Annual Report

2009-10

Indopiptadenia oudhensis

U.P. State Biodiversity Board

Lucknow

Contents

Introduction

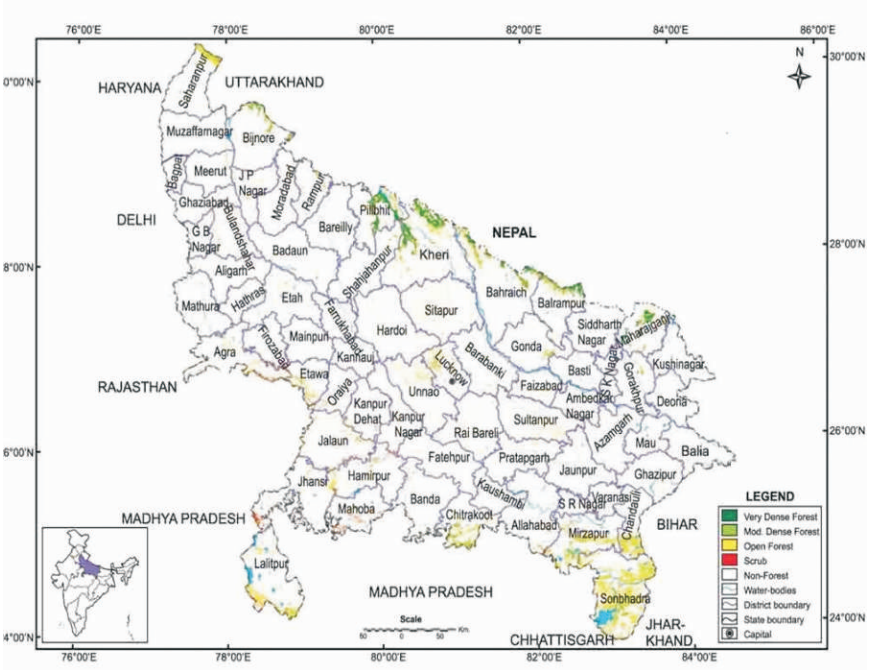
The State of Uttar Pradesh has a geographical area of 240,928 Km2 which is 7.3% of the total area of the country. Population of this State is 166.05 million (Census 2001) constituting 16.2% of country's population. The livestock population to the State is 58.53 million (livestock census 2003) which is the largest in the country and 12% of the country's total livestock.

Forest cover map of Uttar Pradesh

The tree cover in the State is 7381 Km^2 and the forest cover is 14,341 Km^2. Thus, the forest and tree cover together are 21,722 Km^2 which is 9.01% of the total geographical area of the State.

The Biological Diversity Act 2002 No. 18 of 2003 was passed on 5th February, 2003. The Act provides for conservation of biological diversity, sustainable use of its components and fair and equitable sharing of the benefits arising out of the use of biological resources, knowledge and for matters connected therewith or incidental thereto.

As per the Act, each state is to establish State Biodiversity Board under Section 22 of the Act. Accordingly the Govt. of Uttar Pradesh has established the Board vide G.O. No. 1498/14-5-2006-57/2006 dated: 20 September, 2006 and it has started functioning from 20 September 2006.



Constitution of Board

The Board consists of the following members :

1.	Principal Secretary, Forest Department, Government of Uttar Pradesh	Chairman
2.	Nominee of Principal Secretary/Secretary, Environment Department, Government of Uttar Pradesh	Member
3.	Nominee of Principal Secretary/Secretary, Horticulture Department, Government of Uttar Pradesh	Member
4.	Nominee of Principal Secretary/Secretary, Agriculture Department Government of Uttar Pradesh	Member
5	Nominee of Principal Secretary/Secretary, Animal Husbandry Department, Government of Uttar Pradesh	Member
6-	Principal Chief Conservator of Forests, Uttar Pradesh	Member
7 to 11	Five Specialist Members	Specialist Members

a. Committees made by Board

Five Expert Members were nominated vide GO No. 64/14-5-2007-57/2006 dated: 11 January, 2007 which are as follows :

1.	**Dr. Nityanand**, Ex-Director, Central Drug Research Institute, Lucknow Lumbini, B-62, Nirala Nagar, Lucknow- 226 020	Specialist Member
2.	**Dr. Rakesh Tuli**, Director, National Botanical Research Institute, Rana Pratap Marg, Lucknow- 226 001	Specialist Member
3.	**Dr. S. K. Singh**, Ex-Prof. and H.O.D. Botany Department, Gorakhpur University, Village and Post-Jagdishpur, District- Jaunpur	Specialist Member
4.	**Srl. A. N. Chaturvedl**, Ex- Addl. PCCF (Research) U.P. 202, Priyanka Apartment, Jopling Road Lucknow- 226 001	Specialist Member
5.	**Dr. K. Dev Singh**, Director, Central Tobaco Research Institute, ICAR (Rajamundry-533105, Andhra Pradesh)	Specialist Member

During the year 2009-10 the board has constituted following committees :

1. Committee of scientists for Biodiversity Park guidance

a) Prof. J. S. Singh, Ex-Prof. B.H.U., Varanasi

b) Dr. Rakesh Tuli, Director, N.B.R.I, Lucknow

c) Dr. W. S. Lakra, Director, N.B.F.G.R., Lucknow

d) Dr. S.C. Sharma, Vice President, I.S.E.B.

e) Dr. D.C. Saini, Scientist, B.S.I.P., Lucknow

f) Dr. Omkar, Reader, Zoology Department, Lucknow University

h) Dr. Neelam Pathak, Integral University, Lucknow

2. Scientist/Expert Committee for Scientific Input

a) Prof. J. S. Singh, Ex- Prof. B.H.U. Varanasi

b) Dr. Rakesh Tuli, Director, N.B.R.I, Lucknow

c) Dr. W. S. Lakra, Director, N.B.F.G.R., Lucknow

d) Dr. S. C. Sharma, Vice President, I.S.E.B.

e) Dr. P. K. Singh, Registrar, Authority of Plant Variety Protection and Formers Rights, New Delhi

f) Dr. D. K. Pandey, Sr. Scientist, Indian Institute of Sugarcane Research, Lucknow

h) Dr. Meera Singh, Lecturer, Lucknow University, Lucknow

3. Editorial Board for publication of e-magazine of UPSBB

a) Dr. D. C. Saini, Scientist, B.S.I.P., Lucknow

b) Prof. H. B. Singh, Agriculture Science Department, B.H.U., Varanasi

c) Dr. Rakesh Pandey, Scientist E-1, CIMAP, Lucknow

d) Sri Radhey Krishna Dubey, Assistant Conservator of Forest, U.P. State Biodiversity Board, Lucknow

The third meeting of Uttar Pradesh State Biodiversity Board was held on 08-12-2009 under the chairmanship of Principal Secretary (Forests)/Chairman, UPSBB in the Meeting Hall of U.P.State Pollution Control Board, PICUP Bhawan, Lucknow. The following members/officers were present in the said meeting:

S. No	Name	Designation
1	Shri Chanchal Kumar Tewary, IAS	Principal Secretary (Forests) and Chairman, UPSBB
2	Shri Pawan Kumar, IFS	Secretary (Forests) and Secretary, UPSBB
3	Shri D. N. S. Suman, IFS	Principal Chief Conservator of Forests, U.P. and Member U.P.State Biodiversity Board
4	Shri Dinesh Kumar	Deputy Secretary, Environment,U.P.
5	Dr. Shiv Prasad	Director, Deptt. of Fisheries, U.P.
6	Shri Chandrika Prasad Tiwari	Special Secretary, Horticulture, U.P.
7	Dr. Nityanand	Ex-Director, CDRI, Lucknow and Member UPSBB
8	Shri A. N. Chaturvedi	IFS Retd. and Member, UPSBB
9	Dr. Rakesh Tuli	Director, NBRI, Lucknow
10	Ms. Indrani Lal	Under Secretary, Finance, U.P.
11	Sh. M. C. Saxena	F.D.O., Deptt of Animal Husbandry, U.P.
12	Prof. S.K.Singh	Member, UPSBB
13	Dr. D. C. Saini	Sr. Scientist, Birbal Sahni Institute of Paleobotany, Lucknow
14	Dr. Neelam Pathak	Assistant Professor, Integral University, Lucknow
15	Dr. Smita Rastogi	Assistant Professor, Integral University, Lucknow
16	Shri A. P. Tripathi	DFO, Gorakhpur
17	Sh. Amar Nath Upadhyaya	Under Secretary, Agriculture, U.P.
18	Sh. Achchney Lal	Review Officer
19	Sh. R. K. Dubey	Astt. Conservator of Forests, UPSBB

Board Meeting

The following major decisions were taken in the meeting:

(i) Board unanimously decided to include names of some more eminent scientists/experts in the scientific committee already constituted for framing guidelines for constructing Biodiversity Parks and for providing scientific inputs to the Biodiversity Parks and other projects.

(ii) Board decided to delete the word 'Renovation' from the budget proposals and to engage security guards and vehicle drivers on contract basis through service providing agencies only. Mobile bill payments with a maximum ceiling of Rs 400 were also approved for staff.

(iii) Board approved the proposals for printing of two coloured flora books in 500 copies each from Govt. press at the rates countersigned by the Directorate of Information and Publicity, U.P. The Board also decided to sell the books by taking 30% profit on the capital cost and allowing discount of 30% on the sale cost to the book sellers.

(iv) Board approved the proposal for opening of a sale counter of UPSBB publications and inclusion of the books of other publishers also on the sale counter by depositing 10% of the sales proceeds into the Board Accounts.

(v) A quarterly e-News Letter is to be published by the Board and put up on the website www.upsbdb.org

(vi) Uttar Pradesh State Biodiversity Board may coordinate with National Bureau of Agriculturally Important Microorganisms, Mau, U.P.

Activities

The activities taken up by the U. P. State Biodiversity Board during the year 2009-10 were as follows :

1. Formation of Biodiversity Management Committees (BMCs)

One BMC has been formed Saidapur Devkali in the district of Lakhimpur kheri in the Tarai Agro climatic zone.

Name of the Panchayat Samiti	:	Saidapur Devkali
Taluk/ Block	:	Lakhimpur
District	:	Lakhimpur-Kheri
State	:	Uttar Pradesh
Geographical Area of the Panchayat Samiti	:	575.053 Ha.
Population under the Panchayat Samiti		
Total	:	4351
Male	:	2308
Female	:	2043

Details of Biodiversity Management Committee (BMC) of the Panchayat Saidapur Devkali

1) Name of the Chairperson : Sri Yasheen Mohamad
Age : 35 Years
Gender : Male
Address : Saidapur Devkali

2) Name : Sri Ambrish
Age : 31 Years
Gender : Male
Address : Saidapur, Majra Saidapur
Area of specialization : Devkali
Agriculture

3) Name : Sri Mobeen Mohamad
Age : 31 Years
Gender : Male
Address : Ghosiyana, Majra Saidapur
Area of specialization : Devkali Dairy farming/ Agriculture

4) Name : Sri Rafiq Ahmad
Age : 36 Years
Gender : Male
Address : Ghosiyana, Majra Saidapur Devkali
Area of specialization : Dairy farming/ Agriculture

5) Name : Km Rufi
Age : 19 Years
Gender : Female
Address : Ghosiyana, Majra Saidapur Devkali
Area of specialization : Dairy farming/ Agriculture

6) Name : Km Nazrana
Age : 20 Years
Gender : Female
Address : Ghosiyana, Majra Saidapur Devkali
Area of specialization : Dairy farming/ Agriculture

7) Name : Sri Badlu
Age : 30 Years
Gender : Male
Address : Saidapur, Majra Saidapur Devkali
Area of specialization : Rice Milling Industry

2. Preparation of Peoples Biodiversity Register (PBR)

In addition to regular visits to the village by the UPSBB Staff, the following visits were organized for preparation of People's Biodiversity register:

Saidapur Devkali in the district of Lakhimpur kheri on :

- **15 October 2009 :** Shri Ashok Kashyap, Dy. Ranger and Shri Satyendra Bahadur Singh, Forest guard both from the UPSBB visited the village and facilitated the process of formation of BMC.
- **1st December 2009** : Second visit by specialists and UPSBB team consisting of Shri. R. K. Dubey, ACF, Shri Ashok Kashyap, Dy RO, Forester and Shri Satyendra Bahadur Singh, FG from UPSBB and Dr VP Singh, Head of Zoology Department, Y. D. College, Lakhimpur Kheri, Dr. Sunil Tripathi, Botany Department, Y. D. College, Lakhimpur Kheri, Dr. D. C. Saini from BSIP visited the area and along with villagers did the exercise of identifying flora and fauna.
- **6th - 8th December 2009** : visit by specialists and UPSBB team consisting of Shri R. K. Dubey, ACF, Shri Ashok Kashyap, Dy RO, Shri Santosh, Forester and Shri Satyendra Bahadur Singh, FG from UPSBB and Dr. V. P. Singh, Head of Zoology Department, Y. D. College, Lakhimpur Kheri, Dr. Sunil Tripathi, Botany Department, Y. D. College, Lakhimpur Kheri, Dr. D. C. Saini from BSIP visited the area and along with villagers did the exercise of identifying flora and fauna.
- **23 Feb. 2010 :** visit by specialists and UPSBB team consisting of Shri. R. K. Dubey, ACF, Shri Ashok Kashyap, Dy RO and Shri Satyendra Bahadur Singh, FG from UPSBB and Dr. V. P. Singh , Head of Zoology department, Y. D. College, Lakhimpur Kheri, Dr. Sunil Tripathi, Botany Department, Y. D. College, Lakhimpur Kheri, Dr. D. C. Saini from BSIP visited the area and along with villagers did the exercise of identifying flora and fauna.

Preparation of People's Biodiversity Register at the village of Saidapur Devkali (Lakhimpur Kheri District)

Staff members of UPSBB with Knowledge holders of Village Saidapur Devkali

Village resource persons and BMC members of Saidapur Devkali with Board Staff

Members of BMC

Gram Pradhan and Knowledge holders of Village Saidapur Devkali with Board Staff

Simian friends having fun with cattle!

3. International Day for Biological Diversity-2009 Celebration and National Conference on "Invasive Alien Species" organized by U.P. State Biodiversity Board, Lucknow

Uttar Pradesh State Biodiversity Board celebrated the International day on Biological Diversity (IDB-2009) on 22-05-2009 at Dr. Ram Manohar Lohia National Law University Campus, Lucknow. On this occasion, one day National Conference on "Invasive Alien Species" was also organized in which approx. 300 delegates including various research organization/ institute, Universities, Officers from U.P. State Forests Department and other states as well NGO's etc participated. The conference was inaugurated by the Hon'ble Minister for Forests, U.P. Shri Fateh Bahadur Singh. The Guests of Honour for this event were Padamshree Prof. Ram Badan Singh, Ex-ADG and former member, National Farmers Commission, Govt of India and Dr. A. K. Ghosh, Ex. Director, Zoological Survey of India, Kolkata. Dr. R. B. Singh gave the key-note address.

Shri Parmeshwaran Aiyer, Principal Secretary (Forests) and Chairman, U.P.State Biodiversity Board, in his talk stated that biodiversity conservation is directly linked with our livelihood. It is our prime responsibility to conserve biodiversity on priority for sustainable use of bioresources.

Speaking on this occasion, Secretary of the U. P. State Biodiversity Board, Sri Pawan Kumar informed about the objectives of the conference and stressed the need to create awareness among the masses for the Invasive Alien Species to overcome their perceptible impacts on ecosystems, community and above all the economy of the nation.

Prof. Balraj Chauhan, Vice Chancellor of RML National Law University, Lucknow in his lecture informed that we have ample of literature regarding knowledge of traditional medicines, natural resource conservation etc. The need of the hour is to strengthen the same legally and economically for sustainable development.

Honorable Minister of Forests Shri Fateh Bahadur Singh, PCCF UP Shri DNS Suman and Dr.Balraj Chauhan, VC DR.RML National Law University

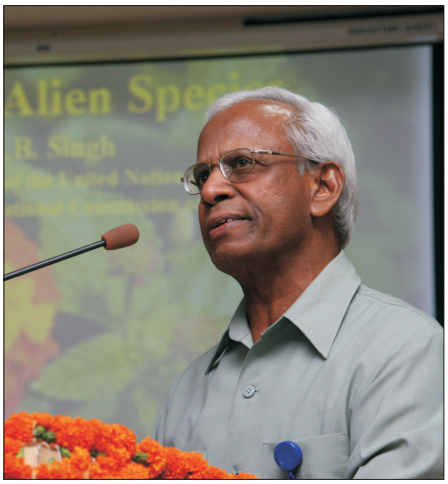
Shri. Pawan Kumar, Secretary UP State Biodiversity Board

There were three technical sessions of the conference in which the following guest speakers from different organizations of the country delivered their valuable views on "Invasive Alien Species".

1. Sri. Asad Rehmani, Director, Bombay Natural History Society, Mumbai spoke on invasive bird species.
2. Dr. C. S. Jha, National Remote Sensing Centre, Hyderabad, ISRO spoke on IAS and its mapping using remote sensing and GIS.
3. Sri. Manoj Singh, Rural Development Commissioner, U.P.
4. Shri. Pawan Kumar, Secretary Biodiversity Board
5. Prof. Satyadev Dev Dwivedi, Banaras Hindu University, Varanasi.
6. Dr. K. K. Khanna, Jt. Director, Botanical Survey of India, Allahabad gave a presentation on the floristic diverstiy vis-a-vis invasive alien species in U.P.
7. Dr. A. K. Singh from National Bureau of Fish Genetic Resources, Lucknow, U.P. spoke on alien fish species in India
8. Dr. S. P. Singh, Ex. Director-Research, A.N.D. Agriculture University, Faizabad. U.P.
9. Dr. Neelam Pathak, Reader, Integral University, Lucknow gave a talk on genetecaly modified crops.

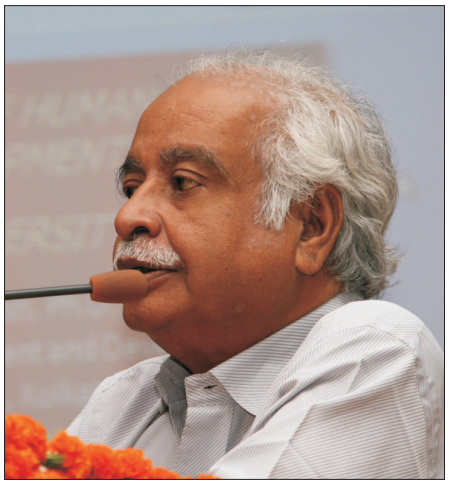
Hon'ble Sri Fateh Bahadur Singh,
Minister of Forests and Wild Life U P Govt.

Hon'ble Sri Fateh Bahadur Singh,
Minister of Forests and Wild Life U P Govt., releasing the Souvenir



Padma Bhusan Prof. R.B. Singh

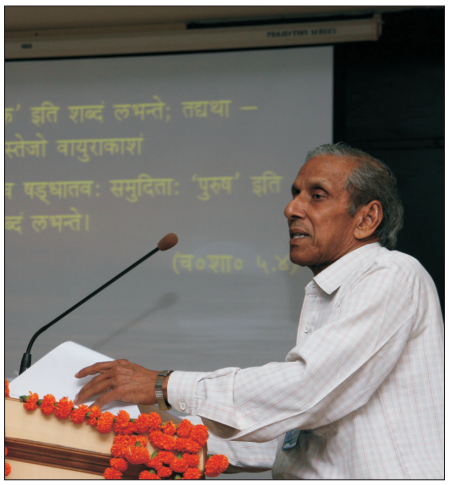
Dr. Asad Rahmani, BNHS



Dr. A. K. Ghosh, NBA, Member

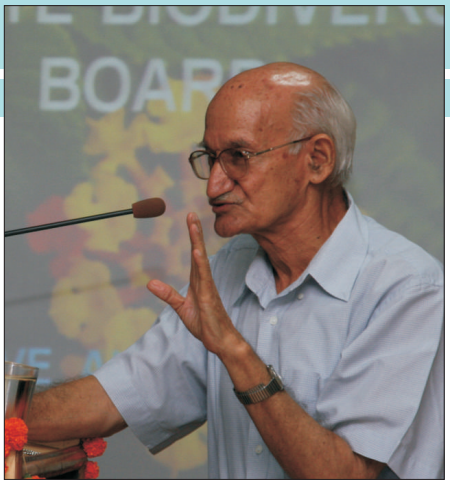
Dr. C.S. Jha NRSC, HYD

Dr. Neelam Pathak, Integral University



Prof. Satyadev Dwivedi, BHU

Dr. K .K. Khanna, BSI



Dr. A N Chaturvedi Retd.

Dr A. K. Singh,
National Bureau of Fish Genetic Resources

S. C. Biswas, IIT, Kharagpur

Shri. R. K. Dubey

Padma Bhushan Prof R. B. Singh, Shri. D. N. S. Suman, PCCF ,
Shri. C. P. Goyal, CCF Lucknow

Delegates and guests

4. Research projects and special studies:

The following research projects have been initiated during the year 2009-10 .

a. Survey, Mapping and Documentation of Floristic Diversity and Antiquity of Vegetation in Lucknow and Adjoining Areas

Duration of the Project : February 2009-February 2010

Principal Investigator : Dr. D. C. Saini,
Sr. Scientist,
Birbal Sahni Institute of Palaeobotany,
53, University Road, Lucknow- 226 007

Objectives:

i. Floristic inventory and vegetation mapping

The whole area has been intensively surveyed and observed. Most of the part of district is occupied by residential colonies, government offices, parks and rest of the area is being under various developmental activities. Major part of the outskirts is under cultivation. Vegetationally, the area is very poor. The forest area is negligible in the district except some small area of natural formation preserved in Kukrail Reserve forest, spread along both sides of Kukrail River in Moosabagh and Rehmankhera on Hardoi road, near Chandrika Devi and near Dilkusha garden. Thus the flora of Lucknow may be correctly said as agrarian characterized with introduced flora in considerable numbers and with a large number of truly cultivated species. Such a critical time of reducing natural vegetation cover in Lucknow district, the entire area has been intensively surveyed during 2009-2010. **In all 1299 species, 94 species are reported as new record for Lucknow flora 10 species as new record for Upper Gangetic Plain and 3 species as new record for India (Hooker).**

The families of the flowering plants are arranged according to Bentham and Hooker's system of classification in the floristic inventory of this report. Each family is provided with alphabetically arranged genera and all species are also arrange in same order within their respective genus giving correct name, basyonym, important synonyms, detailed description, field observation, uses and phenology. The floristic composition of every habitat in each area of district has been provided under mapping of vegetation.

ii. Antiquity of vegetation in Lucknow and adjoining areas

The area of proposed investigation is also abounding with a number of extant and extinct lakes of various dimensions. These could serve as archives to infer the vegetation antiquity, inception,

agricultural practice and its subsequent pace during the past few millennia, using pollen proxy records. Thus, to study the chronological sequence of the development of vegetation, **Kathauta Tal** was selected. After critical study of pollen recovered from the sediment it has been found that, the entire vegetation composition depicts the presence of mixed scrub forest, which is more or less comparable to the present day vegetation of the region. The consistent representation of taxa like *Chenopodiaceae*, Alternanthera and Asteraceae in good frequencies throughout denotes the extensive crop cultivation in the region as they are the prominent indicators of anthropogenic activities. The other herbage, viz., Lamiaceae, Brassicaceae, Caryophyllaceae, *Cannabis, Xanthium*, *Justicia* and Polygonaceae were sporadic. The arboreal were feeble in values. Thus, the entire vegetation composition depicts the presence of mixed scrub forest that is more or less comparable to the present day vegetation of the region. The consistent representation of all these taxa in good frequencies throughout denotes the extensive crop cultivation in the region, as they are the prominent indicators of anthropogenic activities. The swampy condition, prevailing along the margin of lake was profusely inhabited by sedges followed by *Polygonum plebeium*, whereas *Eriocaulon* and Apiaceae were feebly represented.

The aquatic vegetation was quite luxuriant as evidenced by good representation of Nymphoides, Lemna, Potamogeton and Nymphaea, more particularly in the lower half of the profile. Eichhornia, the chief aquatic element of the lake water, and Myriophyllum were extremely sporadic. Thus the higher values of aquatic plants in the beginning of the sequence suggest that the lake had a wider spread as compared to the present day status of the lake.

b. Base line survey and mapping of microbial diversity of newly developed Kukrail Forest

Duration of the Project	:	October 2009-October 2011
Principal Investigator	:	Dr. Neelam Pathak, Associate Professor Department of Biotechnology Integral University, Kursi Road, Lucknow

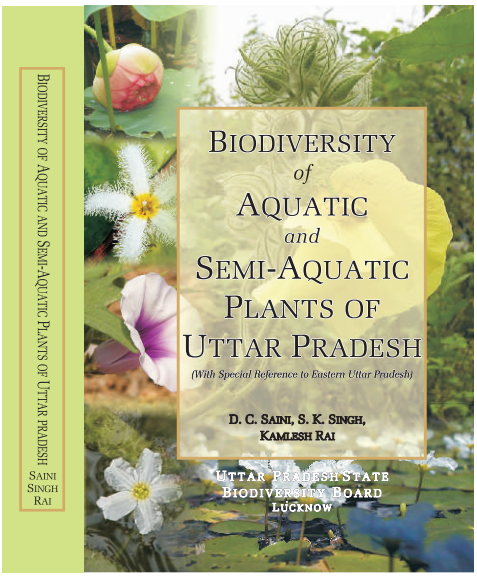
First Six monthly Progress Report

Environmental microbes are immensely diverse and have numerous metabolic activities and products that could have industrial as well as agricultural applications. However, >99% of environmental microbes cannot be cultured under current laboratory conditions, leaving their potential largely untapped. Microbial diversity within an environment can therefore be analyzed by two types of studies viz. culture-dependent studies and culture-independent studies. Metagenomic approaches have been used successfully in recent years to obtain novel microbial products from culture-independent microorganisms. The extraction of DNA from soil, followed by the use of Polymerase Chain Reaction (PCR) to amplify a gene common to all organisms can provide information about microbial community structure and microbial diversity.

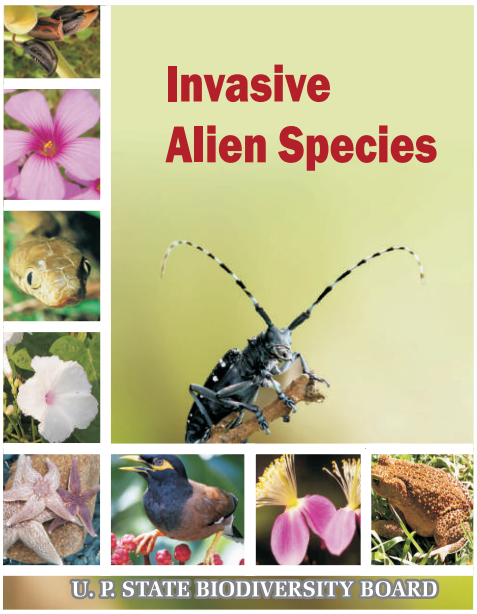
Three different mannitol-based methods were developed for DNA extraction from the soil and evaluated on the basis of PCR-based 16S ribosomal DNA analysis. DNA was extracted from soil collected from various sites of Kukrail forest, Lucknow using direct lysis with liquid nitrogen followed by Mannitol with CTAB, polyethylene glycol precipitation, and Phenol/Chloroform/Isoamylalchol. The inclusion of mannitol in the extraction buffer has been proved to increase the efficiency of extraction. Probably all three methods showed high yield. The primary assumption in this work was that greater DNA recovery reflected a more diverse sample of DNA from the microbial community. New tools to rapidly compare the DNA diversities of extracts are needed to better estimate the effectiveness of DNA extraction protocols. Furthermore, development of procedures for extracting DNA directly from soil and determining DNA sequences will eventually lead to test-kits that could be used to identify and quantify such microbes in situ , thereafter base line mapping will be easily performed.

5. Publications by the Board:

a. "Biodiversity of Aquatic and Semi-Aquatic Plants of Uttar Pradesh" (With Special Reference to Eastern Uttar Pradesh) by D. C. Saini, S. K. Singh and Kamlesh Rai



The book has attempted to inventorize the wetland biodiversity in Eastern Uttar Pradesh (biodiversity of aquatic and semi-aquatic plants). The book has covered essential points necessary for study of hydrophytes. The book has a general key for easy identification of the families. The topics include topography and general features of the area followed by climate, soil and rivers are well represented by self explanatory and beautiful maps. The different habitats of aquatic and semi-aquatic plants are categorized and provided with accurate representatives. Some endangered and exotic plants, harmful to native plants are listed in separate chapter for general awareness about invasive alien species. The major chapters of this book are the description of phanerogams and vascular-cryptogams with 547 beautiful photographs which comprise of 751 species belonging to 432 genera and 114 families. This book will be very useful to persons interested in studies on taxonomy, ecology, limnology, hydrobiology, phyto chemistry and for comparative study of palaeobotanical samples. This book can be purchased from the UP State Biodiversity Board at a cost of Rs.1500.



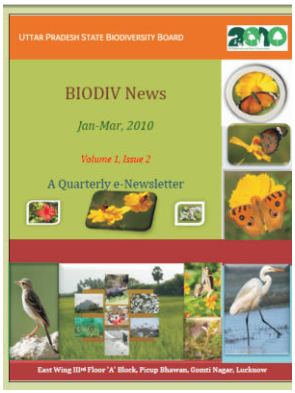
b. Invasive Alien Species - 2009. On the occasion of the International Day for Biological Diversity 2009 a compilation of papers presented by various guest speakers and eminent scientists and field practitioners was done. The 121 pages book has the following papers in it.

E-Magazine

6. News Letter: e-Magazine:

A Quarterly e-Newsletter of U. P. State Biodiversity Board is published on line. This can be viewed on **http://www.upsbdb.org** under e-magazine. Two issues have been completed till March 2010 :

1. October -December 2009
2. January - March 2010



Finance & Accounts

7. Finance and Accounts

During the financial year the expenditures of the Board were as follows:

	AMOUNT in ₹
Office expenditure	713,245
Pay and allowances	395,856
National Conference exp	522,378
Birbal Sahani Institute of Palaeobotany - Survey, Mapping & Documentation	272,840
Intergral University for Baseline - Survey -mapping of Microbial Diversity	240,000
Survey and Documentation of P.B.R.	16,920
Miscellaneous expenses	19,770
GRAND TOTAL	**2,181,009**

8. Tours and exposure/field visits

1. **Kasargod, Kerala** on July 10, 2009. This meet was organized by PPV & FRA (Protection of Plant Varieties and Farmers Rights Authority) Authority to develop a road map for tropical and subtropical plantation crops based on recommendations. Shri. R.K. Dubey, ACF took part in the meet organized at Central Plantation Crops Research Institute,.

2. **Pune, Kothrud**- 17th July 2009. Workshop on "Prospectives of Vriksh Ayurveda" organized by Regional Research Institute (Ay), Pune. Shri R.K.Dubey, ACF participated in the workshop.

3. **Sohelwa Wildlife Sanctuary**, Balrampur District- 23 July 2009. Shri Ashok Kashyap and Shri Satyendra Bahadur Singh visited Barhawa Range, Sohelwa Wildlife Division, district Balrampur to survey *Indopiptadenia oudhensis*. These trees were located about 6 Km away from the Forest Rest House on the Indo-Nepal border.On extensive survey of the area, one tree was found in the middle of Siriya nala, Bhaisasur Compartment-1, Tulsipur Range in a Bhabhar area. Lower down the nala in Barhawa Range, Nanmehra Compartment, one more tree was found. The trees were having pods on them and some seeds were collected by the Staff for growing saplings.

4. **Calcutta** on Sep 10th and 11th, 2009. Shri Pawan Kumar, Member Secretary attended the meeting of all Member Secretaries at Calcutta.

5. **5th CMS Vatavaran 2009 New Delhi** - October 27-31, 2009 at India Habitat Center. Shri K. K. Tiwari and Shri Ashok Kashyap attended a Competitive Environment and Wildlife Film Festival. It is India's one and only environment and Wildlife Film Festival for generating awareness on environmental issues and lending recognition to the endeavors of environment and wildlife filmmakers.

7. **Dudhwa National Park - Dudhwa, Bankati, Sonalipur ranges visited by UPSBB team on 24th and 25th Feb. 2010. The following new species were identified at Dudhwa** "The flora of Dudhwa National Park" by Shri K. K. Singh provides details of floristic and phytogeographical accounts of 821 Angiospermic taxa. Besides, it also provides plant wealth of the area, ethnobotanical uses of plants by the Tharu tribe of the park. The visit organized by the UP State Biodiversity Board this time revealed an additional 49 species for the first time as reported by Dr. D. C . Saini. The listing of new species is as follows:

S No	Botanical name	S No	Botanical name
1	*Abutilon theophrastii*	31	*Ixora arborea*
2	*Acrdamine hirsuta*	32	*Launaea nudicaulis*
3	*Alternanthra philoxeroides*	33	*Malachra capitata*
4	*Ammannia verticillata*	34	*Merremia aegyptia*
5	*Bupleurum hamiltoni*	35	*Merremia tridentata*
6	*Canscora oppositifolia*	36	*Mesoneurum cuculatum*
7	*Capsella bursa-pastoris*	37	*Nasturtium officinale*
8	*Cardamine scutata*	38	*Oxalis corymbosa*
9	*Casearia tomentosa*	39	*Portulaca pilosa*
10	*Cassine glauca*	40	*Pouzolzia indica*
11	*Celsia chinensis*	41	*Ranunculu muricatus*
12	*Clemais munroiana*	42	*Rauvolfia tetraphylla*
13	*Clemats triloba*	43	*Rivea hypocraterifolia*
14	*Cleome spinosa*	44	*Rotala rotundifolia*
15	*Cotula australis*	45	*Sassuria affinis*
16	*Cotula hemisphaerica*	46	*Sesbania aegyptiaca*
17	*Crotalaria alata*	47	*Solanum americanum*
18	*Crotlaria pallida*	48	*Solanum diphyllum*
19	*Cuscuta santapaui*	49	*Solanum purpulineatum*
20	*Dalbergia latifolia*	50	*Solanum purpulineatum*
21	*Diospyros montana*	51	*Solanum torvum*
22	*Heliotropium indicum*	52	*Soliva anthemifolia*
23	*Heliotropium ovalifolium*	53	*Sonchus asper*
24	*Heliotropium supinum*	54	*Sonchus brachiotis*
25	*Hoppea dichotoma*	55	*Stephnia japonica*
26	*Hydocotyle sibphorthianum*	56	*Strychnos nux-vomica*
27	*Indigofera cordifolia*	57	*Thunbergia fragrans*
28	*Indigofera tinctoria*	58	*Tragia involucrata*
29	*Ipomoea trifolia*	59	*Vernonia divergens*
30	*Ixaris polycephala*	60	*Waltheria indica*

UPSBB team in Dudhwa on 24th Feb 2010

9. Others news

1. *Indopiptadenia oudhensis* (Brandis) is an endemic threatened plant species found in the forests of Sohelwa Wildlife Sanctuary, Balrampur District of Uttar Pradesh. Under Section 38 of the Biological Diversity Act , 2002 the collection of this species has been prohibited and it has been declared as a species on the verge of extinction.(GOI notification no S.O. 998 (E) dated 15th April, 2009)

   Indopiptadenia oudhensis is an endangered species in Uttar Pradesh. The major reasons for this are over glazing and over exploitation by local people for the fodder weeds of livestock. Local vernacular names are Hathi paula, Genti, Gainti.

   By the GOI Notification of 15 April 2009, The U.P. State Biodiversity Board shall initiate or conduct:-

   (i) Studies on all aspects of the notified species for holistic understanding.

   (ii) Propagation of the notified species for the purpose of in situ and ex-situ conservation and rehabilitation and

   (iii) Awareness programmes and provide educational material on notified species for forest department personnel, Biodiversity Management Committees and forest dwellers and tribals.

Leaves of Indopiptadenia oudhensis

Pods of Indopiptadenia oudhensis are 9-12" long, nearly straight and flat about less than an inch wide

NOTIFICATION

New Delhi, the 15th April, 2009

S.O. 998(E).—In exercise of powers conferred by section 38 of the Biological Diversity Act, 2002 (18 of 2003), the Central Government, in consultation with the Government of Uttar Pradesh, hereby notifies the species of plants and animals which are on the verge of extinction, as listed in column (2) of the Table given below, and prohibit and regulate the collection thereof, subject to the conditions specified in the Annexure to this notification, for the State of Uttar Pradesh, namely:—

TABLE

Sl.No.	Name of the species
(1)	(2)
	Plants
1.	*Indopiptadenia oudhensis* (Brandis) Brenan

Annexure

Condition No. **Conditions**

1. No plant or animal species as notified above shall be collected in live or dead condition by any person except; for purposes mentioned below, with the approval of the concerned State Biodiversity Board; and also in accordance with the provisions of the Indian Forest Act, 1927 (16 of 1927) and the Wild Life (Protection) Act, 1972 (53 of 1972) or the relevant State forest and wildlife legislations, namely:-

   (e) Scientific research;
   (f) Herbarium and museum of scientific and academic institutions;
   (g) Propagation; and
   (h) Any other scientific investigation.

2. The concerned State Biodiversity Board shall initiate or conduct :-

   (iv) studies on all aspects of the notified species for holistic understanding;

   (v) propagation of the notified species for the purpose of *in situ* and *ex situ* conservation and rehabilitation; and

   (vi) awareness programmes and provide educational materials on notified species for forest department personnel, Biodiversity Management Committees, ecotourism programmes, and forest dwellers and tribals.

[F. No. 28-12/2008-CS-III]
A. K. GOYAL, Jt. Secy.

Sapling of *Indopiptadenia* growing naturally in river bed

Seeds of *Indopiptadenia*

Pods of *Indopiptadenia oudhensis* are 9-12" long, nearly straight and flat about less than an inch wide

Indopiptadenia oudhensis is a medium size tree

Pictures : Courtesy Gurmeet Singh, ACF, Sohelwa Wildlife Sanctuary

अन्तर्राष्ट्रीय जैव विविधता दिवस 2009 प्रेस की नजर में

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