

PROFILE OF SCIENTIST/RESEARCH WORKER

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Qualification: M.Sc. Ph.D. in Botany

Area(s) of Specialization: Cypselar Morphology, Cypselar Anatomy, Floristics, Ethno-
botany, Biodiversity and Conservation

Occupation/Designation: Professor in Botany

Major Activities :

1. Detailed morphological and anatomical investigation of cypselas in different members of Compositae with the help of SEM and LM studies. 2. Ethnobotanical & Floristic study of different Districts of West Bengal viz., Dakshin Dinajpur, Uttar Dinajpur, Kochbehar etc. Rayagoda district of Orissa (work is in progress). 3. Studied the recent status of Orchids of Sikkim State. 4. Presently busy with – a) Revisionary work of the genus *Litsea* Lam (Lauraceae), and *Habenaria* Willd. (Orchidaceae) in India; b) Taxonomic study of Indian Members of 3- sub-tribe of the tribe Justicieae sensu Benth. & Hook. f. (Acanthaceae); c) Seedling and ecological impacts on the Estuarine Ecosystem of Sundarbans; d) Phytodiversity in relation to soil - water factors of Sundarbans ; e) Petiolar & foliar architectural patterns of the Indian members of Rubiaceae; f) Organoleptic study of rhizomatous part of some Zingiberaceae of North Eastern India ; g) Reassessment and diversity of some aspects in relation to India and West Bengal i.e. Grasses and Bamboos of West Bengal; h) Endemic genera of India and adjacent countries ; i) Diversity of Pappus structure in some members of Compositae; j.) Taxonomic

studies of the genus *Dendrobium* SW (Orchidaceae) in India ; k.) Aquatic flora of South 24 – Parganas with reference to pollen morphology ; l) The faculty intends to continue with his Ethnobotanical and Floristic studies of different Districts of West Bengal and Odisha viz., Dakshin Dinajpur, Uttar Dinajpur, Kochbehar etc. Rayagada district of Orissa (work is in progress).

1. Studies on the recent status of Orchids of Sikkim State.
2. Revisionary works on *Litsea* Lam. (Lauraceae) and *Habenaria* Willd. *Dendrobium* (Orchidaceae) in India.
3. Taxonomic study of Indian Members of 3- sub-tribes of the tribe Justicieae sensu Benth. & Hook. f. (Acanthaceae).
4. Seedling and ecological impacts on the Estuarine Ecosystem of Sundarbans. Phytodiversity in relation to soil - water factors of Sundarbans.
5. Petiolar and foliar architectural patterns of the Indian members of Rubiaceae.
6. Diversity of Grasses and Bamboos of West Bengal.
7. Endemic status of Indian genera and its adjacent countries.
8. Diversity of pappus structure, stylopodial structure, trichomes in mature cypselas and distribution in phytomelanin in some members of Compositae.
9. Numerical analysis of micro - characters of stamens, styles, stigmas and ligules in Compositae.
10. Foliar and nodal characters of Compositae.
11. Taxonomic studies of the genus *Dendrobium* SW and *Habenaria* Willd. (Orchidaceae) in India.
12. Aquatic flora of South 24 – Parganas with reference to pollen morphology.
13. The mode of distribution of Phytomelanin layer in different members of Compositae, specially in the tribe Heliantheae, Eupatorieae and Helenieae.
14. Working on ethnobotanical survey of Toto tribe of Jalpaiguri district and it is the only endemic member of West Bengal.
15. To survey of wetlands and aquatic floras of Nadia district of West Bengal.
16. Revision of some subtribes of the tribe Vernonieae of Compositae.
17. Petal venation of some members of Compositae and some available taxa of West Bengal.

***Awards/Recognitions:* Swedish Linnaean Jubilee Medal Awarder in 2008**