

PRESENTATION BY
MR. VINEET KUMAR SINGH, BOTANICAL ASSISTANT
BSI, CRC, ALLAHABAD (U.P.)
Date of Joining BSI: 29/05/2012

Pursuing Ph. D. on
FLORISTIC ASSESSMENT AND PHYTOSOCIOLOGICAL
STUDY OF PARVATI ARANGA WILDLIFE SANCTUARY
AND ADJACENT TIKRI FOREST AREA IN TERAI
REGION, GONDA, UTTAR PRADESH

Supervisor: Dr. S.K. Srivastava, Scientist-E & Head of Office, BSI, NRC, Dehradun
Co- Supervisor : Prof. L.M. Tewari , Kumaun University, Nainital (Uttarakhand)

Fellowship: ICAR-SRF- 16th Dec.2008 to 28thFeb.2011 (CSIR-NBRI, Lucknow).

Project : “Studies on relationship between eco-geography of the chemotypic variations of nine important but highly threatened medicinal plants species and prospects of their cultivation”



ANNUAL ACTION PLAN PROJECTS

Floristic Diversity of Upper Ganga Ramsar Site, Uttar Pradesh

2012-13:

- Field tours Undertaken: **Two** (September, 2012 and in March, 2013), along with Dr. Arti Garg, Scientist- D.
- Field numbers collected : **365**
- Field numbers identified: **25**

2013-14:

- Field tours Undertaken: **One** (December, 2013)
- Field numbers Collected: **77**
- Field numbers Identified: **52**

In totality:

Field tour undertaken: **3**

Field no. collected: **442**

Field no. identified: **77**

PUBLICATIONS

Research articles: 05

- Arti Garg and Vineet Singh. Mandu Sacred Grove in Upper Ganga Ramsar Site, Uttar Pradesh. *Current Science*. 104(4): 409-410. 2013
- Arti Garg, R.Kr. Singh, S.L.Gupta, Vineet Singh and Y. A. Siddiqui. The Gangetic Dolphin Plead for Mercy. *Current Science*. 105(7): 887-888. 2013
- Arti Garg and Vineet Singh. Siddhwari Sacred Grove in Upper Ganga Ramsar Site of Uttar Pradesh. *Current Science*. 105 (8): 1039-1040. 2013
- Arti Garg and Vineet Singh. Alien invasive elements of Upper Ganga Ramsar Site, Uttar Pradesh, India. *Indian Journal of Forestry*. 38(4): 383-386. 2015
- Arti Garg, Vineet Singh and Jitendra Pandey. The exclusion zone of Narora Atomic Power Station - A control hothouse. *Current Science*. 111(1): 11-12 . 2016

Book Chapter: 01

- Arti Garg, and Vineet Singh (2016). Traditional Conservation of Medicinal Plants in the sacred lands of Upper Ganga Ramsar Site in Uttar Pradesh. In H.K. Chourasia (ed.), Conservation of medicinal plants conventional and modern approaches. Omega Publications, New Delhi, 18-27.

Hindi Article: 01

- Arti Garg and Vineet Singh. Uppari Ganga Ramsar site ke kuch mahatovapoorna awashadhiya paudhey. *Vanaspati vani*. 22: 87-89 (2013).

Floristic Diversity of Parvati Aranga Wildlife Sanctuary and Adjacent Tikri Forest Area, Gonda, Uttar Pradesh. (For Annual Action Plan and Ph.D .as well)

Background of the Project:

Location: In Tarabganj tehsil on way to Gonda district, between 27°10" to 27° 24" N latitude and 82° 15" to 82° 20" E longitude.

Area : 80 km².

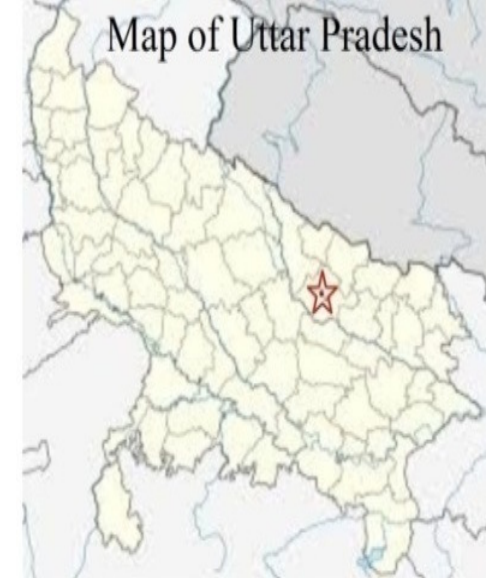
Elevation: 81 m above the sea level.

Climate: Lies in tropical continental zone with cold foggy winters (4°C) and extremely hot summers (48 °C).

Precipitation: 1000-12000 mm

Forest Type: Tropical deciduous forest.. Sanctuary is famous for migratoy birds and unique wetland floral elements.

The reserve forest area is rich in dense Sal forest (*Shorea robusta*), Teak forest (*Tectona grandis*) and swamp forest of Injar (*Barringtonia acutangula*) Kath jamun (*Syzygium heyneanum*) and many more community. The aim of the study is to document the flora of the area for use to stakeholders and academicians



SURVEY AND ACHIEVEMENTS

2014-15

- Field Tour Undertaken: **Two** (Aug., 2014 and March, 2015).
- Field Numbers Collected : **278**
- Field Numbers Identified: **101**
- Some rare and economically important plant species viz. *Gloriosa superba*, *Smilax zeylanica*, *Helminthostachys zeylanica*, *Barringtonia acutangula* etc. were also collected.
- During survey the ethnobotanical data of some highly medicinal plant species were also recorded.

2015-16

- Field Tour Undertaken : **One** (Sept., 2015)
- Field Numbers Collected : **150**
- Field Numbers Identified : **168**
- Taxonomic Description Prepared : **21** species.
- Collected some rare and interesting plant species viz. *Habenaria plantaginea*, *Oroxylum indicum*, *Hymenodictyon orixense* and *Curculigo orchioides* etc.

SURVEY AND ACHIEVEMENTS

2016-17

- **Field tour Undertaken: Two** (May, 2016 and Dec., 2016).
- Field Numbers Collected: **166**
- Field Numbers Identified: **97**
- Taxonomic Description Prepared: **46** species
- Studied **phytosociological** aspects by laying quadrats in the area.

In totality:

Field tour undertaken: **5**

Field no collected: **594**

Field no. identified: **367**

PUBLICATIONS

Research article: 07

- **Vineet Singh**, S. K. Srivastava and G. P. Sinha. A note on occurrence and conservation of *Gloriosa superba* in Parvati Aranga Wildlife Sanctuary, Gonda, Uttar Pradesh. *Envis Newsletter*. 19(2): 5. 2014
- **Vineet Singh** and S. K. Srivastava. Utilization of Wild Plants during *Tinchhath* festival in eastern Uttar Pradesh. *Ethnobotany*. 26(1&2): 101-103. 2014
- **Vineet Singh**, and S.K. Srivastava. A note on occurrence and copious growth of *Helminthostachys zeylanica* (L.) Hook. (Ophioglossaceae) in Tikri forest in Terai region, Uttar Pradesh. *Phytotaxonomy*. 15: 15-16. 2015
- **Vineet Singh**. Rare Sighting of Nearly Threatened Grey-Headed Fish-Eagle *Ichthyophaga Ichthyaetus* (Horsfield, 1821) From Tikri Reserve Forest of Eastern Uttar Pradesh, India. *Indian forester*. 141(10): 1104-1105 . 2015
- **Vineet Singh** & S. K. Srivastava. Parvati Aranga Bird Sanctuary - Castle for Purple Gallinule in Eastern Uttar Pradesh. *Indian forester*. 143(10): 1032-1033. 2016
- **Vineet Singh**, S.K. Srivastava and L.M. Tewari. Floristic Assessment of different Habitats of Parvati Aranga Wildlife Sanctuary and Adjacent Tikri Forest area, Gonda, U.P., India. *Tropical Plant Research* 3(3): 543-550. 2016
- **Vineet Singh**, S.K. Srivastava and L.M.Tewari. *Clerodendrum Indicum* (L.) Kuntze -A Folk Medicine for Skin Ailment (*Agiya*) from Bhar Aborigine of Tikri Reserve Forest, Gonda, District, Eastern Uttar Pradesh. *Journal of Non-Timber Forest Products*. 39(4): 221-223. 2016

Hindi article: 01

- **Vineet Singh** & S.K. Srivastava. Parvati Aranga Wildlife Sanctuary, Terai kshetra (Gonda), Uttar Pradesh ki Jaiv vividhita. *Vanaspati vani*. 25: 31-34 (2015).

FLORA OF CHHATTISGARH VOL.II

- Taxonomic Description Prepared: 32 species belonging to families Hydrocharitaceae, Burmanniaceae, Costaceae, Marantaceae, Musaceae, Cannaceae, Iridaceae, Amaryllidaceae, Hypoxidaceae, Agavaceae, Taccaceae and Xyridaceae.

TECHNICAL DUTIES

Year	2012-13	2013-14	2014-15	2015-16	2016-17
Incorporation of Herbarium specimens	1900	500	550	447	911
Old specimen Identification housed at BSA	-	-	250	154	256

- Assisted (Garden-in charge) in recording the phenological data of experimental garden plants during 2012-14.
- Identified and authenticated c. 30 specimens from outside agencies.
- Prepared genus and species cover as and whenever required.
- Regularly prepared BSI e-news report for *Envis*.
- Performed preliminary SEM analysis of pollen, seed and leaf epidermal morphology of some medicinally important plant species from botanical garden of the regional centre.
- Assisted visitors and students as and whenever required.

Summary

S.No.	Points	Individually/first or corresponding author	Jointly/Co-author	Total
a.	Number of projects carried out individually as well as jointly	1	2	3
b.	Number of Paper published individually /first author as well as jointly co-author	13	7	20+1 (Book Chapter)
c.	Hindi Articles	13	-	13
d.	Workshop/Training/Seminar	-	-	06

FUTURE PLAN

S.N.	Name of the Project.	Name of the executing Scientist/ Scientific Staff	Tenure	Quantifiable deliverables (targets) for April 2017- Dec.2017
1.	Flora of Chhattisgarh Vol.- II (Allotted Some Monocot families)	Shri V. K. Singh and others	2016-2018	Preparation of taxonomic description of species.
2.	Floristic diversity of Amangarh Tiger Reserve, Bijnor, Uttar Pradesh (Project submitted for approval)	Dr. Ashutosh Kumar Verma (Scientist- B) & Sri V.K. Singh	2017-2019	Q1. Review of literature and herbarium consultation. Q2. Field tour to selected sites and processing of the specimens. Q3. Identification and documentation of collected specimens.



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