Presentation by

**DR. NEELAM GAUTAM, SCIENTIST – B, BSI, CRC, ALLAHABAD**

**FELLOWSHIP: CSIR – JRF(NET) & SRF (2002 – 2006)**

**D. Phil Thesis on**

# CYTOGENETICAL ANALYSIS IN HELIANTHUS ANNUUS L. WITH SPECIAL REFERENCE TO MUTAGENESIS

**Department of Botany, University of Allahabad (2006)**

# JOB EXPERIENCE

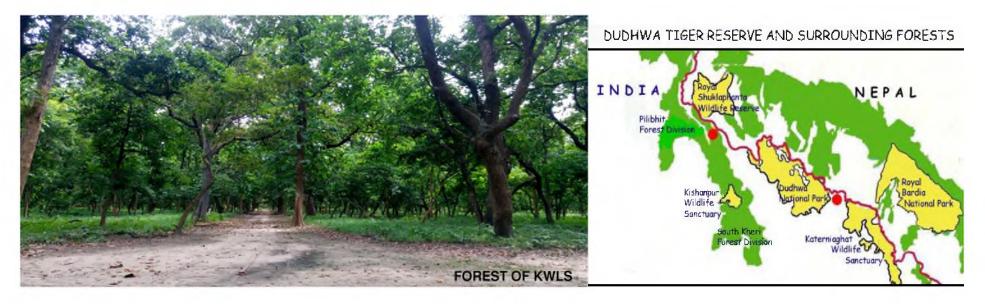❖ **Assistant Professor (2009 – 2015) – appointed by UPPSC**

❖ **Contract Lecturer (2008-2009) – appointed by Directorate of  Higher Education, U. P.**

## Professional Development Programmes

Orientation Programme: 01 (for 26 days)

Workshop/Training Programme: 02

**Date of Joining BSI:** 30-07-2015

FOREST OF KWLS


DUDHWA TIGER RESERVE AND SURROUNDING FORESTS

**Annual Action Plan Project**

**FLORISTIC DIVERSITY OF KISHANPUR WILDLIFE SANCTUARY**

Dr. Neelam Gautam &
Dr. Arjun Tiwari

➢ **Founded in 1972** and in 1987 KWLS was included in Dudhwa Tiger Reserve Project .

➢ Dudhwa Tiger Reserve: Dudhwa National Park, Kishanpur Wildlife Sanctuary, Katerniaghat Wildlife Sanctuary

➢ Located in Lakhimpur Kheri, U.P. with spread of 227 Km$^2$. It lies on the southern side of the Sharda river .

➢ Uniqueness: Habitat for many endangered species Royal Bengal Tigers, Swamp Deer, rare Hispid Hare, Bengal Florican etc.

➢ Area represents complex vegetation of wetland-grassland-woodland.

➢ The forest is tropical moist deciduous type. The major part of sanctuary is under thick Sal forest.

➢ The heart of the sanctuary is Jhadi taal where five types of endangered deers can be spotted. More than 450 resident and migratory bird species such as Bengal florican add vibrance to KWLS avifauna diversity.

## Salient findings



**KISHANPUR WILDLIFE SANCTUARY**
(PROJECT TENURE – 2016-19)

1 Field Exploration Tour
Specimens Collected: 225
Gps Data Recorded
Specimens Identified: 50

Endemic Species collected from the area : *CYMBOPOGAN OSMASTONII* PARKER

Rare species for U. P.: *Gymnopetalum chinense* (Lour.) Merr.

Other Important Species:
*Barringtonia acutangula, Semecarpus anacardium, Hygroryza aristata, Piper longum, Centella asiatica, Elephantopus scaber Cyanoglossum lanceolatum, Ophioglossum reticulatum,*

# GLIMPSE OF SANCTUARY

Cyanotis lanata

Jhadi taal

Cynoglossum lanceolatum

Barringtonia acutangula

Piper longum

Evolvulus alsinoides

Desmodium pulchellum

Abelmoschus moschatus

Mimosa himalayana

Elephantopus scaber

# FLORA OF CHATTISGARH VOL.- II

❖ **Project Tenure: 2016-2018**

❖ **TARGET : 13 Families - 47 Species**
 Flagellariaceae, Juncaceae, Arecaceae, Pandanaceae, Lemnaceae, Alismataceae, Limnocharitaceae, Aponogetonaceae, Typhaceae, Araceae, Potamogetonaceae, Zannichelliaceae.

❖ **Completed taxonomic description of 25 Species**

## Additional Scientific Work

❖ **SEM Analysis:** Study of epidermal layer of leaf, pollen & seed surface of *Santalum album, Frerea indica, Putranjiva* Sp., from garden of CRC, Allahabad.

❖**Identification** of **110** old herbarium specimens housed in BSA
❖Listing of old specimens from Lakhimpur kheri district housed in BSA

## PROJECTS – 02

## PUBLICATIONS

Research Papers: 08 + 01 (communicated)
First Author: 04
Book Chapter – 01 (Principals of Biology)
Hindi Article – 01

## PAPER PRESENTATION

National/International Seminars: 23

## WORKSHOP/TRAINING PROGRAMME – 03

(01 - BEMS training in BSI)

# ADMINISTRATIVE DUTIES

❖ **Executed duties of DDO from 18-08-2015 to 16-05-2016**

❖ **Performed duties of Head of Office as and when ordered.**

❖ **Execution of administrative functionalities on online portals of BHAVISHYA & PFMS as CDDO and Nodal Office.**

❖ **Executed functionalities of Nodal Office on NSDL portal**
(Monthly contributory transaction, inter sector shifting and other online updation and grievance management in NSDL.

❖ **Worked as member of various committees (Stock verification, Purchase, Computer in -Charge)**

❖ **Assisted in verification and stock register maintenance of store and verification of Library**

❖ **Assistance in finalization of monthly report & E- News.**

# FUTURE PLANS

**COMPLETION OF ONGOING PROJECTS:**

❖ **Floristic diversity of Kishanpur Wildlife Sanctuary** (2016 – 19)
(Field tours, Identification & Description of collected species)

❖ **Flora of Chattisgarh** (2016 – 18)
(Description of remaining species)

**NEW PROJECT:**

As a team member in collaboration with BSIP, Lucknow effective from 01.04.2017

**Studies of fossil and living plants with reference to the impact of climate change on flora of Gangetic plains and Central India**

Thank You