



**WELCOME**

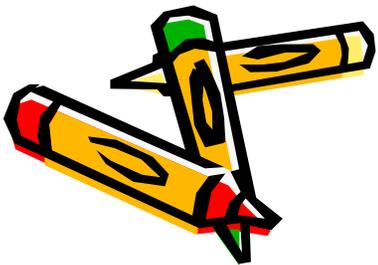
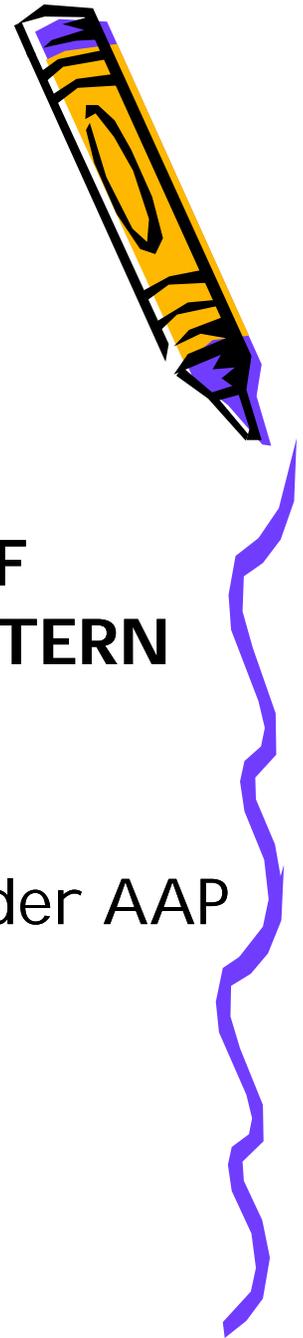
NEELIMA . A. M  
BOTANICAL ASSISTANT  
WESTERN REGIONAL CENTRE, PUNE

Completed 10 years and 7 months in the Department.

Proposed title for Ph. D is

**"SEED MORPHOLOGY AND CYTOTAXONOMY OF SOME SELECTED ORCHIDS OF NORTERN WESTERN GHATS"**

This topic is already proposed for consideration under AAP 2017-18.



# Annual Action Plan Project

- ✦ Assisted Dr. Rashmi Dubey, Scientist 'D', BSI, WRC, Pune in the project entitled "Foliicolous Fungi of Maharashtra" from April 2011 to Nov 2014.
- ✦ Accompanied in 7 tours
- ✦ Processed specimens for microscopic studies
- ✦ Microscopic photography of the processed specimens

# Other scientific work carried out

- ◆ Maintenance and up keeping of the Museum of WRC, Pune during the period 2006- 2014
- ◆ Cataloguing of the exhibits were done as well as maintained register.
- ◆ Assisted Dr. J. Jayanthi, Scientist 'C' in one of the floristic surveys of BRT Wildlife sanctuary
- ◆ Prepared slides and did microphotography of fern specimens for Dr. Vineet Kumar Rawat in the year 2012, then Scientist 'C', WRC, Pune for incorporating it in a research paper. He has acknowledged me in that paper for the technical assistance provided.

- ✦ Microphotography of 5 Orchid seed samples were done for Dr. J. S. Jalal, during the year 2012-2013, then Scientist 'C', WRC, Pune.
- ✦ Database of Herbarium specimens
- ✦ Assisted visitors to the Museum, Herbarium and Garden.
- ✦ Attended 2<sup>ND</sup> NOMENCLATURE COURSE ORGANISED BY BOTANICAL SURVEY OF INDIA
- ✦ Attended & participated in Interactive Talks & Workshop on 'Essentials in Plant Revisionary Studies and Flora Writing organised by BSI and NGCPR, Satara
- ✦ Attended Pune Heritage walk 2017 Inaugural Ceremony and Symposium.
- ✦ Assisted participants of Pune Heritage walk 2017 during their visit to WRC, Pune.

# Administrative work carried out

- ✦ Served at Technical Section, BSI, HQ, Kolkata from Nov. 2014- Sept. 2016.
- ✦ Noting and drafting of letters, Orders, Circulars Memorandums, D.O Letters etc. in English and Hindi.
- ✦ Assisted in processing the files pertaining to Parliamentary questions, EIA studies, correspondences with BSI Project fellows ,NBA, Audit queries
- ✦ AAP related correspondences, Correspondences to MoEF&CC, New Delhi, deputation of BSI scientist in Antarctica Mission, RTI on technical questions, Dr. E. K . Janaki Ammal Award

- ✦ Correspondences with Regional Centers of BSI, Externally funded projects executing from BSI.
- ✦ Presently assisting in implementation of “Assistance to Botanic Gardens” (ABG) Scheme of MoEF&CC, New Delhi.
- ✦ Processing of the files pertaining to ABG Scheme.
- ✦ Attended Review Meetings on Lead Botanic Gardens at TBGRI, Trivandrum on 5th April 2015

- ✦ Attended Expert Group Meeting on Assistance to Botanic Gardens at MoEF&CC, New Delhi on 11th November 2016.
- ✦ Processed 19 proposals sanctioned in the Expert Group Meeting held on 28.10.2014
- ✦ Correspondences pertaining to 5 proposals sanctioned in Expert Group Meeting held in 13th February 2012
- ✦ Correspondences pertaining to 5 proposals sanctioned in Expert group Meeting held in November 26, 2013

- ✦ Correspondences pertaining to 7 proposals sanctioned before the ABG Scheme is transferred to BSI in 2012.
- ✦ Processing of 25 New Proposals received during 2015- 2016, 2016- 2017 which is to be put up in the next Expert Group Meeting.
- ✦ Performed duty of In charge of Library, WRC, Pune from 21<sup>st</sup> November 2016 to 12<sup>th</sup> Feb 2017.
- ✦ Assisted in Library verification during the year 2013 - 2014.
- ✦ Member of Library verification Committee 2016- 2017.

# Miscellaneous

- ◆ Attended sale of BSI Publications during the period 2006- 2009, 2010-2014.
- ◆ Won first prize for Hindi Essay Writing, in the apex level competition held for central govt. offices in Calcutta.
- ◆ Compilation of Monthly Report for WRC, Pune

## Summary

No. of projects carried out individually – Nil

No of projects carried out jointly- 1

No. papers/articles published individually/ first author- 2  
(in Hindi)

No. of papers published jointly/as co- author- 18 +1 in  
Hindi

No. of new genera published as co-author- 2

No. of new species published as co-author- 6

No. of new records of fungi from India- 5

No. of new host recorded for fungi from India- 09

## Future Plan of Research

- ✦ Study on seed morphology and cytology of the endemic orchids of Northern Western Ghats from which an interpretation for endemism and rarity is expected.
- ✦ A large number of Indian orchids are being smuggled out from wild for commercial purpose. An identification key on the basis of seed morphological characters, determination of chromosome numbers and standardization of anatomical features are expected to be made as an outcome of this study to support the conservation activities and to prevent bio-piracy of wild Orchids.

### **Objectives:**

- ✦ Light microscopy of the seeds to determine the color and structure.
- ✦ Scanning Electron microscopy of the seeds to study the pattern of ornamentation.
- ✦ Cytological studies to determine the chromosome numbers,  
Anatomy of the plant parts

A scenic landscape featuring a paved road on the right side, bordered by a low stone wall. The road curves through a valley with rolling hills and mountains in the background. The sky is a clear, vibrant blue with a few scattered white clouds. In the foreground, there are several trees, some with green leaves and others with brown, suggesting a transition in seasons. The overall atmosphere is peaceful and expansive.

**Be Serving Incessantly**

**THANK YOU**