



# ANNUAL REPORT

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Uttar Pradesh State Biodiversity Board  
Lucknow





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## Introduction

Biodiversity refers to the variety of life. It is seen in the number of species in an ecosystem or on the entire Earth. Biodiversity gets used as a measure of the health of biological systems, and to see if there is a danger that too many species become extinct. The United Nations designated 2011–2020 as the “**United Nations Decade on Biodiversity**”.

Conserving biodiversity is one of the most important issues of the 21st century. It is key to achieving sustainable development and intimately connected to environmental issues such as climate change, pollution and waste disposal.

Plants and animals are essential to life. They provide food, medicines, and the materials to create clothing, homes and furnishings. Plants assist with flood control, prevent soil erosion, and filter pollutants from water and air.

Biodiversity is vital to our well-being too. The natural world is the fabric of the landscape and the places that we like to visit in the countryside. We greatly value the wildlife in our gardens and local parks too. Experiencing wild plants and animals reminds us of the changing seasons and the natural cycles of life. It also brings into focus our responsibility for the health of the environment.

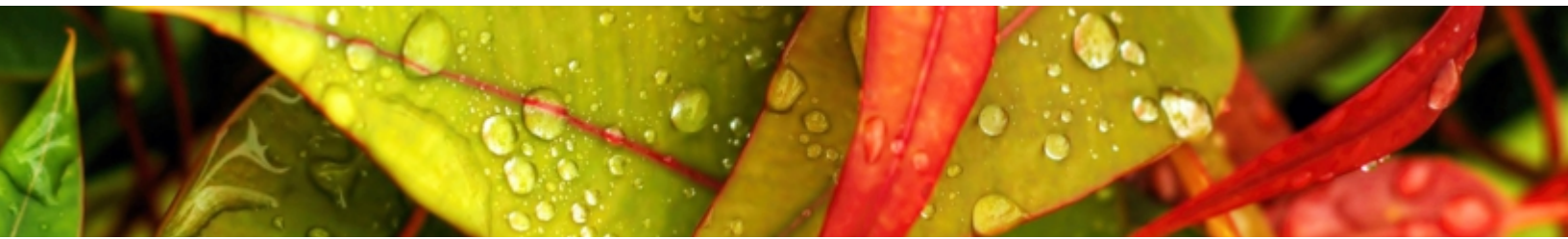
## Uttar Pradesh

The demographics of Uttar Pradesh is a complex topic, which is undergoing dynamic change. Uttar Pradesh is India`s most populous state. It has a population of about 199,812,341 as per the 2011 census. If it were a separate country Uttar Pradesh would be the world's fifth-most-populous nation, trailing only China, India, the United States of America and Indonesia.

Garlanded by the Ganga and Yamuna, the two pious rivers of Indian mythology, Uttar Pradesh is surrounded by Bihar in the East, Madhya Pradesh in the South, Rajasthan, Delhi, Himachal Pradesh and Haryana in the west and Uttaranchal in the north and Nepal touch the northern borders of Uttar Pradesh, it assumes strategic importance for Indian defence. It has an area of 2,36,286 sq kms. lies. **Area wise it is the fourth largest State of India.** In sheer magnitude it is half of the area of France, three times of Portugal, four times of Ireland, seven times of Switzerland, ten times of Belgium and a little bigger than England.

## Floral Diversity of Uttar Pradesh

Total floral diversity of Uttar Pradesh is represented by 6.45% of the country's flora with 2,932 species of plants. Preliminary data collection from secondary sources indicates the following observations in the plant kingdom in U.P.



Groups of Plant Kingdom	No. of species in the World	No. of species in India	No. of species in Uttar Pradesh	% of species in U.P. with respect to World	% of species in U.P. with respect to India
*Algae	40,000	7,182	301	0.75	4.19
*Fungi	72,000	14,588	935	1.29	6.40
**Lichens	13,500	2,268	135	1.0	5.95
*Bryophytes	16,600	2,451	72	0.43	2.93
*Pteridophytes	10,000	1,236	41	0.41	3.31
*Gymnosperms	650	69	06	0.92	8.69
*Angiosperms	2,50,000	17,643	1,442	0.57	8.17
Total	4,02,750	45,437	2,932	0.72	6.45

**Source:** \* Saini et.al (2011). Floristic Diversity of Uttar Pradesh with special reference to Eastern Uttar Pradesh Floristic Diversity of Uttar Pradesh with special reference to Eastern Uttar Pradesh, published by Uttar Pradesh State Biodiversity Board, Lucknow.

\*\* Sanjeeva Nayaka and D.K. Upreti (2013). Lichens of Uttar Pradesh, published by Uttar Pradesh State Biodiversity Board, Lucknow.

## Faunal Diversity of Uttar Pradesh

The Faunal Diversity of Uttar Pradesh is represented by 2.76 % of our country's fauna with 2387 species of invertebrates and vertebrates. The faunal diversity in the state is shown in table given below:

Groups of Animal Kingdom	No. of species in the World	No. of species in India	No. of species in Uttar Pradesh	% of species in U.P. with respect to World	% of species in U.P. with respect to India
Protozoa (Free-living + Parasite)	31,250	3,500	41	0.13	1.17
Nematoda (all)	30,028	2,902	140	0.46	4.82
Mollusca	66,535	5,169	47	0.07	0.90
Arthropoda (Insecta)	10,20,007	63,423	1,445	0.14	2.27



Arthropoda (Arachnida)	73,451	5,850	15	0.02	0.25
Mollusca (Fresh water)	35,000	1,129	47	0.001	4.16
Pices	32,120	3,022	152	0.47	5.02
Amphibia	6,771	342	25	0.36	7.30
Reptilia	9,230	526	77	0.83	14.63
Aves	9,026	1,233	358	3.96	29.03
Mammalia	5,416	423	87	1.60	20.56
Total	13,18,834	87,519	2,434	0.18	2.78

Source: \* V.D. Hegde and K. Venkatraman (2014). Inventory of Faunal Diversity of Uttar Pradesh, published by Uttar Pradesh State Biodiversity Board, Lucknow.

## The Biological Diversity Act, 2002

The Biological Diversity Act, 2002 was enacted by Ministry of Environment and Forests, Government of India on 5th February, 2003. The Biological Diversity 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 Biodiversity Rules were notified on 15th April, 2004. The functions of SBBs as per Section 22 of the Act include:

The Uttar Pradesh State Biodiversity Board (UPSBB) was established vide G.O. No. 1498/14-5-2006-57/2006 dt. 20 September 2006. The UP State Biological Diversity Rules, 2010 was framed vide notification number 570/XIV-5-2010-57/2006 dated April 9, 2010.

# Board Meeting

## 16th Board Meeting on 26-06-2015

The 16th Board Meeting was held on 26th June, 2015 under the Chairmanship of Shri Sanjeev Saran. The Following decisions were taken at the meeting:

1. Instructions was given for the DFOs/Divisional Directors of 20 districts (*Mathura, Agra, Etah, Kashganj, Fatehpur, Pratapgarh, Allahabad, Kaushambi, Barabanki, Faizabad, Sultanpur, Siddharthnagar, Basti, Sant Kabir Nagar, Kanpur Nagar, Kanpur Dehat, Auraiya, Kushinagar, Pilibhit and Amroha*) to complete the documentation of PBRs within three months. The list of 20 districts should also be given PCCF U.P, so that at the time of video conferencing on 30-06-2015, the documentation of the PBRs can be monitored.
2. Approval of audited expenditure of 2014-15.
3. Approval of proposed expenditure of 2015-16.
4. Instructions were given by the board to prepare the Peoples Biodiversity Register of District Etawah and Mainpuri.
5. Approval of the Second Phase of Prakriti Mobile Bus Exhibition from 15th July 2015 to 14th July 2016 was given for creating awareness about Biodiversity of U.P.
6. Instructions were given to distribute 10-10 copies of Birds of Raj Bhawan, Uttar Pradesh to Sri Niraj Srivastava and Sri Amit Mishra, writers of the book. Also instructions were given to distribute 25 copies of the book to other editors and members associated in compilation of the book.
7. Extension of the project entitled "Status, Distribution and Threats with Special Emphasis on Conservational Measures of House Sparrow (*Passer domesticus*) in Urban and Rural Areas of Lucknow District of Uttar Pradesh" was given upto September, 2015.
8. Extension of the project entitled "Lichen exploration in 'Protected Areas' of Uttar Pradesh and sensitizing stakeholders for conservation" was given upto October, 2015.
9. Instructions were given to compile a book on birds of Uttar Pradesh and trees of U.P.
10. Instructions were given to prepare a training calendar on various aspects of biodiversity for 2015-2016.
11. Instructions were given to invite the specialist board members during the meetings of prakriti mobile bus to take the advantages of experience of board members.
12. Instructions were given to invite the Specialist Board Members during the meetings of preparing the PBR of Etawah and Mainpuri.

## 17th Board Meeting on 16-02-2016

The 17th Board Meeting was held on 16th February, 2016 under the Chairmanship of Shri Sanjeev Saran. The Following decisions were taken at the meeting:

1. Instructions were given to invite the Specialist Members of Non Government Organization at the time of review of the projects sponsored by the Board.
2. Instructions were given to prepare a time line to finalize the book entitled “Trees of Uttar Pradesh”, so that the book can be released on the occasion of Van Mohotasava (1st July 2016).
3. Instructions were given to submit a concept note to Biodiversity Board for “Increasing the Numbers of Vultures in Uttar Pradesh”, by the officers of Animal Husbandry Deptt creating linkage with Forest Department through Principal Secretary, Animal Husbandry Deptt.
4. Approval of audited expenditure of 2015-16.
5. Approval of proposed expenditure of 2016-17.
6. For the implementation of Guidelines on Access to Biological Resources and Associated Knowledge and Benefits Sharing Regulations, 2014 in Uttar Pradesh, the Board Approved the following Proposals:
  - A1- It is proposed that the Form-I of the U.P. State Biodiversity Rules, 2010 may be adopted.
  - A2- Rule 15 (2) of U.P. State Biodiversity Rules, 2010 prescribes the application to be accompanied by demand draft of Rs. 2500/- which may be changed to Rs. 10,000/- as exists in NBA Biodiversity Rules 2004 14 (2) form No. 1.
  - A3- Since this regulation is implemented for the first time and no such parameter exists to arrive at a conclusion that the range could be fixed, hence as a matter of abundant precaution the highest range of 3% or 5% is being suggested as an interim measure.
  - A4- Since this regulation is implemented for the first time and no such parameter exists to arrive at a conclusion that the benefit sharing obligations for cases not less than 3% and cases not less than 5% could be fixed to a level greater than or equal to 3% or greater than or equal to 5%. Hence as a matter of abundant precaution, the minimum level that is 3% or 5% is proposed as an interim measure.
  - A7- It is proposed that the Form-I of the U.P. State Biodiversity Rules, 2010 may be adopted.
  - A8- Rule 15 (2) of U.P. State Biodiversity Rules, 2010 prescribes the application to be accompanied by demand draft of Rs. 2500/- which may be change to Rs. 10,000/- as exists in NBA Biodiversity Rules 2004 14 (2) form No. 1.
  - A9- The terms and conditions will be decided on case to case basis by SBB.
  - A10- The Annexure-1 depicts only NBA which will be substituted by SBB where ever it is placed.



- A11-The proposal for determination of monetary benefit sharing has been put up before Board in Regulation 2, 3, 4 hence the determination of benefit sharing in monetary terms has been fixed to avoid discretionary application.
  - The non monetary modes whenever determined shall be equivalent to the monetary calculation and the activities will be accordingly carried out.
  - A12- It is proposed that upper limit of 5% shall be retained by the Board.
  - A13-..... The processing of application received by NBA is to be adopted by SBB in totality
7. Instructions were given to add the name of Dr. R L S Sikarwar, as a Member of Expert Committee constituted for the Implementation of Guidelines on Access to Biological Resources and Associated Knowledge and Benefits Sharing Regulations, 2014.

# Biodiversity Management Committees (BMC)

## Biodiversity Management Committees (BMCs)

As per guidelines of the Biological Diversity Act, 2002 and in accordance with Rule 21 of Uttar Pradesh Biological Diversity Rules, 2010, fifty one (51) Biodiversity Management Committees (BMC's) were constituted this year, the details of which are as follows:

01st April 2014 to 31st March 2015

Sl No.	District Name	Village Name	Block Name	Date of BMC Formation
1	Pilibhit	Puranpur	Fazulaganj	04-01-2016
2	Mahoba	Sadar	Bilhari	11-01-2016
3	Allahabad	Sorawn	Jaitwar Dih	21-12-2015
4	Auraiya	Auraiya	Madhapur	03-05-2015
5	Fatehpur	Bhitora	Senpur	28-10-2015
6	Hardoi	Gopamau	Dhobia	23-09-2015
7	Kanpur Nagar	Bilhour	Bedialipur	18-10-2015
8	Lucknow	Sarojni Nagar	Gudauli	20-10-2015
9	Pratapgarh	Sadar	Ranjitpur Chilbila	28-10-2015
10	Sitapur	Maholi	Kapsa Kalan	31-12-2015
11	Unnao	Asoha	Saraiya Naveen	19-10-2015
12	Ghazipur	Bhanwar Kol	Todarapur	27-09-2015
13	Janunpur	Karanja Kala	Hamjapur	30-09-2015
14	Varanasi	Chiryai Gaon	Sarai Mohna	10-01-2016
15	Shahjhanpur	Khutar	Ladti	20-10-2015
16	Basti	Ramnagar	Dhaway	12-10-2015
17	Gorakhpur	Gola	Devari Wari	16-01-2016
18	Mainpuri	Ghiror	Akbarpur Oncha	20-12-2015
19	Ghaziabad	Loni	Agrola	27-11-2015



The functions of BMCs include:

- a. Preparing, maintaining and validating People's Biodiversity Register (PBR) in consultation with the local people.
- b. Maintaining 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.
- c. Advising on any matter referred to it by the State Biodiversity Board or Authority for granting approval, to maintain data about the local vairs and practitioners using the biological resources.

# People's Biodiversity Register (PBR)

## People's Biodiversity Register (PBR)

The main function of the BMC is to prepare People's Biodiversity Register in consultation with local people. The Registers shall contain comprehensive information on the availability and knowledge of local biological resources, their medicinal or any other use or any other traditional knowledge associated with them.

The PBRs focus on participatory documentation of local biodiversity, traditional knowledge and practices. They are seen as key legal documents in ascertaining the rights of local people over the biological resources and associated traditional knowledge.

During this period 32 of the following **People's Biodiversity Registers (PBRs)** were formulated this year:

### PBR's Prepared

S. No.	Name of District	Name of Block	Name of Village	Date of Validation of PBR	Species Identified		
					Flora	Fauna	Total
1	Pilibhit	Puranpur	Fazulaganj	27-03-2016	78	25	103
2	Rampur	Bilaspur	Dandia Mubarkpur	02-04-2015	132	34	166
3	Banda	Narani	Kartal	30-04-2015	203	80	283
4	Jalaun	Dakor	Tikar	11-06-2015	178	63	241
5	Jhansi	Badagaon	Vanguan	14-04-2015	129	55	184
6	Mahoba	Panvadi	Panara	27-04-2015	144	45	189
7	Auraiya	Auraiya	Madhapur	30-06-2015	209	33	242
8	Farrukhabad	Rajapur	Amberpur	10-05-2015	205	33	238
9	Fatehpur	Amuoli	Dafsaura	12-05-2015	167	42	209
10	Hardoi	Gopamau	Dhobia	28-01-2016	182	59	241
11	Kannauj	Distirict	16-06-2015	168	294	462	
12	Kannauj	Umarda	Bahosi	24-04-2015	145	129	274
13	Lucknow	Sarojni Nagar	Gudauli	18-12-2015	197	82	279
14	Pratapgarh	Sadar	Jaitipur Kathar	24-09-2015	116	34	150
15	Sitapur	Maholi	Kapsa Kalan	30-03-2016	179	93	272
16	Azamgarh	Palhani	Sehda	10-04-2015	149	32	181

Sl. No.	Name of District	Name of Block	Name of Village	Date of Validation of PBR	Species Identified		
					Flora	Fauna	Total
17	Chandauli	Chakiya	Sitapur	12-04-2015	133	42	175
18	Faizabad	Rudouli	Majanpur	26-06-2015	209	33	242
19	Ghazipur	Bhanwar Kol	Todarpur	29-01-2016	167	45	212
20	Janunpur	Karanja Kala	Hamjapur	25-11-2015	159	52	211
21	Varanasi	Badagaon	Kathiraon	10-06-2015	170	33	203
22	Amethi	Amethi	Bhaganpur	13-04-2015	164	34	198
23	Moradabad	Moradabad	Basantpur Ramrai	29-04-2015	127	36	163
24	Shahjhanpur	Khutar	Ladti	16-02-2016	209	33	242
25	Basti	Ramnagar	Dhaway	28-02-2016	204	85	289
26	Kushinagar	Tamkuhiraj	Dubha	27-06-2015	155	34	189
27	Maharajganj	Laxmipur	Dasrathpur	23-06-2015	190	143	333
28	Santkabr Nagar	Baghauri	Samdaha	26-06-2015	161	61	222
29	Siddharath nagar	Lotan	Dharmauli	07-05-2015	170	31	201
30	Mainpuri	Ghiror	Akbarpur Oncha	15-02-2016	102	33	135
31	Sonbhadhara	Chopan	Panari	28-01-2016	168	82	250
32	Ghaziabad	Loni	Agrola	02-03-2016	119	31	150

# Prakriti Exhibition Bus on Biodiversity

## Prakriti Exhibition Bus on Biodiversity

A mobile Exhibition on Biodiversity of Uttar Pradesh started in the year 2014. The bus was developed as collaborative effort of Uttar Pradesh State Biodiversity Board (UPSBB), Lucknow University and Centre for Environment Education (CEE). CEE, a national institution who has developed the Science Express- Biodiversity Special train coaches, has joined hands with UPSBB to develop this fascinating exhibition with a focus on key features of biodiversity, ecological context and conservation efforts of Uttar Pradesh.

There were 18 panels and 4 filler panels which open into an interactive exhibition. There are interactive games along with exhibition.

The main objective of this Mobile exhibition is not only to introduce the biodiversity of Uttar Pradesh to young minds but also to inspire young minds to take steps to conserve biodiversity. There were science communicators on the bus who explained various interesting facts about biodiversity to students.

The bus itself has 6 parts:

- (1) Ec-regions (10) of India.
- (2) Rivers of Uttar Pradesh
- (3) Ecological importance of Wetlands in the state
- (4) Agricultural Biodiversity
- (5) Protected areas of Uttar Pradesh
- (6) Threats to biodiversity and conservation efforts

## First Phase of the Journey (August 2014- July 2015):

In the first phase, the Prakriti bus has covered following districts and has reached out to 1,04,959 visitors:

- Lucknow,
- Unnao,
- Barabanki,
- Kannauj,
- Hardoi and
- Sitapur.

## Second Phase of the Journey (August 2015- July 2016):

In the second phase, total 98,731 footfalls were recorded. During this period, following districts were visited:

- Agra,
- Kanpur,



- Faizabad,
- Bahraich and
- Etawah.

Glimpses of the Panels of Prakriti Bus



## Month wise School Visit Details of Prakriti Bus

### Month of April 2015

Sr. No.	Date of Visit	Name of School	Total Footfalls
1	01.04.2015	Pragatisheel Uchataar Madhyamik Vidhyalaya Nai Basti, Dhanewa, Malihabad, Lucknow	789
2	06.04.2015	Kasturba Gandhi Avasiya Balika Vidyalaya, Tiwarikheda, Chandwara, Maal, Post- Malihabad	114
3	07.04.2015	Purva Madhyamik Vidhyalaya, Gram- Itaunja, BKT, Lucknow	90
4		Prathmik Vidhyalaya, Itaunja,- I, BKT block Lucknow	186
5		Prathmik Vidhyalaya, Itaunja,- II, BKT block Lucknow	137
6		Kanya Purva Madhyamik Vidhyalaya, Gram- Itaunja, BKT block Lucknow	170
7	08.04.2015	Purva Madhyamik Vidhyalaya, Mankotti, Malihabad, Lucknow	98
8	09.04.2015	Purva Madhyamik Vidhyalaya, Rasulabad, Malihabad block , Lucknow	145
9		Prathmik Vidhyalaya, Rasulabad, Malihabad block, Lucknow	121
10	10.04.2015	Purva Madhyamik Vidhyalaya, Mirjapur, Chinhut, Lucknow	170
11		Prathmik Vidhyalaya, Mirjapur, Chinhut, Lucknow	86
12	13.04.2015	Ram Lal Memorial School, Mujsa, Malihabad, Lucknow	415
13	15.04.2015	Madarsa Roshan Public Montessori School, Golakuaa, Kakori, Lucknow	169
14	16.04.2015	Baldi Prasad Vidhya Mandir highschool, Sanyashi, Malihabad	186
15	21.04.2015	Unique Convent School, Durgaganj, Kakori, Lucknow	640
16	22.04.2015	Maya Devi Purva Madhyamik Vidhyalaya, Achlikheda, Mohanlalganj, Lucknow	283
17	23.04.2015	Sarvodaya Junior Highschool, Rahimabad, Lucknow.	322
18	24.04.2015	R.S. Higher Secondary School, Munsikheda, Rahimabad, Lucknow	621
19	25.04.2015	Government Girls Inter College, Sandila, Hardoi	250
20	29.04.2015	Government Girls Inter College, Sandila, Hardoi	1220
21	30.04.2015	Purva Madhyamik Vidyalaya, Sarayamaruppur, Sandila, Hardoi.	75
22		Prathamik Vidyalaya, Sarayamaruppur, Sandila, Hardoi	160
<b>Total</b>			<b>6447</b>

### Month of May 2015

1.	01.05.2015	Junior High School, Tiloiyakala, Sandila, Hardoi	120
2.		Prathamik Vidhalaya, Tiloiyakala, Sandila, Hardoi	162
3.	04.05.2015	Community Village at Kasimpur, Behandar Block, Hardoi	200
4.	05.05.2015	St. Theresas High School, Sandila, Hardoi	994
5.	06.05.2015	S.B Public School, Sandila, Hardoi	97
6.	07.05.2015	Shyampati Shikshan Sansthan, Begamganj, Sandila, Hardoi	313
7.	08.05.2015	Bhagvan Budh Inter Collage, Sandila, Hardoi	1109
8.	11.05.2015	Lions Public School, Sandila, Hardoi	1010
9.	12.05.2015	Purva Madhyamik Vidhalaya	175
10.		Prathmik Vidhyalaya, Begamganj, Sandila, Hardoi	59
11.	14.05.2015	Chinohiya village, Malhera, Sandila, Hardoi	150
12.	15.05.2015	Kasturba Gandhi Avasiya Balika Vidyalaya, Sandila, Hardoi	114
13.	18.05.2015	Government Girls Inter College, Sandila, Hardoi.	412
14.	19.05.2015	Purva Madhyamik Vidhyalaya, Purva, Malihabad, Lucknow	51
15.		Prathmik Vidhyalaya, Purva, Malihabad, Lucknow	101
16.	20.05.2015	Purva Madhyamik Vidhyalaya, Mahigavan, BKT, Lucknow	135
17.		Prathmik Vidhyalaya,- 1 Mahigavan, BKT, Lucknow	128
18.		Prathmik Vidhyalaya,- 2 Mahigavan, BKT, Lucknow	83
19.	21.05.2015	Maa Yasodaya Memorial Senior Secondary School, Purwa, Malihabad, Lucknow	616
20.	22.05.2015	Suggamau village, Kukrail, lucknow	50
21.	25.05.2015	Community Village at Kasimpur, B.K.T Block, Lucknow	100
22.	26.05.2015	Community place at Village Kotti (Majre Tycoon), Barabanki	90
23.	27.05.2015	Community place at Village Farukhabad, B.K.T Block, Lucknow	150
24.	29.05.2015	Community rural market at Village Siraucha, Sidhaulti, Sitapur	350
<b>Total</b>			<b>6769</b>



Sr. No.	Date of Visit	Name of School	Total Footfalls	Sr. No.	Date of Visit	Name of School	Total Footfalls
<b>Month of June 2015</b>							
1.	1.06.2015	Community place at Village Shivpuri, Sidhauri, Sitapur	225	11.	12.06.2015	Community place at Rajya Udhyan, Alambagh, Lucknow	240
2.	02.06.2015	Community Village at Raghuvveerpur, Sidhauri, Sitapur	225	12.	15.06.2015	Community place at Swarna Jyanti Smriti Vihar, Indira, Lucknow	300
3.		Community Village at Sukha, Kamalapur Sitapur	150	13.	16.06.2015	Dr. Bhim Rao Ambedkar Samajik Parivartan Sathal, Gontinagar, Lucknow	440
4.	03.06.2015	Village Peer Nagar, Kamalapur, Sitapur	225	14.	17.06.2015	Kalindi Van Park, Vrindavan Yojana, Raibareilly Road, Lucknow	170
5.	04.06.2015	Community place at Village Patara Kala, Sidhauri Sitapur	215	15.	18.06.2015	Community place at Samajik sathal (Marine Drive), Gontinagar, Lucknow	460
6.	05.06.2015	Community Place at village Raipur, Sidhauri, Sitapur	195	16.	22.06.2015	Community place at Arbindo Park, Indiranagar, Sector 13, Lucknow	150
7.	08.06.2015	Community place at Village Dariyapur, Malihabad, Lucknow	150	17.	23.06.2015	Community place at Village Kalli, Raibareilly Road, Lucknow	110
8.	09.06.2015	Community place at Kashi Ram Samarak Ecogarden, VIP Road, Alambagh, Lucknow	150	18.	24.06.2015	Community place at Village Juggaur, Chinhat, Faizabad Road, Lucknow	150
9.	10.06.2015	Community place at Village Hasanpur, Khewali, Lucknow	250	19.	26.06.2015	Community place at Rasulpur Sadat, Chinhat, Lucknow	150
10.	11.06.2015	Community place at Jyotibha Phoole Zoonal Park, Aasiyana Colony, Kanpur Road, Lucknow	150	20.	30.06.2015	Community place at Village Pakramau, Kursi Road, Lucknow	120
<b>Total</b>							<b>4225</b>

Sr. No.	Date of Visit	Name of School	Total Footfalls	Sr. No.	Date of Visit	Name of School	Total Footfalls
<b>Month of July 2015</b>							
1	15.07.2015	Saraswati Public School, Udvathkheda, Mohanlalganj, Lucknow	312	3	17.07.2015	Community place at Janeshwar Mishr Park, Gontinagar, Lucknow	100
2	16.07.2015	Adarsh Uchatar Madhyamik Vidhalaya, Ahmamau, Gosaiganj, Lucknow	422	4	20.07.2015	Purva Madhyamic Vidyalaya, Muajjam Nagar, Gosaiganj, Lucknow	209
							323
<b>Total</b>							<b>1366</b>

As informed by CEE after visiting to Shiva Public School on the bus was taken to the workshop for maintenance and servicing work from 22 July 2015 to 11 August 2015. In this period Bus team visited the schools where previously the Bus was taken to assess the impacts of biodiversity awareness among students. Below is the list of schools where Bus team visited for impact assessment. During this assessment Bus team interacted with students and conducted a quiz based on the mobile exhibition among the students.

## Impact Assessment visits to schools

Sr. No.	Date of Assessment	Name of School	No. of Students Visited	Sr. No.	Date of Assessment	Name of School	No. of Students Visited
<b>Month of July 2015</b>				<b>Month of August 2015</b>			
1	22.07.2015	Saint Stephen's Acadamy, Takrohi, Chinnat, Lucknow	70	1	03.08.2015	Purva Madayamik Vidhalaya, Mankauti, Malihabad, Lucknow	50
2	23.07.2015	Government Girls Inter College, Indiranagar Lucknow	70	2	04.08.2015	Purva Madhyamic Vidyalaya, Rasulabad, Malihabad, Lucknow	70
3	24.07.2015	Government Girls Inter College, Sarosa- Barosha, Kakori, Lucknow	172	3	05.08.2015	Janta Inter College, Kharauha, Malihabad, Lucknow	80
4	24.07.2015	Kasturba Gandhi Balika Vidhalaya, Sarosa- Barosha, Kakori, Lucknow	100	4	06.08.2015	Purva Madhyamic Vidyalaya, Purva, Malihabad, Lucknow	45
5	27.07.2015	T D Girls Inter College, Gomtinagar, Lucknow	80	5	07.08.2015	R.S Higher Senior Secondary School, Munsikhera, Rahimabad, Lucknow	150
6	28.07.2015	Purva Madayamik Vidyalaya, Tikara, Raibarelilly Road, Lucknow	47	6	10.08.2015	Purva Madhyamic Vidyalaya, Jaitikheda, Mohanlal ganj, Lucknow	50
7	29.07.2015	Purva Madayamik Vidyalaya, Bibipur, Banthra, Sarojini nagar, Lucknow	50	7	10.08.2015	Chandra Bhan Gupta Manav Vikas Sewa Santhan, Chandrawal, Sarojini Nagar, Lucknow	50
8	30.07.2015	Adarsh Grameen Vidhya Mandir High School, Neeva, Sarojini Nagar, Lucknow	150	8	11.08.2015	Purva Madhyamic Vidyalaya, Uttardhauna, Chindhut, Lucknow	50
9	30.07.2015	Purva Madhyamic Vidyalaya, Neeva, Sarojini Nagar, Lucknow	48	9	11.08.2015	Kasturba Gandhi Awasiya Balika Vidyalaya, Nandpur, Chindhut, Lucknow	100
10	31.07.2015	Purva Madhyamic Vidyalaya, Aurangabad, Sarojininagar, Lucknow	62				
11	31.07.2015	Purva Madyamic Vidyalaya, Banthara, Sarojininagar, Lucknow	228				
<b>Total</b>			<b>1077</b>	<b>Total</b>			<b>645</b>

After coming back from the workshop the Mobile Exhibition start visiting to schools from 12 August 2015. The list of schools visited and total foot falls is given below.

Sr. No.	Date of	Name of School / Insitution/Community Place/Village	No. of Students Visited	Sr. No.	Date of	Name of School / Insitution/Community Place/Village	No. of Students Visited
<b>Pakriti Bus Visits to Schools</b>				7	20.08.2015	Prathamik Vidyalaya, Saraye Shaikh, Chindhut, Lucknow	155
<b>Month of July 2015</b>				8	20.08.2015	Purva Madhyamic Vidhyalaya, Saraye Shaikh, Chindhut, Lucknow	122
1	12.08.2015	Sam Lucknow Public School, Sec-I, Jankipuram, Lucknow	525	9	22.08.2015	Welcome event of Prakriti Bus at Chatrapati Shahuji Maharaj University, Kanpur	270
2	13.08.2015	Purva Madhyamic Vidhyalaya, Indira Nagar, Lucknow	81	10	24.08. 2015	Jugal Devi Saraswati Vidya Mandir Sr. Sec. School, Dindayal Nagar, Kanpur and CSJM University campus, Kanpur	366
3	14.08.2015	Sanskar Public School, Sector- 22, Indira Nagar, Lucknow	113	11	25.08.2015	Guru Nanak Modern School, Kalyanpur, Kanpur and Institute of Engineering and Technology, CSJM University, Kanpur	1122
4	17.08.2015	Study Hall, Vipul Khand, Gomtinagar, Lucknow	530				
5	18.08.2015	Prathamik Vidyalaya, Nandpur Chindhut	88				
6	19.08.2015	Prakash Bal Vidhya Mandhir Inter College, Vishal Khand, Gomtinagar, Lucknow	244				



Sr. No.	Date of	Name of School / Insitution/Community Place/Village	No. of Students Visited
12	26.08.2015	Vinyas Public School Amliha, Chaubepur, Kanpur	745
13	27.08.2015	Mahila Mahavidyalaya, Kidvainagar, Kanpur	529
14	28.08.2015	Purva Madhyamic Vidyalaya, Singh Pur Kachar, Kalyanpur, Kanpur	144
15	31.08.2015.	Education Department Chatrapati Shahuji Maharaj University Kanpur	260
<b>Total</b>			<b>5294</b>

### Month of September 2015

1	01.09.2015.	Surja Devi Sarashwati Vidya Mandir Higher Secondary School, Bairy, Kalyanpur, Bithur Road, Kanpur	244
2	02.09.2015	Janpriya Inter College, Tikara, Kanpur	624
3	02.09.2015	Rajkiya Swachhkar Ashram Padyati Inter College, Kalyanpur, Kanpur	389
4	03.09.2015	Shri Ram Janki Inter College, Bithoor, Kanpur Nagar	1287
5	04.09.2015	R.P.P. Inter College, Maksudabad, Tikara, Kanpur Nagar	1137
6	09.09.2015	Prathamc Vidyalaya, Devi Singh Kheda, Sarojini Nagar, Lucknow	108
7	10.09.2015.	Staford School, Near Amethiya Flyover, Hardoi Road, Lucknow	400
8	11.09.2015	Shri Jawahar Lal Jan Sewa Siksha Sansthan, Saheed Path, Sultanpur Road, Lucknow	145
9	14.09.2015	Aryavart Gurukul Balika Mahavidyalaya, Bjebara, Sohramau, Unnao	239
10	15.09.2015	Purva Madhyamic, Katari Shankarpur, Natthapur, Kanpur	129
11	15.09.2015	Prathamc Vidyalaya, Katari Shankarpur, Natthapur, Kanpur	139
12	16.09.2015	Adarsh Inter College, Tatiyaganj, Kanpur	719
13	17.09.2015	Community place visit at Sai Temple, Bithoor, Kanpur	150
14	18.09.2015	Jigyasu Balika Inter College, Barsaitpur, Kanpur Nagar	480
15	21.09.2015	Purva Madhyamic Vidyalaya, Maksudabad, Kanpur Nagar	157
16	22.09.2015	Purva Madhyamic Vidyalaya, Gangaganj, Sarsaul, Knpur Nagar	150
17	22.09.2015	Madhav Saraswati Vidya Mandir Junior High School, Gangaganj, Hathipur, Kanpur Nagar	214
<b>Total</b>			<b>6711</b>

Sr. No.	Date of	Name of School / Insitution/Community Place/Village	No. of Students Visited
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### Month of October 2015

1.	01.10.2015	Purva Madhyamic, Semara, Lucknow	90
2.	05.10.2015	Purva Madhyamic, Unai, Bkt, Lucknow	112
3.	06.10.2015	Community Visit To Lucknow Zoo	450
4.	07.10.2015	Bappa Sri Narayan Vocational Boys Inter College, Charbagh, Lucknow	1165
5.	08.10.2015	Urban Public School, Jagpal Kheda, Gomtinagar Chinhut, Lucknow	314
6.	09.10.15	Bappa Sri Narayan Vocational Girls Inter College, Charbagh, Lucknow	376
7.	09.10.2015	Bappa Sri Narayan Vocational Junior High School, Charbagh, Lucknow	272
8.	12.10.2015	Surya Public School, Sultanpur Road, Lucknow	1255
9.	13.10.2015	Community Visit to Rumi Gate, Chauk, Lucknow	250
10.	14.10.2015	Prakash Bal Vidhya Mandir Inter College, Vishal Khand-1, Gomti nagar, Lucknow	155
11.	15.10.2015	Urban Public School, Malhuar Station, Chinhut, Lucknow	239
12.	19.10.2015	Baba Kunha Das Bal Vidhya Mandir, Bharti Puram, Tiwariganj, Chinnhut, Lucknow	545
13.	20.10.2015	Prathamc Vidyalaya-I, Dhedhemau, Malihabad, Lucknow	81
14.	20.10.2015	Prathamc Vidyalaya-II, Dhedhemau, Malihabad, Lucknow	80
15.	20.10.2015	Purva Madhyamik Vidhyalaya, Dhedhemau, Malihabad, Lucknow	68
16.	21.10.2015	Community visit to Samajik Sathal, Gomtinagar, Lucknow	80
17.	23.10.2015	Shyam Sundar Yamuna deen Inter College, Faizulaganj, Lucknow	1038
18.	26.10.2015	Prakash Bal Vidhya Mandir, Kathutha Jheel, Chinnhut, Lucknow	275
19.	28.10.2015	Jai Shubash Public School, Vishal Khand-4, Gomti nagar, Lucknow	666
20.	29.10.2015	Shahid Chandra Shekhar Ajad Sikhsha Niktan Inter College, Vikas Khand-5, Gomti Nagar, Lucknow	950
21.	30.10.2015	Maharani Ahilyabai, Holkar, Vidhyalaya, Vishal khand-4, Gomtinagar, Lucknow	423
<b>Total</b>			<b>8,884</b>



Sr. No.	Date of	Name of School / Insitution/Community Place/Village	No. of Students Visited
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### Month of November 2015

01.	02.11.2015	R.B.M Inter College, Lonapur, Gomtinagar, Lucknow	425
02.	03.11.2015	Jingle Bells, Academy, Gaddopur, Faizabad	295
03.	04.11.2015	Jingle Bells, Academy, Gaddopur, Faizabad	1099
04.	04.11.2015	Jingle bells School, Gaddopur, Faizabad	1367
05.	04.11.2015	Community visit to Book Fair, Faizabad	500
06.	05.11.2015	Guru Nanak Academy Girls Inter College, Ursu, Faizabad	1677
07.	06.11.2015	Army public School, Cantt. Area, Faizabad	1580
08.	09.11.2015	Dabble College, Sector-19, Indira nagar, Lucknow	544
09.	16.11.2015	Little Hearts Academy, Khojanpur, Faizabad	471
10.	17.11.2015	Kendriya Vidayalya, Cantt, Area, Faizabad	1,128
11.	18.11.2015	Government Inter College, Faizabad	1,690
12.	19.11.2015	Tiny Tots Senior Secondary School, Sahadatganj, Faizabad	890
13.	23.11.2015	Jingle Bells, Academy, Gaddopur, Faizabad	560
14.	24.12.2015	Primary Junior High School, Cantonment Board, Faizabad	507
15.	25.11.2015	Community Visit to Guptar ghat, Faizabad	800
16.	26.11.2015	M.L.M.L. Inter College, Rikabganj, Faizabad	1,054
17.	27.11.2015	Purva Madhyamik Vidhyalaya, Kudraul, Faizabad	107
<b>Total</b>			<b>14,694</b>

### Month of December 2015

01.	04.12.2015	Up Bird Festival 2015, Jarar Chambal, Agra	300
02.	05.12.2015	Up Bird Festival 2015, Jarar Chambal, Agra	400
03.	06.12.2015	Up Bird Festival 2015, Jarar Chambal, Agra	600
04.	07.12.2015	Smt. Vimla Devi Inter College, Kuberpur, Agra	616
05.	08.12.2015	G.S Inter College, kuber pur, Agra	820
06.	09.12.2015	Smt. Srngari Bai Girls Inter College, Baluganj, Agra	899
07.	10.12.2015	B.D. Jain Girls Inter College, Baluganj, Agra	1973
08.	11.12.2015	Agra Public School, Artoni, Agra	1060
09.	12.12.2015	St. Mark's Public School, Bhagupur, Kuberpur, Agra	739

Sr. No.	Date of	Name of School / Insitution/Community Place/Village	No. of Students Visited
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10.	14.12.2015	K.R. Educational Institute, Runakata, Agra	920
11.	15.12.2015	St. George's College, Baluganj, Agra	3,950
12.	16.12.2015	St. Merry Inter College, Bai Ka Bazar, Sikandra, Agra	792
13.	17.12.2015	Shivalik Chambrige College, Avs Vikas, Bodla, Agra	4,095
14.	18.12.2015	Shivalik Public School, Bichpuri, Agra	1,578
15.	19.12.2015	St. Anthony Jr. College, Baluganj, Agra	3,105
16.	21.12.2015	Dr. MPS World School, Sikandra, Agra	1,055
17.	22.12.2015	Shri Ratan Muni Jain Inter College, Loha Mandi, Agra	1,289
18.	23.12.2015	Agra Public School, Old Vijay Nagar, Agra	1,250
<b>Total</b>			<b>25,441</b>

### Month of January 2016

1.	04.1.2016	Uttar Pradesh Pravasi Diwas Samaroh, ITC Mughal, Agra	200
2.	05.1.2016	Uttar Pradesh Pravasi Diwas, Shilpgram, Agra	350
3.	06.01..2016	Samar Public High School, Chandan, Indira Nagar, Lucknow	240
4.	07.01.2015	Canossa School, Faridinagar, Lucknow	681
5.	08.01.2015	Canossa School (Senior Section), Faridinagar, Lucknow	454
6.	12.01.2016	Purva Madhyamik Vidyalaya, Hardhaorpur, BKT, Lucknow	126
7.	13.01.2016	Purva Madhyamik Vidyalaya, Jaiti Khera, Sarojani nagar, Lucknow	170
8.		Prathmik Vidyalaya, Jaiti Khera, Sarojani Nagar, Lucknow	147
9.	15.01.2016	Central Academy, Indira Nagar, Lucknow	1,260
10.	18.01.2016	Delhi Public School, Indira Nagar, Lucknow	275
11.	19.01.2016	Purva Madhyamik Vidyalaya, Gajadharpur, Phakarpur, Bahraich	258
12.		Primary School, Gajadharpur, Phakarpur, Bahraich	251
13.	21.01.2016	Saraswati Shishu Vidya Mandir, Raja Baundi, Bahraich	416
14.		Community Visit Silauta, Phakarpur, Bahraich	70
15.	22.01.2016	Community Visit Silauta, Phakarpur, Bahraich	250
16.	23.01.2016	Government High School, Baundi, Bahraich	104
17.		Community site visited: Baundi Bazar, Raja Baundi, Bahraich	275
18.	24.01.2016	Community visit to Kayampur, Mahasi, Bahraich	250
19.		Community visit to Golaganj, Phakarpur, Bahraich	300

Sr. No.	Date of	Name of School / Institution/Community Place/Village	No. of Students Visited	Sr. No.	Date of	Name of School / Institution/Community Place/Village	No. of Students Visited
20.	25.01.2016	Kanya ups raja baundi, Bahraich	146			Alampur, Hauz, Etawah	
21.		Janta laghu madhaymik vidhalaya	117	8.	07.02.2016	Kasturba Gandhi Avasiya Balika Vidyalaya, Civil lines, Etawah	123
22.		Community-joga pur baudi, Behraich	225	9.	08.02.2016	Suditi Global Academy School, Vicharpur, Agra road by-pass, Etawah	1,862
23.	26.01.2016	PMV Sehganv Prakharpur Behraich	245	10.	09.2.2016	Baba Saheb Dr. Bheem Rao Ambedkar Agriculture Engineering University, Etawah	385
24.		UPS Sehganv Prakharpur Behraich	191	11.	10.02.2016	Delhi Public School, NH-2, Agra by-pass, Etawah	495
25.		Prakharpur Community	500	12.	11.2.2016	Kanya Junior High School, Udi, Etawah	48
26.	27.01.2016	PMV Ratanpur Beharaich	378	13.		Prathmik Vidyalay, Udi, Etawah	147
27.		Primary Ratanpur	122	14.		Bhadawar Vidya Mandir Junior High School, Udi, Etawah	107
28.	28.01.2016	Purva Madhyamik Vidyalaya, Husepur, Phakarpur, Bahraich	115	15.		Purva: Madhyamik Vidyalay Garhyaita	143
29.		Prathmik Vidyalaya Husepur, Phakarpur, Bahraich	93	16.	12.02.2016	Seven Hills, Pakka bagh, Etawah	875
30.		Purva Madhyamik Vidyalaya, Jarwal, Bahraich	356	17.	13.02.2016	Baba Sahab Dr. B.R Ambedkar College of Agricultural Engineering and Technology, Etawah (U.P)	270
31.		Prathmik Vidyalaya, Jarwal, Bahraich	112	18.	15.02.2016	Ambedkar samajik stahl 1090, Gomtinagar, Lucknow	150
32.		KGVB, Jarwal, Bahraich	314	19.	16.02.2016	GGIC, Gomti Nagar, Lucknow	168
33.	29.01.2016	Purva Madhyamik Vidyalaya, Parsohar, Bahraich	134	20.	17.2.2016	Bal Kalyan Academy, Gomtinagar, Lucknow	107
34.		Prathmik Vidyalaya, Parsohar, Bahraich	290	21.		Janhit Public School, Gomtinagar, Lucknow	89
35.		Purva Madhyamik Vidyalaya, Jataura, Jarwal, Bahraich	369	22.	18.02.2016	Prathmik Vidyalaya, Lahagar Khera, Kakori, Lucknow	90
36.		Kanya Purva Madhyamik Vidyalaya, Jarwal, Bahraich	63	23.		Purva Madhyamik Vidyalaya, Sarai, Kakori, Lucknow	36
37.		Prathmik Vidyalaya II Jarwal Road, Jarwal, Bahraich	42	24.	19.2.2016	Mahamana Malviya Vidya Mandir, Vivek Khand-1, Gomti Nagar, Lucknow	320
38.		St. Joseph School, Ali Nagar, Jarwal, St. Joseph School, Ali Nagar, Jarwal, Bahraich	222	25.	22.02.2016	G.C.R.C Memorial Trust's Group of Institutions, Bakshi Ka Talab Lucknow	170
39.		Prathmik Vidyalaya I Jarwal Road, Jarwal, Bahraich	123	26.	23.02.2016	Sunrise Public Academy, Viramkhand-1, Lucknow	241
40.		Purva Madhyamik Vidyalaya, Tapesipah, Jarwal	236	27.	24.02.2016	Annie Besant Inter College, Vinay Khand 1, Gomtinagar, Lucknow	235
41.		Prathmik Vidyalaya, Ghaghra Ghat, Jarwal, Bahraich	340	28.	25.02.2016	Indian Public Inter College, Viraj Khand-4, Gomtinagar, Lucknow	742
		<b>Total</b>	<b>10,810</b>	29.	26.02.2016	Prathmik Vidyalaya, Karimabad, Kakori, Lucknow	76

### Month of February 2016

1.	02.02.2016	International Conference on Conservation of Sarus and Wetlands, Saifai, Etawah	430	30.		Purva Madhyamik Vidyalaya, Baragaon, Kakori, Lucknow	90
2.	03.02.2016	Saint Vivekanand Sec. Public School, Alampur, Hauz, Etawah	1,400	31.		Prathmik Vidyalaya, Baragaon-1, Kakori, Lucknow	86
3.	04.02.2016	S.S. Memorial Senior Secondary School, Saifai, Etawah	1,840	32.	29.02.2016	K.R. Open Heart High School, Dashari, Kakori, Lucknow	264
4.		Sughar Singh Memorial Shiksha Niketan Inter College, Saifai, Etawah	1,217			<b>Total</b>	<b>17,590</b>
5.	05.02.2016	UPS, Kadkaulli, Etawah	64				
6.		Primary school, kadkaulli, Etawah	120				
7.	06.02.2016	Saint Vivekanand Sec. Public School,	5,200				



## Glimpses of the Various Visits



# Research Projects

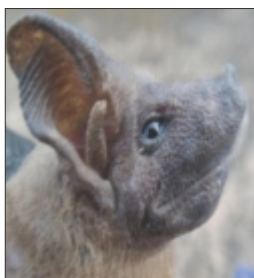
The progress of the projects during the year 2015-2016 is as follows:

## (A) Completed Projects:

### 1. Chiropteran Diversity and Conservation in Uttar Pradesh

Bats make a significant contribution to mammalian species richness and biomass in the tropics. About 1232 known species of bats distributed worldwide and the Indian subcontinent accommodate about 117 bat species. The pteropodid bats are important pollinators and seed dispersing agents for a number of ecologically and economically important plants. The microchiropteran bats are important for agro ecosystem as they consume nocturnal insect pests and play a major role in regulating insect population.

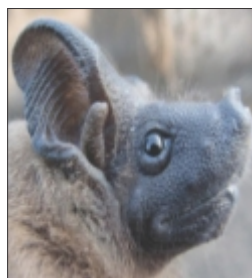
#### Chiropteran Diversity in Uttar Pradesh



*Rhinopoma hardwickii*



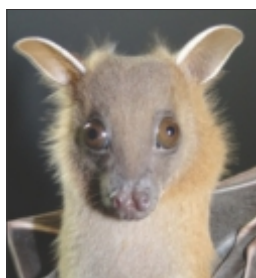
*Pipistrellus coromandra*



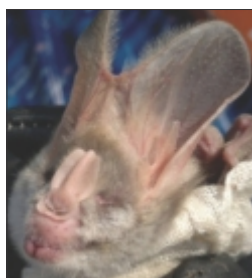
*Rhinopoma microphyllum*



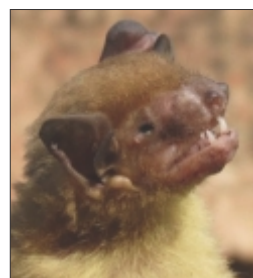
*Pteropus gignateus*



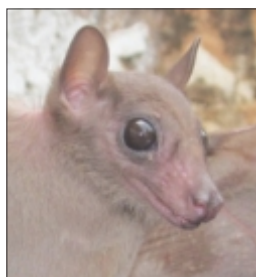
*Cynopterus sphinx*



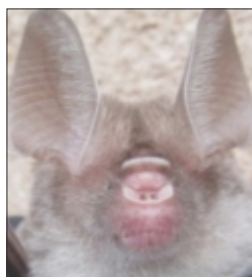
*Megaderma lyra*



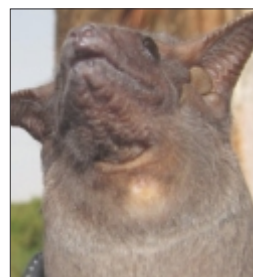
*Scotophilus heathii*



*Rousettus leschenaulti*



*Hipposideros fulvus*



*Taphozous nudiventris*



The research on the topic “**Chiropteran Diversity and Conservation in Uttar Pradesh**” was carried out by **Baba Saheb Bhimrao Ambedkar University, Lucknow**. The present study was carried out between various districts of Uttar Pradesh such as Lucknow, Barabanki, Ambedkar Nagar, Azamgargh, Mau, Faizabad, Basti, Pratapgarh, Sultanpur, Allahabad, Bahraich, Agra, Firozabad, Chitrakoot, Balia, Varansi, Chanduali, Mirzapur, Hardoi, Jaunpur, Gorakhpur, Banda, Kanpur, Unnao, Gonda, Balrampur, Raebareli, Ghazipur, Mathura, Etawah, Jhansi, Lalitpur (Tal bahet), Mahoba, Deoria, Bijnor, Meerut and Baghpat. The objective of the study was to assess the diversity of chiropteran fauna and their roost selection and roosting ecology. Further, awareness camps were also conducted in the study to educate local residents on bat conservation.

During the survey, a total of three pteropodid bat species such as Indian flying fox, *Pteropus giganteus*, *Leschenault's Rousette*, *Rousettus leschenaulti* and the short-nosed fruit bat, *Cynopterus sphinx* (Pteropodidae) were observed. In addition, sum of eight insectivorous bat species such as Indian false vampire bat, *Megaderma lyra* (Megadermatidae), the fulvous roundleaf bat, *Hipposideros fulvus* (Hipposideridae), the naked rumped tomb bat, *Taphozous nudiventris* (Emballonuridae), the lesser mouse-tailed bat, *Rhinopoma hardwickii* (Rhinopomatidae), the greater mouse-tailed bat, *Rhinopoma microphyllum* (Rhinopomatidae), Kelaart's pipistrelle, *Pipistrellus coromandra* (Vespertilionidae), Kelaart's pipistrelle, *Pipistrellus ceylonicus* (Vespertilionidae) and Asiatic greater yellow house bat, *Scotophilus heathii* (Vespertilionidae) were observed at different sites of Uttar Pradesh. In addition, the morphological measurements of all the bat species were also recorded for species recognition. The roost selection and roosting behaviour of bats were also observed. Frugivorous bats such as *P. giganteus* and *C. sphinx* were preferred to roost in tree roosts while many species of insectivorous roost in caves, crevices, abandoned buildings, monuments and temples. The bats preferred the trees of following families as their roost trees such as Meliaceae, Moraceae, Apocynaceae, Annonaceae, Arecaceae, Myrtaceae, Anacardiaceae, Fabaceae, Moraceae, Poaceae, Sapotaceae, Ulmaceae, and Rutaceae. The insectivorous bats roosting environments like crevices, old building, monument and caves are giving stable environment to them compared to tree roosts and protect the bats from the predators and also natural calamities and maintain the internal environment like humidity and temperature.

All three species of frugivorous bats and few insectivorous bats roost on larger trees, thus cutting of trees must be prevented. Many species of insectivorous bats preferably roost in historical monuments, thus the historical monuments must be conserved without demolition and renovation. Bats are contributing much to the ecosystem as pollinators, seed dispersers, pest controlling agents and maintaining ecological balance, therefore the chiropteran fauna must be conserved through proper conservation programme. The biodiversity of bats and importance of their conservation must be incorporated into the curriculum of school children.

The present study on diversity and distribution chiropteran fauna of Uttar Pradesh gives information on diversity of bats of Uttar Pradesh. The outcome of this study reveals that the state is enriched with different roosting and foraging habitats for the survival of bats. The results of present study provide additional records to the biodiversity of bats of Uttar Pradesh.



## (B) Ongoing Projects:

The progress of the ongoing research projects is summarized below:

### 1. Inventorization of aromatic plant species, their status and assessment of area under cultivation of essential oil bearing crops in five districts of Upper Gangetic Plain

The project is being carried out by **CSIR- Central Institute of Medicinal and Aromatic Plants, Lucknow.**

The first objective of the project is to inventorize all the natural, naturalized and cultivated aromatic species, their status, habitat, etc. in selected five districts. After intensive and extensive survey and collection, 122 species belonging to 88 genera and 34 families were identified from aforesaid districts.

During the course of survey and collection, diversity in *Ocimum* spp. was observed. Various species of *Ocimum* viz. *O. tenuiflorum* (green and purple type), *O. basilicum* (methyl chavicol and methyl cinnamate rich), two chemotypes viz. linalool and camphor rich *O. basilicum*, and one species of *Ocimum* having lemon scent/aroma were collected from the study area. The taxonomy of *Ocimum* is in a state of confusion and the same species is often referred to by more than one name or vice-versa. The circumscription of *Ocimum* itself is also a matter of dispute among taxonomists. This lemon scented species was previously misidentified by many of the Indian plant taxonomists as *Ocimum americanum* L.



*Ocimum americanum*

After perusal of literature and long scrutiny, it was authenticated as *Ocimum africanum* Lour. (syn. *O. x citriodorum* Vis., *O. pilosum* Willd., *O. americanum* (sensu Pushpangadan & Sobti) which is a new distributional record from this region. This lemon scented basil is having citral (neral and geranial) as main chemical constituents (72%), used in the synthesis of vitamin A which is used in various eye diseases. Japanese/menthol mint (*Mentha arvensis*)

The second objective of the project was cultivation of aromatic plant species and their assessment of area under cultivation and constraints faced by farmers. About 1000 villages belonging to 29 blocks of 5 districts were surveyed. In each village, 5-25 farmers were selected and to collect information on their land area under different crops, varieties/cultivars used, crop rotation used and yields. Survey result revealed that farmers of aforesaid areas are cultivating mainly menthol mint, marigold, palmarosa, holy basil, basil and vetiver. The most demanding variety of Japanese/menthol mint (*Mentha arvensis*) is Kosi cultivated by the farmers/growers of aforesaid districts. Similarly, KS-1 and CIM-Vridhi of Vetiver (*Vetiveria zizanioides*), PRC-1 and CIM-Harsh of Palmarosa (*Cymbopogon martinii*), CIM-Saumya of Basil (*Ocimum basilicum*) and CIMAP-Patra of Peppermint (*Mentha piperita*) are the main varieties cultivated in selected



districts. Among aromatic crops, menthol mint occupied largest area and flower/oil production in said five districts followed by marigold, palmarosa and basil. Barabanki is the hub of essential oil production and marketing followed by Lucknow and Raebareli districts. During survey it was also noticed that the farmers of targeted districts followed three major cropping system viz. rice-lahi-mentha followed by rice-wheat-mentha and rice-potato-mentha. CIMAP-Patra of *Mentha piperita* is a source of natural menthofuran for preparation of American peppermint through value addition of De-

mentholized oil (DMO) of menthol mint which has been introduced as a new aromatic crop in the Barabanki district.

Salon town of Amethi, Kadipur tehsil of Sultanpur, Sadar of Raebareli, Gangaganj of Gosainganj block of Lucknow district and Dewa, Fatehpur, Mohammadabad, Haidergargh and Masauli of Barabanki district have emerged as new potential market for planting material and trading essential oil for eastern districts of UP especially, Jaunpur, Pratapgarh, Kaushambi, Allahabad, etc and nearby areas.

The study revealed that the major constraints faced by the growers in these five districts of Uttar Pradesh lack of minimum support price, high cost of cultivation, highly fluctuating market price of essential oils, lack of awareness on improved varieties and their agro and process-technologies, climate change, and inadequate market information about its demand and supply.

At the end of this study, the compiled result of project would help in the planning of state policies for farmers/growers and essential oil traders.

## 2. Fish Diversity of Ramgarh and Bakhira Lakes: Comparison of Present Status with Pristine Data for Conservation and Sustainable Production.

The study is carried out by the **National Bureau of Fish Genetic Resources (ICAR), Lucknow**. This study will help us in understanding the fish diversity, level of their exploitation and socio-economic status of fisher's community of Ramgarh and Bakira lakes under changing scenario.

- Survey of Ramgarh (Gorakhpur) conducted during March 2013-February 2015 revealed the presence of 42 native and 5 exotics species of finfishes (total 47) belonging to 9 orders 17 families and 33 genera were recorded. Cypriniformes dominated with 17 species, followed by Siluriformes 12, Perciformes 7, Clupeiformes 3, Synbranchiformes 3, Osteoglossiformes 2, Mugiliformes 1, Beloniformes 1 and Tetradontiformes 1. Present conservation status of these taxa being 1 DD (Data deficient), 2 Endangered (EN), 37 Least concerned (LC), 5 Lower risk-near threatened (LR-nt), 1 Not evaluated (NE), 01 Vulnerable (VU).



## Fish diversity of Ramgarh Lake



Assembly of mixed catch from Ramgarh Lake.



*Wallago attu* (8.0 kg) caught from Ramgarh Lake

## Fish diversity of Bakhira Lake



Murrels caught from Bakhira Lake



Small indigenous fishes (SIFs) from Bakhira Lake

- Survey of Bakhira Lake (Sant Kabir Nagar) conducted during March 2013-February 2015 revealed the existence of 54 native species of teleosts belonging to 9 orders 20 families and 40 genera. Interestingly, none of the exotic species was encountered in the lake. Cypriniformes dominated with 21 species, followed by Siluriformes 11, Perciformes 9, Clupeiformes 3, Synbranchiformes 2, Osteoglossiformes 2, Mugiliformes 1, Beloniformes 1 and Tetradontiformes 1. Present conservation status of these taxa being 2 species Data deficient (DD), 1 Endangered (EN), 44 Least concerned (LC), 4 Lower risk-near threatened (LR-nt), 2 Not evaluated (NE) and 1 Vulnerable (VU).





New observations recorded are as follows:

1. Hypothalamus and pituitary gland of *Colisa fasciata* and *Heteropneustes fossilis* were localized in brain of the teleosts.
2. Ovary of the commercially important fishes exhibited full maturity during August, the activity of which started declining in later half of September onwards.
3. Present status of fish diversity, causative factors responsible for the changing fishery of both the lakes.

### 3. Lichen exploration in ‘Protected Areas’ of Uttar Pradesh and sensitizing stakeholders for conservation

The project entitled “Lichen exploration in ‘Protected Areas’ of Uttar Pradesh and sensitizing stakeholders for conservation” was sponsored to **National Botanical Research Institute, Lucknow**.

A week long lichen collection tour was held to western part of Uttar Pradesh covering the Bijnore, Moradabad, Mujaffarnagar, Pilibhit, Rampur, Saharanpur and Shahjahanpur districts. About 70 lichens specimens were collected. The identification of these lichens resulted in 25 species dominated by crustose lichens. *Hyperphyscia adglutinata*, *H. syncola*, *Physcia dimidiata*, *Pyxine cocoes*, *P. reticulata* were the only foliose lichens. Earlier there was record of only two species of lichens from Pilibhit district and the present study represents 15 species. This is the first record of lichens for all remaining districts. The district covered had poor natural vegetation. Only Pilibhit consisted forested area hence it had good diversity of lichens. Remaining areas are dominated by mango orchards.

Lichens were also collected from 4 Protected Areas; Hastinapur Wildlife Sanctuary, Pilibhit Tiger Reserve, Soor Sarovar Bird Sanctuary, and National Chambal Wild Life Sanctuary.

Under this project, following three Biodiversity Workshops were conducted and a total of 07 districts of Uttar Pradesh were explored for lichen collection.

1. The Biodiversity Awareness Workshop at Dudhwa Tiger Reserve.
2. Mewalal Ram Dulari Vidhya Mandir Inter College.
3. Department of Botany, University of Allahabad.

The workshop included series of lectures such as ‘Biodiversity: An introduction’, ‘Diversity and distribution of lichens in India and Uttar Pradesh’, ‘Diversity of algae with special emphasis to Cyanobacteria’ and ‘Biodiversity for the welfare of defense personals’. The participants were shown with real lichen specimens. Various posters on lichens were displayed. The participants expressed their interest and curiosity by asking several question with the experts.

The ‘Biodiversity Awareness Workshops’ are of great demand from various schools and colleges. Our lives are dependent on the biodiversity and therefore everyone is interested to know about it very closely. Now a day students are restricted to their study within the four walls of the class room and they require a break from the daily routine. The biodiversity workshop not only being



interesting, informative it also gives an opportunity for the curious students to interact with the expert and find answers to their questions. During the course of our workshops some of the students have shown their interest to take 'biology' as their subject for higher studies. In that sense the workshop also promotes science research in the state.

### Glimpses of 'Biodiversity Awareness Workshops'





#### 4. Assessment of Sedges based on: Micro-morphological Characters, Food Value and Potential Role in Phytoremediation in Wetlands of Uttar Pradesh

The study is being carried out by the Department of Botany, Allahabad University, Allahabad.

Sedges are grass-like flowering plants with linear leaves, parallel venation, and small, mostly wind-pollinated flowers. Monocot plants with small, inconspicuous flowers and linear leaves are grouped informally as graminoids (Sedges, grasses, rushes).

The sedge family, or Cyperaceae, is the third largest monocot family, consisting of an estimated 5000 species in 104 genera. They have a cosmopolitan distribution, with more concentration in tropics. The largest genera (approximate numbers of species) are *Carex*, 2000 sp.; *Cyperus*, 550 sp. (excluding *Kyllinga* and *Pycurus*); *Fimbristylis*, 300 sp.; *Rhynchospora* and *Scleria*, 250 sp. each; *Eleocharis*, 200 sp.; and *Bulbostylis*, *Pycurus* and *Schoenus*, 100 sp. each.

As per available information from various studies 129 species belonging to 17 genera reported to occur in Uttar Pradesh.

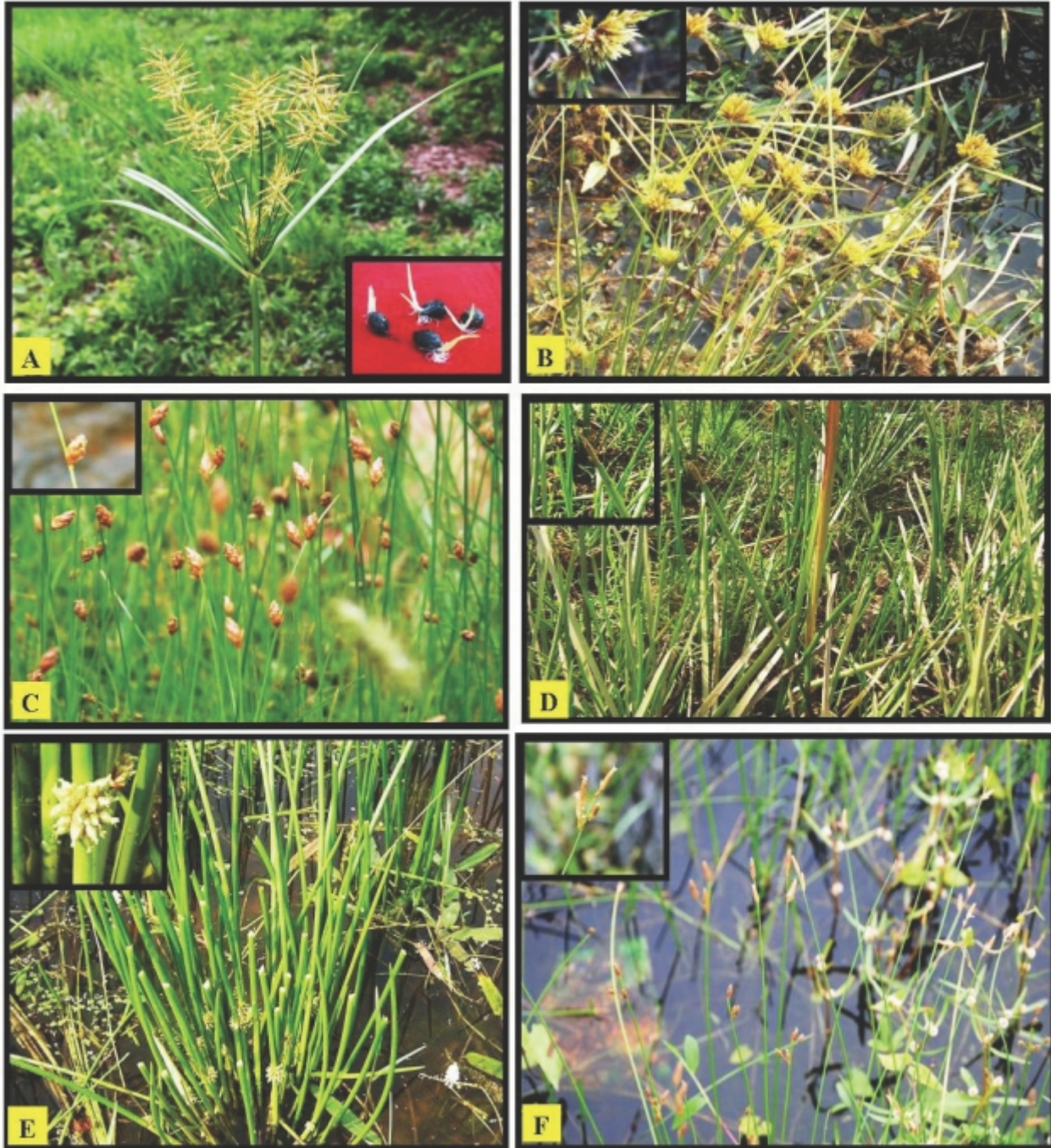
Extensive collection of sedges was done from various wetlands of Uttar Pradesh. Collection of plants was done from Allahabad and adjoining areas (Shankargarh and phoolpur), Alwara taal (Kaushambi), Chandraprabha (Chandauli), Samaspur bird sanctuary (Salon wetland, Rae Bareli), Nawabganj bird sanctuary (District Unnao), Suraha Tal (District Ballia), Parvati aranga bird sanctuary (Gonda) Lakh Bahosi Sanctuary spread over two jheels (shallow lakes) near the villages of Lakh and Bahosi (about 4 km apart) in Kannauj district, Saman Bird Sanctuary in Mainpuri district, Patna Vihar Bird Sanctuary in the Jalesar sub division of Etah district and Sandi Bird Sanctuary in Hardoi district. District Gorakhpur and Balrampur were also included in the study.

During the study *Cyperus lanceolatus* Poiret has been found to be new record for India. Analysis of *Bolboschoenus* complex and *Schoenoplectus* complex by employing micromorphological parameters (SEM and Phytolith) was done. Findings regarding *Bolboschoenus* complex have been published in the Journal Plant Systematic and evolution. Another paper regarding findings of *Schoenoplectus* complex has been communicated to the Journal Aquatic Botany (Elsevier) and it is under review.

Most wetland sedge species produce a large crop of water-dispersed fruits. These are eaten by a variety of animals, such as insects, birds, passerines, and some mammals. Seeds and leaves of sedges form the edge of fresh water meadows provide critical fall forage. The tubers are an important nutritional source of minerals and trace element for birds such as cranes. By using LIBS, and ICPMS and other techniques the tubers of *Eleocharis dulcis* L. (“water chestnut”) and tubers of *Cyperus esculentus* L. (“Kasheru”) were analyzed to know carbohydrate and protein content and mineral elements in the tubers. During the collection the local people were consulted to gather the information. Available literature was also consulted .A list has been prepared regarding the food value of sedges combining the both sources.



## Some important Sedge of Uttar Pradesh



(A) *Cyperus esculentus* L. (B) *Pycurus polystachyos* (Rottb.) P. Beauv.  
(C) *Fimbristylis schoenoides* (Retz.) Vahl (D) *Eleocharis acutangula* (Roxb.) Schult  
(E) *Schoenoplectus articulatus* (L.) Palla (F) *Fimbristylis ferruginea* (L.) Vahl



*Cyperus esculentus* L. commonly known as Kasheru belongs to family Cyperaceae. It grows in wild as well as cultivated across the world. Apart from humans it is food for large birds like crane and other animals. With increasing As and Cr pollution in wetlands and nearby areas, study of phytoaccumulation properties and its effect on kasheru are important not only for humans but for wild life also for conservation. Morphological and Structural changes caused by bioaccumulation of As and Cr in *Cyperus esculentus* seedlings were investigated by exposing the Seedlings of *Cyperus esculentus* to metal treatments of As and Cr for three weeks. Data of total metal accumulation interestingly suggested *Cyperus esculentus* as hyper heavy metal accumulator plant for Cr due to its higher toleration and accumulation limit. As they are vital food sources for the wetland fauna, it becomes extremely important to understand the impact of heavy metals and other pollutants found in these plants and their effects on the food chain.

The findings of this research will be useful for future taxonomic workers, people working in wetland ecology, wetland conservation, wetland restoration, conservation of avian fauna, creating awareness in general public about importance of sedge plants.

## **5. Diversity, Distribution and Ethnobotany of Pteridophytes and Hepaticae (Bryophytes) in Dudhwa National Park in Uttar Pradesh and bordering regions**

This project is carried out by National Botanical Research Institute, Lucknow. Baseline data on pteridophytes of DNP, KPWLS, KTWLS and bordering terai regions of Uttar Pradesh. Following are the salient achievement of the project:

- Three subsequent, exhaustive and exploration field works for survey and collection of Pteridophytes as well as Bryophytes from the forests of Dudhwa National Park (DNP) and Kishanpur Wildlife Sanctuary (KPWLS) in Lakhimpur Kheri, Katarniaghat Wildlife Sanctuary (KTWLS) and its bordering terai regions were conducted during pre-monsoon and post-monsoon period of the study duration.
- Total 518 specimens of Pteridophytes and 197 specimens of Bryophytes were collected from 12 localities (Belrayan, Kila, Dudhwa, Sonaripur, Kakraha Taal, Salukapur, Belaparsua, Sathiyana, Belghat, Gauriphanta, Chandan Chauki, Bankati) of DNP Lakhimpur Kheri, 4 localities (Kataiya Chauki, Kishanpur, Jhaadi Taal, Taar Kothi) of KPWLS Lakhimpur Kheri and 12 localities (Sadar beet, Bicchia beet, Nishangada, Chephria chowk, Rampurwa, Tigda forest, Murthia, Kakraha, Motipur, Hasulia beet, Badkhadia beet, Abdullaganj forest) of KTWLS Bahraich.
- Herbarium on 518 specimens of Pteridophytes and 197 specimens of Bryophytes was made and deposited in Herbarium (LWG).
- Identification of 518 specimens of Pteridophytes revealed occurrence of 26 species viz. *Adiantum capillus-veneris* Linn., *A. edgeworthii* Hook., *A. incisum* Forssk., *A. philippense* Burm. f., *Ampelopteris prolifera* (Retz.) Copel., *Azolla pinnata* R. Br., *Ceratopteris thalictroides* (L.) Brongn., *Cheilanthes bicolor* (Roxb.) Griff., *C. albomarginata*, *Christella appendiculata* (Pr.) Holtt., *Christella arida* (D. Don) Holtt., *Christella dentata* (Forssk.) Brownsey & Jermy, *C. parasitica* (L.) Leve., *Diplazium*



esculentum (Retz.) Sw., *Dryopteris cochleata* (Ham. ex D. Don) C. Chr., *Equisetum ramosissimum* Desf., *E. diffusum* D. Don, *Helminthostachys zeylanica* (L.) Hook., *Lygodium flexuosum* (L.) Sw., *L. japonicum* (Thunb.) Sw., *Marsilea minuta* L., *Microlepia speluncae* (L.) Moore, *Ophioglossum reticulatum* Linn., *Pteris biaurita* L., *P. vittata* L., *Selaginella ciliaris* (Retz.) Spring, belonging to 16 genera and 14 families from the study sites.

## 6. Status, Distribution and Threats with Special Emphasis on Conservational Measures of House Sparrow (*Passer domesticus*) in Urban and Rural Areas of Lucknow District of Uttar Pradesh

The research on Status, Distribution, threats to House sparrow (*Passer domesticus*) in urban and rural areas of the Lucknow district of Uttar Pradesh is being carried out by the Zoology Department of Lucknow University.

House Sparrows are closely tied to human activities. House Sparrows are opportunist and are able to live wherever there are suitable nesting and roosting sites and enough food, predominantly



Fig. 1. Map of the study area

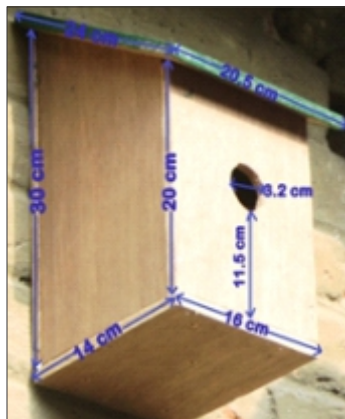
Note- Red colour shows the Study area of the project.



seeds in winter and invertebrates in summer. The Sparrow built its nest around human habitation such as in wall holes, roof spaces, and undisturbed locations in the house, especially windows, or any such places found suitable for nest construction. It is an essential bird species as an equilibrant factors in ecosystems which have educational, recreational, economical and aesthetic values.

The project focuses to know the status, distribution, threats and conservational measure needed for House Sparrow (*Passer domesticus*) in urban and rural areas of the Lucknow district of Uttar Pradesh. Note- Red colour shows the Study area of the project.

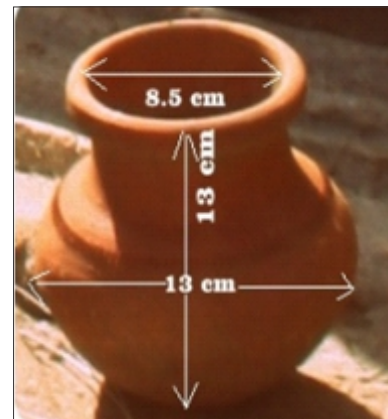
According to the survey at different places in selected nine sites (Fig. 1) on the occurrences of house sparrow, it was reported that their population has decreased considerably at present. Several reasons were reported for the decline in population of House Sparrow. Among them, the most leading reasons are unavailability of nesting sites in urban and suburban region and unavailability of food. To increase the population of this bird, an experimental setup was done by installing the three types of nest boxes, i.e. Wooden box, shoe box and Earthen pot as a nest (Fig. 2) and four types of supplementary feeds, i.e. Kakun, Bajra, Rice and a mixture of all three (Fig. 3) were also distributed to the owners of the building upon which nest boxes were installed to find out the preference of supplementary feed. After exhaustive surveys, the sites with maximum and minimum population of House sparrows were selected to install the artificial sparrow nest box. The Daliganj area of Lucknow has maximum Sparrow population because it meets both the nesting and foraging requirements of House Sparrows. While Itaunja has minimum population of Sparrow so it was selected as the second experimental setup site.



Wooden Box



Shoe Box



Earthen pot

Fig. 2. Different types of Sparrow house



Fig. 3. Different types of supplementary feed

After installation of nest boxes the sites were monitored regularly during the breeding season (March-June). The monitoring included other sites of the study area as well. The observations showed that the most preferred nest boxes were the wooden boxes followed by the shoe boxes and the least preferred were earthen pots. The data obtained after constant monitoring of the nest boxes revealed that the total nest boxes adopted in Daliganj and Itaunja were 30 (22 Wooden nest boxes, 6 Shoe boxes and 2 Earthen pot) and 16 (12 Wooden nest boxes, 3 Shoe boxes and 1 Earthen pot) respectively in 2014.

The study included the details of various parameters associated with the nest site selection/Artificial Nest boxes adopted by house sparrows. Although no relation has been found between the preference and adoption of nest sites/Artificial Nest boxes by the House Sparrows and the parameters such as temperature, humidity, light intensity, noise, height and direction of nest boxes were also recorded.

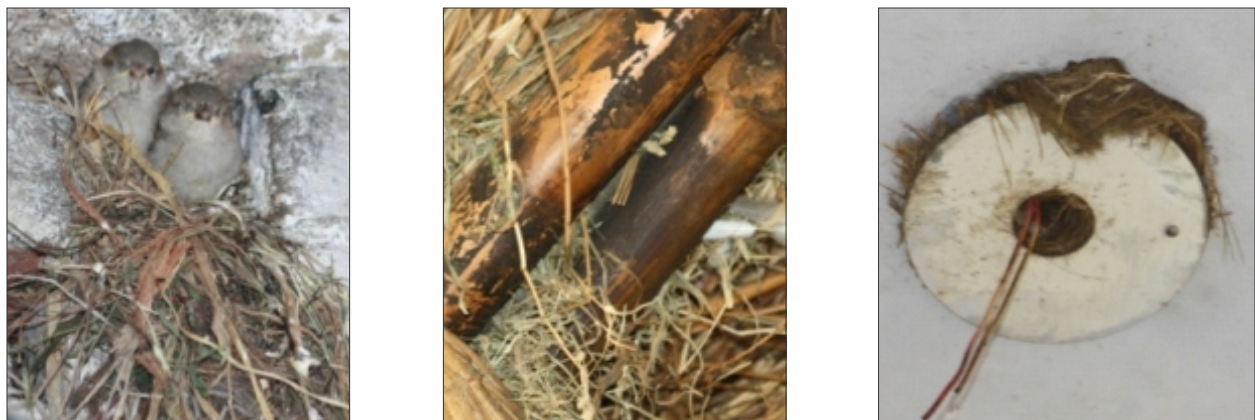


Fig. 4-Nesting at natural places by House Sparrow (*Passer domesticus*)



The breeding biology of *Passer domesticus* was studied in Daliganj and Itaunja sites for consecutive 7 months (March-September 2014). Nest construction starts in February every year. Sparrow makes its nest in a variety of places like-Rafters under roof of houses, Electricity meters, Fan and tube light holders, Unused or blocked pipes, Crevices in wall, hollows left after bricks or mortar, cracks and hole in rocks, Roller shutter box, Artificial nesting boxes (Fig 4).

The nest of the House Sparrow is a more or less regular spherical mass, but the shape and size may vary to a great extent depending on the conditions of the site available for nesting. The common characters of all its nests are the spherical or semi spherical shape, the presence of a dome covering the nest from above, and the clearly defined nest-cup having an entrance passage. The shape and size of the nests constructed in the artificial nest boxes differ according to the shape and size of the nest boxes. Sparrow is a multi brood bird it breeds 3-4 times in one breeding season with 2-5 clutch size. The details like brood per season and clutch size per brood, Global positioning coordinates were also recorded in each and every installed artificial nest boxes (i.e in all three types boxes, Wooden box, Shoe box and earthen pot), adopted by House Sparrow to analyze the nesting success in artificial nest boxes. The observations showed that the most preferred nest boxes were the wooden boxes followed by the shoe boxes and the least preferred were earthen pots. It was found that sparrow breed maximum four times in a single breeding season and clutch size varies from 2-5 eggs per nest.

After the breeding season was over, in October-November the empty nests were collected to study the nesting materials used by House Sparrows. Nests were collected from natural site and from the wooden nest box so as to study the nesting material in natural and artificial nest. Sparrows fill more of the half volume of the nest by using various nesting materials.



House Sparrow (Male)



House Sparrow (Female)



The natural materials commonly used for nest construction are those of the surroundings consisting of **Dhan** (*Oryza sativa*), **Doob Grass** (*Cynodon dactylon*), barks of different small bushy plants, leaf of date plant (*Palm broom*) *Phoenix dactylifera*, Munja Leaf (*Saccharum munja*), Dhaniya leaves (Coriander leaves) as well as feathers of various birds, particularly of fowl etc. The natural nest consists of 20 types of natural and man-made material. The nest constructed in the wooden nest box included 7 types of artificial nesting material and 16 type of natural nesting material.

After the successful experimental study, 20 pairs of all the three type of new nest boxes (Wooden, Shoe box and Earthen pots) were again installed in maximum sparrow populated area i.e. Daliganj and minimum sparrows populated area i.e. Ituanja in January 2015. Since the House Sparrows were already familiar with the artificial nest boxes that were installed in 2014, they adopted the new installed nest boxes more frequently in 2015. And in year 2014-2014 a total of 50



pairs of artificial nest boxes (30 Pairs old boxes+20 pair new installed boxes) were regularly monitored. The observations reveal that the total nest boxes adopted in Daliganj are 84 (wooden 47+ shoe boxes 27+ Earthen pot 10) while 41 in Itaunja (Wooden 32+ Shoe boxes 07 + Earthen Pot 2)..

## 7. An annotated colored Checklist of Butterflies of Uttar Pradesh, India.

The research project entitled “An annotated colored Checklist of Butterflies of Uttar Pradesh, India” is being done by the Zoology Department of Lucknow University.

Butterflies are the most beautiful and attractive than most other insects and have fascinated human imagination. They are valuable pollinators when they move from plant to plant, gathering nectar and are the one of the important food chain components of the birds, reptiles, spiders and predatory insects. So this is time to need and requirement to involves common mass, students, local peoples to aware and sensitized for conservation and protection of declining species and biodiversity of butterflies.

In order to fulfill the objectives of the project, Survey of all the zones of Uttar Pradesh were made for identifying different habitat types. Collection of butterflies' specimen in each zone one by one was done. The butterflies' specimens were stored in well fumigated (naphthalene balls) wooden boxes, Monitoring of breeding season, Monitoring of foraging behavior, Photography of butterflies, Identification of butterflies with the available keys, Morphological Identification of butterflies with the help of books and colored photograph were carried out.

Various awareness programmes through workshops were organized. In Pilibhit district the awareness was done in different schools and colleges and further the survey and awareness was



**Interaction with forest official, Pilibhit Tiger Reserve, Pilibhit**



done in four different ranges of Pilibhit Tiger Reserve viz: Mala , Mahof ,Barahi ,Deoria and Haripur. Interaction with forest officials has also been done. About 3500 local peoples, students were aware of 12 villages of Pilibhit district.

### List of Schools visited for awareness in Pilibhit District

- Adarsh Bal Vidya Mandir.
- Dr.BheemRao Ambedkar Vidya Mandir
- Govt. Inter College, Pilibhit
- Swami Vivekanand Vidyalaya
- Prathmik Vidyalaya
- Khalsa Inter College, Puranpur, Pilibhit



Awareness in Schools and Colleges



Awareness in Common Mass



**Awareness amongst the local people, students of schools and colleges of shahjahanpurs**

### **Awareness and conservation initiative in District Shahjahanpur**

In Shahjahanpur district the awareness was done in Banda, Dadrol, Katra, Nigohi, Sindhali, Dudrail etc. The aim was to spread awareness regarding importance of Butterflies and their role for our balanced ecosystem in different schools and specifically in rural areas as these are the areas which need most initiatives. About 3000 local people and students of schools and colleges were covered of above villages and blocks.

List of Schools visited for awareness :

- Jawahar Navodaya Vidyalaya
- Shri shankar Mumukshu Vidyapeeth
- Takshashila Public School
- Kendriya Vidyalaya - 1
- Kendriya Vidyalaya - 2
- Sanjay Kumar Saraswati Vidya Mandir Inter College, Shahjhanpur
- Prathamic Vidyalaya, Naglaa Haazi, Dudrail, Shajhanpur
- Prathamic Vidyalaya, Siroman Nagar, Dudrail, Shajhanp

### **Awareness and conservation initiative in District Unnao**

In Unnao district the villages covered for awareness were Auraas, Asoha, Bichhiya, Bighapur, Sakran villages, Dahi village, Nawabganj, Purwa and Safipur. Interaction with local people has been done in order to aware them about importance of butterflies. About 4000 local peoples, students of Unnao were aware about the butterflies' conservation.



**Awareness amongst the local people, students of schools and colleges.**

List of Schools visited for awareness :

- Nehru Inter College, Unnao
- Gandhi Smarak Hr. Sec. School, Unnao
- SSI Inter College, Unnao
- Govt. Girls Inter College
- Atal Bihari Inter College
- Adarsh Inter Collegeur
- Prathamic Vidyalaya, Ajijganj, Dudrail, Shajhanpur

### **Awareness and conservation initiative in District Rae Bareli**

In aebareli district the villages covered for awareness were Amawan, Bachhraon, Khiro, Lalganj, Shivgarh, Dalmau and Harchandpur. Interaction with local people and school students has been



**Awareness amongst the local people, students of schools and colleges.**





done in order to aware them about importance of butterflies. About 2000 people were aware in Raebareli.

List of Schools visited for awareness

- LBS Inter Collge, Raebareli
- SB Inter College
- Lal Rishi Girls Inter College
- RR Singh Inter College
- AD Inter College

### **Awareness and conservation initiative in District Sitapur**

In Sitapur district the villages covered for awareness were Sitapur, Behta, Biswan , Kasmanda Khairabad, Maholi, Mahmudabad, Parsendi , Sidhaulti , Sakaran. Interaction with local people has been done in order to aware them about importance of butterflies. The Gram Pradhan of these villages enthusiastically participated and helped in awareness campagin and approx aware 6000 students, villagers and forest officials.

List of Schools visited for awareness

- Sardar Patel Inter college
- KSSHS School
- Kishor Inter College
- Janta Inter College
- Govt. Inter College
- Purva - Madhyamic Vidyalaya, Daudpur, Kasmanda , Sitapur
- Purva - Madhyamic Vidyalaya, Dharenchha, Kharainda , Sitapur
- Uchch Prathamic Vidyalaya, Jamaiyatpur, Khairabad, Sitapur
- Primary School, Tikariya, Khairabaad, Sitapur



**Awareness amongst the local people, students of schools and colleges.**

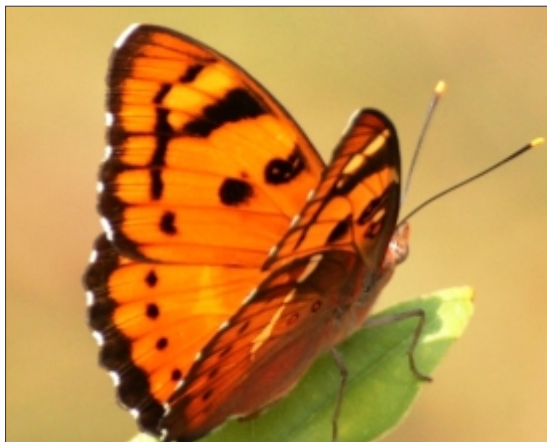


- Primary School, Saraiyya, Maluhi, Sitapur
- Shree Krishna Education Institute Ahmadnagar, Sitapur
- Purva - Madhyamic Vidyalaya, Muhuddinpur, persendi , Sitapur
- Purva - Madhyamic Vidyalaya, Aangraasi , persendi , Sitapur
- Primary School, Angrasi Sitapur

During the Study period, total 40 schools and college and various villages are involving about 3500, 3000, 4000, 2000 and 6000 students of primary, secondary, higher secondary and local peoples of Pilibhit, Shahjhanpur, Unnao, Raebareli and Sitapur districts respectively.

Programmes are also associated with distribution of not-books related to butterflies. During the Campaign about 6000 fliers, 1500 pamphlets and 300 posters of common butterflies have been distributed.

### Glimpses of Some Common Butterflies



**Baronet**



**C. Jezebel**



**Common Wandererfull**



**Common Leopard Butterfly**



## 8. Taxonomic Study of Tree Flora of present Uttar Pradesh.

The project entitled “Taxonomic study of tree flora of present Uttar Pradesh” was sponsored to National Botanical Research Institute, Lucknow.

The following objectives have been taken into consideration to achieve the above goal:

(i) Short Term Objective:

- a) Collection and identification of tree species from different parts of Uttar Pradesh.
- b) Preparation of descriptions and illustrations for all species.
- c) Assessment of diversity among some of the ancient and historic trees like *Ficus krishnae* C. DC., *F. palmata* ssp. *virgata* (Roxb.) Browicz, *F. religiosa* L. and *Adansonia digitata* L., etc.

(ii) Long Term Objective:

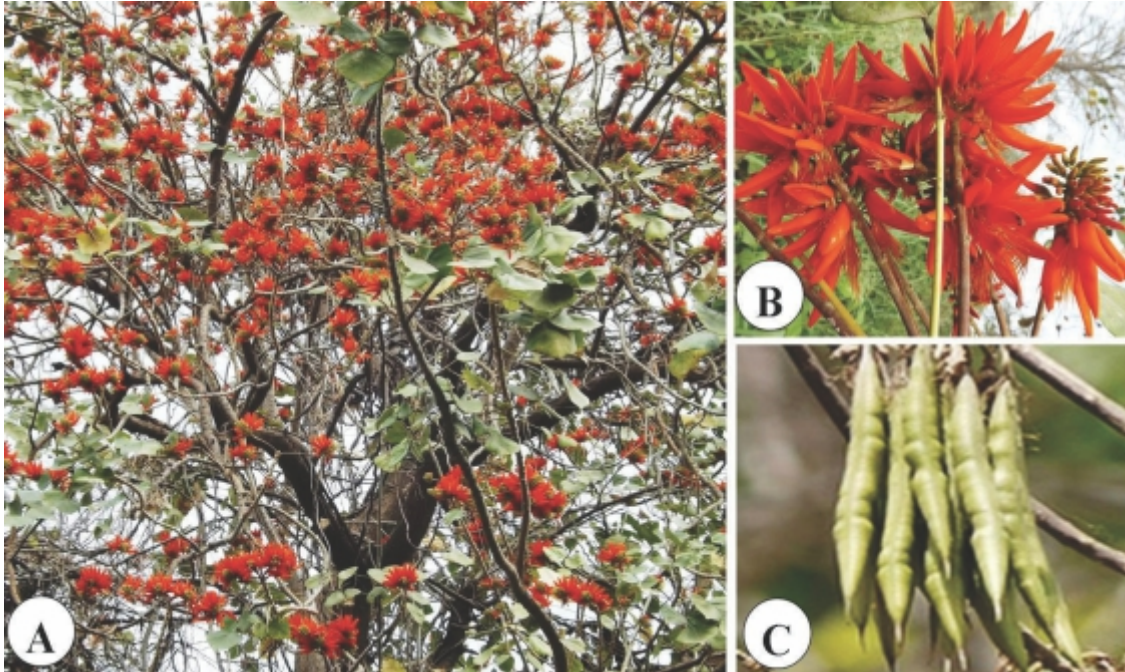
- a) Preparation of an Illustrated Tree Flora of Uttar Pradesh.

The data collected from field and herbarium studies reveal that the entire area contains about 358 species which also includes 131 those species which are cultivated or planted at various places in the area for different purposes.

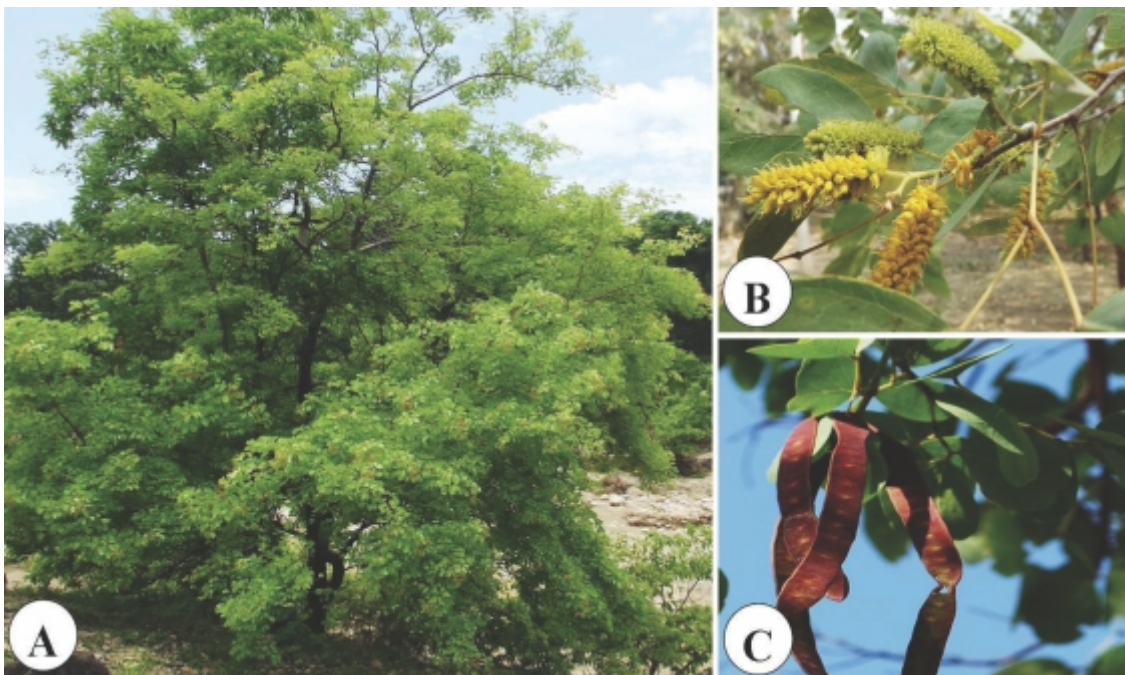
### View of some of Tree Flora of Uttar Pradesh



*Butea monosperma* (Lam.) Taub.: A. Habit, B. Flowers, C. Fruits



*Erythrina stricta* Roxb.: A. Habit, B. Flowers, C. Fruits



*Indopiptadenia oudhensis* (Brandis) Brenan: A. Habit, B. Flowers, C. Fruits



*Adansonia digitata*: A. Habit, B. Flower, C. Leaf and dehiscent fruit, D. Fruit.

Out of that, 227 species under 143 genera and 48 families were found from whole Uttar Pradesh in wild condition. The family Fabaceae has maximum number of species (40 species) followed by Malvaceae (19 species), Moraceae (16 ), Phyllanthaceae (14 species), Rubiaceae (12 species), Lamiaceae (8 species), Boraginaceae (6 species). Some of the dominant genera in the area are Acacia and Ficus each with 12 species followed by Grewia with 8 species and Bahunia with 6 species. Each species has been provided with recent nomenclature, vernacular names, diagnostic features, phenology and distribution. Some of the species has been supplemented with colour photographs. Among the existing species 13 species have been listed in different threatened categories as per the IUCN (2013) list. There are no true endemic tree species in the state, however, *Hardwickia binata* endemic to India is luxuriantly growing in Sonebhadra forest. *Indopiptadenia oudhensis* growing in tarai region is sometimes considered as endemic to the state, but, actually this species also occurs in Nepal along the foothill region of the Himalaya.

# International Day for Biological Diversity



Chief Guest Padmashri Kartikeya V Sarabhai, Dr Rupak De, Sri Sunil Pandey, Smt Pratibha Singh, and Sri A J T Johnsingh, on the Dias

## International Day for Biological Diversity, 22nd May, 2015

Biological Diversity (IBD-2015) on 22nd May, 2015 at Pluto Hall, Indira Gandhi Pratishthan, Gomti Nagar, Lucknow. On this occasion, a National Conference on “**Biodiversity for Sustainable Development**” was organized in which more than 350 delegates including various research organizations/ institutes, universities, officers from U.P. Forest Department and other states as well as NGOs etc participated actively. Dr. Rupak De



22 MAY 2015  
INTERNATIONAL DAY  
FOR BIOLOGICAL DIVERSITY  
BIODIVERSITY FOR SUSTAINABLE  
DEVELOPMENT



*Dr. Rupak De*

The programme started with **Dr. Rupak De**, PCCF, U.P. welcoming the guests. He said that Uttar Pradesh, is the fifth largest state in India in terms of area and is the most densely populated state supporting a huge cattle population. The huge cattle and human population presents immense challenges to Biodiversity management.

**Shri Sunil Pandey**, Secretary (Forests), U.P. spoke on the challenges for biodiversity managers and developers of economy.

He said a sustainable way out was needed as conservation of biodiversity is important for our own existence. He highlighted the diversity found in U.P. Jaunpuri mooli, Kalanamak rice, Jamunapari goat etc. He said that, ‘Development’ and ‘Environment’ are seen today as two tends of a spectrum, where one must be compromised in



*Sunil Pandey*

order to enhance the other. This needs to change soon, while human beings dominate this planet, we still need to preserve the diversity.

**Pratibha Singh**, Secretary, U P State Biodiversity Board, Lucknow gave a start to the program and presented the history of sustainable development.



*Pratibha Singh*

ment. She traced the history of these conferences from Stockholm (1972), Nairobi (1982), Rio (1992), Johannesburg (2002), Rio+20 (2012). She spoke on the 8 millennium development goals set in 2000, to be achieved by 2015 and also on the 17 Sustainable Development Goals agreed upon in the 2012 meet. She spoke on the increasing Co2 emissions and global warming adding that on 20th May 2015 it was 403.83 ppm. She spoke on the importance of biodiversity and the current threats. She also briefly covered the issues of bioprospecting, IPR's and biopiracy. The fast increasing world population from the present 7 billion to the projected 9 billion in 2050 is the biggest challenge. Padmashri Kartikeya V Sarabhai



*Kartikeya V. Sarabhai*

The chief-guest on the occasion **Padmashri Kartikeya V. Sarabhai**, Director, Centre for Environment Education, Ahmedabad said that we need to move from just “Greening” to “Greening with Biodiversity”. He suggested that more “Biodiversity Buses” need to run in Uttar Pradesh to take the awareness of Biodiversity to school children. He elaborated on CEE's efforts in planting trees, education and community participation through different projects like Sanjeevni, Paryavaran Mitra, Science Express Biodiversity Special; He

explained the concept of “handprint” and how it was different from “footprint”. He said that if each school child in Uttar Pradesh was given a two night exposure visit to a natural forest in a structured nature camp – it would be an unforgettable experience for the child with nature. He also suggested the opening to "green haat" in Lucknow to market goods made by people dependent on forests. He concluded by saying that we need to increase our handprint and decrease our footprint.

**Shri AJT Johnsingh** spoke on Biodiversity conservation in human dominated landscapes. He said that landscapes, based on their inherent characteristics, differ in their capability to support and if the human population level goes beyond a certain density it negatively effects biodiversity. He emphasised on the importance of Wildlife corridors in landscapes. He spoke on the problem of invasive alien species like mouth breeding tilapia and carnivorous cat fish, Lantana, Opuntia, Ipomea, Parthenium. He touched on the importance of climate change and planting native tree species. He said that poaching and wild harvesting was still



*AJT Johnsingh*

on affecting species like Amur



falcons and *Rauvolfia serpentina*. He concluded by saying that with meticulous planning, implementation, monitoring and management several plant and animal species can be and should be restored. Lasting conservation efforts in human modified landscapes demand new alliances among foresters, conservation biologists, farmers, local people, social scientists and rural social movements. He said that loss of habitat is a major reason for loss of biodiversity. He expressed surprise that not a single worthwhile wildlife corridor has been established in India so far. He also said that more animals were dying in road accidents daily, that being killed by poachers.



*N B Brindavanam*

**Shri N.B. Brindavanam**, from Dabur Research and Development Center India said that industrialisation, institutionalisation and internationalisation are causing impacts on biodiversity. He also said that ayurvedic medicinal plants are an important sub-set of biological diversity. Over 960 species are in trade currently of these 178 species have high volume consumption. He said that at times collections of these plants is destructive to their survival hence an integrated model was suggested which includes (a) resource augmentation through

farming value chain interventions and development of substitutes. For herbaceous species domestication and cultivation was the simplest tool to achieve self sufficiency by end users. In a few cases where use of tree bark/root barks and heart wood was required, efforts need to focus on identification of sustainable plant parts. Dabur is already doing this in some states like Andhra Pradesh, Chattisgarh, Gujarat, Odhisah, Karnataka and Haryana with the support of National Medicinal Plants Board.

**Shri Arvinder Singh**, Conservator, Patna said that by agroforestry practices the Bihar Government hopes to increase the forest cover from 6-7% to 12% (2012-17). Strategy has been developed to plant 6.0 cr. plants of which 60% will be Poplar and 40% will be others (Teak, Kadamb, Semal, Shisham, Eucalyptus and Mahogany). For this kisan nurseries have been started. Poplar cuttings given to farmers along with training. All plants are bought back from the farmer at @ 14.53% plant (Poplar) and other species are bought back at Rs. 6.10% plant.



*Arvinder Singh*

He said each beneficiary had to be touched upon at least 3-4 times, so much staff is also needed. The forest department has raised over 1818 nurseries outside the forest department and over 10,000 such farmers were tied with the forest department for raising nurseries on private land. He said that the forest department should have a good extension program like the agriculture department.

**Shri Rajendra Mohan Dobriyal**, Senior Manager, Hindustan Unilever Ltd. started by saying that after the Biological Diversity Act in 2002 obviously it cannot be business as usual. Eco-system in balance is a pre-requisite for business. Innovation and technology development in crucial for sustainable development and business cannot succeed if societies fail. He spoke about the 'SAI



**Rajendra Mohan Dobriyal**

gave an account of the objectives of his study carried out on Avifaunal biodiversity of Soheldev Wildlife Sanctuary, Uttar Pradesh. He spoke on the birds of Sohelwa its tourism potential involving to local communities

The Soheldev Wildlife Sanctuary was declared as IBA (Important bird area) in 2004. Yet no scientific published checklist existed till this study. In the current study from Nov. 2013 to 2014, over 280 species of birds have been recorded of which 26 are threatened species. Amur falcons were also recorded for the first time in the area. In the winter months over 200 individuals of five species of vultures were also recorded. About 500 species of birds are recorded from Uttar Pradesh, Soheldev has 60% of these and 25% of bird species found in India (approx 1200). 42 threatened species of birds are found in UP of which 26 species (61%) are found in Soheldev, making it a “First Class” birding destination!

Platform' (Sustainable agriculture initiative) founded by food companies like Unilever, Danone and Nestle. He also spoke on the Unilever sustainable living plan (USLP). This aims to (1) halve the environmental footprint of all unilever's products (2) source 100% of agricultural raw materials sustainably (3) help one billion people to improve their health and well being.

**Dr. Rajat Bhargav**, Ornithologist, BNHS in his presentation



**Dr. Rajat Bhargav**



**Dr Ram Bhoj Yadav**

Throwing the light on the key facts of biodiversity, **Dr. Ram Bhoj Yadav** from UNESCO said that conservation of Biodiversity is one of the most pressing challenges on the international agenda today. He started by reminding the audience about the World Day for cultural diversity on 21st May, 2015 saying that understanding cultural diversity Dr. Ram Bhoj Yadavis important to save biodiversity. He spoke on the importance of food biodiversity for nutritional security of India. He gave examples of rice varieties grown only in specific eco-systems like on also culinary methods are equally rich and diverse. He said that climate change is the single most important factor for the accelerated loss of biodiversity. A warming of 3-40C will eliminate 80% of wetlands and biodiversity therein this will cause extinction of 15-37% species by 2050 including 25% major crop varieties. He also spoke on the MAB (Man and Biosphere Program) and World Heritage Sites. Six world natural heritage sites exist in India. (Kajiranga/ Keoladeo/Manas/Nanda devi/ Sunderbans/Western Ghats). Also shown on the occasion was a film by UNESCO.

Platform' (Sustainable agriculture initiative) founded by food companies like Unilever, Danone and Nestle. He also spoke on the Unilever sustainable living plan (USLP). This aims to (1) halve the environmental footprint of all unilever's products (2) source 100% of agricultural raw materials sustainably (3) help one billion people to improve their health and well being.

**Shri Vijay Vardhan**, Manager Operations from ITC spoke of ITC's agri-business sourcing and the crops their business products depended upon like potato, wheat, milk, eucalyptus, subabool, casuarina, bamboo, soya, coffee, maize, tobacco etc.



**Vijay Vardhan**



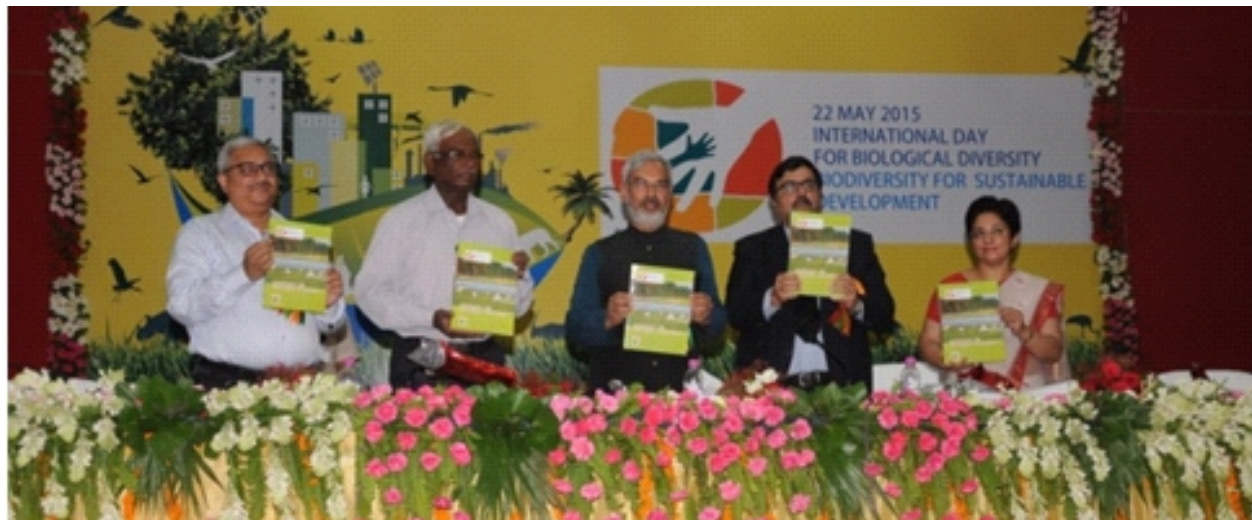
He also spoke on ITC's paper business which is a wood based industry and how ITC took an initiative two decades back to promote pulpwood production by plantations on private lands, with emphasis on wastelands. It invested on R& D, developed better clones and varieties, promoting tree based training, so that food security was not compromised. By this they have taken pressure off from the forests and have improved form productivity and profitability.



*Dr Shailendra Rajan*

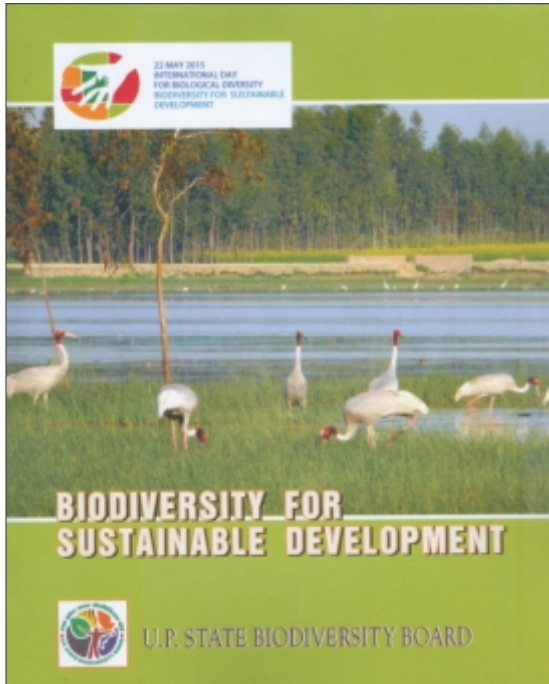
**Dr. Shailendra Rajan**, Director, Indian Institute of Horticulture, Lucknow spoke on the need for community initiatives for conserving invaluable mango diversity of Malihabad, He emphasized that if farmers are not encouraged to protect local species of mangoes than commercial species will take over and the famous Langra/ Chausa/Dasherri will be lost to us. He gave a presentation on how farmers had been empowered, given training and now even earn by protecting local species of mangoes. Considering the importance of on-farm conservation,

Society for Conservation of Mango Diversity (SCMD), a community base organisation, came into existence with the initiatives of community members to conserve and promote lesser known varieties of mango. He further added, SCMD has helped imparting trainings for development of mango catalogue and successful organisation of Mango Diversity fairs. His main message was to consolidate the role of farmer to conserve, innovate and promote mangoes.



*Release of Souvenir on Biodiversity for Sustainable Development*

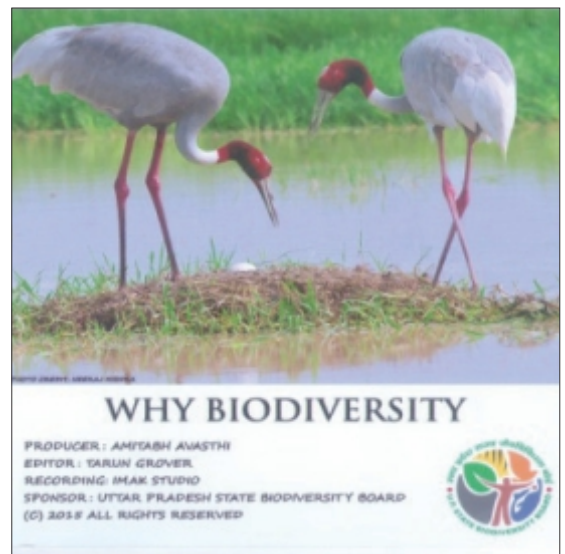
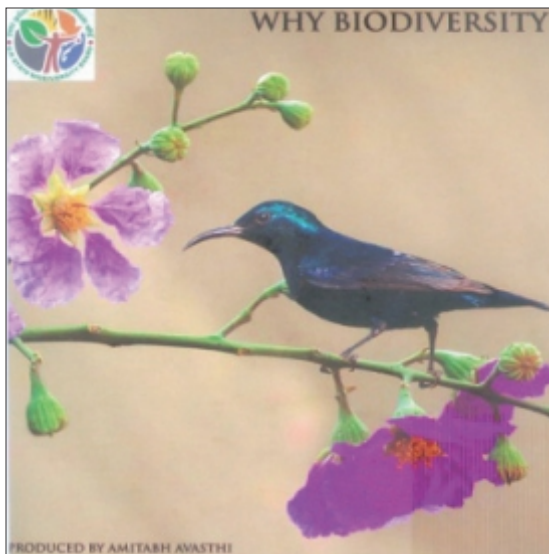
On this occasion, a Souvenir on “Biodiversity for sustainable Development” was also released with 32 articles related to the theme in 222 pages. A 10 minutes film on biodiversity was also screened. The conference ended by vote of thanks given by Pratibha Singh, Secretary, U P State Biodiversity Board, Lucknow.



*Cover page of the Souvenir*



*A film by UNESCO*



*A film on Biodiversity by U P State Biodiversity Board*



**Glimpses of some views on the occasion of International Day  
for Biological Diversity-2015**



*Lightening of Lamp by the Dignitaries at Dias*



*Glimpse of Exhibition Gallery*



*View of Audience*



*View of Audience*



*Rangoli at IBD Celebration-2015*



*A General View of Audience and Dias*



# Awareness Programme

## (A) Save The Frogs Day 26<sup>th</sup> April, 2015

“Save The Frogs Day” is the World’s largest day of amphibian education and conservation actions. Frog populations have been declining worldwide at unprecedented rates and nearly one-third of the world’s amphibian species are threatened with extinction. Up to 200 species have disappeared since 1980, and this is not normal. Amphibians go extinct naturally at a rate of only about one species every 250 years! Only a small proportion of our public is aware that frogs are disappearing and amphibian conservation efforts will not be successful with an un-informed public.



Save The Frogs Day was started by Scientific Community. It is an international team of scientists, educators, policymakers and naturalists dedicated to protecting the world's amphibian species: the frogs, toads, newts, salamanders, and caecilians. SAVE THE FROGS! was founded by Ecologist Dr. Kerry Kriger in May 2008. Save the Frogs Day was first time Celebrated in 2009, every year this event celebrates on last Saturday of April. Save The Frogs Day is the world's largest day of amphibian education and conservation action. Last year 270 events held in at least 30 countries, directly reaching over 20,000 participants. Save The Frogs Day 2015 events are scheduled to take place in more than 70 countries like- Australia, Bangladesh, Brazil, Canada, Colombia, Czech Republic, Estonia, Ghana, India, Italy, Malaysia, Mexico, Nepal, New Zealand, Nigeria, Portugal, South Africa, Taiwan, Tanzania, Turkey, United Kingdom, and the USA and many more.

Decrease in number of frogs due to loss of their habitat, lack of food and fungal infection on their skin. Amphibian populations are today declining due to pollution, habitat loss, invasive species, climate change, infectious diseases and overharvesting for pet and food trades. Increase in water pollution is also responsible for the declining population of frogs.

On this occasion, U. P. State Biodiversity Board, Lucknow and Department of Zoology, University of Lucknow conducted various competitions such as Art Competition on “**Frog Is a Part of Food Chain**”, Rangoli Competition on “**Frogs In Pond**” and open quiz on “**Frogs**” for the students of the class between 6th-12th at Regional Science City, Aliganj, Lucknow.

About 450 students from more than 20 schools (Mount fort inter College, Seth M.R. Jaipuria School, Mount Carmel School, Awadh Academy Inter College, Sri Ayodhya Singh Memorial Inter College, Tagore Memorial School, MLM School, Kendriya Vidyalaya, T D Girls Inter College, S K D Academy, St. Antony inter College. Hoerner College etc.) participated in the events with great enthusiasm.

Awareness materials related to Amphibians like flyers, pamphlets and pocket calender were also distributed among schools and colleges students as well as common people of the Lucknow. The main aim of celebrating “Save The Frogs Day” was to aware and sensitize the people and students of Lucknow towards the globally fast declining population of the Amphibians.

Winners of the various competitions were also felicitated with books as prize and certificates. The list of prize winners of the various competitions is mentioned below:

### 1. Painting competition on topic “Frog Is a Part of Food Chain”

Group-A (5th – 8th Std)

S.No	Name	School	Class	Prize
1	Saloni Gond	H.A.L. School	8th	I
2	Tanya Kannoja	Janta Inter College	9th	II
3	Mohit Vishwakarma	Avadh Academy Inter College	7th	III
4	Nikita Chaurasia	L.P.S. Jail Road	7th	Consolation

Group-B (9th – 12th Std)

S.No	Name	School	Class	Prize
1	Priya Pal	Avadh Collegiate	9th	I
2	Bhavana Dhiman	H.A.L. School	10th	II
3	Ankita Chaurasia	Lucknow Public School	9th	III
4	Shriya Shukla	Seth M.R. Jaipuria School	12th	Consolation

### 2- Rangoli Completion on topic “Frogs In Pond”

Group A (5th-8th Std)

S.No	Name	School	Class	Prize
1	Ashutosh Singh	Avadh Collegiate	8th	I
2	Nikhil Verma	Avadh Collegiate	8th	II
3	Kundan	H.A.L. School	8th	III
4	Urvashi	Avadh Collegiate	8th	Consolation

Group- B (class 9th -12th)

S.No	Name	School	Class	Prize
1	Saumya Srivastava	HAL School	10th	I
2	Mansi Gaur	HAL School	10th	II
3	Sonali Saroj	Avadh Collegiate	9th	III
4	Prachi Sachan	Avadh Collegiate	9th	Consolation



### 3. Quiz Competition on “Frogs”

Group A (5th-8th Std)

S.No	Name	School	Class	Prize
1	Manyavar	H.A.L. School	8th	I
2	Kundan Yadav	H.A.L. School	8th	II
3	Alishba Khan	Avadh Collegiate	7th	III
4	Aseeria M. Hasan	H.A.L. School	6th	Consolation

Group- B (class 9th -12th)

S.No	Name	School	Class	Prize
1	Ayush Dubey	H.A.L. School	10th	I
2	Ankit Kanoujia	Mahavir Inter College	12th	II
3	Prachi Sachan	Avadh Collegiate	9th	III
4	Sonali Saroj	Avadh Collegiate	9th	Consolation

### Glimpses of events organized on the occasion of “Save the Frogs Day”



Students from various schools participating in Rangoli competition



**Students from various schools participating in Quiz**



**Dr. Amita Kanujia, Associate Professor, Deptt. of Zoology is briefing the students about the importance of Amphibians**



**Mr. Umesh Kumar, Programme Coordinator, Regional Science City, Lucknow is briefing the students about the events**



**Prize : Books and Certificates**



**Prize Distribution**



**Winners of the Competitions**



## (B) Biodiversity Festival 2015 17<sup>th</sup> – 21<sup>st</sup> May, 2015

On the occasion of International Day for Biological Diversity, U.P. State Biodiversity Board, Lucknow organized, “Biodiversity Festival” from 17th May to 21st May, 2015, in collaboration with Department of Zoology, University of Lucknow and Regional Science City, Lucknow. The programme aimed at creating awareness among children and youth about biodiversity and sustainable development.



22 MAY 2015  
INTERNATIONAL DAY  
FOR BIOLOGICAL DIVERSITY  
BIODIVERSITY FOR SUSTAINABLE  
DEVELOPMENT

Biodiversity Festival provided an opportunity to the youth to express their thoughts and creativity through various competitions and activities. During the festival, several competitions and workshops were organized.

The day wise events organized during the Biodiversity Festival including results and its glimpses are furnished below:

### 17th may 2015 (Day-1)

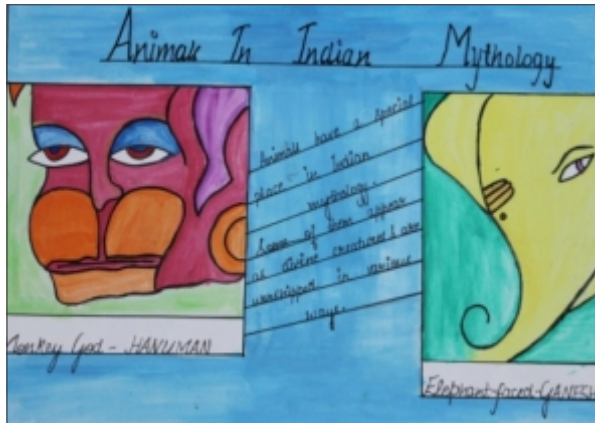
Two events were organized i.e. Poster Competition on “Animals in Indian Mythology” and Essay competition on “Sustainable Development and Biodiversity Conservation”. Mrs Pratibha Singh , Prof. Madhu Tripathi Head Department of Zoology, Prof A K Sharma and Mr K K Chaterjee were present in the inauguration function.

More than 150 students from 10 Schools and colleges participated very enthusiastically in the events. The lists of the winners of the events are as follows-

### Event: Poster Competition : Topic- “Animals in Indian Mythology”

#### Group-A (5th – 8th Std)

S.No	Name	School	Class	Prize
1	Durga Mohini	C.M.S. Kanpur Road	7th	I
2	Kavya Maurya	Riverside Academy	8th	II
3	Rashi Srivastava	Dr. Virendra Swaroop Public School	8th	III
4	Anant Narain	Dr. Virendra Swaroop Public School	8th	Consolation



**Ist Prize :** Durga Mohini,  
Class 7th, City Montessori School Lucknow



**IInd Prize :** Kavya Maurya  
Class 8th, Riverside Academy



**IIIrd Prize:** Rashi Srivastava,  
Class 8th, Dr. Virendra Swaroop Public School Lucknow



**Consolation Prize:** Anant Narain  
Class 8th, Dr. Virendra Swaroop Public School Lucknow

### Group B (Class 9th-12th)

S.No	Name	School	Class	Prize
1	Aruikshita Saxena	Gurukul Academy	9th	I
2	Shruti Verma	Dr. Virendra Swaroop Public School	9th	II
3	Aditi Menon	Army Public School	10th	III
4	Manish Kumar	Army Public School	11th	Consolation



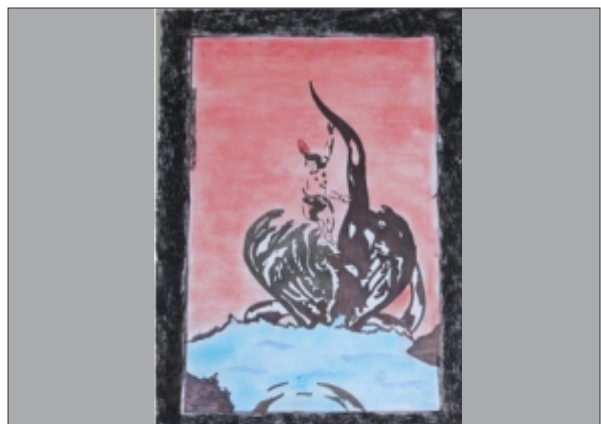
**Ist Prize :** Arukshita Saxena  
Class-9th, Gurukul Academy



**IInd Prize :** Shruti Verma  
Class- 9th, Dr. Virendra Swaroop Public School, Lucknow



**IIIrd Prize:** Aditi Menon  
Class 10th, Army Public School, SP Marg, Lucknow



**Consolation Prize:** Manish Kumar  
Class 11th, Army Public School, SP Marg, Lucknow Lucknow



**Participants with teachers and organizing team**

## Event: Essay Competition -

### Topic-“Sustainable Development and Biodiversity Conservation”

#### Group- A (Class 5th-8th)

S.No	Name	School	Class	Prize
1	Shubhangi Awasthi	LPC, Sahara State Branch	8th	I
2	Ayushi	Gurukul Academy	8th	II
3	Akshita Sharma	Gurukul Academy	7th	III
4	Saurabh Singh	DPS Academy	8th	Consolation

#### Group- B (Class 9th-12th)

S.No	Name	School	Class	Prize
1	Yatharth Swaroop	Gurukul Academy	10th	I
2	Deeksha Jha	Army Public School	-	II
3	Pratistha Mishra	LPC, Sahara State, Jankipuram	10th	III
4	Kanishka Saxena	LPC, Sahara State, Jankipuram	-	Consolation

### 18th May 2015 (Day-2)

The second day of the Biodiversity Festival was started with the event i.e. Quiz Competition on “Biodiversity for Sustainable Development”. Quiz competition was completed in 5 rounds. About 125 students of 8 schools and colleges enthusiastically took part in the event. In the first round 67 students of Group A and 70 students of Group B participated. Rests of rounds were burger round and 8-8 students were selected from first round. 8 students of Group “A” divided in to four team named as Bulbul, Myna, Dhanesh and Baya. 8 students of Group “B” also divided in to four team named as Sarus, Gauriya, Gidhraaj and Neelkanth. Team Myna won First prize and Bulbul, Dhanesh and Baya won II, III and consolation prizes respectively from group A. Team Gauriya won the First prize and Gidhraaj and Neelkanth won II, III prizes respectively from group B. The list of the winners of the event are as below-

### Event: Quiz Competition: Topic- “Biodiversity for Sustainable Development”

#### Group- A (Class 5th-8th)

S.No	Name	School	Class	Prize
1	Aditya Gupta	CMS Rajendra Nagar	7th	I
2	Rushil Gupta	Gurukul Academy	8th	I



3	Jayant Pant	CMS Rajendra Nagar	8th	II
4	Dipanshu Gupta	Gurukul Academy	8th	II
5	Aditya Singh	Gurukul Academy	8th	III
6	Satvik Pandey	CMS Gomtinagar	7th	III
7	Mayank Paitani	Gurukul Academy	7th	Consolation
8	Tashvik Srivastava	Gurukul Academy	8th	Consolation

**Group- B (Class 9th-12th)**

S.No	Name	School	Class	Prize
1	Richa Parihal	Army Public School	11th	I
2	Akhil Jain	Gurukul Academy	10th	I
3	Abhishek Kumar Kaul	Lucknow Public College	10th	II
4	Shubham Diwedi	K.V Aliganj	10th	II
5	Abhijeet P. Maurya	D.P.S Academy	10th	III
6	Lucky Verma	Lucknow Public College	10th	III



**Students taking part in the quiz competition**





### 19th May 2015 (Day-3)

The Third day of the Biodiversity Festival was started with the event i.e. PowerPoint Presentation Competition on the topic “Bio+ Traditional Knowledge”. More than 25 students of 7 schools and colleges took part very enthusiastically in the Power Point Presentation. Dr. M Serrajuddin, Associate Professor, Department of Zoology and Dr Ashish Kumar, Assistant Professor, Department of Zoology University of Lucknow, Lucknow were the Judges of the events. The list of the winners of the event is as follows-

#### Event : Power Point Presentation Competition : Topic- “Bio+ Traditional Knowledge”

##### Group- A (Class 5th-8th)

S.No	Name	School	Class	Prize
1	Anushka Srivastava	Gurukul Academy	6th	I
2	Durga Mohini	CMS Kanpur Road	6th	II
3	Vibhuti Sharma	Gurukul Academy	6th	III
4	Drishtant Sengar	Gurukul Academy	7th	Consolation

##### Group- B (Class 9th-12th)

S.No	Name	School	Class	Prize
1	Ritik Chaurasia	Gurukul Academy	10th	I
2	Yatharth Swaroop	Gurukul Academy	10th	I
3	Shweta Singh	Army Public School	10th	II
4	Koshika Pandey	Gurukul Academy	11th	III
5	Sreemay Rath	Kendriya Vidyalaya	10th	Consolation



Students are taking parts in PowerPoint Presentation

## 20th May 2015 (Day-4)

On fourth day, Rangoli Competition was organized at Regional Science City, Aliganj Lucknow, The topic for the Rangoli competition was “Sacred Plants of India”. More than 35 Students from 7 Schools and Colleges participated in these events and they express their feelings by making Rangoli. Mrs. Pratibha Singh, Secretary, U.P. State Biodiversity Board and Prof M Tripathi, Head Department of Zoology, University of Lucknow were the Judges of the competition. The lists of the winners are as follows-

### Event : Rangoli Competition : Topic- “Sacred Plants of India”

#### Group- A (Class 5th-8th)

S.No	Name	School	Class	Prize
1	Suhani Krishna	CMS Rajendra Nagar	8th	I
2	Kamaldeep Kaur	CMS Rajendra Nagar	8th	II
3	Kritika Singh	LPS Sahara State	8th	III
4	Suhani Chaturvedi	LPS Sahara State	6th	Consolation



**Ist Prize :** Suhani Krishna  
Class 8th,  
CMS Rajendra Nagar



**IInd Prize :** Kamaldeep Kaur  
Class 8th ,  
CMS Rajendra Nagar



**IIird Prize:** Kritika Singh  
Class 8th,  
LPS Sahara State



**Consolation Prize:**  
Suhani Chaturvedi,  
Class 6th  
LPS Sahara State

### Group- B (Class 9th-12th)

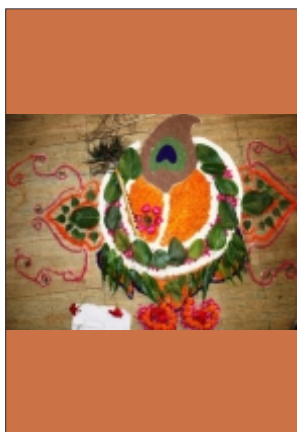
S.No	Name	School	Class	Prize
1	Kriti Singh	LPS Sahara State	9th	I
2	Pranjali	Gurukul Academy	12th	II
3	Manisha Rajpoot	Army Public School	9th	III
4	Arushita Saxena	Gurukul Academy	11th	Consolation



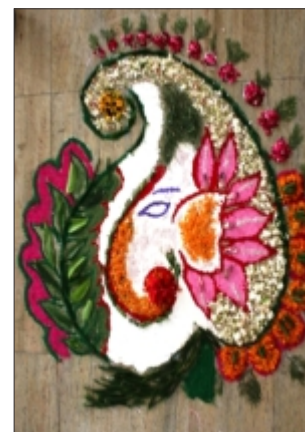
**Ist Prize :** Kriti Singh  
Class 9th,  
LPS Sahara State



**IInd Prize :** Pranjali  
Class 12th,  
Gurukul Academy



**IIIrd Prize:**  
Manisha Rajpoot  
Class 8th,  
Army Public School



**Consolation Prize:**  
Arushita Saxena  
Class 11th,  
Gurukul Academy

### 21 May 2015 (Day-5)

On the last day of the Biodiversity Festival, Nukkad Natak on the topic “Sustainable Development and Biodiversity Conservation” was organized to create awareness among the students to conserve biodiversity. The lists of prize winners is given below:

#### Event : Nukkad Natak :

Topic - “Sustainable Development and Biodiversity Conservation”

#### Group- A (Class 5th-8th)

S.No	Name	School	Class	Prize
1	Sheristi	DPS Academy	10th	I
2	Anjali Singh	DPS Academy	10th	I
3	Anshi Maurya	DPS Academy	10th	I



4	Anita	DPS Academy	10th	I
5	Prakhar Mishra	DPS Academy	8th	I
6	Saurabh	DPS Academy	8th	I
7	Akhand Pratap Singh	DPS Academy	7th	I
8	Divyanshi	DPS Academy	7th	I
9	Janhvi Tripathi	DPS Academy	6th	I
10	Yash Gupta	DPS Academy	8th	I

**Group- B (Class 9th-12th)**

<b>S.No</b>	<b>Name</b>	<b>School</b>	<b>Class</b>	<b>Prize</b>
1	Vidushi Rai	CMS Kanpur Road	8th	I
2	Shefali Maurya	CMS Kanpur Road	9th	I
3	Divyanshi Trivedi	CMS Kanpur Road	9th	I
4	Shristi Raizada	CMS Kanpur Road	9th	I
5	Ayush Verma	CMS Kanpur Road	9th	I
6	Ayush Agnihotri	CMS Kanpur Road	9th	I
7	Abhinav Dixit	CMS Kanpur Road	9th	I
8	Gaurav Gautam	CMS Kanpur Road	9th	I
9	Trigunesh Rai	CMS Kanpur Road	9th	I

The prizes to the winners of different competitions were distributed on 22nd May 2015 by the Chief Guest Padmashri Kartikeya V Sarabhai on the occasion of International Day for Biological Diversity at Indira Gandhi Pratisthan, Gomti Nagar, Lucknow.



**Glimpses of Prize Distribution by the Chief Guest Padmashri Kartikeya V Sarabhai on the occasion of International Day for Biological Diversity 22nd May, 2015**



**Group of Prize Winners**



### (C) World Environment Day 05th June, 2015

WED is the opportunity for everyone to realize the responsibility to care for the Earth and to become agents of change. The U N Secretary General Ban Ki-Moon on this occasion has said “Although individual decisions may seem small in the face of global threats and trends, when billions of people join forces in common purpose, we can make a tremendous difference”. Consuming with care means living within planetary boundaries to ensure a healthy future where our dreams can be realized. Living sustainably is about doing more and better with less. It is about knowing that rising rates of natural resources use and the environmental impacts that occur are not a necessary by product of economic growth.

The WED theme this year is **“Seven Billion Dreams. One Planet. Consume with care”**.

The Uttar Pradesh State Biodiversity Board, Lucknow jointly celebrated “World Environment Day on 5th June 2015” with Zoology Department of Lucknow University and Regional Science City Aliganj, Lucknow

On this occasion, two stalls were organized one at Regional Science City, Aliganj Lucknow, and the other at 4th Gate of University of Lucknow to distribute plants, pamphlets, biodegradable bags and paper bags to the common masses and also initiate a campaign Say 'NO' to Polythene. At the stall the public were asked to sign on a cloth to say “No to Polythene in Uttar Pradesh”. Awareness materials like pamphlets (2000 in number) were distributed, about 1000 biodegradable bags were exchanged from plastic bags and 250 plants were distributed among the common people.

At around 4 pm trees were planted in the Department of Zoology, University of Lucknow by Prof. Nirupama Agarwal, Prof. A.K. Sharma, Prof. U. D. Sharma, Prof. Padma Saxena, Prof. Madhu Tripathi, Prof. Omkar, Prof. S.P. Trivedi and Dr. Amita Kanaujia, Dr. Ashish Kumar respectively. About 25 volunteers from Department of Zoology, University of Lucknow took part enthusiastically in this awareness programme.

#### A view of Awareness Stall at Regional Science City, Aliganj Lucknow





#### (D) International Day for Vulture Awareness 05th Sept. 2015

Vultures have an important role in the natural environment. They are nature's disposal squads or “incinerators”. Vultures provide the society with a number of 'services', most notably disposal of carrion. These services have an impact on human health, economic activity and on environmental quality.

As we all know that for conservation of the vultures every years of the first Saturday in the month of September International Vulture Awareness Day (IVAD) is celebrated. The concept of celebrating International Vulture Awareness Day has grown from Vulture Awareness Day run by the Birds of Prey Programme in South Africa and the Hawk Conservancy Trust in England, who decided to work together and expand the initiative into an international event. Both the partners together launched a website, in July 2009 to provide a central place for all participants to outline their activities and see the extent of vulture conservation across the world. IVAD is celebrated on the first Saturday of September every year. First IVAD was celebrated in 2009. The aim of celebrating IVAD is to sensitize people towards exacerbating population decline of vultures and their conservation. It provides a common platform for each participating organization to carry



out their own activities that highlight vulture conservation and awareness. International Vulture Awareness Day is key in helping spread the word about the plight and importance of all vulture species. To monitor populations and implement effective measures to conserve these birds and their habitats.

This year on the occasion of the 10th International Vulture awareness day i.e. on 5th September 2015 various countries participated worldwide. About 125 different organizations also participated in IVAD across world this year. 25 different organizations from India participated in IVAD this year. Uttar Pradesh also represented by 4 participating organization this year.

Uttar Pradesh State Biodiversity Board, Lucknow celebrated International Vulture Awareness Day on from 01st to 05th September 2015 in collaboration Biodiversity and Wildlife Conservation Lab, Department of Zoology, University of Lucknow, Lucknow and Regional Science City, Aliganj, Lucknow.

During 1st – 3rd September, 2015, two (02) awareness cars were departed one for Jhansi, Moath Lalitpur, Deogarh and other for Lakhimpur, Bahraich,,Dudhwa National Park, Katerniaghat Wildlife Sanctuary, Pilibhit Tiger Reserve and Suhelwa Wildlife Sanctuary to create mass awareness among the local public and students of the Schools, colleges, institutes and universities by distributing awareness materials like booklets, pamphlets and flyers on importance of vultures. Near about 15,000 flyers and 5000 booklets were distributed among the students and local public.

On 4th September, 2015 three (03) awareness cars were departed from University of Lucknow, one (01) car went towards Gonda , and the other two (02) cars were departed towards Rae-bareilly and Unnao to create awareness regarding the importance of vultures ,their decreasing status and the causes and consequences of their depletion.

On 5th September, 2015, following various competitions based on conservation of vultures were organized at Regional Science City, Aliganj, Lucknow, involving students of class 6th-8th (Group A) and class 9th-12th (Group B). Overall 200 students from 135 schools/colleges participated enthusiastically in various competitions. The winners of the event were facilitated with books as prize and Certificates.

## Winners of the competitions

### 1. Quiz Competition

#### Group A (Class 6th- 8th)

S.No	Name	School	Prize
1	Gaurvi Gupta	CMS, Rajendra Nagar	First
2	Jayant Pant	CMS, Rajendra Nagar	Second
3	Vaibhav Pratap Singh	CMS, Rajendra Nagar	Third
4	Kamaldeep Kaur	CMS, Rajendra Nagar	Consolation



**Group B (Class 9th- 12th)**

S.No	Name	School	Prize
1	Smriti Pandey	KV Cantt. Lko.	First
2	Subrat Shukla	CMS, Mahanagar II	Second
3	Yogendra Kumar Sharma	Maharishi vidya Mandir public school	Third
4	Shrey Kr. Rai	Kendriya vidyalaya, IIM ,Lko.	Consolation

**2. Rangoli Competition**

**Group A (Class 6th- 8th)**



**Ist Prize :** Deepali Verma  
Class- 8th, St. Thomas Mission Inter College



**IInd Prize :** Kajal Nigam,  
Class-8th, St. Thomas Mission Inter College



**IIIrd Prize:** Shreya Sharma  
Class-7th, MVM Public School



**Consolation Prize:** Ananya,  
Class 7th, MVM Public School.



Group B (Class 9th- 12th)



**Ist Prize :** Srishti Srivastava  
Class-12th, Maharishi Vidya Mandir



**IInd Prize :** Akanksha Tiwari  
Class-10th, Kendriya Vidyalaya



**IIIrd Prize:** Kumari Shiwani  
Class -10th, Kendriya Vidyalaya



**Consolation Prize:** Anamika  
Class-12th, Maharishi Vidya Mandir.

### 3. Art Competition

Group A (Class 6th- 8th)



**Ist Prize :** Nikhil Singh  
Class-7th, LPS, Lucknow



**IInd Prize :** Anjsa Verma  
Class-8th, LPS, Lucknow



**IIIrd Prize:** Vidhi Singh  
Class-7th, LPS, Lucknow



**Consolation Prize:** Agam Pandey  
Class-7th, CMS, Lucknow



**Consolation Prize:** Abhinav Tiwari  
Class-7th, CMS, Lucknow



Group B (Class 9th - 12th)



**Ist Prize :** Kartikeya Singh  
Class-9th , LPS, Lucknow



**IInd Prize :** Avantika Katiyar  
Class-9th, Seth MR Jaipuria



**IIIrd Prize:** Aditi Verma  
Class-9th, CMS Indiranagar



**Consolation Prize:** Ravisha Raj  
Class 9th, CMS Indiranagar



Some of The Photographs of Team Activities

**Visit to Dudhwa National Park, Pilibhit Tiger Reserve, Katarniaghat Wildlife Sanctuary, Suhelwa Wildlife Sanctuary (1st-3rd September 2015)**



Awarness at Adarsh Janta Vidyalaya, Umarpur, Kheri



Awareness at Prathmik Vidyalaya, Kheri



Prathmik Vidyalaya, Kumbhi, Gola, Kheri



Awareness Amongst Students at Guru Harikishan Degree College, Kheri



Awareness Amongst Students at Guru Harikishan Degree College, Kheri



Awareness Amongst Forest Officials

**Visit to Unnao, Moath, Jhansi, Orcha, Lalitpur, Deogarh  
(1st-3rd September 2015)**



Awareness regarding vulture status in Unnao



Awareness in School (Jhansi)



Awareness amongst school children (Jhansi)



Awareness amongst forest officials in Jhansi



Awareness amongst school children



Distribution of flyers in school students (Orcha)



## Visit to GONDA (4th September 2015)



Awareness in School children, Gonda



Amongst Teachers, Gonda



Awareness in Prathmik vidyalaya, Gonda



Awareness in Prathmik vidyalaya, Gonda



Awareness regarding importance of vultures by volunteers



Awareness in school, Gonda



Awareness in Fatima school, Gonda



Awareness material distribution to Father Principal, Fatima School, Gonda

### Visit to RAE-BAREILLY, 4th September 2015



Awareness in school students, Rae- bareilly



Distribution of pamphlets amongst students



Distribution of awareness material in Rae-Bareilly



Awareness in school students, Rae -bareilly



Awareness regarding role of culture in food chain



Awareness among local people

### Visit to UNNAO 4th September 2015



Awareness in school students, Rae- bareilly



Distribution of pamphlets amongst students



Distribution of awareness material in Rae-Bareilly



Awareness in school students, Rae -bareilly

## Glimpses of the Competitions held at Regional Science City, Lucknow (5th September 2015)



Participants of Art Competition



Participants of Quiz Competition



Participants of Rangoli Competition



Prize Distribution to Winner



Prize Distribution to Winner



Prize Distribution to Winner



Books As Prize Given to Winners



Participants of Competition



Volunteers and Winners of Different Competitions Held at Regional Science City, Aliganj

### (E) Wildlife Week (1st -7th October 2015)

The U.P. State Biodiversity Board, Lucknow celebrated Wildlife Week from 01 – 07 October, 2015 in collaboration with Department of Zoology, University of Lucknow, Regional Science City, Lucknow and South Asian Network of the International Zoo Educators Association, Coimbatore Tamil Nadu.

The programme aimed at creating awareness among the youth to have a passionate heart for the biodiversity around them. During the celebration, several competitions for students were organized to raise consciousness i

## 1st October 2015

The 7 days programme for Wildlife Week started from 1st October 2015 at Regional Science City involving participants from more than 100 schools and Colleges of Lucknow. The students of different colleges acted Street Drama based on stories of Panchtantra promoting Wildlife Conservation. Around 40 students took part in Nukkad Natak competition on the first day of Wildlife week 2015. The winners are as follows:- favour of wildlife preservation. The details of the events are furnished below:

### Nukkad Natak - Date:- 01-10-2015

#### Group B (9th - 12th)

Prize	Name	Class	School/ Institution
First	Anurag Kumar Sharma	11th	H.A.L. School
	Anjali Tiwari	11th	H.A.L. School
	Shubham Barti	11th	H.A.L. School
	Akash Singh	11th	H.A.L. School
	Rahul Yadav	11th	H.A.L. School
Second	Debarka Das	10th	Rajkumar Academy
	Kaif Khan	11th	Rajkumar Academy
	Ayush Soni	11th	Rajkumar Academy
	Abhishek Srivastava	9th	Rajkumar Academy
	Mayank Joshi	9th	Rajkumar Academy

#### Group C (Mixed Group)

First	Aditya Trivedi	B.Sc. IIIrd	National P.G College
	Avantika Singh	LLB IVth	University of Lucknow
	Ravi Shakhya	B.Sc. IInd	Lucknow Christian College
	Shipra Sharma	M.Sc. Ist	University of Lucknow
	Asif Ahmad Siddiqui		University of Lucknow
Second	Priyanka Pandey	M.Sc IInd	University of Lucknow
	Kanishka Singh	M.Sc IInd	University of Lucknow
	Kavita Verma	M.Sc IInd	University of Lucknow
	Preeti Pandey	M.Sc IInd	University of Lucknow

## 2nd October 2015

2nd October, the second day of the wildlife week program included several events such as quiz competition on Wildlife" followed by the Debate Hindi/English on the topic "Ecotourism is Boon or Bane" and then the poem recitation competition on the topic, "Butterflies". The concerned judges were Prof. R.C Tripathi for Hindi Debate and Dr. Sanjay Pandey for English Debate the students participated with zest in the competitions showing concern for the Wildlife. There was a lecture by a Prof. A.K Sharma, Department of Zoology, University of Lucknow on Biodiversity of Protozoans. The judges for Hindi poem recitation were Prof. Padma Saxena and Archana Shukla and Dr. Monisha Banerjee and Dr. Ashish Kumar for English recitation. Approximately 200 students participated in the competitions exploring their knowledge about Wildlife.

### Winners of different events held on 2nd October

#### Wildlife Quiz Contest - Date:- 02-10-15

##### Group B (9th - 12th)

Prize	Name	Class	School/ Institution
First	AbhudaiTiwari	11th B	St. Joseph Inter College
First	ShreyaMaurya	11th	HAL School
Second	Satyendra Km. Maurya	9th	Rajkumar Academy
Second	ShivankSrivastava	11thB	St. Joseph Inter College
Second	ShreyamTiwari	11thB	St. Joseph Inter College
Third	Saumya Singh	12th	HAL School
Third	AditiGahlot	12th	HAL School
Third	HimanshuOjha	11th	St. Joseph Inter College

#### HINDI DEBATE : (Ecotourism is Boon or Bane) - Date :- 02-10-15

##### Group A (5th - 8th)

Prize	Name	Class	School/ Institution
First	Anshika Chaudhary	-	New Way Senior Secondary

##### Group B (9th - 12th)

First	Shatakshi Dixit	-	Rajkumar Academy
Second	ShivankSrivastava	-	St. Joseph Inter College
Third	ShreyaMaurya	-	H.A.L
Consolation	Aman Singh	-	H.A.L



Prize	Name	Class	School/ Institution
<b>Group C (Under Graduate &amp; Post Graduate)</b>			
First	Supriya Gupta	B.Sc. IIIInd	NavyugMahavidyalaya
Second	PriyankaPandey	M.Sc. IInd	University of Lucknow

### **ENGLISH DEBATE : (Ecotourism is Boon or Bane) Date :- 02-10-15**

#### **Group B (9th - 12th)**

Prize	Name	Class	School/ Institution
First	Saurabh Sharma	11th	Central Academy
Second	ArifaUsmani	11th	H.A.L
Third	Devtanya	11th	Rajkumar Academy
Consolation	RaghavRatanBakshi	10th	Rajkumar Academy

#### **Group C (Under Graduate & Post Graduate)**

First	Saumya Sharma	B.Sc. Ist	University of Lucknow
Second	Anupama Roy	-	University of Lucknow
Third	AdityaTrivedi	B.Sc. IIIrd	National P.G College
Consolation	AdityaTiwari	B.Sc. IInd	University of Lucknow

### **Hindi Poem Competition - Date :- 02-10-15**

#### **Group A (5th - 8th)**

Prize	Name	Class	School/ Institution
First	AtulitPandey	4th	Dr. Virendra Swaroop Public School
Second	SwekshaAgnihotri	6th	Loreto Convent
Third	ShivanshuPrajapati	5th	Bright Way College
Consolation	Swastika Tripathi	5th	St. Joseph Inter College

#### **Group B (9th - 12th )**

First	Noopur Chandra	9th	H.A.L School
Second	Abhishek Km. Shukla	9th	H.A.L School
Third	AbhudaiTiwari	9th	St. Joseph Inter College

### Group C (Undergraduate & Postgraduate)

First	Ravi Shakya	B.Sc. IInd	Lucknow Christian College
Second	Ruchi Pandey	M.Sc. IInd	Lucknow University
Third	Prabal Gupta	BCA Ist	UPTEC
Consolation	Ramila Mira	B.A IInd	Maniben Nainavati Women's College

### English Poem Competition- Date :- 02-10-15

#### Group A (5th - 8th )

Prize	Name	Class	School/ Institution
First	Suhani Singh	5th	La-Martiniere
Second	Riddhi Chaudhary	5th	CMS
Third	Riddhma Mehrotra	4th	CMS
Consolation	Sarthak	4th	CMS

#### Group B (9th - 12th )

First	Pratiksha Rajput	11th	HAL
Second	Anjali Rajput	11th	HAL
Third	Shivank Srivastava	11th	St. Joseph Inter College
Consolation	Sakshi Singh	11th	HAL

### Group C (Undergraduate & Postgraduate)

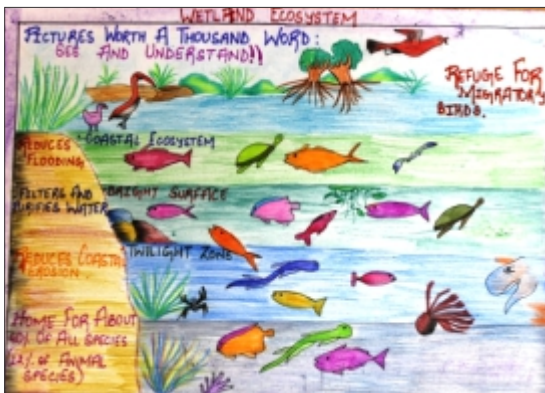
First	Aditya Tiwari	B.Sc. IInd	Lucknow University
Second	Vishwa Vyas	B.And	NNW, Mumbai
Third	Priyanka Pandey	M.Sc. IInd	Lucknow University
Consolation	Shivani Bhosle	B.A	NNW, Mumbai

### 3rd October 2015

3rd October, the third day of the wildlife week program includes several events. Approximately 150 students from various schools/colleges participated in these events awakening people to "Restore Wildlife". The events of the third day include Poster/Painting competition on "Wetlands Ecosystem" followed by the Collage competition on the topic "Plants in Indian Mythology" and Greeting card making competition on the topic "Wild Flowers". The concerned judges were Prof. Padma Saxena, Prof. Madhu Tripathi Head Department of Zoology for all the three competitions and Prof. Vineet Pandey, Dr. Ratan Kumar and Dr. Ravi Kant Pandey respectively. The students participated enthusiastically in the competitions showing concern for the Wildlife. In the array of



the competitions, the students participated in Face painting competition on the topic “Face of Animals” and last bit not the least Mimicry competition on the topic “Indicating voice of Animals”. The judges were Dr. Suchit Swaroop for both competitions and Mr. K.K. Chatterjee and Mr. Ram Kumar respectively. Hundreds of students participated in the competitions of winning and losing and exploring their knowledge about Wildlife



Group A, First Prize: Anishaa Pandey,  
 Class 7th, St. Paul's College



Group A, Second Prize: Ananya Singh,  
 Class 5th, C.M.S.



Group A, Third Prize: Aradhya Dixit,  
 Class 5th, C.M.S.



Group A, Consolation: Jahanvi Shukla  
 Class 5th, L.M.G.C



Group B, First Prize: Navika Srivastava  
 Class 11th, M.V.M.P School



Group B, Second Prize: Anchal Mehrotra  
 Class 10th, M.V.M.P School

## Poster/Painting competition



Group B, Third Prize: Adarsh Srivastava  
Class 11th, Swarnima Public School



Group B, Consolation: Pooja Kumari, Class 11th, HAL



Group C, First Prize: Archana  
Class B.Sc. IIIrd, Lucknow University



Group C, Second Prize: Jyoti Bala  
Class B.Sc. IInd, National P.G College



Group C, Third Prize: Poonam Kumari Pathak  
Class B.Sc. IVth, National P.G College



Group C, Consolation: Aditya Awasthi  
Class B.Sc. IInd, Lucknow Christian College



## Collage Competition



Group A, First Prize: Shambhari Gupta  
Class 7th, Rajkumar Academy



Group A, Second Prize: Khushi Sahu  
Class 8th, Rajkumar Academy



Group A, Third Prize: Ananya Chaudhary  
Class 5th, CMS



Group A, Consolation: Umara Khatoun  
Class 4th, CMS



Group B, First Prize: Divyansha Gupta  
Class 11th, HAL



Group B, Second Prize: Jyotsana Bajpai  
Class 11th, Rajkumar Academy



Group B, Third Prize: Vansh Shukla  
Class 10th, Montfort Inter College



Group B, Consolation: Sandhy Bharti  
Class 11th, HAL



Group C, First Prize: Amna Akhlaq  
Class B.Sc. IIIrd, National P.G College



Group C, Second Prize: Tulika Khare  
Class B.Sc. IIIrd, National P.G College



Group C, Third Prize: Shalini Prajapati  
Class M.Sc. Ist, Lucknow University



Group C, Consolation: Archana  
Class B.Sc. IIIrd, Lucknow University



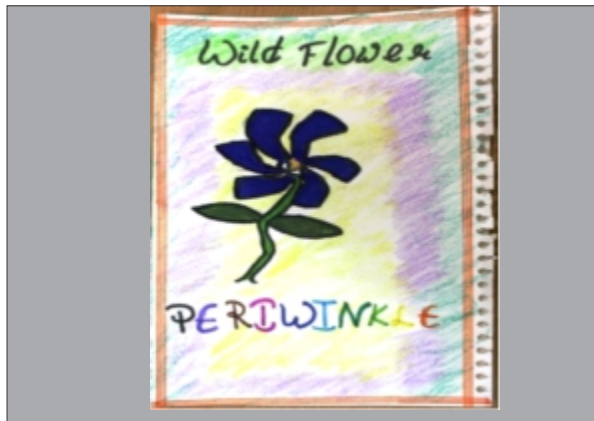
## Results of Greeting Card Competition



Group A, First Prize: Suhani Singh  
Class 5th, La Mart Girls' College



Group A, Second Prize: Syed Ramsha  
Class 7th, Rajkumar Academy



Group A, Third Prize: Divansh Mishra  
Class 6th, New Way School



Group A, Consolation: Khushi Tewari  
Class 7th, St. Paul's College



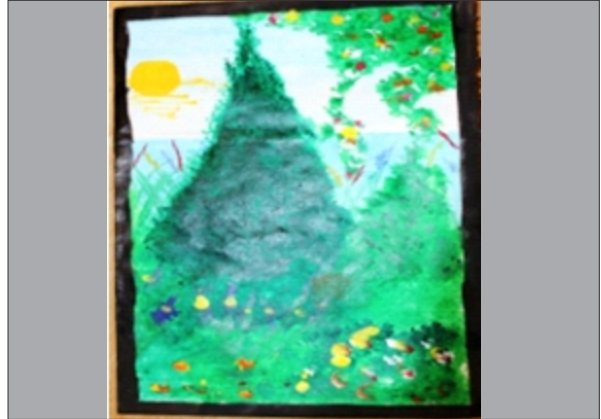
Group B, First Prize: Harsh Gupta  
Class 11th, Rajkumar Academy



Group B, Second Prize: Rupanshi Mishra  
Class 10th, Loreto Convent



Group B, Third Prize: Shivank Srivastava  
Class 11th , St. Joseph Inter College



Group B, Consolation: Adarsh Srivastava  
Class 11th, Swarnima Public School



Group C, First Prize: Anshu Sahu  
Class B.Sc., National P.G College



Group C, Second Prize: Swati Tripathi  
Class B.Sc. IIIrd , National P.G College



Group C, Third Prize: Tulika Khare  
Class B.Sc. IIIrd , National P.G College



Group C, Consolation: Swati Singh Yadav  
Class B.Sc. IIIrd, Bhartiya Vidya Bhawan Girl's Degree College



## Results of Face painting Competition:

### Group B (9th - 12th)

Prize	Name	Class	School/ Institution
First	Harsh Gupta	11th	Rajkumar Academy
Second	Sonalisha Srivastava	11th	HAL School
Third	Sakshi Singh	11th	HAL School
Consolation	Anand Mishra	12th	St. Merry's School

### Group C (Under Graduate & Post Graduate)

First	Nutan Pandey	M.Sc. Ist	University of Lucknow
Second	Sheetal Dhanker	B.Sc. IInd	University of Lucknow
Third	Harsh Kaushik	M.Sc. Ist	Shia P.G College
Consolation	Shipra Sharma	M.Sc. Ist	University of Lucknow

## Results of Mimicry Competition

### Group B (9th – 12th)

Prize	Name	Class	School/ Institution
First	Gurdeep Kanaujia	12th	HAL School
Second	Subranshu	12th	HAL School

### Group C (Under Graduate & Post Graduate)

First	Ruchi Pandey	M.Sc. (M.C)	University of Lucknow
Second	Harsh Kaushik	M.Sc. Ist	Shia P.G College
Third	Ravi Shakya	B.Sc. IInd	Lucknow Christian College
Consolation	Aditya Tiwari	B.Sc. IInd	University of Lucknow



Students participating in Mimicry Competition

#### 4th October 2015

On day 4th day of Wildlife Week two programs were conducted- Power Point Presentation and Slogan Writing. The topic of Power Point Presentation was “Importance of green corridors in wildlife conservation” and that of Slogan Writing was “Wildlife and its conservation”. Different schools had participated in different programs. Schools such as CMS, Loreto Convent, HAL School, Maharishi V.M.P.S, Rajkumar Academy, Montfort Inter College, HAL, La Martiniere G. College and colleges such as Bhartiya Vidya Bhawan Girls College, National P.G Collge, Maharaja Bijli Pasi Govt. PG College, Lucknow Christian College, and University of Lucknow had won the prizes. In Power Point Presentation only group B and C took part while In Slogan Writing all the three groups A, B and C had participated. Dr. Ram Jee Srivastava, Dr. Sanjay Pandey, Dr. Diksha Sharma were the judges of Power Point Presentation. Prof. A.K. Sharma, Dr. Archana Shukla, Dr.Rekha Rani were the judges of Slogan Writing.

#### Power Point Presentation - Date :- 04-10-15

##### Group A (5th – 8th)

Prize	Name	Class	School/ Institution
First	Sparsh Sumani	5th	CMS

##### Group B (9th - 12th)

First	Rupanshi Mishra	10th	Loreto Convent
Second	Aishwarya Srivastava	12th	HAL School
Third	Shivam Kumar	10th	Maharishi V.M.P.S
Consolation	Saksham Sahu	11th	Rajkumar Academy

### Group C (Under Graduate & Post Graduate)

Prize	Name	Class	School/ Institution
First	Shipra Sharma	M.Sc. Ist	University of Lucknow
Second	Nitya Dubey	B.Sc. IIIrd	Bhartiya Vidya Bhawan Girls College
Third	Aditya Awasthi	B.Sc. IInd	Lucknow Christian College
Consolation	Shilpa Singh	B.Sc.Vth	National P.G College

### Slogan Writing Competition- Date :- 04-10-15

#### Group A (5th – 8th)

Prize	Name	Class	School/ Institution
First	Riddhi Chaudhary	5th	CMS
Second	Sweksha Agnihotri	6th B	Loreto Convent
Third	Suhani Singh	5th B	La Martiniere G. College
Consolation	Natalia	5th E	CMS

#### Group B (9th - 12th)

First	Abhishek Km. Shukla	11th	HAL
Second	Anshul Singh	10th	Montfort Inter College
Third	Shirish Parashar	10th	Montfort Inter College
Consolation	Harsh Gupta	11th	Rajkumar Academy

#### Group C (Under Graduate & Post Graduate)

First	Ravi Shakya	B.Sc. IInd	Lucknow Christian College
Second	Shipra Sharma	M.Sc. Ist	University of Lucknow
Third	Shalini Prajapati	M.Sc. Ist	University of Lucknow
Consolation	Durga Pandey	B.Sc. IIIrd	Maharaja Bijli Pasi Govt. PG College

### 5th October 2015

On 5th day of Wildlife Week 2015, the students presented their devotion for nature through colors by participating in the first event of a day i.e. “Rangoli Competition”. Around 200 participants with full enthusiasm took part in “Rangoli” competition on the topic “Forest Biodiversity”. After Rangoli competition Mr. Sachin Vaishampayan, Marine Biologist gave presentation on Marine



Biodiversity. Then there was Pictorial Quiz on Wildlife. Around 100 students actively took part in Quiz competition. Finally it was the judgment day of photography competition which started from the very first day of Wildlife Week. Students from different colleges very enthusiastically took part in photography competition and pasted the photographs clicked by them on the board.

### **6th October 2015**

On 6th day, All the winners along with teachers and volunteers went to Nawabganj bird sanctuary, Unnao for Nature trail to promote and encourage the participants regarding conservation of fauna and flora . Prof. Amita Kanaujia and Prof. Padma Saxena awared students about Water birds (like Cattle egret , Intermediate egret, Pond Heron ,Black Headed Ibis, Peacock Indian roller, White breasted King fisher Red wattled Lapwing ,Butterflies such as Plain tiger, Common Jay Blue tiger, Common jezebel ( Common jay), dragon fly (Ditch jewel ), monkeys and many wild plants. Students enthusiastically walked miles in order to explore the wildlife present there. Finally at the end of the day all the students, volunteers and teachers returned back.

### **7th October 2015**

The commencement of the Wildlife Week started with full enthusiasm and zeal same way, the closing ceremony was held. The valedictory function was scheduled on the last day of Wildlife Week, the ceremony was inaugurated by the chief guest the Officiating Vice Chancellor of University of Lucknow Prof. U.N Dwivedi. The other guests welcomed were Prof Nirupama Agarawal, Dean Faculty of Science and Prof. Madhu Tripathi, Head, Dept. of Zoology, Mr. Soumen Ghosh, Curator, Regional Science City. On this special occasion Prof. Padma saxena ,Prof. A.m. saxena, Dr. Suchit Swaroop, Dr. Rana mam as well as teachers and students of different collages/ schools also present. Prof. Amita Kanaujia welcomed all the guests and Chief guest by tying wildlife rakhi. On this day, the prizes were distributed to the winners of various competitions that were held during the Wildlife Week. The students from different schools and colleges actively participated in different events in Wildlife Week 2015. Invitation was sent to more than 250 schools and colleges of Lucknow. The students from different schools such as HAL, Rajkumar Academy, Mahila Degree College, Shia PG College, and St. Pauls' College etc actively participated .Under the supervision of Prof. Amita Kanaujia, Department of Zoology, University of Lucknow , Mr. Adesh Kumar, Shivangi Mishra, Daya Shanker Sharma, Akansha Sinha, Ankit Sinha, Ruby Yadav, Vandana Dhiman, Jyoti Yadav, Kamran Warsi, Aman Singh, Kapil Verma have done painstakingly work to conduct the Wildlife Week successfully this year.

## Glimpses of the Competitions held at Regional Science City, Lucknow (5th September 2015)



Participants of Art Competition



Participants of Quiz Competition



Participants of Rangoli Competition



Prize Distribution to Winner



Prize Distribution to Winner



Prize Distribution to Winner



Awareness Materials Distributed during Wildlife Week

Awareness Pamphlets



## (F) World Wetlands Day, 02nd Feb, 2016

The Ramsar Convention chose Theme: **“Wetlands for our Future: Sustainable Livelihoods”** as the World Wetlands Day theme for 2016.



The U.P. State Biodiversity Board celebrated **World Wetland Day** on 2nd February, 2016 in collaboration with Biodiversity and Wildlife Conservation Lab, Department of Zoology and University of Lucknow. The programme aimed at creating awareness for the wetland conservation among the students of schools and colleges and local people of the Uttar Pradesh.

The theme chosen for World Wetlands Day 2016 is **“Wetlands for our Future; Sustainable Livelihoods”**. There will be an emphasis on the agriculture and wetland sectors working together along with the sustainable livelihoods services provided by the wetlands.

On *2nd February 2016*, the programme started with flagging off of wetlands awareness and wetlands birds' diversity surveying cars by Prof. Amita Kanaujia, Department of Zoology, and University of Lucknow motivated the volunteers to explore the wetlands and the probable threats. Four teams with volunteers set out at 6:30 am to various places to discover the wetland's biodiversity.



View of Awareness Campaign in Etawah District



Creating Awareness among Schools and Students

The aim of the survey was to explore wetlands in Uttar Pradesh i.e. (Sitapur, Shahjahanpur, Etawah, Safai and Mainpuri Districts), to study the flora and fauna in the identified wetlands, to study the threats to wetlands and its biodiversity and aware local community and students about the wetlands, their threats, biodiversity and conservational requirements. Several research scholar, students and volunteers went at different sites of Uttar Pradesh via awareness cars to search, explore new wetland areas and study the wetlands biodiversity, their threats as well as to create awareness in students (4000) and local people.

The awareness cars visited following areas in Uttar Pradesh and explore 23 wetlands in following districts:

### **Shahjahanpur: 3 wetlands**

- Nagara Hazi Wetlands, Shahajhanpur- 33of wetlands birds species
- Kalana Wetlands-31of wetlands birds species
- Umarganj Wetlands, Shahjahanpur-24 of wetlands birds species

### **Etawah: 4 Wetlands**

- Lohia KalaPokhar, Safai- 39 of wetlands birds species
- Sarsai Naagar, Etawah- 75 of wetlands birds species
- Baralok Taalab, Etawah- 23 of wetlands birds species
- Jaitpur Totaram Taalab, Etawah- 21 of wetlands birds species

### **Mainpuri: 2 wetlands**

- Sahas Taal, Mainpuri-59 of wetlands birds species
- Bujia Taal, Mainpuri-43 of wetlands birds species



### **Sitapur: 14 wetlands**

- Dubainiya Taal, Kursinpurwa, Sitapur- 29 of wetlands birds species
- Bada Taal and Sanaiya Taal, Mujjaffarpur, Sitapur-44 of wetlands birds species
- Bhabhni Taal, Gaudapur, Sitapur- 33 of wetlands birds species
- Jamayattpur ka Taal, Sitapur-34 of wetlands birds species
- Kakroha , Tikariya, Sitapur- 45 of wetlands birds species
- Dhibatti and Dhigwaha, Persendi Sitapur- 44 of wetlands birds species
- Badakka and Ramkundi taal, Itahari, Sitapur- 43 of wetlands birds species
- Bhella and Chamraiyya, Angresi, Sitapur-55 of wetlands birds species
- Tendua Jheel, Tendua Sitapur- 52 of wetlands birds species

All these above jheels / ponds are varying from areas about 15-500 hectares in range. The biodiversity studied in these areas include Phytoplankton's like Algae, Typha, green algae, Ricinus, Calotropis, Ichornia, water lily, Lantana, Ipomia, Dhatura, Acascia, Saptrparni, Lotus, Hydrilla, Shawni, Jalrani, Sarataphillum, Water clove, Heliotropium, Riccinus, Madar etc. Fishes like Rohu, Grass cutter, Girai, Channa, Heteropneustis fossilis, Clarius, Puntius and many others also. Some snails like apple snail, amphibians like Skipper frog, Turtle like Lyssimus punctata, Dragonfly, and other insects, and earthworm also were seen during the survey. Birds such as Lapwing, Jacana, whistling Duck, Little cormorant, Great cormorant, Peacock, Red Crested Pochard, Grey leg goose, Purple morehen, Common Pochard, Indian pond heron, Purple heron, Little grebe, Common pygmy goose, Gadwall, Spot bill Duck, Eurasiun wigeon, Northern pintail, Lesser whistling Duck, Garganey, Asian open bill, Painted storks, Sarus crane, pied Kingfisher, White throated kingfisher, Common Kingfisher, Common Coot, Painted storks. Most of the areas studied are unconserved and if maintained can prove to be a beautiful ecotourism place in this way these wetlands can be conserved which will further conserved the floral and faunal diversity which have been studied.

### **(G) World Sparrow Day – 20th March, 2016**

The House Sparrow or Gauraiya is one of the most common birds found in many parts of the world and they belong to the family of small passerine birds- Passeridae. They are characterized by short legs and thick conical bill.

Therefore, the conservation of the house sparrow and its habitat will also help save much of the common biodiversity, which shares the habitat of the house sparrows. The goal is to collectively inspire others to join the celebrations and to get as many people as possible involved in the conservation of house sparrows and their habitat across the planet.



This year on 20th March 2016, World Sparrow Day was celebrated with great enthusiasm and fervor. A noble initiative of Chief Minister of U.P., who is so active in conserving the State natural habitat besides achieving sustainable development. The event was inaugurated by Hon'ble Chief Minister of Uttar Pradesh, Shri Akhilesh Yadav. Some of the highlights of the World Sparrow Day celebration are as follows:



- On this special occasion, a book and a CD on sparrows was released on the theme of sparrows that would promote the message of conservation of sparrows.
- A photo exhibition on sparrows had also been held on the same day.
- Those people who have a great contribution towards the conservation of sparrows had been honored on this auspicious occasion and awarded the “Gauriya Mitra Puraskar”. This award is presented only to those who manage to conserve the highest number of sparrows in the state.
- Many officers have been given the role in monitoring the houses with sparrow nests so that they remain in a well-functioning condition.
- The event witnessed mass participation and around 1 Lakh nests were restored. A cycle rally was organized to take forward the message for sparrow conversation and a film and an exhibition were displayed for the protection of sparrow population.

Besides, Uttar Pradesh State Biodiversity Board in collaboration with Biodiversity and Wildlife Conservation Lab, Department of Zoology, University of Lucknow started a mass awareness program in and around the Lucknow city. During this program various awareness campaigns were organized along with the distribution of artificial nest boxes and awareness drives in the city. In which around 300 nest boxes were distributed in different schools of Lucknow, Meerut University and Jhansi. For the installation of nest boxes an initiative program “Gharaunda 700” was also been started by Biodiversity and Wildlife Conservation Lab, Department of Zoology, University of Lucknow, whose aim was to install 700 artificial nest boxes in the city for sparrow conservation.

In continuation with this awareness program, a sparrow week was also celebrated from March 15th to 20th, 2016 in Regional Science City, Lucknow. In sparrow week, it was inaugurated



## Glimpses of Sparrow Day Celebration



by Prof. Amita Kanaujia by lamp lighting and a lecture. Various events like poster making, Rangoli, Poetry, greeting card making, quiz, slogan writing, tattoo making, nukkad natak etc. were organized during this week about 400 students of 35 schools from class 5th to 12th were Participated in various competitions. Numerous schools like C.M.S., Jaipuria, Tagore memorial, Vandana Montessori etc. participated very enthusiastically in the competitions and most of the students won the prizes and have taken an oath to conserve sparrow. By the end of sparrow week a stall was put on Regional Science City to distribute bushy plants, artificial sparrow nests and





## Glimpses of Sparrow Day Celebration





# Human Resource Development

1. Sri Pawan Kumar, Secretary, U. P. State Biodiversity Board, Lucknow attended 10th Annual Meeting of the State Biodiversity Boards (SBBs) organized by The National Biodiversity Authority (NBA) at the national level on 25th and 26th August 2015 at New Delhi.

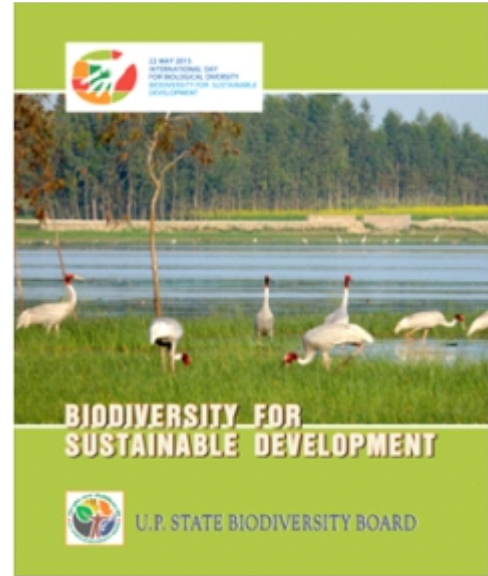
The Tenth National Meeting of the SBBs got inaugurated by Shri Ashok Lavasa, IAS. Secretary, Ministry of Environment, Forest and Climate Change (MoEFCC), Government of India on 25th August. The Members of the Authority, Chairpersons of the Expert Committees and Chairperson and Member Secretaries of 26 State Biodiversity Boards took part in the event.

This meet served as a platform to share the experiences among the SBBs on the implementation of the BD Act at national, state and local levels and deliberated the future plans and to meet the challenges of effective implementation of the Act .

2. Dr. Somesh Gupta, GIS/Technical Associate, U.P. State Biodiversity Board, Lucknow imparted training on various aspects of Biodiversity to the trainees at Forestry Training Institute, Kanpur.

# Publications

1. On the occasion of International Day for Biological Diversity-2015, a souvenir on “Biodiversity for sustainable Development” was published with 32 articles related to the theme in 222 pages.



2. Dr. Somesh Gupta, GIS/Technical Associate, U.P. State Biodiversity Board, Lucknow imparted training on various aspects of Biodiversity to the trainees at Forestry Training Institute, Kanpur.

a) Volume 6, Issue 23 (Apr –Jun 2015)

a) Volume 6, Issue 23 (Apr –Jun 2015)





c) Volume 6, Issue 25 (Oct –Dec 2015)

d) Volume 6, Issue 26 (Jan –Mar 2016)

**UP State Biodiversity Board**  
**BIODIV News**  
 Volume : 6 Issue : 25 Oct - Dec 2015 A Quarterly e-Newsletter

**Editorial**

**Esteemed Readers,**

This quarter, the Pratih Bus was inaugurated at Faizabad District. The event was organized in Faizabad Conservation Office, Uttar Pradesh on on 02 November 2015. Shri. Rajendra Kumar Pandey, IAS, Faizabad appreciated the efforts of UPSBB, CDE and Lucknow University for this very important initiative and asked to take Pratih Bus in all Schools of Faizabad District. Shri. Ravi Singh, DFO and Shri. Rajendra Kumar Pandey, IAS, Faizabad supported the Pratih Bus. After the welcome event of Pratih Bus in Faizabad District, the mobile bus started moving in schools of the district. 48719 'tonnals' were recorded during the month of October 2015 to December 2015.

The Wildlife Week was also celebrated during 01 – 07 October 2015 in collaboration with Department of Zoology, University of Lucknow, Regional Science City, Lucknow and South Asian Network of the International Zoo Education Association, Comberia Tamil Nadu. The programme aimed at creating awareness among the youth to have a passionate heart for the biodiversity around them. Several competitions for students were organized to raise consciousness in favour of wildlife preservation. The details of the events are given below.

We hope that you will find this Newsletter both interesting and informative.

Regards,  
 – Editor

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- 4. Inauguration of Pratih Bus in Faizabad District (02 Nov. 2015) 01
- 5. Inauguration of Pratih Bus in Faizabad District (02 Nov. 2015) 01

**"We should preserve every scrap of biodiversity as priceless while we learn to use it and come to understand what it means to humanity."**  
 – E. O. Wilson

**UP State Biodiversity Board**  
**BIODIV News**  
 Volume : 7 Issue : 26 Jan - March 2016 A Quarterly e-Newsletter

**Editorial**

**Esteemed Readers,**

With joy and a very happy and prosperous New Year 2016!

In this quarter, Pratih Mobile Bus a mobile exhibition on biodiversity visited Faizabad, Faizabad on the occasion of International Conference on Conservation of Birds and Mammals. During its visit, over 200 students and 200 other visitors were benefited from Pratih Mobile Bus.

"Worlds for our Future: Sustainable Livelihood" is the World Wildlife Day theme for 2016. We celebrated this day on 03rd February 2016 in collaboration with Biodiversity and Wildlife Conservation Lab, Department of Zoology and University of Lucknow. The programme aimed at creating awareness for the wildlife conservation among the students of schools and colleges and other people of the Uttar Pradesh, in which college students had the opportunity to visit mobile bus and study them.

Uttar Pradesh Forest Department organized an event to raise awareness about wildlife conservation on World Sparrow Day, March 20, 2016 at Jaipurwala Market, Sector Nagar Lucknow under the campaign "Green is a P. Clean is a P." month Chief Minister of Uttar Pradesh, Shri. Akhilesh Yadav along with approval experts of National and International level appreciated this initiative.

Besides, U.P. State Biodiversity Board Lucknow also celebrated World Science Day by organizing a special week in collaboration with Biodiversity and Wildlife Conservation Lab, Department of Zoology, University of Lucknow from 10th to 20th March, 2016 in Regional Science City, Lucknow. In special week, various events like poster making, Rangoli, Poem, greeting card making, quiz, slogan writing, table making, model making etc. were organized and about 400 students of 36 schools from Faizabad, Mirzapur participated actively in various competitions.

Your comments, suggestions to improve this issue are most welcome at [upstatebiodiversityboard@gmail.com](mailto:upstatebiodiversityboard@gmail.com).

Regards,  
 – Editor

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**"Each species is a masterpiece, a creation assembled with extreme care and genius."**  
 E. O. Wilson

3. Environment Calendar

S.No.	Month	Date	Event	Theme	Logo
1	February	2 <sup>nd</sup>	World Wetlands Day	"Wetlands for our Future"	
2	February	28 <sup>th</sup>	National Science Day	"Science for Nation Building"	
3	March	3 <sup>rd</sup>	World Wildlife Day	"Let's go wild for wildlife"	
4	March	8 <sup>th</sup>	Big Bird Day	--	
5	March	20 <sup>th</sup>	World Sparrow Day	"Let's come together to save Sparrows"	
6	March	21 <sup>st</sup>	International Day of Forests	"Forests   Climate   Change"	
7	March	22 <sup>nd</sup>	World Water Day	"Water and Sustainable Development"	
8	March	23 <sup>rd</sup>	Earth Hour	"Change Climate Change"	
9	April	22 <sup>nd</sup>	Earth Day	"It's your turn to lead"	
10	April	25 <sup>th</sup>	Save the Frogs Day	--	
11	May	2 <sup>nd</sup> (second week of May 2015)	World Migratory Bird Day	--	
12	May	22 <sup>nd</sup>	International Day of Biological Diversity	"Biodiversity for Sustainable Development"	
13	May	23 <sup>rd</sup>	World Turtle Day	--	
14	May	27 <sup>th</sup>	International Ostrich Awareness Day	--	
15	June	5 <sup>th</sup>	World Environment Day	"One World One Environment"	
16	June	8 <sup>th</sup>	World Oceans Day	"Healthy oceans, healthy planet"	
17	July	1 <sup>st</sup> to 7 <sup>th</sup>	Van Mahotsav	--	
18	July	29 <sup>th</sup>	International Tiger day / Global Tiger Day	--	
19	August	4 <sup>th</sup>	International Owl Awareness Day	--	
20	September	1 <sup>st</sup> (second week of Sep 2015)	International Vulture Awareness Day	--	
21	September	16 <sup>th</sup>	International Day for Preservation of the Ozone Layer	--	
22	October	4 <sup>th</sup> (second week of Oct. 2015)	World Habitat Day	--	
23	October	1 <sup>st</sup> to 7 <sup>th</sup>	Wildlife Week	--	
24	November	21 <sup>st</sup>	World Fisheries Day	--	
25	December	2 <sup>nd</sup>	National Pollution Control Day	--	
26	December	5 <sup>th</sup>	World Soil Day	"Soils, a solid ground for life"	

4. Flyer - Bats

**Diversity of Bats in Uttar Pradesh**

**About Bats:**

Bats make a significant contribution to mammalian species richness and biomass in the tropics. About 1222 known species of bats have been distributed worldwide and the Indian subcontinent accommodates about 219 bat species. The tropicid bats are important pollinators and seed dispersing agents for a number of ecologically and economically important plants. The microchiropterans bats are important for agro-ecosystem as they consume nocturnal insect pests and play a major role in regulating insect population.

**Status of Bats in U.P.:**

To fill the lacuna on bat diversity in Uttar Pradesh, an elaborate study was carried between 2012 - 2013 at various districts of Uttar Pradesh such as Lucknow, Barabanki, Aunshahr nagar, Jaunpur, Meer, Faizabad, Basti, Pratapgarh, Saharanpur, Allahabad, Saharanpur, Agra, Ferozabad, Chitrakoot, Buli, Varanasi, Chandauli, Mirzapur, Hamir, Jaunpur, Gorakhpur, Banda, Kanpur, Unnao, Gonda, Balrampur, Bahraich, Ghazipur, Meerut, Etawah, Jaunpur, Lalitpur (Tilhar), Mahoba, Deoria, Bijnor, Muzaffarnagar and Baghpat.

**Species of Bats:**

In the state of Uttar Pradesh, total of three tropicid bat species such as Indian flying fox, *Pteropus pipitonus*, *Lasiurus bhoirathi*, *Rousettus leachmani* and the short-eared fruit bat, *Corynorhinus gibbus* (Pteropodidae) have been identified. In addition, seven of eight insectivorous bat species such as Indian false vampire bat, *Myotis indus* (Myotisidae), the false roundleaf bat, *Hippotisidurus fulvus* (Hippotisididae), the naked ramped tomb bat, *Eptesicus audyverrii* (Eptesicidae), the lesser mouse-tailed bat, *Ethonyomus haroldi* (Ethinomyidae), the greater mouse-tailed bat, *Ethinomyia micropylagus* (Ethinomyidae), *Kobus pipitralis*, *Pipistrellus coromanchi* (Vesperugo), *Eidolon pipitralis*, *Pipistrellus nipalensis* (Vesperugo) and Asian greater yellow leaf-eat bat, *Scotophilus baeri* (Vesperugo) were identified at different sites of Uttar Pradesh.



## 5. Reprint of Biodiversity Booklet

