

FLORA OF MANJEERA WILDLIFE SANCTUARY, TELANGANA

- Executing Scientist (s): **Dr. L. Rasingam**
- Duration of the project: **2019-2022**

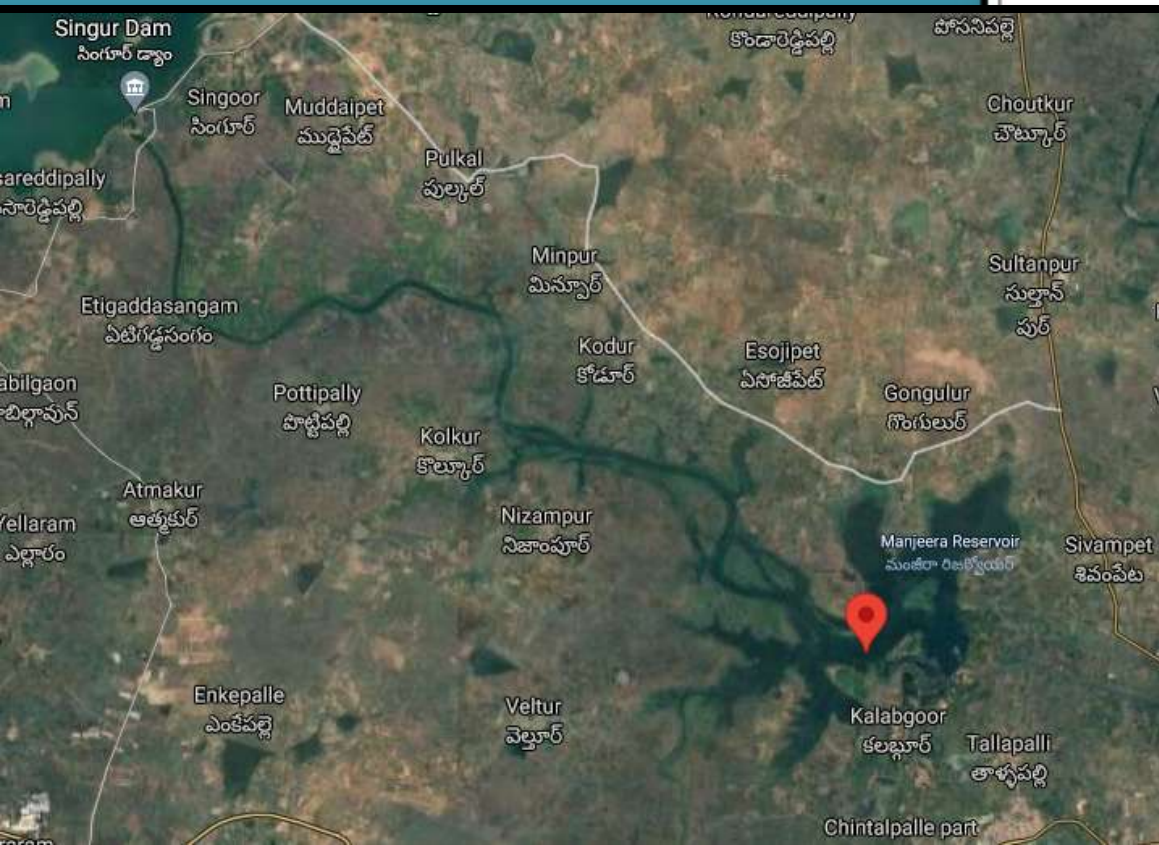
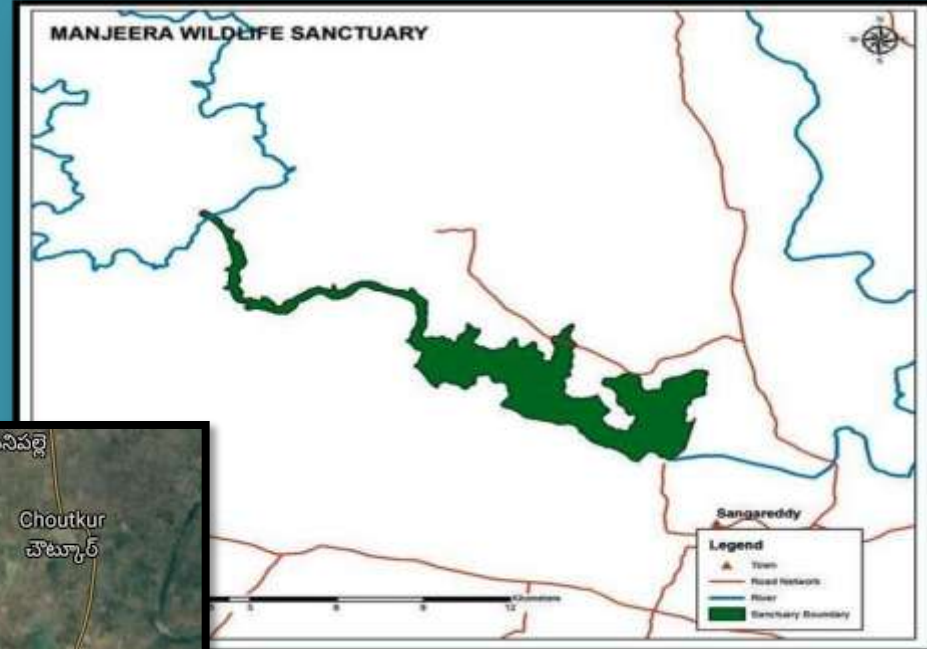


Introduction

- ❑ MWLS – a manmade fresh water ecosystem
- ❑ Area – 20 sq km (Sangareddy District, Telangana)
- ❑ Latitude & Longitude - $17^{\circ}57'52''\text{N}$ $78^{\circ}02'22''\text{E}$.
- ❑ The reservoir was notified as wildlife sanctuary on 20th May 1978 to conserve marsh crocodiles, fresh water terrapins and other water birds.
- ❑ Location – 50 km northwest of Hyderabad and drinking water source for the twin cities.
- ❑ The riverine ecosystem has many small islets viz. Puttigadda, Bapangadda, Sangamadda, Karnamgadda, which harbour good vegetation and the extensive marshy fringes act as nesting sites for water birds.



Map of Manjeera WLS



Objectives

- To explore floral diversity of the wildlife sanctuary by frequent field tours.
- Bring out a preliminary floristic account of the protected area, with detailed analysis, including identification of endemic/threatened plants with the conservation and management issues.

Work done so far (April 2019- March 2021)

- ❖ Field tours proposed -04
- ❖ Tours undertaken – 03*
- ❖ Total number of field numbers collected – 349
- ❖ Species identified – 183
- ❖ Herbarium consultation tour – 01 (CNH-completed)
- ❖ Area explored – c.18 sq. km
- ❖ Publications from the study area – Nil

*01 tour could not be carried out in 2020 due to Covid-19 and budget constraints

Work to be done

- Field tour – 01 (2nd quarter)
- Herbarium consultation Tour – 01 (MH)
- Identification of remaining field numbers.
- Preparation and submission of report.



Publications

Book:

1. **RASINGAM, L.** & S.M. REHEL (2020). *Forest Plants of the Nilgiri Biosphere Reserve – North-eastern Nilgiri Biosphere Reserve – A Pictorial Field Guide*, Keystone Foundation, Kotagiri, Tamil Nadu, pp. 1-362.

Book chapter:

1. **RASINGAM, L.** 2020. Assessment of Floristic Diversity of Nagarjunasagar-Srisailem Tiger Reserve, India. In: Singh, L.J., Ranjan, V. (Eds.) *New Vistas in Indian Flora 2*, Bishen singh Mahendra Pal Singh, Dehradun. 761-769.

Papers: 09

1. LAL JI SINGH, VINAY RANJAN, **L. RASINGAM**, J. SWAMY (2020). A new species of genus *Dendrophthoe* Mart. (Loranthaceae-Loranthaceae) from the Peninsular India, *Journal of Asia-Pacific Biodiversity*, <https://doi.org/10.1016/j.japb.2020.03.017>
2. SWAMY, J. AND **L. RASINGAM** (2020). Notes on the distribution of *Tephrosia noctiflora* Bojer ex Baker (Leguminosae) in Andhra Pradesh. *Plantasia* #20, In: *Zoo's Print* 35(5): 113–116.
3. **RASINGAM, L.** & K. KARTHIGEYAN (2020). *Ziziphus ridleyana*, a new name for *Ziziphus macrophylla* Ridl. (Rhamnaceae), *Phytotaxa* 454 (1): 071–072. <https://doi.org/10.11646/phytotaxa.454.1.7>
4. MAHESH, Y., **L. RASINGAM** AND M.V. RAMANA (2020). *Habenaria reniformis* (D. Don) Hook.f. (Orchidaceae) - A New Distributional Record for Andhra Pradesh, *Nelumbo* 62(1): 57-59.

5. IBANEZ, T., KEPPEL, G., BAIDER, C., BIRKINSHAW, C., FLORENS, F. B. V., LAIDLAW, M., MENKES, C., PARTHASARATHY, N., RAJKUMAR, M., RATOVOSON, F., **RASINGAM, L.**, REZA, L., AIBA, S., WEBB, E.L., ZANG, R. AND BIRNBAUM, P. (2020). Tropical cyclones and island area shape species abundance distributions of local tree communities, *Oikos* doi: 10.1111/oik.07501 (Impact factor - 3.370)
6. SWAMY, J., **RASINGAM, L.**, NAGARAJU, S. & POOJA R. M. (2020). A new species of *Dillenia* (Angiosperms: Dilleniaceae) from the Eastern Ghats of Andhra Pradesh, India. *Journal of Threatened Taxa* 12(11): 16636–16640. DOI: 10.11609/jott.5529.12.11.16636-16640
7. **RASINGAM L.** AND J. SWAMY (2020). *Brachystelma telanganense* (Apocynaceae: Asclepiadoideae-Ceropegieae) – a new species from Telangana, India. *Rheedea* 30(3): 379-382. DOI: <https://dx.doi.org/10.22244/rheedea.2020.30.03.02>
8. SWAMY, J. AND **L. RASINGAM** (2020). A new variety of *Amorphophallus konkanensis* (Araceae) from Telangana, India. *Nelumbo* 62(2): 4-11. DOI: 10.20324/nelumbo/v62/2020/155000
9. SWAMY, J. AND **L. RASINGAM** (2021). *Corynandra telanganensis* (Cleomaceae), a new species from India. *Ann. Bot. Fennici* 58: 79–82.

ACHIEVEMENTS

PUBLISHED **ONE BOOK AND 09 RESEARCH** PAPERS

1. *Dendrophthoe gamblei* L.J. Singh, V. Ranjan, Rasingam & J. Swamy
2. *Brachystelma telanganense* Rasingam & J. Swamy
3. *Corynandra telanganensis* J. Swamy & Rasingam
4. *Dillenia thirupathiensis* J. Swamy & Rasingam
5. *Amorphophallus konkanensis* var. *kinnerasaniensis* J. Swamy & Rasingam

Assessment of Cyclone affected Red Sanders
(*Pterocarpus santalinus* L.f.) plantations in
Paralakhemundi Forest Division, Odisha



ASSESSMENT OF CYCLONE AFFECTED RED SANDERS (*PTEROCARPUS SANTALINUS* L.F.) POPULATIONS IN PARLAKHEMUNDI FOREST DIVISION, ODISHA

- **Executing Scientist (s):** Dr. L. Rasingam & Dr. J. Swamy
- **Date of initiation and completion:** June 2020
- **Summary:**
A tour has been undertaken to Odisha State from 11th to 14th June 2020 for the assessment of cyclone affected Red Sander trees (*Pterocarpus santalinus* L.f.) in Mahendra Range of Paralakhemundi Forest Division. Prepared and submitted the report of the same to the directorate on 30th June 2020.



WORK DONE IN 2020-21

FLORA OF INDIA

VOLUME 31: 99 TAXA BELONGING TO 42 GENERA

VOLUME 32: 77 TAXA BELONGING TO 13 GENERA

EDITED AS PER FLORA OF INDIA FORMAT

Brachiaria (20 species & 7 varieties)

Cenchrus (21 species)

Chrysopogon (21 species)

Glyphochloa (12 species and 2 varieties)

Hordeum (8 species & 3 subspecies)

Panicum (34 species)

Alloteropsis (2 species & 2 varieties)

Apluda (01), *Sehima* (04) and *Pogonachne* (01)

Webinars

- Organized – 02
- Attended – 07
- Talk delivered – 03
 1. Delivered a lecture on “An overview of Deccan Regional Centre, Hyderabad at the “National Webinar on Role of Botanical Survey of India in Biodiversity Conservation” on 14th October 2020 organized by BSI, DRC, Hyderabad.
 2. Delivered a lecture on “The recent advances in Plant Taxonomy in the two days online workshop jointly organised Botanical Survey of India, Deccan Regional Centre and St. Ann’s Women College, Mehdipatnam on 25th November 2020.
 3. Delivered a key note address on ‘Recent Trends in Plant Taxonomy’ in ‘National Webinar on Emerging aspects of Taxonomy and Biodiversity’ organised jointly by Botanical Survey of India, Deccan Regional Centre, Hyderabad and Government City College, Hyderabad on 3rd February 2021.



Thank you