

**Dr. NRIPEMO ODYUO
SCIENTIST – D
BSI, ERC, SHILLONG**

Ph.D. Thesis

Ecological studies of some important tree species of subtropical humid forest of Meghalaya

**Guide Prof. H.N. Pandey
Dept. of Botany**

**North Eastern Hill University, Shillong, Meghalaya.
2005**

BSI, Hqtr.: Scientist – B, 16th December 2002

BSI, ERC, Shillong: 16th April 2003

1. Flora of Mt. Saramati, Nagaland: T.M. Hynniewta & N. Odyuo
Final MSS. with 278 species under 191 genera and 91 families.
submitted to Director BSI, Kolkata in May 2006.



New Genus: *Penkimia nagalandensis* Phukan & Odyuo.



New to India: *Cleisostoma duplicitulum* (J.J. Sm.) Garay

2. Flora of Dampa Tiger Reserve, Mizoram: B.K. Sinha & N. Odyuo

**Final MSS. with 530 species under 409 genera and 294 families.
submitted to Director BSI, Kolkata in March 2008.**

New to Mizoram: 5

Ancistrocladus tectorius

Epithema carnosum

Hyptis capitata

Phryma leptostachya

Fissistigma bicolor

**Species Endemic to India recorded from the
Tiger Reserve:**

1. *Argyreia sikkimensis* – Mizoram & Sikkim
2. *Mycetia mukherjiana* – Tripura & Mizoram

Book Chapter: Odyuo, N. & B.B.T. Tham.

**2008. Dampa Tiger Reserve. In Floristic
Diversity of Tiger Reserves of India. BSI,
Kolkata. pp. 394 – 415.**



Botanic Garden of Indian Republic, Noida: March 2008 to March 2010

i. Plant seedlings/ saplings procurement tours for introduction at BGIR.

2749 saplings belonging to 82 species mostly of tree species procured from Bhubaneswar and introduced in the Garden.

125 live plants collected from NE India and introduced in the Garden.

ii. Seed Bank Development programme.

Seed germination lab. made operational with procurement of basic equipments.

Collected seeds of 37 species from NE India, processed and stored

Seeds of 63 species of BGIR plants collected, processed & stores

iii. Maintenance of Orchid section.

28 species of orchids collected from North East India and introduced at BGIR.

iv. Inventorisation of Existing Woodland plants: Completed with tagging of all individual plants

Woodland : 4769 individuals of 116 species

Economic plant section : 676 individuals of 81 species

v. Seed germination of indigenous/ threatened plants already introduced/ planned to be introduced in BGIR, Noida.

Seed germination trials: 73 species out of which 60 species germinated.



Adenanthera pavoniana



Albizia arunachalensis



Albizia odoratissima



Gingko biloba



Heritiera littoralis

3. Flora of Pabha Reserve Forest, North Lakhimpur, Assam (Ca 49 sq. km.).

N. Odyuo & D.K. Roy

Final MSS. with 117 species under 103 genera and 63 families submitted to Director BSI in April 2012.

4. Flora of Ranga, Kakoi & Dullung Reserve Forest, North Lakhimpur, Assam; N. Odyuo

& R. Daimary

Final MSS. submitted for 516 species under to 345 genera and 131 families submitted to Director BSI in March 2015.

New variety:

***Pyrenaria khasiana* R.N. Paul var. *lakhimpurensis* N. Odyuo & D.K. Roy**

New to India:

Ceratostylis radiata

Rediscovery after 120 years:

Epigenium treutleri

New to North East India:

Asplenium aethiopicum



**5. Collaborative Project:
North Eastern Space Application Centre, Shillong – BSI, ERC, Shillong**

**“Mapping of forest flora in East Khasi Hills district of Meghalaya
and identification of potential areas for medicinal & aromatic plants using high
resolution satellite imagery”**

B.K. Sinha, N. Odyuo & Ramesh Kumar. 2013 – 14

**Mawphlang Block in East Khasi Hills district, Meghalaya: 37 sample points (GPS
coordinates) – completed and submitted to NESAC, Shillong.**

**Documentation of species in all the sample points were undertaken in Quadrat
size of 0.1 ha (20x20 m) for tree species, 10 m x 10 m for shrubs (2 quadrates
within 0.1 ha) and 1m x 1 m for herbs (4 quadrates within 0.1 ha).**

**A total of 380 plant species were documented out of which 204 species were
reported to have medicinal properties.**

6. CHECKLIST OF FLORA OF NAGALAND Vol.- I

A.A. Mao, N. Odyuo & D. Verma

Submitted to Director BSI, Kolkata in March 2016

Analysis: 2287 taxa

Group	Families	Genera	Species	Subspecies	Variety
Pteridophytes	38	105	278	-	6
Dicotyledons	132	595	1243	10	25
Gymnosperms	4	5	6		1
Monocotyledons	20	241	712	-	7
Total	194	946	2239	10	39

7. Flora of Eastern Nagaland (Mon, Tuensang, Kiphire and Longleng Districts)

N. Odyuo & Ranjit Daimary: Ongoing 2014 – 19.

Tours conducted so far

: 5

Duration

: 101 days

Herbarium specimens (Total field Nos.)

: 1801

Live plants

: 463

Field photographs

: ca. 2000

Identified

: 240



Dendrobium arunachalense



Coelogyne mishmensis



Galeola lindleyana



Dendrobium tuensangense
New sp. Accepted - Phytotaxa



Coelogyne calcicola
New to India



Panisea panchaseensis
New to India



Liparis formosana
New to India
Accepted J. Jpn. Bot.



Sauromatum horsfieldii
New to India



Impatiens parkinsonii
New to India



Molineria fakimense
New species

8. Flora of Nagaland Vol. I & II

**Dr. A.A. Mao, Scientist F, Dr. N. Odyuo, Scientist D & Sri D.K. Roy, Bot. Asstt.
2016-21**

Tours conducted so far

: 2

Duration

: 44 days

Herbarium specimens (Total field Nos.)

: 760

Live plants

: 195

Field photographs

: ca. 1000

Identified

: 240



SUMMARY:

Number of projects carried out: AAP: 5 Collaborative: 1; Ongoing: 2

Publications:

Book chapter published	: 3
Papers Published	: 28
Papers Accepted	: 4

New genus: 1

Penkimia Phukan & Odyuo

New species: 3 + 2

Penkimia nagalandensis Phukan & Odyuo

Pennilabium labanyaeanum C.Deori, N.Odyuo & A.A.Mao

Molineria fakimense N. Odyuo, D.K. Roy & Khamdi

Pyrenaria cherrapunjeana Mir et. Al.

Dendrobium tuengsangense N. Odyuo & C. Deori

New variety: 1

Pyrenaria khasiana var. *lakhimpurensse*

N. Odyuo & D.K. Roy

N. Oduyo, R. Daimary, D.K. Roy, A.A. Mao & C. Deori . 2017. Additions to the Orchid Flora of Nagaland, India. D'Orchidophilie. (accepted).: 19 species (387+19 = 406

Rediscovery after a century: 2

Impatiens khasiana

Epigenium treutleri

New to India: 7

Impatiens parkinsonii

Sauromatum horsfieldii

Ceratostylis radiata

Cleisostoma duplichilobum

Coelogyne calcicola

Panisea panchaseensis

Liparis formosana

New to NE India: 2

Cleisostoma tenuifolium

Asplenium aethiopicum

Publications from Local Tours



Pennilabium labanyaeanum
New species

Pyrenaria cherrapunjeana
New species

Impatiens khasiana
Rediscovered after 129 yrs.

ADMINISTRATIVE WORKS CARRIED OUT

BSI, ERC, Shillong

Drawing and Disbursing from 2006-07

**Compilation of Monthly Reports, Quarterly Reports & Annual Reports
from 2003 to 2008**

Incharge CGHS from 2006 to 2008

Officer-in-Charge of Attendance from 2005 to 2008

Member of Purchase Committee 2005 to 2008

Officer In-charge Estate matters from June 2010 till date

Officer In-charge of Scientist Transit Camp June 2010 till date

Chairman purchase committee from June 2010 till date.

BGIR, Noida: March 2008 to March 2010

Chairman of purchase committee.

Compilation of monthly and Annual Reports.

Chairman Purchase Committee.

FUTURE PLAN OF WORK: Flora of Eastern Nagaland till March 2019
Flora of Nagaland till 2021



THANK YOU