procured from the concerned departments, viz., Forest Department, Agriculture Department, Horticulture Department, Animal Husbandry Department and Fisheries Department.

Twelve research and documentation projects were taken up with various partner institutions and the respective interim/ final reports have been received by MPSBB.

A number of awareness generation programmes such as Mowgli Utsav-2009 were organized, and International Biodiversity Day was observed in several districts during the year. Weekly-Radio talks on biodiversity were aired, and a short documentary film on biodiversity of Madhya Pradesh entitled "Jaiv Vividh Jivan ka Jal" has been prepared. Regular publication of quarterly newsletter "Jaiv Vividhta" of MPSBB has been taken up since December 2006. These newsletters were sent to all the related Government departments/ undertakings, Universities, district Collectors, BMCs etc.

The board participated and displayed stall of Madhya Pradesh in Bengaluru Bio 2009 organized at Bengaluru from June 18-20, 2009 and showcased Board's activities.



One day Training workshop on " Documentation of People's Biodiversity Registers" was organized for field staff of 32 divisions of Forest Department.



International Year of Biodiversity 2010 celebrated by organizing Ekant Utsav 2010 at Guru Govind Singh Park, Bhopal and various competitions for school children in painting, quiz and nature trail were conducted.



In consonance with National Action Plan on Biodiversity prepared by Ministry of Environment and Forests, M. P. State Biodiversity Board envisages to develop a Biodiversity Park in every District of Madhya Pradesh. In this line proposals were invited from all Districts. Six proposals of Biodiversity Parks received from Indore, Sagar, Ujjain, Rewa, Shahdol and Dewas were sanctioned and first installment was released. The Biodiversity park in Gwalior district is in progress through the State Forest department.

Competition for Best Biodiversity Garden: For creating awareness about the role of gardens in *ex-situ* conservation of biodiversity, all district Collectors were directed to organize competition in their districts for selecting public/private garden having the best biodiversity. An amount of ₹ 5,000 as prize money was sent to each district Collector.

In order to enhance the RET plants resources, nurseries have been established in Bhopal, Rewa and Jabalpur. Plantation of the RET plants raised in nurseries have been initiated through government and non-government agencies. Besides these, college students were made involved

in raising RET plants in their campus by providing financial assistance. Six colleges in Bhopal have already received the financial assistance from the state biodiversity board and the nursery raising of RET plants have been initiated.

Biodiversity rich areas identified by Botanical Survey of India (BSI) and Zoological Survey of India (ZSI) are being assessed to declare these potential areas as Biodiversity Heritage Sites.

Workshops were organized for Biodiversity Management Committees and Members of Technical Support Group to sensitize on biodiversity at Indore on 09.09.2010; Ujjain on 29.01.2010; Chhindwara on 20.02.2010; Sagar on 06.03.2010 and Khargone on 18.03.2010.

The grant of ₹ 25,000.00 from NBA has been distributed to each Zila Panchayat Level BMC's for infrastructure was given to each.

A workshop on Biodiversity Act/Rules and on Intellectual Property Rights was organized at National Law Institute University (NLIU), Bhopal and a detailed explanatory note on the Biological Diversity Act, 2002, the Biological Diversity Rules, 2004 and the Madhya Pradesh Biodiversity Rules, 2004 and IPR has been prepared by the NLIU.

The State Forest Department has been asked to incorporate biodiversity issues in working plans of all the forest divisions of Madhya Pradesh. Earlier, a workshop of senior officers of the State Forest Department and the State Forest Research Institute was organized. The recommendations of this workshop have been sent to the State Forest Department for appropriate action.

All the concerned State Government Departments have been requested to appropriately incorporate biodiversity issues in their policies as well as programmes/schemes.

A UNDP project on "Strengthening of Institutional Structures to Implement the Biological Diversity Act" was launched in three selected districts viz. Hoshangbad, Rewa and Balaghat on October 15, 2009.

3.9. Manipur

The Government of Manipur has constituted the Manipur State Biodiversity Board (MSBB) with representations from various Government

Departments and from other fields of expertise concerned with biodiversity. The Board is currently chaired by Shri D.S. Poonia, Chief Secretary, Government of Manipur, who took over as Chairman of the Board on 30.06.2009. During 2009-2010, three meetings of the Board were held.

The revised Gazette Notification of Manipur Biological Diversity Rules, 2008 has been issued during this year. In addition to the rules, the Manipur Biodiversity Board has framed financial and administrative guidelines for facilitating the smooth functioning of the Board. The Guidelines so framed have been issued on 26.11.2009 after the approval of the State Government of Manipur.

The Manipur State Biodiversity Board in its fifth meeting has decided that all Territorial Divisional Forest Officers would be the Nodal Officers for the constitution of BMCs in the local bodies under their jurisdiction. To sensitize and educate all such field-level forest officers on the provisions of the Biological Diversity Act, 2002; Biological Diversity Rules, 2004 and the Manipur Biological Diversity Rules, 2008; and also on the objectives, policies and programmes of the MBB, a training workshop was organized on October 28, 2009. The workshop highlighted the role of forest resources in biodiversity conservation as well as the duties and responsibilities of Nodal Officers, with special reference to biodiversity management in Manipur.

Till date six BMCs have been constituted by different local bodies in Manipur. In view of the different types of local bodies in the State, five formats i.e., three for valley (village panchayat, block panchayat, zila parishad) and two for hills (village authority and district council) have been constituted and approved by the board in its meeting held on 25.01.2010. The matter regarding the constitution of more BMCs in the State is being actively pursued.

In order to preserve TK for posterity; contesting bio-piracy; and future bio-prospecting, the MBB had taken a major initiative for documentation of TK associated with biodiversity and promotion of local health traditions in Manipur. Subsequently, the MBB

approached the Foundation for Revitalization of Local Health Tradition (FRLHT), Bengaluru, for project formulation for taking up the work of documenting and revitalizing local health traditions in collaboration with local scientific organizations, scientists, and NGOs.

The project entitled "Training in baseline survey, documentation, rapid assessment and promotion of local health traditions in selected locations of Manipur", has been formulated by FRLHT. It has three components, viz., capacity building; documenting TK in a scientific manner; and assessment of local health tradition. The documentation is to be undertaken by trained representatives of local communities and would remain as an asset of the communities. However, the documentation would be restricted to two or three communities only. The project is being funded by Department of AYUSH, Ministry of Health and Family Welfare, Government of India. The representatives of other communities trained under this project would be formulating their own projects with support from Department of AYUSH separately.

Department of AYUSH, Ministry of Health and Family Welfare, has approved the project and released ₹ 3 lakhs as first instalment to FRLHT, Bangalore. As a first step towards the implementation of the project a training workshop was jointly organised by the FRLHT, the State Forest Department, Government of Manipur and Manipur SBB on September 24 and 25, 2009 at Imphal on "Documentation of Traditional Knowledge associated with Biodiversity and Revitalization of Local Health Traditions in Manipur". It provided an opportunity for deliberations on all important aspects of the commercially important medicinal plants of the region and to work out a comprehensive strategy and an action plan to develop this sector to its full potential. The workshop was attended by 53 delegates representing the traditional healers, Civil Society groups like Apunba Manipur Maiba Maibi Phurup, Regional Institute of Medical Science (RIMS), Imphal, Institute of Bio-resources and Sustainable Development (IBSD), Imphal, State Forest Department, Manipur University etc. The next step of the project is to start the documentation.

MBB organised a "Buyer - Seller Meet" on February 22 and 23, 2010 in Imphal, in collaboration with the Institute of Bio-resources and Sustainable Development (IBSD). This was conducted to facilitate a platform to link the cultivators such as local medicinal and aromatic plant growers, entrepreneurs, representatives of AYUSH with the industries utilizing the bioresources such as Pharmexcil, Dabur, Himalayas, Natural Remedies, Century Products, Shree Dhanwantri Herbals, Herbal Research Consortium, Nandan Biomedics, Allen Laboratories Ltd. etc. This meet had helped in good understanding on the need for bioresources and strategies to enhance, harness and conserve the bioresources; to promote bioresource-based industrialization; capacity building of the local growers in primary processing of the medicinal and aromatic plants thereby enhancing the value of their produce, which in turn improve the safety standards and effectiveness of the drugs. Thus, increasing the cultivation of the commercially important bioresources, providing a sustainable livelihood to the local communities and enhancing the "green revenue" of the State.

3.10. Mizoram

The draft of Mizoram Biological Diversity Rules, 2008 has been sent to the Government in February, 2010, after incorporating the comments of Members. The board meeting was on April 21, 2009 and discussion on issues such as bio-piracy, inventory of the State's biodiversity and constitution of BMCs and PBRs, etc. were made. The board has constituted 234 BMCs in their state. However, these BMCs have to be re-structured in consonance with the new guidelines.

A two-day Trainer's Training for Protected Area Managers was conducted during October 28-29, 2009 at E & F Dept. Conference Hall in Aizwal on various topics including Biodiversity Conservation, Plants of High-Value and Biodiversity Areas in the State. The International Year of biodiversity 2010 was launched on 25.2.2010 by the Hon'ble Minister of Environment & Forests, Mizoram, and Chairman, MBB and the International Biodiversity Day was observed on May 22, 2009, at Champhai. In Champhai District on the theme 'Invasive Alien

Species' involving line departments such as Agricultural Department and the Deputy Commissioner of the district. The District Agricultural Officer was roped in as a Resources Person and the Target audience comprised of farmers and students.

The 55th National Wildlife Week 2009 was observed in all the territorial forest divisions of the state highlighting the importance of Biodiversity.

Discoveries:

- (a) Researchers from Mizoram University discovered a new species of megophryid frog of the genus *Leptolalax* from the Tamdil wetlands of Mizoram. *L. tamdil*, the new species, was compared with congeners from India and other parts of south-east Asia. This was published in the International Journal Zootaxa 2406: 57-68 (2010) dt. 23.3.2010.
- 
- (b) An addition to Indian butterfly fauna: *Elymnias obnubila*, i.e., Evan's Chestnut Palmfly, is found in Ngengpui Wildlife Sanctuary in southern Mizoram. The species has previously been recorded mainly from Ranong and Phuket in southern Thailand (Pinratana) and the distribution is generally given as S.Myanmar and S.Thailand (Inayoshi).
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3.11. Punjab

Punjab Biodiversity Board conducted its third meeting under the chairmanship of Shri. Parkash Singh Badal, Hon'ble Chief Minister, Punjab, on February 3, 2010.

PBB constituted 8 BMCs and TSGs at District level (SAS Nagar, Fatehgarh Sahib, Hoshiarpur, Ludhiana, Taran-Tarn, Bhatinda. Ferozpur, Amritsar) according to the provisions of Biological Diversity Act, 2002.

The Member Secretary of PBB was nominated as Member of Task Force (Expert Committee) for 'Preparation of guidelines on creating structures, running administration and maintaining of accounts and other related matters pertaining to Biodiversity Management committees, constituted by NBA.

A project titled "Inventorising Industries involved in exploitation of Biodiversity in Punjab" was taken up by Punjab Biodiversity Board. This will help to develop a database of the specific industries utilizing the bioresources, the details of the bioresources (except normally traded products) utilized and the information on biodiversity-based

'Biodiversity & Invasive Alien Species'. A number of awareness generation programmes were taken up.

3.12. Sikkim

Reconstitution of State Biodiversity Board is in progress, following which the issue of creation of posts for staff under SBB-Sikkim, notification of Expert Committee to assist SBB-Sikkim and some amendments of the Act and Rules is to be taken up.

Database creation of Biodiversity is underway and all Range Officers are given the task of checking the Nepali translation of PBR Draft prepared by



livelihoods in unorganized sectors. This programme is funded by NBA.

The PBB participated in the 4th Chandigarh Science Congress (CHASCON) which was held during March 19-20, 2010 at Punjab University, Chandigarh and exhibited various posters on biodiversity of Punjab, Biological Diversity Act and related issues for students/researchers and general public awareness.

International Biodiversity Day (2009) was celebrated on May 22, 2009 on the theme

Dr.Ghanashyam Sharma through Member Secretary SBB. The lists of Threatened Species of Flora and Fauna has been compiled.

Studies on biodiversity in Sikkim both past and present is being compiled. Capacity building programmes and workshops were conducted for sensitization, awareness and training related to biodiversity of Sikkim and conservation issues with local Environmental NGOs and other departments, media etc. The Sikkim Biodiversity Board collaborated with environmental NGOs such as TMI-India and Society for Better

Environment in programmes for mass awareness regarding Biodiversity, Access and Benefit Sharing and its sustainable use at Khamdong, Singtam, Central Pendam and surrounding villages and small local committees formed.

The Board has published two field guides with detailed colour photographs in collaboration with Botanical Survey of India (BSI) viz.,

- i. 'Mushrooms of Sikkim-1: Barsey Rhododendron Sanctuary' by Dr. Kanad Das and
- ii. 'Ferns and Fern-Allies of Sikkim by Dr. B. S. Kholia.

Both the books were released during Forest Centenary closing on December 2009 and International Rhododendron Festival & Conference in March-April 2010 by Hon'ble Chief Minister of Sikkim Dr. Pawan Chamling. Similarly, one more book titled 'Biodiversity of Raj Bhavan' was released through Dr. Asad Rahmani, Director BNHS.

International Biodiversity Day 2009 was celebrated involving Forest, Agri/Horti/Flori Dept, AHLF&VS Dept, EDCs and some local NGOs highlighting Invasive Alien Species and the role of government departments and individuals or institutions in their management and control. A meeting was organized in the Forest Conference Hall, including a session on stray and feral dog control issues by Sikkim Anti-Rabies and Animal health Association (SARAH) Division of the Department of Animal husbandry, Livestock, Fisheries and Veterinary Services (AHLF&VS). SBB organized local researchers meeting with Biodiversity Experts International Biodiversity Day 2009 was celebrated involving Forest, Agri/Horti/Flori Dept, AHLF&VS Dept, EDCs and some local NGOs highlighting Invasive Alien Species and the role of government departments and individuals or institutions in their management and control. A meeting was organized in the Forest Conference Hall, including a session on stray and feral dog control issues by Sikkim Anti-Rabies and Animal health Association (SARAH) Division of the Department of Animal husbandry, Livestock, Fisheries and Veterinary Services (AHLF&VS). SBB organized local researchers meeting with Biodiversity Experts from NCBS, Bengaluru; compiled, edited and published Forest Centenary Souvenir. It conducted two major Forest Centenary Mobile Photo Exhibitions at Saramsa, East Sikkim and

Yumthang, North Sikkim in collaboration with Namgyal Institute of tibetology's Dr. Anna Balikci-Denjongpa, Anthropologist. It assisted in the recognition of Centennial Butterfly Scarce Jester *Symbrenthia silana* and Centennial Tree White Cherry. It also helped in organization of hunt for "Heritage Tree".

The board has initiated the preparations for International Rhododendron Festival and Conference to be held in April 2010

3.13. Tamil Nadu

The Tamil Nadu Biodiversity Board was constituted under section 22 of the Biological Diversity Act, 2002 under the Chairmanship of the Hon'ble Minister of Tamil Nadu vide G.O.Ms.No.38/FR5/08 dated 29.4.2008. The first meeting of the Tamil Nadu Biodiversity board, has approved the formation of the sub-committee under the Chairmanship of the Principal Chief Conservator of Forests & Chief Wildlife Warden to submit report on the following.

- Preparation of the draft rules of the Tamil Nadu Biodiversity Board for government approval and notification.
- Identification of posts required for the Tamil Nadu Biodiversity Board.
- Identification of heritage sites outside the forest areas in Tamil Nadu.
- Formation of Biodiversity Management Committee at the level of local bodies
- Preparation of People's Biodiversity Register.

The revised draft rules of the Tamil Nadu Biodiversity Board has been prepared and sent to Government for approval and notification. The Government has sanctioned 8 posts vide G.O.Ms.No.44/FR5/09 dated 14.5.2009 for office of the Tamil Nadu Biodiversity Board. One post of Console Operator was filled up and other posts could not be filled up for want of surplus staff in the Forest Department. The Government was addressed to amend the Government Order to fill up the vacancies through deputation or transfer from other departments.

The Constitution of the Biodiversity Management Committee at the level of local bodies is in progress. Action is being taken to constitute 5 BMCs through the NGO, M.S.Swaminathan Research Foundation, Chennai and the work is in progress. Action is also being taken to constitute 3 BMCs through private institution and the work is in progress.

The list of threatened species was prepared and sent to Government of India for approval. The Tamil Nadu Government has approved the list of threatened plant and animal species.

The Sub-Committee has identified one important sacred grove in Tamil Nadu and further details, as per National Biodiversity Authority guidelines, are being gathered. The Tamil Nadu Biodiversity Board has received 11 applications for access to biological resources. Three applications were rejected and eight are under scrutiny.

The National Biodiversity Action Plan was communicated to all the field District Forest Officers for immediate follow up action.

The World Biodiversity Day was celebrated on May 22, 2009 jointly with the Department of Environment in the Anna University. A seminar was arranged on the subject "Invasive Alien species" and eminent scientists were invited to deliver the lectures. A rally and workshop was conducted in Ramanathapuram, jointly with the Gulf of Mannar Biosphere Reserve Trust and a booklet on invasive alien species was released by the Collector of Ramanathapuram District on that day. A workshop on "Invasive Alien Species" was chaired by District Superintendent of Police.

The Member Secretary has attended the joint meeting of the Member Secretaries of State Biodiversity Board at Kolkatta on May 10, 2009.

3.14. Tripura

The Governing Body of the Tripura Biodiversity Board (TBB) met thrice and conducted deliberations. The official website of TBB is finalized and will be launched shortly. The website address is: www.tripurabiodiversityboard.in. Seven BMCs were formed in four Blocks namely Mohanpur, Jirania, Dukli, Bishalgarh, Melagarh, Khowai and Bokafa. The MoU between Tripura JICA project and TBB has been finalized and signed for undertaking Biodiversity inventorization Component (costing ₹ 6 crores).

The meeting with the Non-Official members of TBB was held on June 19, 2009 and March 25, 2010. A special meeting was also held to discuss about celebration of IYB and International Day for Biological Diversity on May 17, 2010. Different events were organized to observe World Biodiversity Day, 2009.

Two issues of TBB Newsletter have been published so far and three Projects from TBB have been sent to Ministry of Environment & Forests for funding.

3.15. Uttar Pradesh

The third meeting of the UPSBB was held on December 8, 2009 and several major decisions were taken at the meeting. It formed one BMC in Saidapur Devkali in Lakhimpur Kheri district and prepared the PBR.

It celebrated the International day on Biological Diversity (IDB-2009) at the Ram Manohar Lohia National Law University Campus, Lucknow on May 22, 2009. As part of it, one-day national conference on "Invasive Alien Species" was organized with a participation of about 300 delegates drawn from several departments, various scientific disciplines and different stakeholders including NGOs.

UPSBB has supported two research projects during 2009-10. The first one is the "Survey, Mapping and Documentation of Floristic Diversity and Antiquity of Vegetation in Lucknow and Adjoining Areas", and the second is the "Baseline survey and mapping of microbial diversity of newly developed Kukrail Forest".

It has published two books- "Biodiversity of Aquatic and Semi-Aquatic Plants of Uttar Pradesh" and "Invasive Alien Species-2009". It has brought two quarterly e-newsletters (<http://www.upsbdb.org>) ; one covering October-December 2009, and the other covering January-March 2010. It took up field visits and tours to participate in various conferences and meetings associated with biological diversity conservation issues.

3.16. West Bengal

The West Bengal Biodiversity Board completed another year of successful implementation of the mandates of the Biological Diversity Act, 2002 and other allied Acts, Rules and Notifications under the guidance of Prof. A. K. Sharma, Chairman and Shri. Debal Ray, Member Secretary.

Two Biodiversity Management Committees (BMC) were constituted during 2009 - 2010- one at Basirhat - II Panchayat Samiti (P.S.) under the District North 24 Parganas and the other at Jiaganj

- Azimganj Municipality under the District Murshidabad. During the year, 21 BMCs has been constituted in the State.

The preparation of People's Biodiversity Register (PBR) exercise was already under progress under the above two BMCs constituted this year. The PBR exercise under the Basirhat - II P.S. at Kholapota Gram Panchayat (G.P.) and at Jiaganj-Azimganj Municipality was undertaken in the previous year through the initiative of local colleges. Moreover, the Board has initiated the preparation of PBR at 3 G.Ps of Sagar Island and 5 wards of Madhyamgram Municipality through grant of project to different NGOs for the same. Other than these, extension was granted to three more projects already involved in the PBR exercise for completing the documentation process in their entire respective G.P.s During the year, PBR exercises were being undertaken at the twenty one BMCs for preparing the PBRs of 28 G.P.s and 2 Municipalities; in addition 2 Universities, 7 Colleges, 6 Schools and 5 NGOs in the State were also involved in similar exercises. As such, fifty three PBRs have been initiated till date at G.P. and Municipality levels.

The West Bengal Biodiversity Board observed the International Biological Diversity Day 2009 by organizing a programme at Paribesh Bhawan, Salt Lake City, Kolkata on May 22, 2009. An exhibition of posters prepared by the research scholars of the West Bengal Biodiversity Board was

set up at Paribesh Bhawan. A short Bengali film on tribal rituals in biodiversity conservation was also screened during the day.

The Board was entrusted with the responsibility of arranging the 4th State Biodiversity Board Review Meeting at Kolkata by the NBA. The different State Boards met under the auspices of NBA at Kolkata. Various issues pertaining to the implementation of the Act, its relevance in the present scenario of WTO and TRIPS and the issues arising thereof, access and benefit sharing mechanism, synergy with other relevant Indian legislations and defining of specific roles in the implementation process were discussed in the said meeting that was held at the Park Hotel in Kolkata during September 10-11, 2009.

In an attempt to Synergize the Biological Diversity Act, 2002 and the Protection of Plant Varieties & Farmer's Right Act, 2001, the West Bengal Biodiversity Board in collaboration with the Bidhan Chandra Krishi Viswavidyalaya and the Agriculture Department, Government of West Bengal undertook to get Farmer's Variety Registration for 23 different traditional rice varieties from different districts of West Bengal by submitting relevant documents to the PPV & FR Authority, New Delhi, within the stipulated time.

Three Board Meetings were held during 2009-10.



International Day for Biological Diversity, 2009 celebrated by West Bengal Biodiversity Board



Inami Baag, Punjab – proposed BHS with large diversity of native mango species.

Annex-1 Members of the National Biodiversity Authority

The present members of the authority as per Section 8(4) of the Biological Diversity Act, 2002 are as under:

Chairperson: Dr P. L. Gautam, Chairman, National Biodiversity Authority, Chennai (*No 12, Part I, Sec 2 Gazette of India Weekly, New Delhi, March 21-27, 2009 page 291*).

Ex-Officio Members (*Letter No 28-16/2008-CS-III MoEF, dated 17 July 2008*)

Sl. No.	Ex-Officio Member	Represented by
1.	Joint Secretary or an officer of an equivalent rank to the Government of India in the Ministry of Tribal Affairs	Shri A.K.Srivastava, Director, Director, Min. of Tribal Affairs, Shastri Bhawan, New Delhi.
2.	Additional Director General (Forests), Ministry of Environment and Forests, Government of India	Shri P.B. Gangopadhyay, IFS, ADG (Forests), Ministry of Environment & Forests, Paryavaran Bhawan, New Delhi.
3.	Joint Secretary to the Government of India dealing with the subject in the Ministry of Environment and Forests	Shri A.K.Goyal, IFS, Joint Secretary (CS), Ministry of Environment & Forests, Paryavaran, Bhawan, New Delhi.
4.	Joint Secretary or an officer of an equivalent rank to the Government of India dealing with the subject in the Agricultural Research and Education, Ministry of Agriculture	Dr. Swapan Kumar Dutta Deputy Director General (Crop Science), ICAR, Krishi Bhawan, New Delhi.
5.	Joint Secretary or an officer of an equivalent rank to the Government of India dealing with the subject in the Department of Biotechnology	Dr. Renu Swarup, Advisor, Dept. of Biotechnology, CGO Complex, New Delhi.
6.	Joint Secretary or an officer of an equivalent rank to the Government of India dealing with the subject in the Department of Ocean Development	Shri P. Madeswaran, Director, Min. of Earth Sciences, CGO Complex, Lodhi Road, New Delhi.
7.	Joint Secretary or an officer of an equivalent rank to the Government of India dealing with the subject in the Department of Agriculture and Cooperation	Shri Pankaj Kumar, Joint Secretary (Plant Protection), Department of Agriculture & Cooperation, Krishi Bhawan, New Delhi.
8.	Joint Secretary or an officer of an equivalent rank to the Government of India dealing with the subject in the Department of Indian Systems of Medicine and Homoeopathy	Shri B.S. Sajwan, IFS, Chief Executive officer, National Medicinal Plants Board, Chandralok Building, New Delhi
9.	Joint Secretary or an officer of an equivalent rank to the Government of India dealing with the subject in the Department of Science and Technology	Dr. B. Harigopal, Advisor, Department of Science & Technology, Technology Bhawan, New Delhi
10.	Joint Secretary or an officer of an equivalent rank to the Government of India dealing with the subject in the Department of Scientific and Industrial Research	Dr. Naresh Kumar, Head, R&D Planning Division, CSIR, Rafi Marg, New Delhi.

Non-Official Members vide (*Notification S.O.389(E) dated 15th February, 2010*)

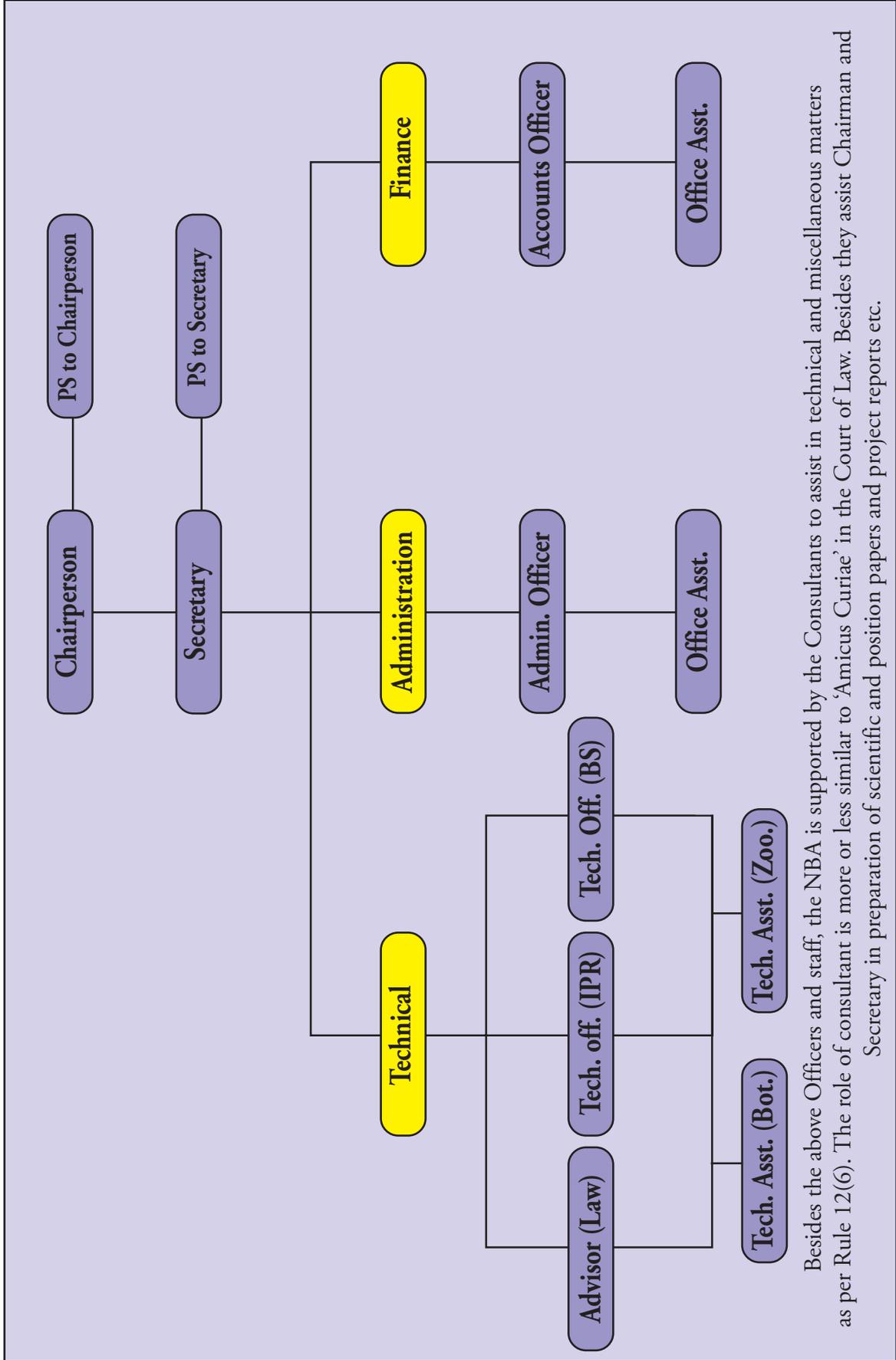
1. Dr. S. Subramaniam, reappointed since 22nd February 2010
54, VGP-Golden sea view,
Part II, 2nd Main Road,
Palavakkam, Chennai.
2. Dr.A.K.Ghosh, upto 21st February 2010
Director, Centre for Environment
& Development, Kolkatta.
3. Prof.Raghavendra Gadagkar, upto 21st February 2010
Centre for Ecological Science,
IISc, Bangalore.
4. Prof. Anil Gupta, upto 21st February 2010
Indian Institute of Management,
Ahmedabad.
5. Prof. K.Kathiresan, upto 21st February 2010
Centre for Advanced Study
in Marine Biology,
Annamalai University,
Parangipettai.
6. Dr. R.S. Rana, since 22nd February 2010
Chairman, Bio-Link,
D-43, Indraprastha Apartments,
Sector-14, Rohini,
New Delhi - 100 025
7. Dr. Uppaendra Dhar, since 22nd February 2010
11, SBI Apartments,
Near Eicher School,
Sector - 46, Faridabad-121002,
Haryana.
8. Dr.K.M. Bujarbaruah, since 22nd February 2010
Vice-Chancellor,
Assam Agricultural University,
Jorhat - 785 013.
9. Dr. Darshan Shankar, since 22nd February 2010
Advisor, FRLHT,
Chairman Institute of Ayurveda
and Integrated Medicine (IAIM),
74/2, Jarakabande Kaval,
Post Attur, Via Yelahanka,
Bengaluru - 560 064.

Secretary:

Shri C. Achalender Reddy, IFS.,

Annex-2

Organisational Chart of National Biodiversity Authority



Besides the above Officers and staff, the NBA is supported by the Consultants to assist in technical and miscellaneous matters as per Rule 12(6). The role of consultant is more or less similar to 'Amicus Curiae' in the Court of Law. Besides they assist Chairman and Secretary in preparation of scientific and position papers and project reports etc.

Annex-3**Staff Strength of NBA**

Position	Sanctioned	Filled	Vacant	Remarks
Chairperson	1	1	–	
Secretary	1	1	–	
PS to Chairperson	1	1	–	
PS to Secretary	1	1	–	
Administrative Officer	1	1	–	
Accounts Officer	1	1	–	
Technical Officer - IPR1 - Benefit sharing..1	2	1	1 (IPR)	Eligibility conditions for the post are under revision
Advisor (Law)	1	1	–	
Office/Computer Assistants	2	2	–	
Technical Assistants	2	2	–	
Stenographer "C"	1	1	–	
Stenographer "D"	1	–	1	Post being readvertised
Peon	1 (1 post surrendered as per MOEF Lr.No.20011/6/07-GC dated 13.4.07)	1	–	Two persons engaged through outsourcing
Total	16	14	2	

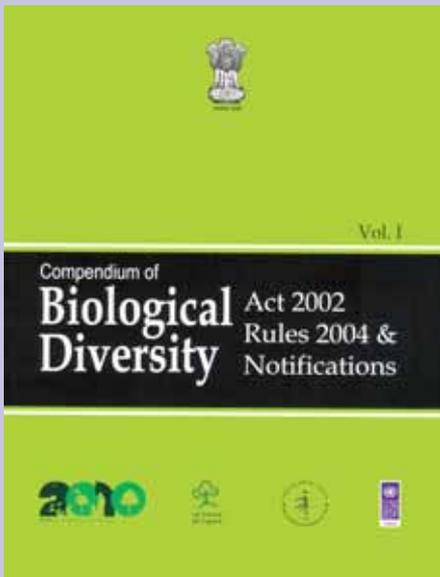
List of the Officers and Staff of NBA

No.	Person	Designation
1.	Dr. P. L. Gautam	Chairman
2.	Mr. C. Achalender Reddy	Secretary
3.	Mrs. S. Padmavathi	Administrative Officer
4.	Mrs. Lakshmi Sankararaman	Accounts Officer
5.	Mr. R. Ramesh	Private Secretary to Chairman
6.	Mr. K. Chitrrasu	Advisor (Law)
7.	Dr. K.P. Raghuram	Technical Officer (Benefit Sharing)
8.	Mrs. Shanthi Jayaraman	Private Secretary to Secretary
9.	Mr. P. Anandhakumar	Technical Assistant (Botany)
10.	Mr. P. Jaishankar	Technical Assistant (Zoology)
11.	Mr. D.Chezhian	Office/Computer Assistant
12.	Mrs. S. Kanchana	Office/Computer Assistant
13.	Mrs. G. S. Sheeba	Stenographer Grade C
14.	Mr. Surendra Ram	Group D

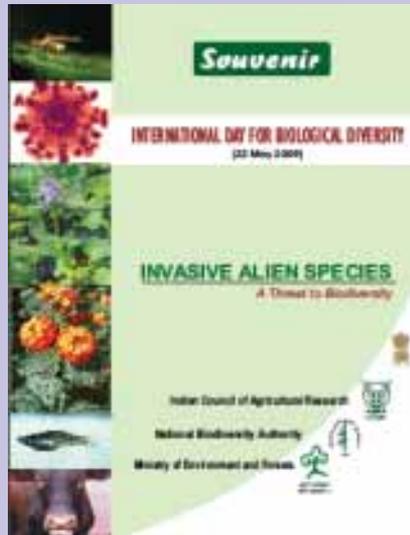
List of the Officers and Staff of SBB

No.	State	Chairperson	Secretary
1.	Andhra Pradesh	Dr. Hampaiiah Ralladoddi	Dr. V. Bhaskara Ramana Murthy
2.	Arunachal Pradesh	Shri. Tabom Bam	Shri. G.N. Sinha
3.	Chhattisgarh	Shri. Vikram Usaindi	Shri. N.K. Bhagat
4.	Goa	Shri. Alexio Sequeira	Shri. Joseph S.R. de Souza
5.	Gujarat	Shri. B.N. Srivastava	Shri. N.S. Yadav
6.	Haryana	Capt. Ajay Singh Yadav	Shri. T.L. Satyaprakash
7.	Himachal Pradesh	Mrs. Asha Swarup	Dr. Nagin Nanda
8.	Jharkhand	Shri. A.K. Singh	Shri. S.K. Sharma
9.	Karnataka	Shri. Krishna Palmer	Dr. Ramesh C Prajapathi
10.	Kerala	Dr. V. S. Vijayan	Shri. G. Rajeev
11.	Madhya Pradesh	Shri. Avani Vaish	Shri. Sudhir Kumar
12.	Manipur	Shri. D.S.Poonia	Dr. Bala Prasad
13.	Mizoram	Shri. H. Rohluna	Shri. L.R. Thanga
14.	Nagaland	Hon'ble Minister for Forests	Shri. Albert Solo
15.	Orissa	Shri. Auriben Behera	Shri. B.P. Singh
16.	Punjab	Shri. Parkash Singh Badal	Dr. Neelima Jerath
17.	Sikkim	Dr. Pawan Chamling	Shri. N.T. Bhutia
18.	Tamil Nadu	Shri. N. Selvaraj	Dr. Gunasekaran
19.	Tripura	Dr. S.K. Panda	Dr. A.K. Gupta
20.	Uttarakhand	Dr. Burfal	Shri. Jai Raj
21.	Uttar Pradesh	Shri. Chanchal Kumar Tiwari	Shri. Pawan Kumar
22.	West Bengal	Prof. Arun Kumar Sharma	Shri. Debal Ray

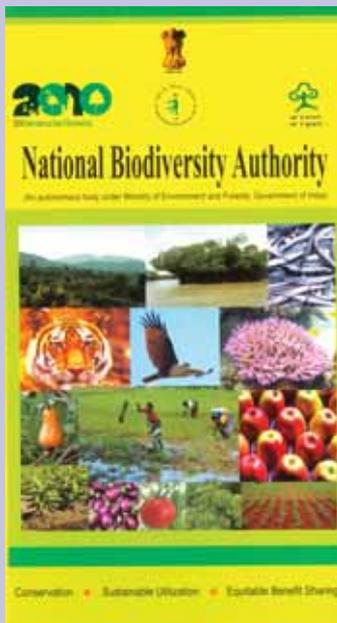
Annex-4 Important Publications of NBA



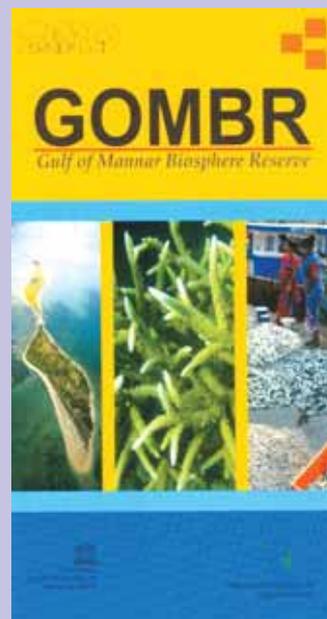
Compendium of Biological Diversity Act 2002, Rules 2004 & Notifications



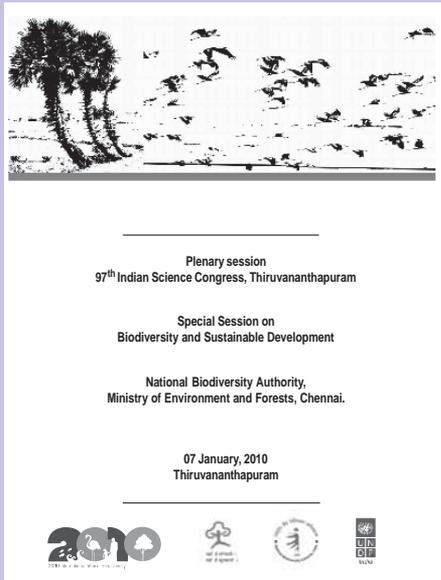
Souvenir on Invasive Alien Species



Flier on National Biodiversity Authority



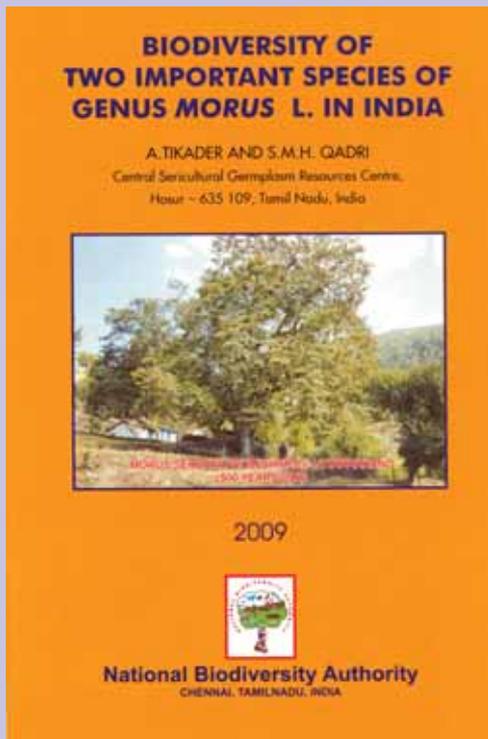
Flier on Gulf of Mannar Biosphere Reserve



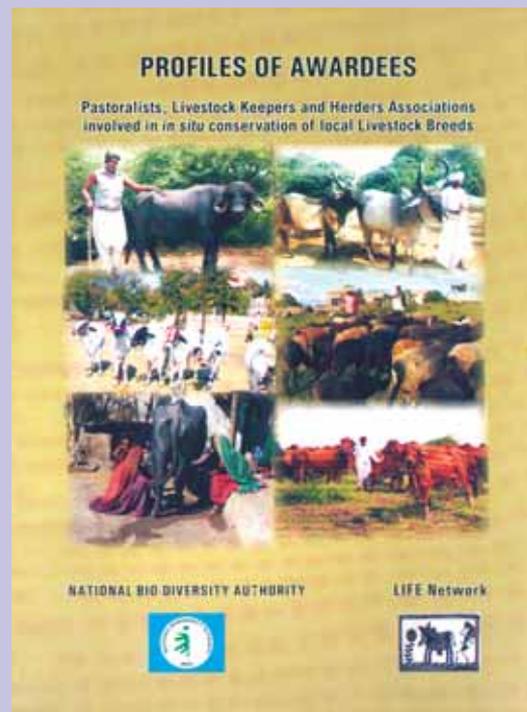
Abstract for the Plenary session on Biodiversity and Sustainable Development, 97th Indian Science Congress held on 7th Jan 2010 at Kerala



A film on Alien Invasive species "Deadly Neighbours"



Biodiversity of two important species of Genus *Morus* L. in India



Profiles of Awardees - pastoralists, livestock keepers and herders associations involved in *in situ* conservation of local livestock breeds

Annex-5 Support extended for trainings/seminars/workshops etc.

Sl. No.	Institution	Theme
1.	Tripura Biodiversity Board.	Celebration of International day for Biological Diversity.
2.	National Bureau of Plant Genetic Resources, New Delhi.	Celebration of International day for Biological Diversity.
3.	West Bengal Biodiversity Board.	Celebration of International day for Biological Diversity.
4.	Kerala Biodiversity Board.	Celebration of International day for Biological Diversity.
5.	Andhra Pradesh Biodiversity Board.	Celebration of International day for Biological Diversity.
6.	Himachal Biodiversity Board.	Celebration of International day for Biological Diversity.
7.	Soil Conservation Society of India, New Delhi.	National Conference on challenge and opportunity of Bio- Industrial watershed Development for the Prosperity of the Farming Community.
8.	National Institute of Ocean Technology, Chennai.	International conference on Recent advances in lobster biology aquaculture and management.
9.	Dr. Jay G. Varshney, Director, Directorate of Weed Science Research, ICAR, Jabalpur.	National Symposium on "Weeds threat to environment, biodiversity and agricultural productivity".
10.	Thanal, Thiruvananthapuram, Kerala.	Organising 2nd National Consultation on IPR and TK.
11.	Thanal, Thiruvananthapuram, Kerala.	Consultation meeting to draft the "Suigeneris for Protection for TK related to Biodiversity" at New Delhi.
12.	Loyola College, Chennai.	Organizing United National Environment Programme and International Coastal Clean up 2009 and ECO Movement to evolve Ecology and Human Solidarity Tasks Force.
13.	Indian society of Genetics & Plant Breeding, New Delhi.	Organizing a National seminar on Designing Crops for the Changing Climate.
14.	Andhra University, Visakhapatnam.	National Conference on "Biodiversity Conservation and Management of Bioresources".
15.	Madras Veterinary College, Chennai.	International Conference on Wild Conservation, Health and Disease Management.
16.	Central Institute of Fisheries Education ICAR, Mumbai.	National seminar of Bioresources and its management for Food, Livelihood and Environment Security & National Helminthological Congress.
17.	Trust for Environment, Conservation & Community Development (TREE), Chennai.	Marine Biodiversity Conservation Awareness Mela.
18.	P.G.College Bilaspur, Chhattisgarh.	International Conference on Land Use changes, Biodiversity and sustainable resource management.
19.	Sustainable Agriculture & Environment Voluntary Action (SEVA)	Project for enhancing community level conservation of animals breeds through recognition, reward and networking.

Annex-6

NBA: Citizen's Charter

1. Vision

Conservation and sustainable use of India's rich biodiversity and associated knowledge with people's participation, ensuring the process of benefit sharing for well-being of present and future generations.

2. Mission

Ensure effective implementation of Biological Diversity Act, 2002 and the Biological Diversity Rules, 2004 for conservation of biodiversity, sustainable use of its components and fair and equitable sharing of benefits arising out of utilisation of genetic resources.

3. Mandate

Reaffirm the sovereign rights over the bioresources of India and contribute towards prevention of misappropriation of bioresources and/or associated knowledge.

Provide policy and support relating to conservation, sustainable use of its components and equitable sharing of benefits arising out of utilisation of biological resources.

Regulate activities by formulation of guidelines, extension materials for access to biological resources and for reaching the stakeholders and ensuring fair and equitable benefit sharing in accordance with the provisions of the Biological Diversity Act, 2002.

Take measures to oppose the grant of intellectual property rights to persons in other countries on any biological resource of India or knowledge associated with such biological resources of Indian Origin.

Advise the State Governments concerning their area specific biodiversity, and in notifying heritage sites and also suggest measures for their management and sustainable use.

Provide guidance and technical and financial support to Biodiversity Management Committees (BMC) for preparing People's Biodiversity Registers (PBR) in the areas falling under their respective jurisdiction.

Perform such other functions as may be necessary to implement the provisions of Biological Diversity Act, 2002.

4. Stakeholders

Biodiversity is a multidisciplinary subject involving diverse activities, initiatives and stakeholders. The stakeholders in biological diversity include the Central Government, State Governments, Union Territories,

Institutions of Panchayat Raj and Civil Society Organisations, Industries, NGOs, Research and Development Institutions, Universities and public at large.

5. Services Offered

Promotion of Conservation and sustainable use of biodiversity.

Co-ordination of the activities of the State Biodiversity Boards and Biodiversity Management Committees, sponsor studies and adaptive/ operational investigation and research by providing technical guidance, and Commissioning of studies as found necessary.

Advise Government of India on matters relating to conservation of biodiversity, sustainable use of its components and equitable sharing of benefits of biological resources.

Grant approval for access to biological resources occurring in India or associated knowledge, for transferring the results of research, seeking intellectual property right, third party transfer of accessed bioresource for research or for commercial utilisation or for bio-survey and bio-utilisation.

Facilitate access to bioresource by all stakeholders and ensuring equitable benefit sharing between users and conservers of biodiversity in a transparent manner.

6. Grievances Redressal Mechanism

Secretary, National Biodiversity Authority is the designated Officer for Re-dressal of Public Grievances and can be addressed to:

The Secretary,
National Biodiversity Authority,
TICEL Bio Park
5th Floor, Taramani Road,
Taramani, Chennai - 600 113.
Phone : 044-2254 1071 ;
Fax : 044-2254 1074
email : secretary@nbaindia.in

7. Expectations from the citizens/clients

To abide by the provisions of Biological Diversity Act, 2002 and rules made there under and imbibe and promote the spirit of conservation of natural resources and respect for the laws of nature and extend cooperation for carrying out the above activities by NBA and SBBs in the overall interest of human kind.

Separate Audit Report of the Comptroller & Auditor General of India on the Accounts of National Biodiversity Authority, Chennai for the year ended 31 March 2010.

We have audited the attached Balance Sheet of National Biodiversity Authority, Chennai as at 31 March 2010 and Income & Expenditure Account / Receipts & Payments Account for the year ended on that date under Section 19(2) of the Comptroller & Auditor General's (Duties, Powers & Conditions of Service) Act, 1971 read with 29(2) of Biological Diversity Act, 2002. These financial statements are the responsibility of the National Biodiversity Authority, Chennai's management. Our responsibility is to express an opinion on these financial statements based on our audit.

2. This separate Audit Report contains the comments of the Comptroller & Auditor General of India (CAG) on the accounting treatment only with regard to classification, conformity with the best accounting practices, accounting standards and disclosure norms, etc., Audit observations on financial transactions with regard to compliance with the Law, Rules & Regulations (Propriety and Regularity) and efficiency-cum-performance aspects, etc., if any, are reported through Inspection Reports/CAG's Audit Reports separately.

3. We have conducted our audit in accordance with auditing standards generally accepted in India. These standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatements. An audit includes examining, on a test basis, evidences supporting the amounts and disclosure in the financial statements. An Audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of financial statements. We believe that our audit provides a reasonable basis for our opinion.

4. Based on our audit, we report that
- i) We have obtained all the information and explanations, which to the best of our knowledge and belief were necessary for the purpose of our audit.
 - ii) The Balance Sheet and Income & Expenditure Account/Receipts & Payments Account dealt with by this report have been drawn up in the format approved by the Ministry of Finance.
 - iii) In our opinion, proper books of accounts and other relevant records have been maintained by the National Biodiversity Authority, Chennai as required under Rule 29(2) of Biological Diversity Act, 2002
 - iv) in so far as it appears from our examination of such books.
 - v) we further report that

A Income & Expenditure Account

1. Grants to SBBs/ BMCs.

An amount of Rs.19,40,783/- has been released to SBBs/ BMCs during the year 2009-10, whereas only Rs.5.00 lakh has been depicted in Schedule 22 – Expenditure on Grants, subsidies, etc, the balance being depicted in Schedule 21 – Other Administrative Expenses, etc. as Funding for Project/ Awareness Programme.

This resulted in understatement of Expenditure on Grants and overstatement of Administrative Expenses to an extent of Rs.14,40,783/-.

B. Grants-in-aid

Out of the grants in aid of Rs.2.97 Crore received during the year, (including Rs.0.35 crore received in Mar'10) the organization could utilize a sum of Rs.2.97 crore leaving Nil balance as unutilized grant as on 31 March 2010.

C. Management letter

Deficiencies which have not been included in the Audit Report have been brought to the notice of the Chairman National Biodiversity Authority Chennai through a management letter issued separately for remedial/corrective action.

(v) Subject to our observations in the preceding paragraphs we report that the Balance Sheet, Income & Expenditure Account and Receipts & Payments Account dealt with by this report are in agreement with the books of accounts.

(vi) In our opinion and to the best of our information and according to the explanations given to us, the said financial statements read together with the Accounting Policies and Notes on Accounts, and subject to the significant matters stated above and other matters mentioned in Annexure to the Audit Report give a true and fair view in conformity with accounting principles generally accepted in India.

- a. In so far as it relates to the Balance Sheet, of the state of affairs of the National Biodiversity Authority, Chennai as at 31 March 2010 and
- b. In so far as it relates to Income & Expenditure Account of deficit for the year ended on that date.

For and on behalf of the C& AG of India



Principal Director of Audit
(Scientific Departments)

Place : New Delhi
Date : 23-12-2010

Annexure-I to Audit Report

1. **Adequacy of Internal Audit System:** The Internal Audit System was adequate.
2. **Adequacy of Internal Control System :** Adequate internal control system existed in National Biodiversity Authority, Chennai.
3. **System of physical verification of fixed assets :** Physical verification of fixed assets for 2009-10 have been conducted by NBA management and no material deficiencies were noticed during the verification.
4. **System of physical verification of inventory:** Physical verification of inventory has been conducted by NBA at reasonable intervals.
5. **Regularity in payment of statutory dues :** Though NBA had eight staff members covered under the New Pension Scheme, and were recovering the NPS contribution every month from them, NBA had neither registered with National Securities Depository Limited (NSDL) which was appointed as the Central Record Keeping Agency (CRA) nor deposited the contribution amounts to the NSDL, but was retaining the amounts in a separate bank account.



DIRECTOR (EA)

List of Abbreviations used

ADMA	: Ayurvedic Drug Manufacturers Association
ATREE	: Ashoka Trust for Research in Ecology and The Environment
AYUSH	: Ayurveda, Yoga & Naturopathy, Unani, Siddha and Homoeopathy
BD Act	: Biological Diversity Act
BHS	: Biodiversity Heritage Site
BMC	: Biodiversity Management Committees
BSI	: Botanical Survey of India
BSNL	: Bharat Sanchar Nigam Limited
CAMPA	: Compensatory Afforestation Fund Management and Planning Authority
CBD	: Convention on Biological Diversity
CMFRI	: Central Marine Fisheries Research Institute
CSIR	: Council for Scientific and Industrial Research
DARE	: Department of Agricultural and Research Education
DFO	: District Forest Officer
DGFT	: Director General of Foreign Trade
DNR	: Designated National Repository
EC	: Expert Committee
EDC	: Eco Development Committee
FRLHT	: Foundation for Rehabilitation of Local Health Tradition
GBIF	: Global Biodiversity Information Facility Foundation
GEER	: Gujarat Ecological Education and Research Foundation
GEF	: Global Environment Facility
GOI	: Government of India
IARI	: Indian Agricultural Research Institute
IBIS	: Indian Biodiversity Information System
IDB	: International Day for Biological Diversity
ICAR	: Indian Council of Agricultural Research
IMTECH	: Institute of Microbial Technology
IISc	: Indian Institute of Science
IPR	: Intellectual Property Right
ISRO	: Indian Space Research Organisation
ITC(HS)	: Indian Trade Classification (harmonised system)
IYB 2010	: International Year of Biodiversity 2010
JICA	: Japan International Corporation Agency
KFD	: Karnataka Forest Department
LMMC	: Like Minded Mega Diverse Countries
MPCOST	: Madhya Pradesh Council of Science and Technology
MoEF	: Ministry of Environment and Forests
MoU	: Memorandum of Understanding
NBA	: National Biodiversity Authority
NBAGR	: National Bureau of Animal Genetic Resources
NBPGR	: National Bureau of Plant Genetic Resources
NGC	: National Green Corps Programme
NTC	: Normally Traded Commodities
PAU	: Punjab Agricultural University
PBR	: People Biodiversity Register
PPV&FRA	: The Protection of Plant Varieties and Farmers' Rights Authority
RET	: Rare, Endangered and Threatened Species
SBB	: State Biodiversity Board
SACON	: Salim Ali Centre for Ornithology and Natural History
SACRTF	: South Asia Coral Reef Task Force
SACEF	: South Asia Co-operative Environment Programme
UT	: Union Territory
UNESCO	: United Nations Educational, Scientific and Cultural Organisation
UNEP	: United Nations Environment Programme
WGEEP	: Western Ghats Ecology Expert Panel

