

ANNUAL SCIENTIFIC MEET 2017

“Studies on Monocotyledonous plants of Dibang Valley district Arunachal Pradesh”.

DR. M. BHAUMIK

Annual Action Plan Project

- | | | |
|---|--|------------|
| ❖ | Flora of Dibang Valley, Arunachal Pradesh | Jointly |
| ❖ | Floristic Assessment of Bura Chapori WLS, Assam | Jointly |
| ❖ | Flora of Dihang Dibang Biosphere Reserve, Arunachal Pradesh | Jointly |
| ❖ | Flora of West Siang, Arunachal Pradesh | Individual |
| ❖ | Flora of East Siang, Arunachal Pradesh | Individual |
| ❖ | Listing of Monocots at BSIS Herbarium | Jointly |
| ❖ | The family Zingiberaceae in Icon Roxburghineae | Individual |

Total field experience

I have undertaken over 25 floristic Survey tours to

- Buxa Tiger Reserve, West Bengal (1995; 1 tour, 130 field nos)
- Dibang Valley district of Arunachal Pradesh (1996-2005; 9 tours, 1270 field nos)
- Bura Chapori WLS, Assam (2005-2008; 3 tours, 450 field nos)
- Leska Hydroelectric Project, Meghalaya (2007; 1 tour, 99 field nos)
- Dihang Dibang Biosphere Reserve, Arunachal Pradesh (2008-2010; 3 tours, 530 field nos)
- West Siang District of Arunachal Pradesh (2010-2013; 5 tours, 2200 field nos)
- East Siang District of Arunachal Pradesh (2014-2015; 3 tours, 903 field nos)

Over **5603 field numbers** of plant specimens were collected for herbarium and over **120 live plants** of which many rare and endangered species were collected and introduced in Indian Botanic Garden, Howrah, Experimental Botanic Garden, Barapani, BSI, ERC, Shillong and BSI, APRC, Itanagar.

SERVICE IN CRONOLOGICAL ORDER

Year	Grade	Pay	Date
1995-2002	Jr. Scientific Assistant	Rs.4500-7000	20-9-1995 to 14-11-2002 BSI, HQRS, Kolkata.
2002-2008 2008-2010	Botanical Assistant Gr-II Botanical Assistant Gr-II	Rs. 9300-34800; GP. 4200 Rs. 9300-34800; GP. 4200	15-11-2002 to 31-3-2008 BSI, ERC, Shillong 1-4-2008 to 31-1-2010 BSI, CBL, Howrah
2010-2015	Scientist-C	Rs. 15600-39100 GP. 6600	1-2-2010 to 1.1.2014 BSI, APRC, Itanagar
2014-till date	Scientist-D	Rs. 15600-39100 GP. 7600	1.5.2015 to till date BSI, ISIM, Kolkata

DETAILS OF PUBLICATIONS

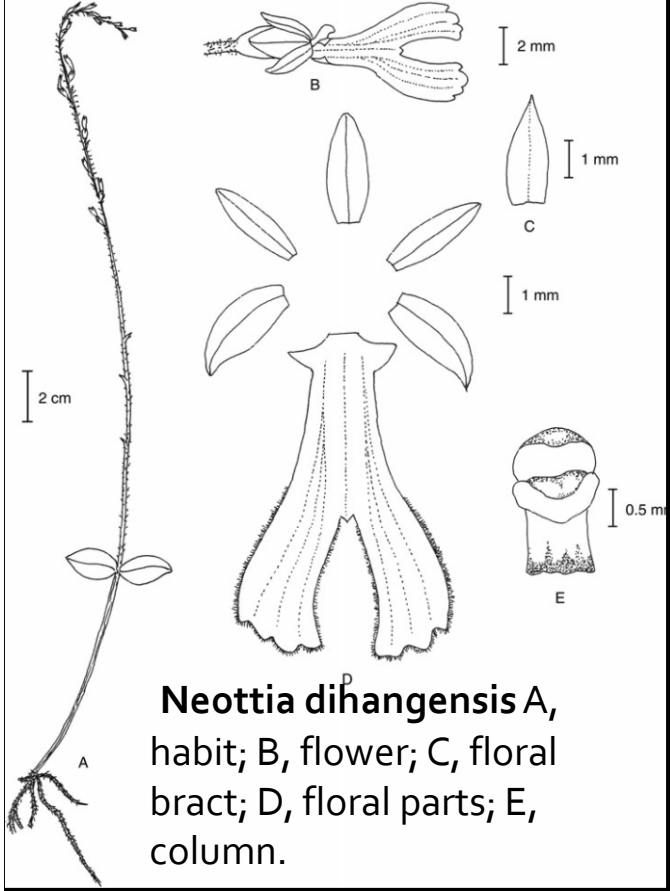
- **Research Papers Published: Fifty (58)**

NOVELTIES: (NEW TAXA: THIRTEEN)

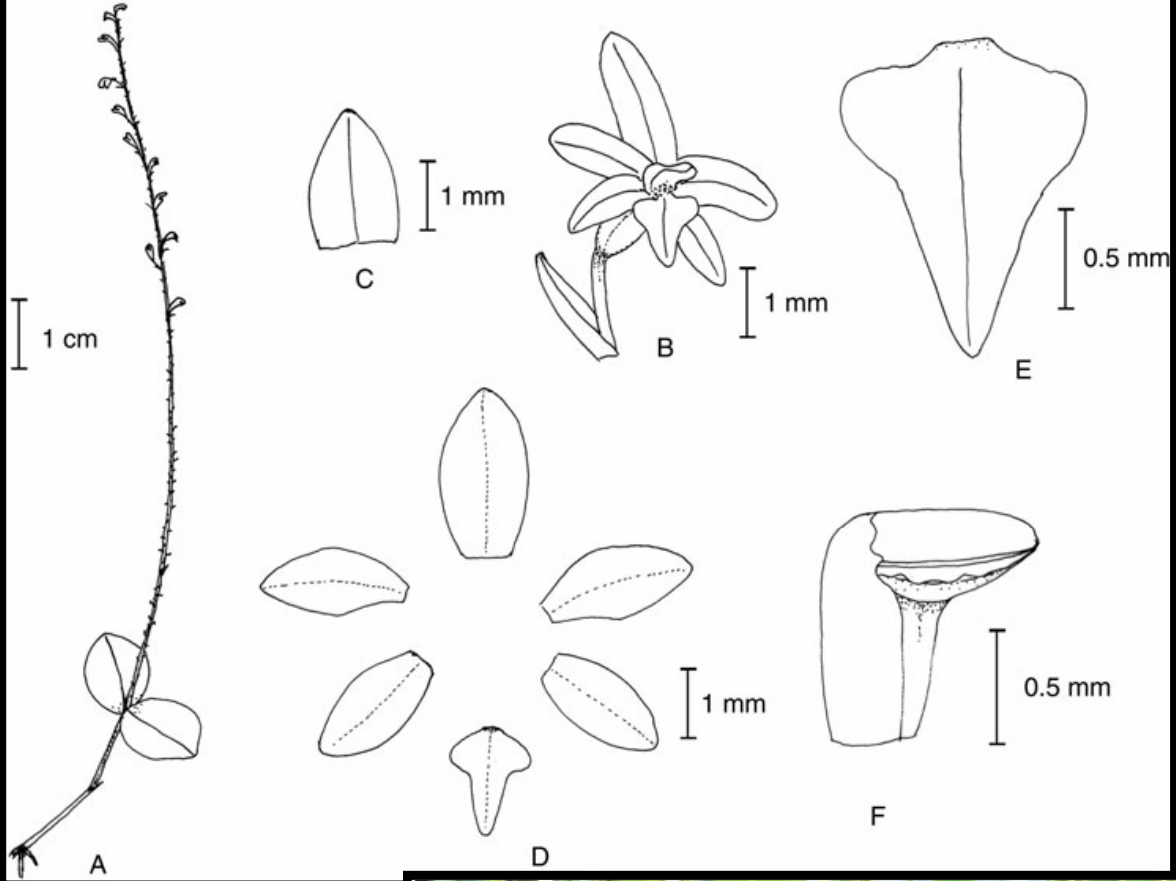
TAXA	JOURNAL	AUTHOR/S
Roscoea ngainoi (Zingiberaceae)	<i>Nordic Journal of Botany</i> 25: 399 – 302.2007	A.A.Mao & M. Bhaumik
Neottia dihangensis (Orchidaceae)	<i>Edinburgh Journal of Botany.</i> 69(3): 379-388. 2012.	M.Bhaumik
Neottia confusa (Orchidaceae)	<i>Edinburgh Journal of Botany.</i> 69(3): 379-388. 2012.	M.Bhaumik
Adinandra kamalae (Pentaphragaceae)	<i>Edinburgh Journal of Botany</i> 71(3): 379-383	M.K.Pathak, M.Bhaumik & G.Krishna
<i>Rhododendron pangeanum</i> (Ericaceae)	<i>Rhododendron Species</i> 7: 29 - 33. 2012.	Mao, A.A. & M. Bhaumik
<i>Rhododendron mechukae</i> (Ericaceae)	<i>Edinb. J. Botany.</i> 70(1): 57-60. 2013.	A.A.Mao et.al
<i>Rhododendron pseudomaddenii</i> (Ericaceae),	Edinburgh Journal of Botany 72(2): 209-213. 2015	A. A. Mao and M. Bhaumik

NOVELTIES: (NEW SPECIES: THIRTEEN)

TAXA	JOURNAL	AUTHOR/S
<i>Carex sanjappae</i> (Cyperaceae)	Taiwania, 56(4): 309-314, 2011	M. Bhaumik and M. K. Pathak
<i>Carex speciosa</i> ssp <i>varmae</i> (Cyperaceae)	Taiwania, 56(4): 309-314, 2011	M. Bhaumik and M. K. Pathak
<i>Pternopetalum arunachalense</i> (Apiaceae)	Nordic Journal of Botany 32: 471–473, 2014	M. Bhaumik and P. Satyanarayana
<i>Chrysosplenium arunachalense</i> (Saxifragaceae),	Kew Bulletin (2014) 69: 9491 DOI 10.1007/S12225-014-9491-3	M. Bhaumik
<i>Monolophus arunachalensis</i> (Zingiberaceae)	Kew Bulletin in ed.	M. Bhaumik, S. Dey & T. Langhus
<i>Monolophus suksathanii</i> (Zingiberaceae)	Kew Bulletin in ed.	S. Dey, T. Langhus & M. Bhaumik



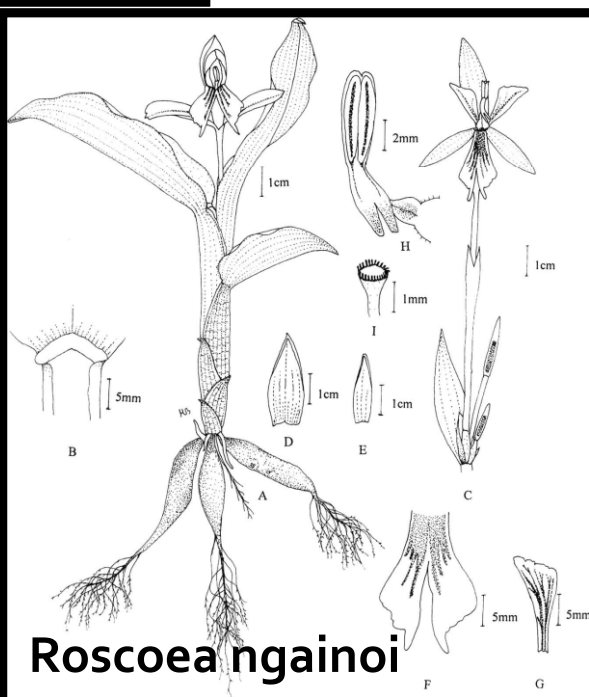
Neottia dihangensis A, habit; B, flower; C, floral bract; D, floral parts; E, column.



Neottia confusa A, habit; B, flower; C, floral bract; D, floral parts; E, lip; F, column.



Roscoea ngainoi



Roscoea ngainoi



Adinandra kamalae



Rhododendron pangeanum



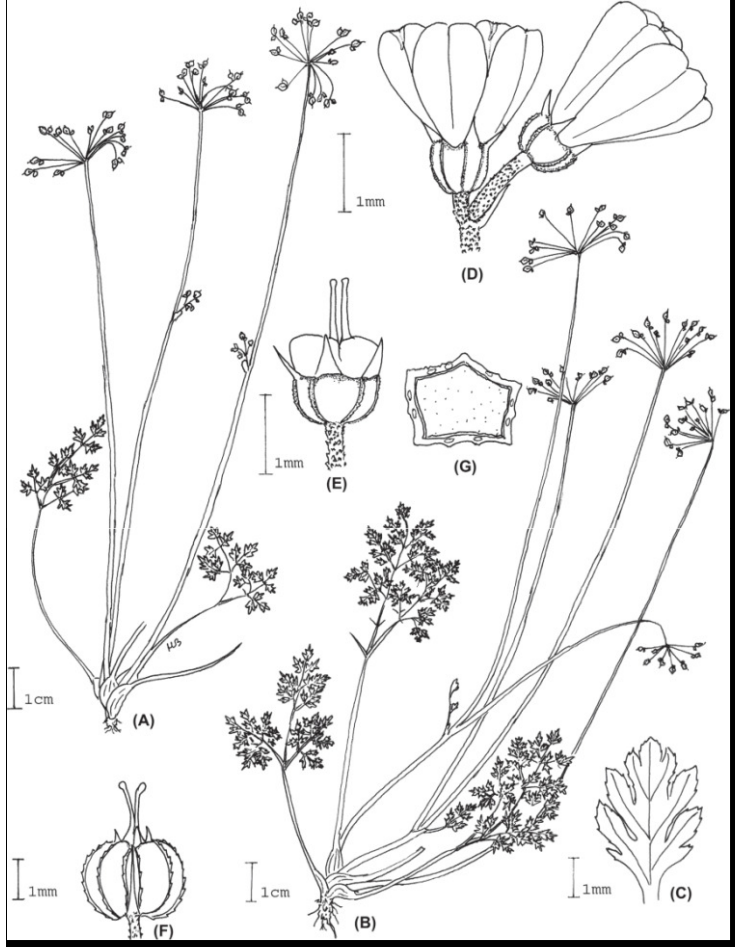
Rhododendron mechukae



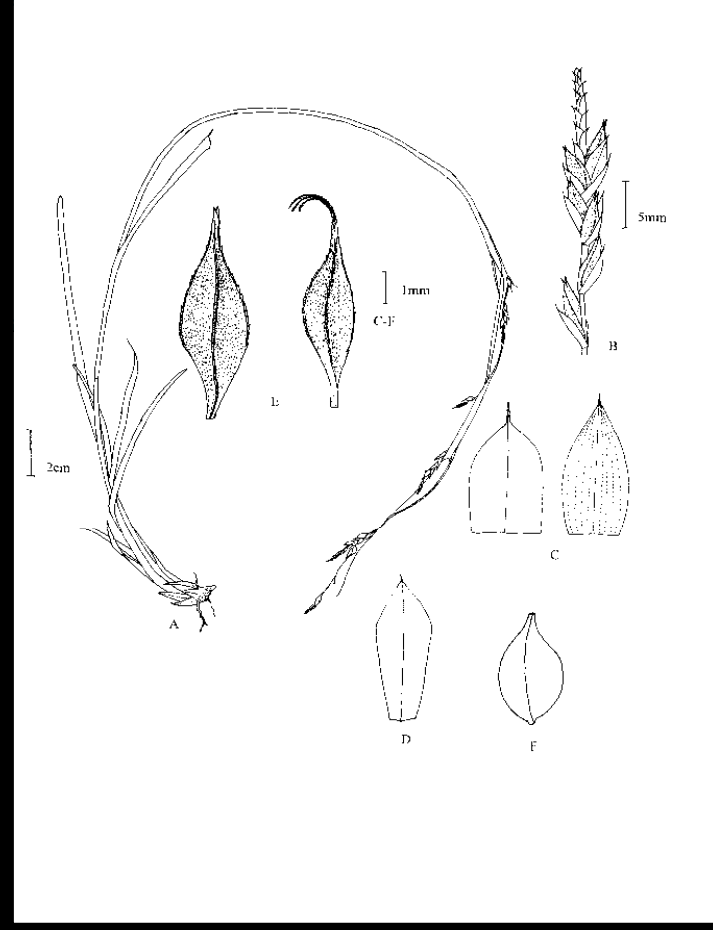
Rhododendron pseudomaddenii



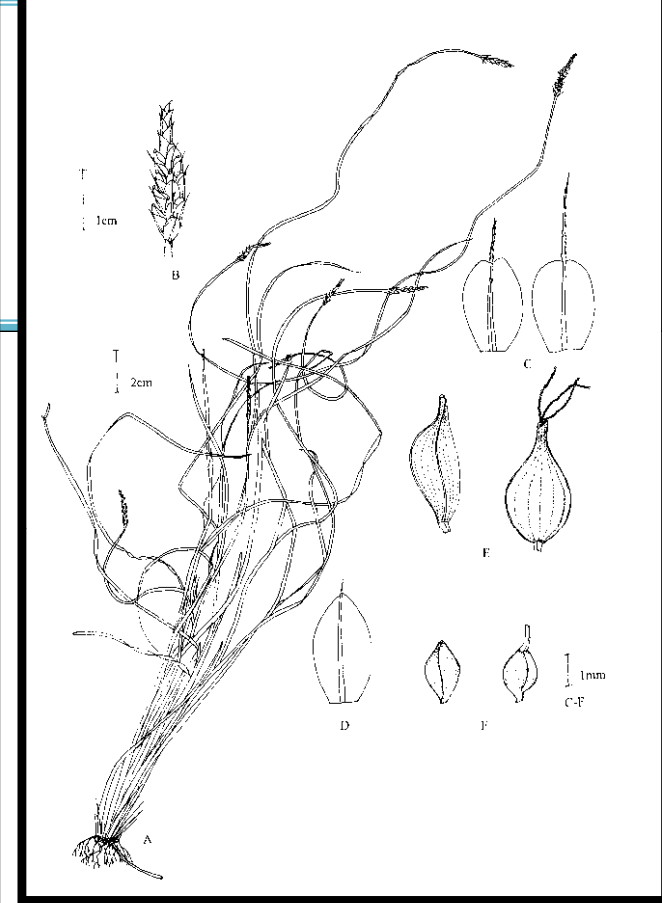
Chrysozplenium arunachalense



Pternopetalum arunachalense
(A) – (B) habit, (C) ultimate leaf segment, (D) flowers, (E) ovary with stylopodium, (F) fruit, (G) transection of mericarp.



***Carex speciosa* Kunth ssp. *varmae* M. Bhaumik and M. K. Pathak**
A. Habit B. Spikelet C. Female glume D. Male glume E. Utricle F. Nutlet



***Carex sanjappae* M. Bhaumik and M.K. Pathak**
A. Habit B. Spikelet C. Female glume D. Male glume E. Utricle F. Nutlet

NEW RECORD FOR INDIA: 35 taxa

- ***Oberonia helferi*** Hook. f. (Orchidaceae); ***Juncus spumosus*** Noltie (Juncaceae); ***J. kangdingensis*** K.F. Wu (Juncaceae), ***J. longiflorus*** (A. Camus) Noltie (Juncaceae), ***J. milashanensis*** A. M. Lu & Z. Y. Zhang (Juncaceae), ***J. setchuensis*** Buchenau (Juncaceae); ***Carex echinata*** Murray (Cyperaceae); ***Aruncus gombalanus*** (Rosaceae); ***Chimonocalamus longiusculus*** Hsueh & T.P. Yi (Poaceae; Bambusoideae); ***Kaempferia parviflora*** Wall. ex Baker (Zingiberaceae); ***Iris proantha*** Diels (Iridaceae); ***Curcuma yunnanensis*** N. Liu & S. J. Chen (Zingiberaceae); ***Gaultheria dumicola*** W. W. Sm. (Ericaceae); ***Rhododendron dekatanum*** Cowan (Ericaceae); ***R. glischrum*** Balf. f. & W. W. Sm. subsp. ***rude*** (Tagg & Forrest) D. F. Chamb. (Ericaceae); ***R. pudorosum*** Cowan (Ericaceae); ***R. thomsonii*** Hook. f. subsp. ***lopsangianum*** (Cowan) D. F. Chamb. (Ericaceae); ***Thrixspermum saruwatarii*** (Hayata) Schltr. (Orchidaceae); ***Rubus cooperi*** D.G. Long (Rosaceae); ***R. polyodontus*** Hand.-Mazz. (Rosaceae); ***R. quinquefoliolatus*** T.T. Yu & L.T. Lu (Rosaceae); ***Maianthemum fusciculiflorum*** (Convallariaceae); ***Adonis davidii*** Franchet (Ranunculaceae); ***Schisandra incarnata*** Stapf (Schisandraceae); ***Acrotrema costatum*** Jack. (Dilleniaceae); ***Hypericum petiolulatum*** subsp. ***yunnanense*** (Franch.) N. Robson (Hypericaceae); ***Leptomischus primuloides*** Drake (Rubiaceae); ***Cotoneaster chengkangensis*** T. T. Yu (Rosaceae); ***Pternopetalum gracillimum*** (H. Wolff) Hand.-Mazz. (Apiaceae); ***Swertia handeliana*** Harry Sm. (Gentianaceae); ***Mazus celsioides*** Hand.-Mazz. (Scrophulariaceae)

A. *RHODODENDRON GLISCHRUM* BALF. F. & W. W. SM.
SUBSP. *RUDE* (TAGG & FORREST) D. F. CHAMB.; B.
RHODODENDRON PUDOROSUM COWAN; C.
RHODODENDRON THOMSONII HOOK. F. SUBSP.
LOPSANGIANUM (COWAN) D. F. CHAMB. D.
RHODODENDRON DEKATANUM COWAN.



Mazus celsioides Hand.-Mazz.

**MAIANTHEMUM FUSCIDULIFLORUM
(CONVALLARIACEAE)**

**RUBUS COOPERI D. G. LONG; RUBUS
POLYDONTUS HAND.-MAZZ.;
RUBUS QUINQUEFOLIOLATUS T. T. YU
& L. T. LU**



Fig. 3. A - B. *Rubus cooperi* Long; C. *Rubus polyodontus* Hand.-Mazz.;
D. *Rubus quinquefoliolatus* T. T. Yu & L. T. Lu



Cotoneaster chengkangensis T. T. Yu (Rosaceae)

New record for India (Unpublished)



Schisandra incarnata Stapf (Schisandraceae)

New record for India (Unpublished)



Swertia handeliana Harry Sm. (Gentianaceae)

New record for India (Unpublished)

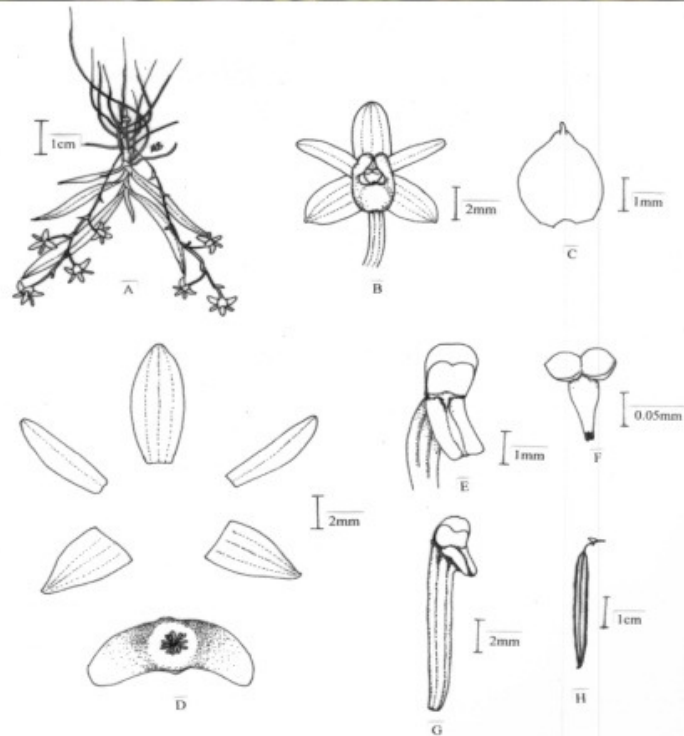


Fig. *Thrixspermum saruwatarii* (Hayata) Schltr. a new record for India
Bulletin of Arunachal Forest Records 26: 68 - 70, 2010



***Acrotrema costatum* Jack. (Dilleniaceae)**

Indomalayan species new to India (Unpublished)

NEW GENERIC RECORD: Two taxa

PTERYGIELLA OLIVER
(SCROPHULARIACEAE)



P. bartschioides

POGONIA JUSSIEU
(ORCHIDACEAE)



Pogonia japonica Rchb. f.

Administrative Work Carried out

- Serve as DDO
- Perform duties as member of Medical reimbursement committee, Purchase Committee, store verification committee etc.
- Serve as Hoo incharge, BSI, APRC, ISIM
- Presently serving as regular HOO at BSI, ISIM

SUMMARY

- No. of Projects carried out individually or Jointly: **SEVEN**
- No. of books written/complied/edited individually or jointly: **NIL**
- No of paper published: **FIFTY EIGHT**
- No of New taxa, new combinations/ Names and new reports
 - New taxa: **THIRTEEN**
 - New record for India: **THIRTY FIVE**

Future Plan of Research

- Opening the BSI gallery for public my first priority.
- Collaborative research work with other Museums.
- Some exposure tour to other musea in India and abroad to understand the day to day running as well as planning for further improvement.
- Conservation of available resources like Textile, vegetable dye, and other archival documents available here.