

Journey from March 2002 to February 2017

2002-2007 2008-2011 2011-2016

Pushpa Kumari CNH, BSI

AICOPTAX – Bamboos & Grasses of NE India

March 11, 2002- JRF BSI, Sikkim Himalayan Regional Circle, Gangtok

Bamboos of Meghalaya (2002 – 2007)

Herbaria – ASSAM, BSHC, BSD, CAL & DD, Extensive **periodic** field surveys (ca 150 field nos collected in 7 tours)

TAXONOMIC STUDIES ON BAMBOOS OF MEGHALAYA

Thesis submitted for degree of Ph.D

Guidance: Dr. Paramjit Singh

University of Kalyani, Kalyani, Nadia Dist.

W.B.

2007

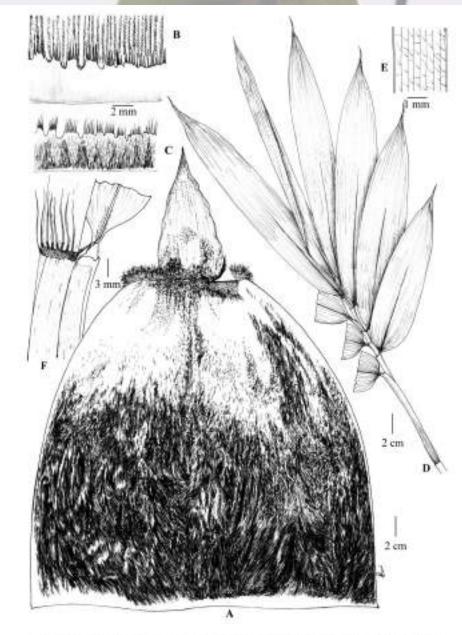


Fig. 40. Dendrocalamus sikkimensis Gamble: A. culm-sheath; B. culm-sheath ligule with basal portion of imperfect blade; C. ligule underneath imperfect blade; D. leafy twig; E. leaf abaxial surface; F. leaf-sheath. [P. Kumari 25192 (CAL)].

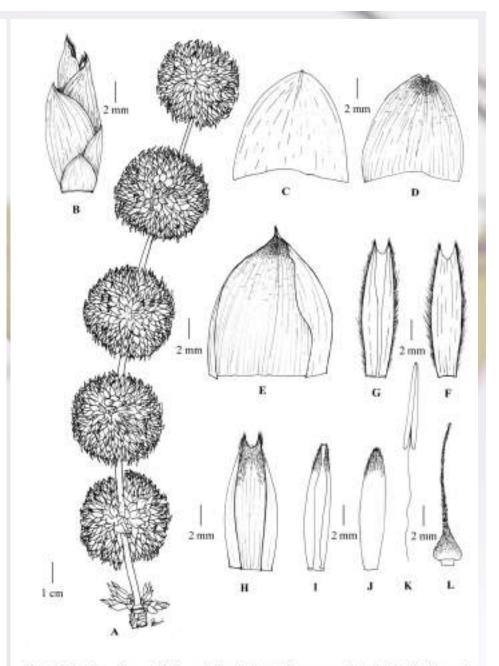
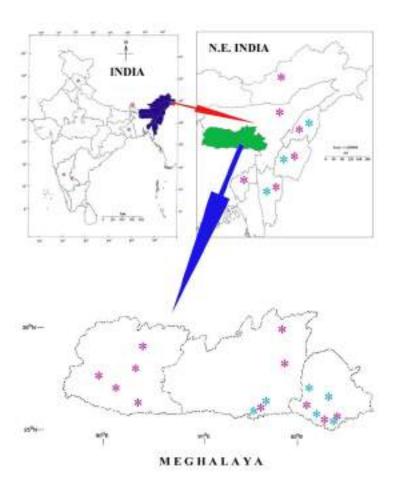


Fig. 41. Dendrocalamus sikkimensis Gamble: A. inflorescence; B. spikelet; C & D. empty glume; E. lemma; F - J. palea; K. stamen; L. pistil. [R. Pantling, s.n. (CAL)].



Plate 33. Melocanna clarkei (Gamble ex Brandis) P. Kumari & P. Singh: A. flowering; B. inflorescence, inset stamen; C. fruits; D. seedlings.



Map 11. Distribution: Melicanna baccifera (Rash.) Kurz (*); Melocanna clarkei (Gamble ex Brandis) P. Kumari & P.Singh (*).



2008 – 2011 SRF and RA (AICOPTAX)

Bamboos of Indian Botanic Garden (25 species)
Bamboos of Manipur (35 species with IBSD, Imphal)

Preliminary field surveys:

West Bengal

Sikkim

Arunachal Pradesh

Bihar

Herbarium study: CAL



20th October 2011 Scientist – C AJC Bose Indian Botanic Garden

Bamboos of India: Ex-situ Conservation (2012-2017)-

Germplasm collected: 2012-13 (10 sps); 2013-14 (17 sps); 2014-15 (25

sps); 2015-16 (10 sps) - Andaman & Nicobar, AP, Assam, Kerala, Sikkim

Successfully introduced: 12

Maintained in Nursery: ca 20

Development of Nursery – Rose; Palm; Croton;

Foliage; Ferns; Bougainvillea;

Ex-situ conservation and multiplication of RET plants

Revival of Seed section

Taxonomic Revision of *Poaceae*: *Bambusoideae* in

India (2014-2017)

1st May 2015 Central National Herbarium

Taxonomic Revision of Poaceae: Bambusoideae in

India (2014-2017)

Checklist (ca 140 sps)

Distribution mapping (140 sps)

Description (ca 95 sps)

Illustrations (ca 80 sps)

SEM leaf under surface (ca 45 sps)

Flowering/fruiting reports: 25 sps

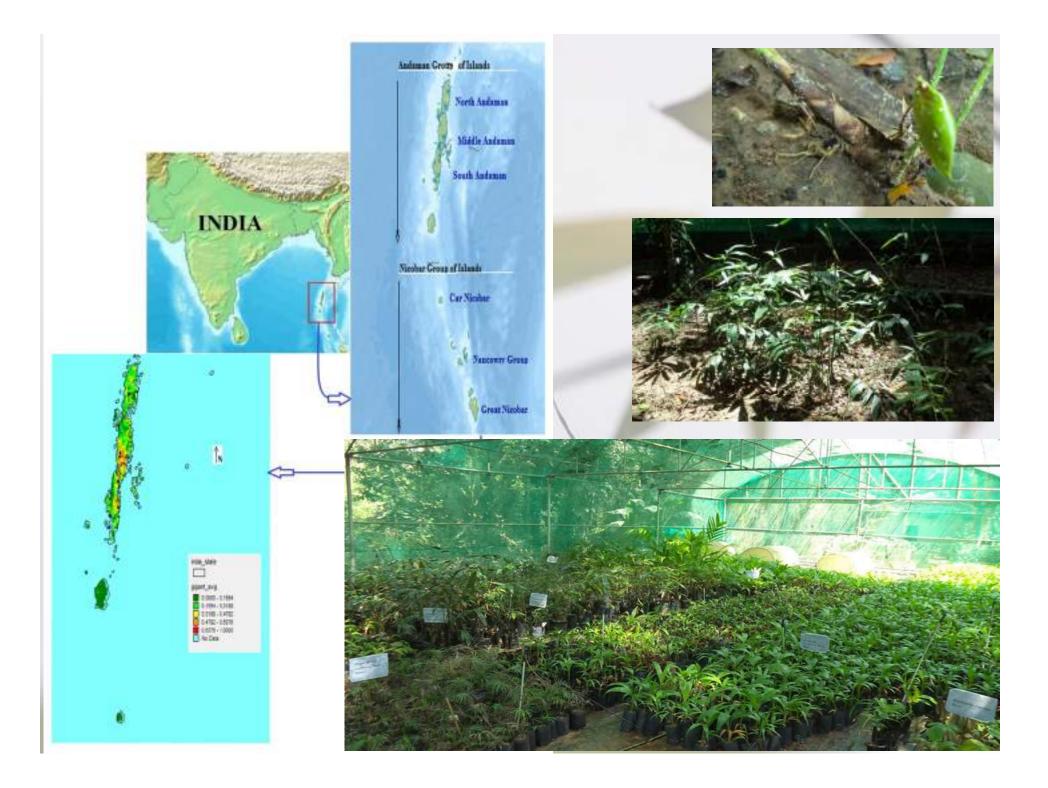


Bignoniaceae for Flora of Bihar and Flora of Jharkhand III

- Studied the 5 specimens from Bihar (Aurangabad, Nawada and Kaimur) brought by Sri Gopal Krishna
- Description (2)

Additional Projects

- Preventing Extinction and Improvement of Conservation Status of Threatened Species developed macro-propagation protocols for threatened species Bentinckia nicobarica, Dinochloa andamanica and Schizostachyum kurzii for mass production (work being carried on by the Research fellow at BSI ANI Portblair)
- Survey and Assessment of growing stock of economic bamboos of West Bengal (in collaboration with DST WB and RKMV University Narendrapur, Kolkata) – 24 Parganas



- No. of Projects: 5 (3 individual & 1 in collaboration; 1 jointly)
- New taxa: 1 Genus; 3 species; 1 variety
- New reports: 1 for India/ 5 for states
- Field Tours: 23 NE region, Andaman & Nicobar, Western Ghats
- Workshops/ Seminars: 17 National/International
- Lectures delivered: 11 invited
- Trainings: Conservation Biology (Kew Garden),
 Foundation/Administration (IIPA)
- Scientific/ Awareness Programmes
- Administrative works: Scholars attendance, Work reports,
 Committee member, Editing of Vanaspati Vaani



- Conservation Status & Red Listing
- SEM atlas
- DNA finger printing
- Phylogeny
- Flora



..... Long way to go

