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Exploration of Botanical Ground Flora of Palayamkottai, Tirunelveli, Tamilnadu

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Abstract
The aim of the present study was to explore of ground flora of Palayamkottai, Tirunelveli District Tamil nadu, during in the study periods from (2019 -2020). The conclusion of the results observed that a total of 66 ground floras including one pteridophyte were collected and identified in the Palayamkottai region of Tamil Nadu.

Keywords: Ground flora, Plants, Palyamkottai, vernacular name,tamilnadu

1. INTRODUCTION

Biodiversity can be considered at several spatial scales, including local (populations or communities), landscape, national and international. Till now, flowering plants, gymnosperms, and ferns, about 40% of the world's represented in the 2,75,000 species occur in the world. Anthropogenic impact has caused the greatest loss of plant resources due to continued exploitation. Many of the species have been become extinct in the uses and collecting entire plants and some others are facing threat of extinction. Major threats to ground flora for the reasons of habitat destruction, degradation, fragmentation, over exploitation, poaching, pollution and climate change. So, it becomes very important to conservation of plants in local ground flora survey and document the floristic diversity and traditional of important of medicinal plant. Keeping in the view the above aspects the survey of flowering plant diversity as Palayamkottai has been conducted to assess and documentation of ground flora of Palayamkottai, Tamilnadu, India.

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2. MATERIALS AND METHODS

To assess and documentation of the floral diversity of Palyamkottai, Tirunelveli District, Tamil nadu India, during the study period from 2019 -2020. The collection of plant specimens was photographed on site, describing all possible details of leaf, stem, flower, fruit and association, with habitat and habit in a field notebook. Specimens were collected comprising all available parts and preserved. Finally herbarium was prepared by standard method. The preserved herbarium specimens were identified by with the help of Flora of Carnatic [1].

Table-1: Identification of ground flora of Palayamkottai, Tirunelveli District, Tamilnadu

Sl. No	Plant Name	Family	Habit	Common Name
1.	Indigofera tinctoria Linn.	Fabaceae	Herb	Avuri
2.	Abrus precatorius L.	Fabaceae	Herb	Kuntrimani
3.	Clitoria ternatea L	Fabaceae	Herb	Sanku poo
4.	Tamarindus indica L.	Fabaceae	Tree	Puliyamaram
5.	Tephrosia purpurea (L.)Pers	Fabaceae	Herb	Kolungi
6.	Bauhinia purpurea L.	Fabaceae	Tree	mantarai
7.	Dalbergia sissoo DC	Fabaceae	Tree	Chichamaram
8.	Cassia Occidentalis L	Fabaceae	Tree	Payaverai
9.	Ponngamia pinnata Linn.	Fabaceae	Tree	Pungaimaram
10.	Abutilon indicum (L.)Sweet	Malvaceae	Herb	thuthi
11.	Abutilon hirtum (Lam.)Sweet	Malvaceae	Herb	Vadattuti
12.	Sida cordifolia Linn.	Malvaceae	Herb	sidthamutti
13.	Thespesia populnea L	Malvaceae	Tree	Poovarasu
14.	Achyranthes aspera L.	Amaranthaceae	Herb	Nayurivi
15.	Amaranthus viridis L.	Amaranthaceae	Herb	Paruppu Keerai
16.	Aegle marmelos (L.) Corre'a.	Rutaceae	Tree	Vilvai maram

17.	Prosopis juliflora (Sw.)DC	Mimosaceae	Shrub	Karuvelamaram
18.	Synedrella nodiflora (L.) Gaertn.	Asteraceae	Herb	Mudiyan pachai chedi
19.	Tridax procumbens L.	Asteraceae	Herb	Thatha poo
20.	Eclipta alba (L.)Hassk.	Asteraceae	Herb	Karisilankanni
21.	Pedalium murex Linn	Pedaliaceae	Herb	Yanai nerunci
22.	Physalis minima L.	Solanaceae	Herb	Sodakku takkali
23.	Solanum nigrum L.	Solanaceae	Herb	Kutti takkali
24.	Solanum trilobatum L.	Solanaceae	Herb	Thoothuvalai
25.	Solanum surattense Burm. f	Solanaceae	Herb	Kandan Kathari
26.	Datura stramonium L.	Solanaceae	Herb	Karuppu Omathai
27.	Datura metal L	Solanaceae	Herb	Omathai
28.	Ocimum tenuiflorum L.	Lamiaceae	Herb	Karuntulasi
29.	Ocimum sanctum Linn	Lamiaceae	Herb	Thulasi
30.	Plectranthus amboinicus (Lour.) Spreng	Lamiaceae	Herb	Karpoora valli
31.	Argemone maxicana L.	Papaveraceae	Herb	Pirama tandu
32.	Boerhaavia diffusa L.	Nyctaginaceae	Herb	Saani keerai
33.	Calotropis procera (Aiton) Dryand.	Asclepiadaceae	Herb	Erukku
34.	Cassia tora L.	Caesalpiniaceae	Herb	Nattu nilavaagai
35.	Cassia fistula L.	Caesalpiniaceae	Tree	Kontrai
36.	Coccinia grandis(L.) J.Voigt	Cucurbitaceae	Twinner	Kovakkai
37.	Mukia maderaspatana (L.) M. Roem.	Cucurbitaceae	herb	Musumusukkai
38.	Commelina benghalensis L.	Commelinaceae	Herb	Kaanankolai sedi
39.	Croton bonplandianum Baill.	Euphorbiaceae	Herb	Beenari Kulai
40.	Euphorbia hirta L.	Euphorbiaceae	Herb	Amman Pacharici
41.	Phyllanthus emblica Linn. (syn. Emblica officinalis	Euphorbiaceae	Tree	Nellikkai
42.	Phylanthus niruri L.	Euphorbiaceae	Herb	Keelanelli
43.	Euphorbia antiquorum Linn.	Euphorbiaceae	Herb	Ranakalli
44.	Ricinus communis L	Euphorbiaceae		Amanakku
45.	Acalypha fruticosa Linn.	Euphorbiaceae	Herb	Cirucinni sedi
46.	Acalypha indica L	Euphorbiaceae	Herb	Kubbaimeni
47.	Adathoda vascica Nees	Acanthaceae	Shrub	Adathoda
48.	Andrographis paniculata (Burm. f.) Wall. ex Nees	Acanthaceae	Herb	Nilavembu
49.	Aloe vera (L.) Burm.f.	Asphodelaceae	Herb	Sotru katralai
50.	Azadirachta indica Jus.	Meliaceae	Tree	Vebba maram
51.	Terminalia berlica Linn	Combretaceae	Tree	Tantric maram
52.	Terminalia cattapa Linn.	Combretaceae	Tree	Natvadom tree
53.	Vitex negundo Linn.	Verbenaceae	Tree	Karu Nochi
54.	Ipomoea aquatica Linn.	Convolvulaceae	Twinner	Vallakeerai
55.	Cynodon dactilon Linn.	Poaceae	herb	Arugampul
56.	Cyperus rotundus Linn.	Cyperaceae	Herb	Korai
57.	Lawsonia Inermis Linn	Lythraceae	Shrub	Marutani
58.	Syzygium cumini (L.) Skeels	Myrtaceae	Herb	Navel
59.	Moringa oleifera Lam.	Bignoniaceae	tree	Murungaikai
60.	Morinda tinctoria Roxb	Rubiaceae	Tree	Manjanathi
61.	Ficus benghalensis L.	Moraceae	Tree	Alamaram
62.	Ficus racemosa L.	Moraceae	Tree	Athi
63.	Morus alba L.	Moraceae	shrub	Mulberi
64.	Cardiospermum halicacabum L.	Sapindaceae	Herb	Modakattan keerai
65.	Tribulus terrestris L.	Zygophyllaceae	herb	Nerinchimul
66.	Pteirs vittata	Pteridaceae	Herb	Perani

Table -2: Total number of family and species

Sl No.	Family	Species
1	Fabaceae	9
2	Malvaceae	4
3	Amaranthaceae	2
4	Rutaceae	1
5	Mimosaceae	1
6	Asteraceae	3
7	Pedaliaceae	1
8	Solanaceae	6
9	Lamiaceae	3
10	Papaveraceae	1
11	Nyctaginaceae	1
12	Asclepiadaceae	1
13	Caesalpiniaceae	2
14	Cucurbitaceae	2
15	Commelinaceae	1
16	Euphorbiaceae	8
17	Acanthaceae	2
18	Asphodelaceae	1
19	Meliaceae	1
20	Combretaceae	2
21	Verbenaceae	1
22	Convolvulaceae	1
23	Poaceae	1
24	Cyperaceae	1
25	Lythraceae	1
26	Myrtaceae	1
27	Bignoniaceae	1
28	Rubiaceae	1
29	Moraceae	3
30	Zygophyllaceae	1
31	Sapindaceae	1
32	Pteridaceae	1

3. RESULTS AND DISCUSSION

In the present study observed that botanical exploration and survey of plants in Palayamkottai, Tirunelveli District, Tamil Nadu is represented in the table -1. During the botanical survey of the present study observed that about 66 plant species and 32 famalies were collected, preserved and documented in the table -1. The dominant number of species of Fabaceae and Euphorbiaceae was observed in the table-2. One pteridophyte species of *Pteris vittata* was identified (table-1). In this information regarding to scientific nomenclature of plant species, their families and vernacular name are represented in the Table - 1. Present study observed that the result of species of Fabaceae is the most dominant family and followed by Euphorbiace (7 sp), Solanaceae (6), Malvace (4sp) and Moraceae (3sp) species respectively. Previously, reported that several plants are used for medicinal purposes such as *Solanum nigrum*, *Azadirachta indica*, *Ficus benghalensis*, *Morus alba* and *Tribulus terrestris* (Muhammad Umair et al.,2019). The conclusion of the present study observed that 66 plants are identified and most of the plant species were locally used for various medicinal purposes.

4. REFERENCES

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