Gopal Krishna

Botanical Assistant
Central National Herbarium, Botanical Survey of India,
Howrah-711103

24.04.2006 - 29.02.2016

[Senior Preservation Assistant]

01.03.2016 - till date

[Botanical Assistant]

Title of thesis

"Vascular Plant Diversity of Buxa National Park with special reference to its Conservation Strategies"

[under supervision of Dr. P. Venu, Rtd. Scientist 'G']
University of Calcutta

Year of award: 27th September, 2016





Engagement in Projects so far

> Ethnobotany of Odisha

[Sundergarh dist., Angul Dist., Mayurbhanj dist., Phulbani dist]

- *Flora of Buxa National Park, Jalpaiguri Dist., West Bengal [under supervision of Dr. P. Venu, Scientist 'G' (Rtd.)]
- Flora of Bihar volumes I & II

[Families: Violaceae; Flacourtiaceae; Vitaceae; Cucurbitaceae*]

- > Flora of West Bengal Vol. III
 - [Dipsacaceae; Caprifoliaceae]
- Verification of deposition / availability of types at different herbaria of BSI based on names of new taxa published during 1990 2004 in some selected journals
- Flora of Neora Valley National Park, Darjeeling, West Bengal [*Dr. Vinay Ranjan; Anant Kumar and Gopal Krishna]
- Flora of India vol. 20 [Gesneriaceae]
 [Updating of names and manuscript; editorial part]

Ethnobotany of Odisha [Sundargarh district] [2006-2007]













Excuting officials: Dr. H. Singh; Dr. S.C. Srivastava, Gopal Krishna, Arvind Kumar

Tour details:

04th February 2007-15th February, 2007

No. of specimen collected:

158 field no.

No. of ethnobotanical information

collected: 242

Ethnobotany of Odisha [Myurbhanj district]

[2007-2009]

Excuting officials: Dr. H. Singh; Sri P.K. Baske,

Gopal Krishna

Tour details: 10.09.2007-24.09.2007;

23.09.2008-08.10.2008

No. of specimen collected: 376

No. of Ethnobotanical information collected:

550

















Ethnobotany of Odisha [Angul district]

[2009-2010]













Excuting officials: Dr. H. Singh,

Gopal Krishna

Tour details: 24.06.2009-

9.07.2009; 23.09.2010-

8.01.2010

No. of specimen collected: 370

No. of ethnobotanical

information collected: 483

Flora of Buxa National Park, West Bengal

[under supervision of Dr. S.K. Srivastava (2009-2010) Dr.P. Venu, Scientist 'G' (Rtd.) 2010 onwards]

April, 2009-March, 2012

Year of establishment: 1992

Location: Jalpaiguri district, within the Buxa Tiger Reserve (BTR)

Coordinates : 26° 38′-26°44′ N &

89° 34′-89°38′ E

Area: 117.01 km² (core zone of BTR)

Altitude: 55 m to 319 m(± 5m)

Forest ranges: 04

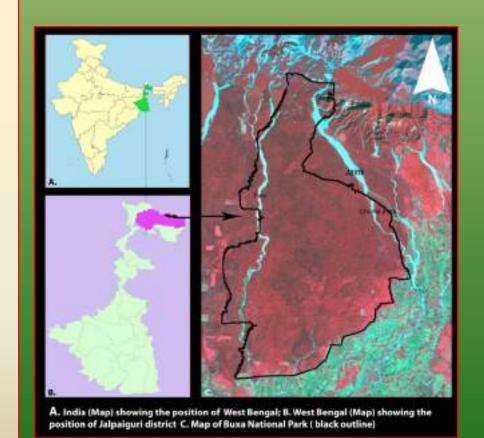
i. Jainty;

ii. West Rajabhatkhawa;

iii. Gadadhar;

iv. East Damanpur

No. of compartments in all ranges: 34



No of field tour undertaken: 5

Outcome:

Floral Diversity of Buxa National Park

SI	. Class	Subclass	Family	Genera	Species	Variety
N	o.					
1		Polypetalae	54	131	172	9
2	Dicots	Gamopetalae	23	120	158	0
3		Monochlamydeae	16	65	99	4
4	. Monocots-		1 <i>7</i>	62	75	1
5	Gymnosperm		2	2	2	0
6	. Pteridophyte		11	16	19	0
O BRITISH		TOTAL	123	396	525	14

- Broussonetia kurzii (Hook.f.) Corner [Moraceae] collected after a long gap of 80 years
- Eranthemum erythrochilum J.R.I. Wood collected after more than 100 years





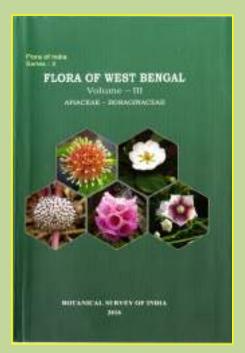


- ➤ 3 species [IUCN red list]
- ➤ 3 species are Endemic to West Bengal and its adjoining area
- ➤ 62 spp. addition to Jalpaiguri district
- ➤ 6 spp. addition to West Bengal State

42 species [ethnomedicine], 17
species [edible plants]
2 species [snake repellents],
8 species [fish poison]
14 species [fodder].
12 decorative purposes medicinal
(3 spp.),
incense (2 spp.),
dye (2 spp.)
1 species each as adulterant and in

broom/mat making.

Flora of West Bengal Vol. III [(Apiaceae-Boraginaceae)] [2014-2015]







Name of family	No. of genera	No. of species	No. of infraspecific taxon
Dipsacaceae [Ajay Ghosh & Gopal Krishna]	2	3	0
Caprifoliaceae [Gopal Krishna & Ajay Ghosh]	4	19	0

Flora of Bihar vol. I

[Families: Violaceae; Flacourtiaceae; Cochlospermaceae; Bixaceae; Vitaceae]

[2012-2013]

Name of family	No. of genera	No. of species	No. of infraspecific taxa
Violaceae	2	2	0
Flacourtiaceae	3	5	0
Cochlospermaceae	1	1	0
Bixaceae	1	1	0
Vitaceae	5	13	0

Flora of Bihar Vol. I

[Family: Cucurbitaceae]

Name of family	No. of genera	No. of species	No. of infraspecific taxon
Cucurbitaceae Manuscript will be submitted in March, 17	18	32	0

Flora of Jharkhand vol. I

[Families: Violaceae; Flacourtiaceae; Cochlospermaceae; Bixaceae; Vitaceae]

[2012-2013]

Name of family	No. of genera	No. of species	No. of infraspecific taxa
Violaceae	2	6	0
Flacourtiaceae	4	7	0
Cochlospermaceae	1	1	0
Bixaceae	1	1	0
Vitaceae	6	10	0

Flora of Jharkhand Vol. I [Family: Cucurbitaceae]

Name of family	No. of genera	No. of species	No. of infraspecific taxon
Cucurbitaceae			

Verification of deposition / availability of types at different herbaria of BSI based on names of new taxa published during 1990 – 2004 in some selected journals

Executing officials: Dr Subir Bandyopadhyay & Gopal Krishna



Bulletin of Botanical Survey of India; Rheedea; Nordic Journal of Botany; Candollea; Indian Journal of Botany; Current Science; Journal of Economic and Taxonomic Botany; Indian Forester

Flora of India [Gesneriaceae]

2015-2016













25 Genera 120 species 5 varieties

Status: Ongoing

Angiospermic Flora of Neora Valley National Park, West Bengal

Executing officials: Dr Vinay Ranjan, Anant Kumar, Gopal Krishna

Approved duration of the project: April, 2016 to March, 2021 [5 Years]

Total area: c. 159 sq km

Area surveyed: North Range

(c. 37 sq km)

Duration of tour: 20.09.2016 to 05.10.2016 (15 days); 15.12.2016 to 24.12.2016 (10 Days)

Area surveyed: North range (c. 37 sq km)

Field numbers collected: 640 Photographs depicted: 1500

GPS data recorded: 628



Findings:

- 2 rare saprophytic species named Balanophora polyandra and Rhopalocnemis phalloides of family Balanophoraceae were collected.
- 6 rare orchids were collected from study area some of them are: Goodyera recurva and Odontochilus crispus.
- 4 new records listed for the state (Aeschynanthes oblanceolata; Agapetes hookeri; Goodyera recurva and Odontochilus crispus).
- A rare Ceropegia pubescens [yellow himalayan ceropegia] collected.

Future Plan

Completion of Angiospermic Flora of Neora Valley National Park, West Bengal on time [2016-2021]

