



Annual Scientific Meet 2017

Dr. T. S. SARAVANAN

Botanical Assistant, BSI, SRC, NOEG, Yercaud

Studies on the site specific bioinoculants to improve the growth, biomass and carbon pool of *Casuarina* in Agro-forestry.

- Worked as Project Assistant in UGC funded Major Research Project under the guidance of Dr. K. Rajendran, Associate Professor & Head of the Department, Madurai Kamaraj University.
- Joined BSI in 2013.
 - Sr. Preservation Assistant from 29.04.2013 to 05.06.2013.
 - Botanical Assistant from 06.06.2013 to till date.

Annual Action Plan 2013-14

- **Title: Ex-situ conservation of endemic, endangered and threatened plants of the region and recording of phenology of flowering / fruiting of species in garden at National Orchidarium & Experimental Garden, BSI, SRC, Yercaud (Dr. S. Kaliamoorthy and Dr. T. S. Saravanan)**
 - Annual Action Plan tour programme (2013-14) (Quarter II) to Kolli Hills, Namakkal District, Tamil Nadu.
 - Totally 41 species belonging to 38 genera under 23 families were surveyed, collected and introduced in NOEG, Yercaud.
 - Among these, 9 species belonging to 9 genera under the family Orchidaceae.

Annual Action Plan 2013-14

- Annual Action Plan tour programme (2013-14) (Quarter IV) to Idukki, Munnar and Marayoor, Kerala.
- Totally 37 species belonging to 28 genera under 14 families were surveyed, collected and introduced in NOEG, Yercaud.
- Among these, 23 species belonging to 15 genera under the family Orchidaceae.
- 45 species including 22 genera of orchid phenology were recorded.



***Bulbophyllum
fuscopurpureum* Wight**



***Coelogyne nervosa* A. Rich.**



***Cymbidium bicolor* Lindl.**



***Gastrochilus acaulis* (Lindl.)
Kuntze**



***Papilionanthe subulata*
(Koenig) Garay**



***Eria pauciflora* Blume**

Annual Action Plan 2014-15

- Annual Action Plan tour programme (2014-15) (Quarter III & IV) to Agasthyamala Biosphere Reserve Forest, Kerala, India.
 - Totally 32 species belonging to 30 genera under 10 families were surveyed, collected and introduced into NOEG, Yercaud.
 - Among these, 23 species belonging to 21 genera under the family Orchidaceae.
 - 80 species including 35 genera of orchid phenology were recorded.



Calanthe masuca (D. Don)
Lindl.



Coelogyne nervosa A. Rich.



Dendrobium nanum Hook. f.



D. wightii A.D. Hawkes & A.
H. Heller



Habenaria crinifera Lindl.



Satyrium nepalense D. Don

Annual Action Plan 2015-16

- Annual Action Plan tour programme (2015-16) (Quarter IV) to Bhadra & Kudhramukh WLS, Karnataka.
 - Totally 40 species belonging to 24 genera under 6 families were surveyed, collected and introduced into NOEG, Yercaud.
 - Among these, 34 species belonging to 18 genera under the family Orchidaceae.
 - 105 species including 39 genera of orchid phenology were recorded.



Acanthephippium bicolor
Lindl.



Bulbophyllum fimbriatum
(Lindl.) Rchb.f.



B. neilgherrense Wight



B. tremulum Wight



Cottonia peduncularis (Lindl.)
Rchb.f.



Luisia macrantha Blatt. &
McCann

Annual Action Plan 2016-17

- Annual Action Plan tour programme (2016-17) (Quarter II & III) to Silent Valley National park, Kerala, India.
 - Totally 53 species belonging to 32 genera under the family Orchidaceae were surveyed, collected and introduced into NOEG, Yercaud.
 - 110 species including 42 genera of orchid phenology were recorded.



Arundina graminifolia (D. Don) Hochr.



Calanthe sylvatica (Thouars) Lindl.



Peristylus richardianus Wight



Dendrobium nodosum Dalzell



Eria microchilos (Dalzell) Lindl.



Malaxis densiflora (A. Rich.) Kuntze



Trias stocksii Benth. ex Hook. f.



Epipogium roseum (D. Don)
Lindl.



Dendrobium barbatulum
(Lindl.)



Vanda thwaitesii Hook. f.



Zeuxine gracilis (Breda)
Blume



Z. longilabris (Lindl.) Trimen

Annual Action plan projects 2016-2017

Title: Collection, introduction and multiplication of 10 endemic trees species from Silent valley National Park, Kerala (Dr. M.Y. Kamble & Dr. T. S. Saravanan)

- *Cullenia exarillata* A. Robyns (Bombacaceae): 20 seeds & 5 seedlings
- *Elaeocarpus munroii* (Wight) Mast. (Elaeocarpaceae): 20 seeds & 10 stem cuttings
- *Holigarna arnottiana* Hook f. (Anacardiaceae): 15 seedlings
- *H. beddomei* Hook f. (Anacardiaceae): 10 seedlings
- *Actinodaphne bourdillonii* Gamble (Lauraceae): 10 seedlings
- *Litsea floribunda* (Blume) Gamble (Lauraceae): 20 stem cuttings
- *Pittosporum neilgherense* Wight & Arn. (Pittosporaceae): 10 stem cuttings
- *Pinanga dicksonii* (Roxb.) Scheffr. (Arecaceae): 10 saplings
- *Hardwickia binata* Roxb. (Caesalpinaceae): ca 100 seeds
- *Cinnamomum malabattrum* (Burm. f.) Lauraceae: 20 seedlings

Annual Action plan 2016-2017

Title: Flora of Kerala (Bromiliaceae to Burmaniaceae)

- Library and Herbarium consultation tour to BSI, SRC, Coimbatore from 22.11.2016 to 25.11.2016 (Four Days). During this period, Bromiliaceae to Burmaniaceae literatures were collected and also herbarium specimens studied.

Research articles

Published:

- S. Kaliamoorthy, **T. S. Saravanan**, B. S. Elango & G.V.S. Murthy (2015). The Elenadu shortcrown *Brachystelma elenaduense* Sathyan. (Asclepiadaceae) – A new distribution record for Tamil Nadu, India. *Journal of Threatened Taxa*. 7(9): 7587-7588.

Communicated:

- S. Kaliamoorthy, **T. S. Saravanan**, G.V.S. Murthy. *Cheirostylis flabellata* (A. Rich.) Wight – a note on its occurrence in Eastern Ghats – Communicated to the Journal of Economic and Taxonomic Botany.
- S. Kaliamoorthy, **T. S. Saravanan**, Althaf Ahamed Kabeer. *Luisia indica* (Orchidaceae) – A new record for Peninsular India, communicated to Rheedeia.
- **T. S. Saravanan**, S. Kaliamoorthy, and M. Y. Kamble. *Zeuxine reflexa* King & Pantl. (Orchidaceae)- A new record for Peninsular India from Eastern Ghats of Tamil Nadu, communicated to Rheedeia.
- S. Kaliamoorthy and **T.S. Saravanan**. *Liparis ferruginea* Lindl. (Orchidaceae) - A new record for India from the Western Ghats of Kerala. Communicated to Bangladesh Journal of Plant Taxonomy

Future plan

- The flowering and fruiting phenology would be continued for the remaining orchids of NOEG, BSI, Yercaud.



Thank You

