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Wetland inventory and useful plants of Coonoor, Nilgiris of the Western Ghats, Tamilnadu, India

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ABSTRACT: Background: Floristic documentation in any particular area could reveal their importance in biodiversity conservation. **Aim:** The present study was undertaken to assess the wetland flora of Coonoor in Nilgiris, Tamil Nadu. **Methods:** The collected plant specimens were identified with the help of available floras and literature. The voucher specimens are deposited in the 'Bharati' Herbaria, Department of Botany, Bharathiar University, Coimbatore, for future references. **Results:** A total of 130 species were collected and identified during the field investigation, which belongs to 107 genera with 49 families of the present study, out of which 129 species were angiosperms and only one species represented by Pteridophyte. The study has recorded 42 plant species, which are used as herbal remedy for treatment of various diseases by the local people to face their daily health care needs. **Conclusion:** Many wetland plants were found to be endemic and endangered having many economical uses due to their medicinal properties, edibility. These are in severe threat of extinction with plants and animals. It is therefore, an urgent and almost need to record and to assess the wetland diversity and potentiality of their wetland flora of the district before they will vanish forever.

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INTRODUCTION:

Wetlands are defined as 'lands transitional between terrestrial and aquatic eco-systems [1] and they occupy 4 to 6 % of the earth's land area [2,3]. They maintain the water table relatively high and stable by retaining water during dry periods. Hence, they are referred as "Kidney of the landscape" [4]. They are one of the most productive ecosystem of world and essential life supporting systems providing a wide array of benefits. Indian wetlands are grouped as Himalayan wetlands, Indo-Gangetic wetlands, Coastal wetlands and Deccan

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wetlands. They occur in the hot arid regions of Gujarat and Rajasthan, the deltaic regions of the east and west coasts, highlands of central India, wet humid zones of south peninsular India and the Andaman and Nicobar and Lakshadweep islands. India being a leading agricultural country depends on major rivers like Ganga, Brahmaputra, Narmada, Godavari, Krishna, Kaveri and Tapti which are supported by the water supply by the wetlands [5].

The Nilgiris is home to exclusive wetlands and they are among the most important reservoirs of biodiversity that nature has meticulously crafted over millions of years, which are considered as wastelands and are neglected worldwide. So the wetland ecosystems are extensively threatened. Some studies on the Wetland plants are now available from the different phytogeographical regions of India. Earlier researches on wetland plants were done by various workers [6-15]. The present study in taxonomic survey of wetlands vegetation documents wetland species distribution and analysis, the distribution for four categories viz Haptophytes, Helophyte, Hyperhydate, Tenagophyte [16,17], have already documented the geographical distribution of species of South Indian hill station. Mohandass [18], also recorded the floristic distribution in Montana swamps of Nilgiris Mountains, Southern India. A review of literature clearly indicates that there is no comprehensive data on the local distribution and habit diversity of wetland species in Coonoor, Nilgiri District, Tamil Nadu and Southern India.

MATERIALS AND METHODS:

Study area:

Nilgiri district or Blue Mountains are some of the most picturesque mountain ranges situated in Southern India, it is located in North Western corner of Tamil Nadu, South India and the district has a geographical area of 2,543 sq. km, constituting about 1.95 % of area of Tamil Nadu state. Coonoor is situated in the state of Tamil Nadu in Southern India. It ranges between 11°21' Northern latitude and 76°49' Eastern longitude. The average annual temperature is 17.0 °C. The rainfall here averages 1335 mm. Rainfall is low in the month of December to February and the weather is chill and very cold. During March to May the weather is warm and hot. During June to October there is continuous heavy rain. The warmest month of the year is May with an average temperature of 19.6 °C. The lowest average temperature in the year occurs in January, when it is around 13.9 °C.

The difference in precipitation between the driest month and the wettest month is 204 mm. The variation in temperatures throughout the year is 5.7 °C.

The major rivers flowing in Coonoor are Coonoor River, Lambs Rock River and Singara River. Coonoor River is a tributary of Bhavani River that empties into Kaveri River (Fig 3). Some of the water falls in the study area includes Catherine Falls and Malanur falls. Catherine falls is one of the beautiful tourist locations in the region that features a stream of water falling from an altitude of 250 ft.

Methodology:

The present study was undertaken to study the wetland flora of Coonoor, Nilgiris District Southern Western Ghats of Tamil Nadu, India. Several intensive and extensive field trips were conducted, each ranging from 3 to 4 days were undertaken from 2015 to 2018 to different parts of the study area in all seasons, so as to collect the entire flowering and fruiting materials for almost all the species followed by Ariyan Sarvalingam and Arumugam Rajendran [19]. The collected plant specimens were identified with the help of available floras and literature [20-25]. The correct identity of the herbarium specimens were then confirmed by further critical study with the help of authentic specimens deposited in the Madras Herbarium (MH), of Botanical Survey of India (BSI), Southern Circle, Coimbatore. Vegetation types and many interesting plants were photographed, important observations and any other relevant field data were noted in the field itself. Suitable maps, tables, figures and Plates are given in appropriate places. The voucher specimens are deposited in the Bharati Herbaria, Department of Botany, Bharathiar University, Coimbatore, for future references.

RESULTS AND DISCUSSION:

Species inventory:

The present study was undertaken to assess the wetland flora of Coonoor in Nilgiris Tamil Nadu. A total of 130 species were collected and identified during the field investigation, which belongs to 107 genera with 49 families of the present study of which 129 species were angiosperms and only one species represented by pteridophyte. Dicots are dominating with 40 families and monocot with 8 families (Table 1).

Out of 49 families of which, *Asteraceae* is the most dominant family in the present study with 21 species under 19 genera followed by *Solanaceae* the second dominant family having 8 species, followed by

Fabaceae 7 species, Rubiaceae, Lamiaceae, Urticaceae and Cyperaceae with 4 species each, Caryophyllaceae, Malvaceae, Rosaceae, Myrtaceae, Apiaceae, Scrophulariaceae, Verbenaceae and Araceae with 3 species. Rest of the other families are represented by one or two species each (Fig 1).

Out of 12 genera represented in monocotyledons, *Arisaema* and *Cyperus* is the first dominant genera with 2 species, followed by other genera with 1 species. In pteridophyte Adiantum is single genus with single species. The life form analysis of the present study of wetland flora reveals that herbs are dominant with 71 % (9 species), followed by 12 % (16 shrubs), 10 % (14 climbers) and 7 % (9 trees). Based on the observation, herbaceous plant species are dominant vegetation in adverse condition such as climate and salinity.

The collection of plant taxa is very high at the end of October, and very less during summer ^[26]. In the present work wetland taxa are classified in to 4 groups on the basis of their growth forms following the concept. Out of the total species observed 36 % (46 species) were recorded as Helophyate (Hel.), 43 % (56 species) as Hyperhydate (Hyp.), 11 % (14 species) as Haptophyte (Hap.) and 10 % (13 species) as Tegnophyte (Teg.). Many of these species are not restricted only to wetlands and also to moist habitat (Fig 2).

The occurrence of the wetland species in the study area were analyzed Based on the extent distribution and frequency of occurrence, the species are categorized as common (74 %), Occasional (8 %), Scattered (6 %) and Rare (12 %). The rare taxa such are Rosa leschenaultiana, Wight and Arn., Ganaphalium coarctatum, Willd, Exacum wightianum, Arn., Piper mullesua, Buch. Ham. ex D.Don, Arisaema leschenaultia, Blume., Cheirostylis flabellate, (A. Rich.) Wight, Anaphalis leptophylla DC, Anaphalis subdecurrens (DC) Gamble, Impatiens minae Rathe, Ophiopogon intermedius, D.Don, and Hydrocotyle conferta Wt.

Total number of 130 species, the fruit types were grossly categorized into 9 types of which Achene (31) turned to be dominant, second dominant was Capsule (27), followed by others Berry (18), Pod (15), Drupe (7), Schizocarp (3), Caryopsis, Nut with (2 species) Samara and Follicle (1) each.

The present study also critically identified *Impatiens minae* Rathe species is a new record to Tamil Nadu. Out of 130 species, of which 9 species are in threatened categories were documented in the present study. Among that *Hydrocotyle coferta* is an endangered species

collected from the study area. 8 Endemic taxa are collected from the study area such are Rosa leschenaultiana Wight (Arn.), Ganaphalium coarctatum Willd, Exacum wightianum Arn, Piper mullesua Buch. (Ham. ex D.Don.), Arisaema leschenaultia Blume, Cheirostylis flabellate (A. Rich.) Wight, Anaphalis leptophylla DC, Rubus ellipticus Smith, Ophiopogon intermedius D.Don, and Hydrocotyle coferta Wt. Many of these plant species have immediate attention for their conservation. It is an alarming situation where endangered species require more and more attention.

Ethno botanical Study:

In India, rural people traditionally use about 9500 wild plants for various purposes like medicine, food, fodder, fuel, fiber and other miscellaneous purposes. The wetlands are ecologically and economically important; they provide bioresources and play important role in the decontamination of polluted water [27,28] has analyzed the river vegetation in Kerala and has enumerated the different uses of plant species of aquatic, semi-aquatic and bank species. The ethno-medicinal uses of 48 wetland plants and their conservation in South Orissa was reported [29].

Wetland plants gathering and exploitation is a common activity of indigenous people in Coonoor, Nilgiris. A total of 130 plants, among which 42 plant species are used as medicine, 15 species as edible and 8 species for miscellaneous uses (fodder, fuel, manure, fiber, ornamental and sacred purpose) (Table 2). It is clear that wetland plants are important bio-resources for local communities, particularly for medicinal purposes.

Out of 130 species, 42 plant species are used as herbal remedy for treatment of more than 20 diseases viz, Ulcer, laxative, piles, dysentery, abdominal disorder, rheumatism, inflammations, antihelminthic, poisonous bites, blood pressure, neuro disorders, bronchitis etc., 12 are used as fruit edible; 3 species viz Oxalis latifolia Calder, Oxalis corniculata L and Solanum nigrum non L. are used as leafy vegetables, 2 species viz Polygonum chinensis L., Colocasia esculenta (L.) Schottand Spergula arvensis L., shoots used for food preparation. A total of 8 species are used for miscellaneous purpose viz. Ipomea purpurea Roth, Desmodium repandum (Vahl.) DC. Butea monos rperma (Lam.) Taub. etc. 5

viz. Ipomea purpurea Roth, Desmodium repandum (Vahl.) DC, Butea monos rperma (Lam.) Taub, etc., 5 species are used for ornamental purpose Bahunia purpurea L., Butea monosperma (Lam.) Taub, Verbena rigida, Cestrum elegans Schlecht, Duranta repens L., Jasminium brevilobium A. DC., Jasminium mesnyi

Hance and *Salvia leucantha* Cav,2 species *Ipomea purpurea* Roth and *Desmodium repandum* (Vahl) DC, are used as cattle feed. *Pouzolzia bennetiana* Wight leaves are used as shampoo (Fig 4 to 11).

Most of the urban wetlands are seriously threatened by conversion to non-wetland purposes, encroachment of drainage, through landfill, pollution (discharge of domestic and industrial effluents, disposal of solid wastes), hydrological alteration (water withdrawal and inflow changes) and over exploitation of their natural resources resulting in loss of biodiversity and disruption in goods and services provided by wetlands. The rate of wetland loss has accelerated in recent years. Thus the wetlands are now the most threatened ecosystem of our planet. Wetlands are being discussed all round the world in matters of environment protection, pollution control, eco-restoration; biodiversity conservation *etc*. Maltby ^[29] also stated that wetlands support very large number and rich in diversity of plant species.

CONCLUSION:

Though the wetland areas of India are rich repositories of various wealth, much work has not been undertaken to identify the potentiality of them. Most of the areas have been converted as agricultural fields and Industrial areas. They are in severe threat of extinction. The present work emphasize the usefulness of the aquatic plant wealth which in turn may form another criteria to conserve the delicate ecosystem considering the service they provide to the mankind. Hence there is an urge to assess, the wetland diversity and potentiality of the wetland species and community interest in the conservation of biodiversity before they will vanish forever.

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Table 1: List of wetland plants of Coonoor regions.

Binomial Name	Family	Habit	Habitat	Occurrence
Abutilon indicum (L.) Sweet	Malvaceae	Shrub	Hel.	Common
Acacia mearnsii De Wild.	Mimosaceae	Tree	Hel.	Common
Achyranthes bidentata Blume	Amaranthaceae	Herb	Нур.	Common
Acmella clava (DC.) Hook	Asteraceae	Herb	Нур.	Occasional
Adenostemma lavenia (L.)Kuntze	Asteraceae	Herb	Нур.	Common
Adiantum raddianum C.	Adiantaceae	Herb	Hel.	Common
Ageratina adenophora (Spreng.) R. King	Asteraceae	Herb	Нур.	Common
& H. Robinson		11010	1137	
Ageratum conyzoides L.	Asteraceae	Herb	Hel.	Common
Anaphalis leptophylla DC.	Asteraceae	Herb	Hel.	Rare
Anaphalis subdecurrens (DC.) Gamble	Asteraceae	Herb	Hel.	Rare
Annona squamosa L.	Annonacea	Tree	Hel	Common
Argyreia hirsute Wight &Arn.	Convolvulaceae	Climber	Hel.	Common
Arisaema leschenaultii Blume	Araceae	Herb	Hap.	Rare
Arisaema tortuosum (Wall) Schot.	Araceae	Herb	Нур.	Common
Artemisia nilagirica (Clarke) Pamp.	Asteraceae	Herb	Нур.	Common
Asclepias curassavica L.	Asclepidaceae	Herb	Hel.	Common
Bauhinia purpurea L.	Caesalpinaceae	Tree	Hel.	Common
Biophytum intermedium Wight.	Oxalidaceae	Herb	Teg.	Occasional
Brassica juncea (L.) Coss.	Brassicaceae	Herb	Hel.	Common
Butea monosperma (Lam.) Taub.	Fabaceae	Tree	Нур.	Common
Cajanus rugosus (W. &A.) Maesen	Fabaceae	Herb	Hel.	Common
Cajanus trinervius (DC). Maesen	Fabaceae	Herb	Hel.	Common
Calceolaria gracilis Kunth.	Scrophulariaceae	Herb	Hel.	Common
Capsella bursa-pastoris Moench.	Brassicaceae	Herb	Teg.	Common
Cardamine africana L.	Brassicaceae	Herb	Нур.	Common
Cardiospermum halicacabum L.	Sapindaceae	Climber	Нур.	Common
Centella asiatica (L.) Urban.	Apiaceae	Herb	Нур.	Common
Cerastium indicum Wight & Arn.	Caryophyllaceae	Herb	Hel.	Common
Cestrum aurantiacum Lind	Solanaceae	Shrub	Teg.	Common
Cestrum elegans Schlecht	Solanaceae	Shrub	Нур.	Common
Chassalia curviflora Wall. ex Kurz.	Rubiaceae	H erb	Teg.	Scattered
Cheirostylis flabellate (A. Rich) Wight	Orchidaceae	Herb	Hap.	Rare
Chloris barbata Sw.	Poaceae	Herb	Нур.	Common
Cirsium wallichii DC.	Asteraceae	Herb	Hel.	Common
Colocasia esculenta (L.) Schott	Araceae	Herb	Нур.	Common
Conyza bonariensis (L.)Cronq.	Asteraceae	Herb	Hel.	Common
Coronopus didymus (L.)Smith	Brassicaceae	Herb	Hel.	Common
Cotula australis (Sieb. exSpreng.) Hook.	Asteraceae	Herb	Hel.	Common
Crassocephalum crepidioides (Benth.) S.	Asteraceae	Herb	Hel.	Common
Moore				
Crotalaria scabrella Wight & Arn.	Fabaceae	Shrub	Teg.	Common
Crotalaria semperflorensVent.	Fabaceae	Shrub	Hap.	Scattered
Cyanotis arachnoidea Clarke.	Commelinaceae	Herb	Нур.	Common
Cynoglossum zeylanicum (Vahl. ex	Boraginaceae	Herb	Hel.	Common
Hornem.) Clarke.				
Cyperus brevifolius (Rottb.) Haask	Cyperaceae	Herb	Нур.	Common
Cyperus rotundus L.	Cyperaceae	Shrub	Нур.	Common
Dahlia imperialis Roezl.	Asteraceae	Shrub	Нур.	Common
Desmodium repandum (Vahl) DC.	Fabaceae	Herb	Нур.	Occasional
Dichrocephala integrifolia (L.f.) O. Ktze.	Asteraceae	Shrub	Нур.	Common
Dodonaea angustifolia L.	Sapindaceae	Herb	Hel.	Common

Droguetia iners (Forssk.) Schweinf.	Urticaceae	Herb	Hel.	Common
Drymaria cordata (L.) Willd ex Roem.	Caryophyllaceae	Shrub	Нур.	Common
&Schult				
Duranta repens L.	Verbenaceae	Tree	Hel.	Common
Elaeocarpus munronii (Wight) Mast.	Elaeocarpaceae	Tree	Нур.	Common
Elaeocarpus oblongus Gaertn.	Elaeocarpaceae	Herb	Hel.	Rare
Emilia ramulosa Gamble	Asteracea	Herb	Hel.	Common
Emilia sonchifolia (L.)	Asteracea	Herb	Нур.	Common
Erigeron karvinskianus DC.	Asteracea	Tree	Hap.	Common
Eucalyptus globules Labill.	Myrtaceae	Herb	Teg.	Common
Euphorbia	Euphorbiaceae	Herb	Нар.	Scattered
heterophylla L.				
Exacum wightianum Arn.	Gentianaceae	Tree	Нар.	Rare
Ficus laevis Blume	Moraceae	Climber	Нур.	Rare
Galinsoga parviflora Cav.	Asteraceae	Herb	Нур.	Common
Gnaphalium coarctatum Willd.	Asteraceae	Herb	Hel.	Common
Hedychiums picatum Var. Khasianum	Zingiberaceae	Shrub	Нур.	Common
Clarke ex Baker.				
Hydnocarpus alpine Wt.	Flacourtiaceae	Herb	Hel.	Common
Hydrocotyle conferta Wt.	Apiaceae	Herb	Нур.	Rare
<i>Hydrocotyle javanica</i> Thumb.	Apiaceae	Herb	Нур.	Common
Impatiens latifolia L.	Balsaminaceae	Herb	Нур.	Occasional
Impatiens minea Ratheesh.	Balsaminaceae	Climber	Hap.	Occasional
<i>Ipomoea purpurea</i> (L.) Roth.	Convolvulaceae	Shrub	Hel.	Common
Jasminum brevilobum A.DC.	Oleaceae	Shrub	Нар.	Rare
Jasminum mesnyi Hance,	Oleaceae	Herb	Hel.	Common
Justicia japonica Thunb.	Acanthaceae	Herb	Нур.	Common
Knoxia sumatrensis (Retz.)DC.	Rubiaceae	Herb	Нур.	Common
Kyllinga melanosperma Nees.	Cyperaceae	Herb	Нур.	Occasional
Lantana camera L.	Verbenaceae	Herb	Teg.	Common
Leucas aspera (Willd.) Spreng.	Lamiaceae	Herb	Нур.	Common
Leucas biflora (Vahl.) R. Br.	Lamiaceae	Herb	Hel.	Common
Mimosa pudica L.	Mimosaceae	Herb	Hel.	Scattered
Oenothera rosea L.	Onagraceae	Herb	Нар.	Common
Ophiopogon intermedius D.Don	Haemodoraceae	Herb	Hel.	Rare
Ophiorrhiza mungos L.	Rubiaceae	Herb	Нур.	Scattered
Oplismenus composites (L) P. Beauv	Poaceae	Herb	Hel.	Common
Opuntia striata Haw.	Cactaceae	Shrub	Hel.	Common
Osbeckia aspera Blume	Melastomataceae	Shrub	Teg.	Common
Oxalis corniculata L.	Oxalidaceae	Herb	Нур.	Common
Oxalis latifolia Calder	Oxalidaceae	Herb	Нар.	Common
Oxalis triangularis A.St. Hil	Oxalidaceae	Herb	Teg.	Rare
Peperomia tetraphylla (G.Forst) Hook. and	Piperaceae	Herb	Нар.	Common
Arn.				
Persicaria nepalensis Meisner	Polygonaceae	Herb	Нур.	Common
Physalis peruviana L.	Solanaceae	Herb	Нур.	Common
Phytolacca octandra L.	Phytolacaceae	Herb	Teg.	Common
Pilea melastomoides (Pior.) Blume	Urticaceae	Herb	Hel.	Common
Piper mullesua BuchHam ex D.Don	Piperaceae	Climber	Нур.	Rare
Plantago asiatica L.	Plantaginaceae	Herb	Нур.	Common
Pogostemon benghalensis (Burm.f.)	Lamiaceae	Herb	Нур.	Rare
O.Ktze.				
Polygonum chinensis L.	Polygonaceae	Shrub	Нур.	Common
Polygonum glabrum Willd	Polygonaceae	Herb	Нар.	Occasional

Polygonum hydropiper L.	Polygonaceae	Herb	Нур.	Occasional
Portulaca oleracea L. var. oleracea	Portulacaceae	Herb	Нар.	Common
Pouzolzia bennettiana Wight	Urticaceae	Herb	Нур.	Common
Pouzolzia wightii Bennett	Urticaceae	Herb	Нур.	Common
Rhodomyrtus tomentosa (Ait.) Hassk.	Myrtaceae	Shrub	Teg.	Common
Rosa leschenaultiana Red. & Thory ex Wight & Arn.	Rosaceae	Climber	Нур.	Rare
Rubia cordifolia L.	Rubiaceae	Herb	Нур.	Rare
Rubus ellipticus Smith.	Rosaceae	Climber	Нур.	Common
Rubus niveus Thumb.	Rosaceae	Climber	Нур.	Common
Rumex nepalense Spreng.	Polygonaceae	Herb	Нур.	Common
Salvia leucantha Cav.	Lamiaceae	Herb	Нур.	Common
Bidens pilosa L.	Asteraceae	Herb	Hel.	Common
Schoenoplectus articulatus (L.) Palla	Cyperaceae	Herb	Нур.	Occasional
Siegesbeckia orientalis L.	Asteraceae	Herb	Нур.	Common
Sida rhomboidea Roxb ex Fleming	Malvaceae	Herb	Hel.	Common
Smilax aspera L.	Liliaceae	Herb	Hel.	Common
Solanum erianthum D.Don	Solanaceae	Shrub	Нар.	Common
Solanum mauritianum Scop.	Solanaceae	Shrub	Нур.	Common
Solanum nigrum L.	Solanaceae	Herb	Нур.	Common
Solanum sisymbrifolium Roxb.	Solanaceae	Shrub	Hel.	Common
Solanum virginianum L.	Solanaceae	Shrub	Teg.	Common
Spergula arvensis L.	Caryophyllaceae	Herb	Нур.	Occasional
Syzygium cumini (L.) Skeels	Myrtaceae	Tree	Teg.	Common
Thumbergia alata Boj. ex Sims	Acanthaceae	Climber	Hel.	Common
Thunbergia tomentosa, Wall ex Nees	Acanthaceae	Climber	Hel.	Rare
Tithonia diversifolia (Hemsl.) A. Gray	Asteraceae	Shrub	Hel.	Common
Trifolium repens L.	Fabaceae	Herb	Нур.	Common
Urena lobata L.	Malvaceae	Shrub	Hel.	Scattered
Verbascum thapsus L.	Scrophulariaceae	Herb	Hel.	Scattered
Verbena rigida Sprengel	Verbenaceae	Herb	Hel.	Common
Veronica polita L.	Scrophulariaceae	Herb	Нур.	Common
Viola serpens Wall. exGing	Violaceae	Herb	Нур.	Rare

Table 2. Ethnobotanical uses of wetland plants.

Binomial Name	Family	Uses	Useful part (s)	Methods of uses
Abutilon indicum (L.)	Malvaceae	Medicinal	Leaves, Bark	Intake of leaf decoction cures ulcer.
Sweet (Thutti)			and	Bark astringents and diuretics. Seed
			Seed	used as laxative
Achyranthes bidentata	Amaranth-aceae	Medicinal	Whole plant	Whole plant is used leaf decoction
Blume				reduce fever. Decoction of whole
(Segapunaiuruvi)				plant is used as laxative; it cures
				piles, dysentery, and abdomen itching
				and abdomen pain.
Acmella clava (DC.)	Asteraceae	Medicinal	Flower	Chewing flower cures tooth ache.
R.K. Jansen				
(Pal vali poo)				
Ageratum conyzoides	Asteraceae	Medicinal	Leaves	Leaf tonic is used to treat
L.				rheumatism.
Annona squamosa L.	Annonaceae	Edible and	Fruits and	Fruit used as raw edible. Seed powder
(Seetha)		medicinal	Seed	is applied on hair to remove lies.
Arisaema	Araceae	Medicinal	Whole plant	Whole plant is used as antiseptic in
leschenaultia Blume				buffaloes; Decoction used to treat
(Pambuchedi)				urinary disease, piles and
				hemorrhoids, round worm.

Arisaema tortuosum (Wall) Schott. (Kai viri)	Araceae	Medicinal	Rhizome	Used as vermifuge in cattle's applied on wounds to kill parasites. Dried powdered tubers applied to snake bite.
Artemisia nilagirica (C.B.Clarke) Pamp	Asteraceae	Medicinal	Leaves	Used as hair tonic, Leaf juice is given orally to cure asthmatic eruption.
Asclepias curassavica L. (Pal chedi)	Asclepid-aceae	Medicinal	Latex	The latex is applied on inflammations caused by insect bite.
Bauhinia purpurea L. (Poo maram)	Caesalpin-aceae	Medicinal	Bark, Flower and Roots	Bark, roots and flowers mixed decoctions are used to treat ulcer, wounds, swollen glands and stomach tumors.
Biden sepilosa L. (ThathaThalavetti)	Asteraceae	Medicinal	Leaves	Crushed leaves are applied on wounds.
Biophytum intermedium Wight. (Marunthuchedi)	Oxalid-aceae	Medicinal	Stem	Stem extract are taken it cures Stomach disorders, inflammations, wounds, tumors, burns and urinary calculi.
Brassica juncea (L.) Cosson (Kadugu)	Brassic-aceae	Medicinal	Leaves	Leaves decoction is consumed for 21 days to cure liver problems Hepatoprotective activity.
Butea monosperma (Lam.) Taub. (Nerupu poo maram)	Fabaceae	Medicinal	Flowers	Flowers are used as drug in eye disease and chronic fever.
Cardamine africana L. (Kattukadugu)	Brassic-aceae	Medicinal	Leaves Flowers	Leaves and flower extracts are used to cure Psoriasis.
Cardiospermum halicacabum L. (Mudakayhan)	Sapind-aceae	Medicinal	Whole plant	The plant is dried powered and used in pepper water regularly to reduce joint pains and strengthen the bones.
Centella asiatica (L.) Urban (Vallaria)	Apiaceae	Misce- llaneous	Leaf	Leaves used as neuro stimulant, leaf is boiled in water, consumed to promote bowel movement.
Cestrum elegans Schlecht. (Velli poo)	Solanaceae	Ornamental	Whole plant	Used as ornamental purpose
Colocasia esculenta (L.) Schott. (Chemai)	Araceae	Edible	Leaves	Cooked leaves are and consumed as greens.
Cynoglossum zeylanicum (Vahl) Thunb ex Lehm	Boragin-aceae	Medicinal	Leaves	Leaf paste applied on inflammation for 3 days.
Desmodium repandum (Vahl) DC. (Pal vidai)	Fabaceae	Misce- llaneous	Whole plant	Whole plant is used as feed for cattle
Dodonea angustifolia L. (Vellari)	Sapindaceae	Medicinal	Leaves Bark	Fresh leaves used as bone fractures.
Drymaria cordata (L) Willd. (Thara poo)	Caryophyll- aceae	Medicinal	Whole plant	Whole plant juice is given as laxative, appetizer and stimulant.
Duranta repens L. (Ela veli)	Verben-aceae	Misce- llaneous	Whole plant	Used as hedge plant.
Elaeocarpus munroii Mast. (Narebikki)	Elaeocarp-aceae	Edible	Fruit	Fruit used as edible and sour taste avoids giddiness.
Elaeocarpus oblongus Gaertn	Elaeocarp-aceae	Edible	Fruit Seed	Nut used as eaten.
Emilia ramulosa Gamble (Tha poo)	Asteracea	Medicinal	Root	Root decoction cure worm infection.
Emilia sonchifolia (L.) DC ex Wight	Asteracea	Medicinal	Whole plant	Decoction of the whole plants used remedy to eye, ear complaints, and Treat

Erigeron canadensis Asteracea Medicinal Leaves Stem and Leaves powdered and used BC (Kalpiduri) Eucolypius globules Labill. (Thailamaram) Myriaceae Medicinal Leaves Leaves are boiled in water and taken buth, it reduce body ache, and the vapor are inhaled to get rid of cold. Euphorbia Euphorbia-aceae Medicinal Leaf Dried leaf powder is taken as a purgative and laxative to treat stomach-ache and constipation. Graphalium Care (Kattuenju) Asteracea Medicinal Leaves Medicinal Leaves Leaves are boiled in water and taken leaves of treat stomach-ache and constipation. Graphalium Care (Kattuenju) Asteracea Medicinal Leaves Leaf sah is applied on fore head to cure head ache and removes water in head. Leaves Leaves devoction acts as blood purifier, indigestion, cures dysentery. Mole plant Stem Leaves Leaves devoction acts as blood purifier, indigestion, cures dysentery. Mole plant Stem Leaves Leaves devoction acts as blood purifier, indigestion, cures dysentery. Mole plant Stem Leaves Leaves devoction acts as blood purifier, indigestion, cures dysentery. Mole plant Stem Leaves Leaves devoction acts as blood purifier, indigestion, cures dysentery. Mole plant Stem Leaves Leaves devoction acts as blood purifier, indigestion, cures dysentery. Mole plant Stem Leaves Leaves devoction acts as blood purifier, indigestion, cures dysentery. Mole plant Stem Leaves Leaves according to the device Medicinal Stem Used as ornamental purpose A.DC. (Katturmulla) Oleaceae Misce- Medicinal Stem Used as massaged to cure body bain. Leaves Leaves act bolled in water and taken Mole plant Stem Leaves Leaves act bolled in water and taken Mole plant Stem Leaves Leaves used as debte. Truits and the plant is boiled in water which is used for cleaning eatile. Leaves Leaves used as catible. Truits addible, Leatex is applied on head to cure head ache. Cartaceae Medicinal Leaves	(Kala chedi)				bronchitis.
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(G.Forst) Hook (Mara ottu) Persicaria chinensis (L.)Nakal (Kaka karumbu) Persicaria nepalensis (Meisner) Gross (Neervadicu) Physalis peruviana L. (Tholthakali) Pilea melastomoides (Poir) Wedd Plantago asiatica L. (Neerurungi) Pogostemon benghalensis (Burm.f.) (Kttuthulasi) Polygona-ceae Medicinal Stem Leaves Stem juice cures stomach ache, Flower juice is used to treat eye disease Leaves Flower juice is used to treat eye disease Flower juice is used to treat eye disease Leaves Flower juice is used to treat eye disease Flower juice is used to treat eye disease Leaves Fruit Fruits used as raw edible Fruit Fruits used as raw edible Fruit Fruits used as raw edible Fruit Fruits used as raw edible The Leaves are used as curry preparation. The Leaves are taken tied on swollen wounds overnight it removes the water in the inflammation. The oil is extracted used for joint pains.	(Puliyankeerai)				
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(Tholthakali) Pilea melastomoides (Poir) Wedd Plantago asiatica L. (Neerurungi) Pogostemon benghalensis (Burm.f.) (Kttuthulasi) Pilea melastomoides Urticaceae Edible Leaves Hedicinal Leaves The Leaves are taken tied on swollen wounds overnight it removes the water in the inflammation. The oil is extracted used for joint pains.		Solanaceae	Edible	Fruit	Fruits used as raw edible
(Poir) Wedd Plantago asiatica L. (Neerurungi) Pogostemon benghalensis (Burm.f.) (Kttuthulasi) Plantagi-naceae Medicinal Leaves Medicinal Leaves Medicinal Leaves The Leaves are taken tied on swollen wounds overnight it removes the water in the inflammation. The oil is extracted used for joint pains.	(Tholthakali)				
Plantago asiatica L. (Neerurungi)Plantagi-naceaeMedicinalLeavesThe Leaves are taken tied on swollen wounds overnight it removes the water in the inflammation.Pogostemon benghalensis (Burm.f.) (Kttuthulasi)LamiaceaeMedicinalLeavesThe oil is extracted used for joint pains.		Urticaceae	Edible	Leaves	-
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Water in the inflammation.Pogostemon benghalensis (Burm.f.) (Kttuthulasi)Lamiaceae Medicinal MedicinalLeaves LeavesThe oil is extracted used for joint pains.		Plantagi-naceae	Medicinal	Leaves	
Pogostemon benghalensis (Burm.f.) (Kttuthulasi)LamiaceaeMedicinal medicinalLeavesThe oil is extracted used for joint pains.	(Neerurungi)				
benghalensis (Burm.f.) (Kttuthulasi) pains.					water in the inflammation.
(Kttuthulasi)		Lamiaceae	Medicinal	Leaves	The oil is extracted used for joint
	benghalensis (Burm.f.)				pains.
Pouzolzia bennettiana Urticaceae Misce- Leaves Leaves used as shampoo.	(Kttuthulasi)				
	Pouzolzia bennettiana	Urticaceae	Misce-	Leaves	Leaves used as shampoo.

Wight		llaneous		
Rhodomyrtus	Myrtaceae	Edible	Fruit	Fruits used as edible
tomentosa Wt.				
Rubia cordifolia L.	Rubiaceae	Medicinal	Leaves	Leaves are made into paste and
(Nanjuvirati)				applied on wounds for scorpion bite.
Rubus ellipticus Smith	Rosaceae	Edible	Fruit	Fruits are edible rich in vitamins
(Mullupalam)				given to pregnant women.
Rubus niveus Thumb	Rosaceae	Edible	Fruits	Fruits and Tender shoots are used as
(Vellimulluchedi)			Shoot	edible.
Rumex nepalense	Polygon-aceae	Medicinal	Root	Root is used as purgative, tender
Spreng				leaves are cooked and consumed.
Salvia leucantha Cav.	Lamiaceae	Orna-mental	Whole plant	Used as ornamental purpose
Solanum mauritianum	Solanaceae	Edible	Fruits	Fruits are eaten by birds when
Scop. (Kattupoyala)				properly ripened.
Solanum nigrum L.	Solanaceae	Medicinal	Whole plant	Whole plant is consumed-Leaves
(Manathakali)				cure stomach and mouth ulcers,
				reduce fever.
Solanum	Solanaceae	Edible	Fruit	Fruits used as edible
sisymbriifolium Lam				
(Mulluthakali)			_	
Solanum virginianum	Solanaceae	Edible	Fruit	Fruit edible used in cooking curries.
L. (Sunda)			~1	
Spergula arvensis L.	Caryop-	Edible	Shoot	Plant is edible cooked and consumed.
(Dadikeerai)	hyllaceae	= 411.4		
Syzygium cumini (L.)	Myrtaceae	Edible and	Fruits	Fruits edible, Seed dried powered
Skeels (Naval)		Medicinal	Seeds	taken regularly to control diabetics.
Thumbergia alata	Acanthaceae	Medicinal	Leaf	Leaves paste is used to treat Skin
Bojer (Katu poo kodi)		36 11 1 1	T 0	disorder.
Thunbergia tomentosa	Acanthaceae	Medicinal	Leaf	Leaf paste used to cure boils.
Wall. (Vellikodi)	16.1	3.6.1: 1	G :	Til 10 1
Urena lobata L.	Malvaceae	Medicinal	Stem	Fibers are obtained from the stem.
(Kayuruchedi)	17 1		El	TT 1
Verbena rigida Spreng	Verbena-ceae	Orna-mental	Flowers	Used as ornamental.
Veronica polita L.	Scrophu-	Medicinal	Leaf	Leaf is grinded and the paste is
	lariaceae			applied on leech bite to avoid itching.

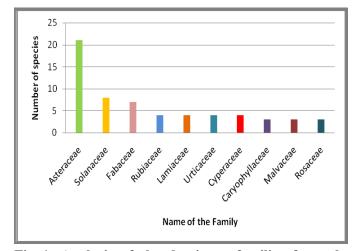


Fig 1. Analysis of the dominant families from the present study.

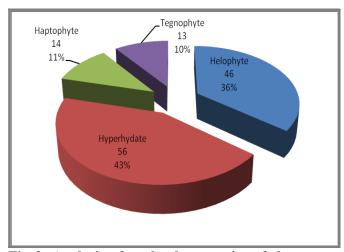


Fig 2. Analysis of wetland categories of the present study area.

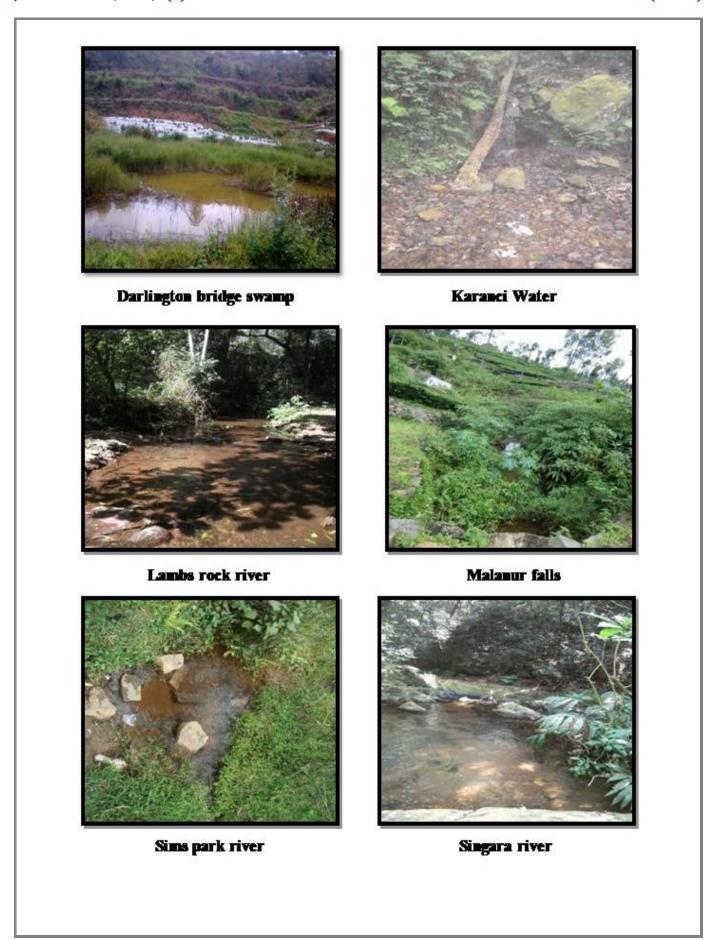


Fig 3. Vegetation types of Study area (Plate 1).

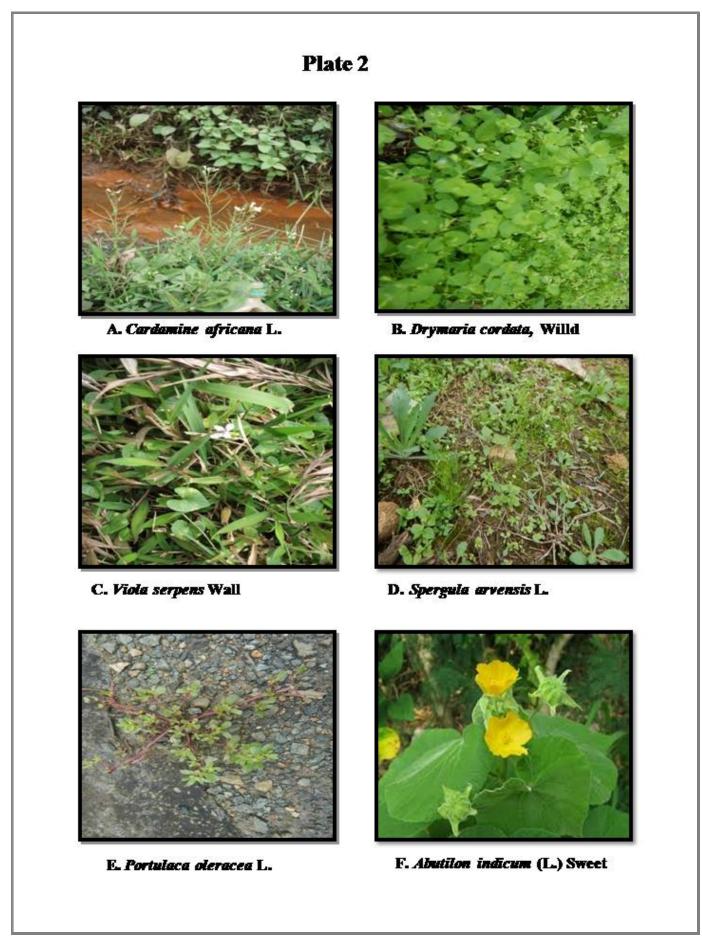


Fig 4. Vegetation types of Study area (Plate 2).

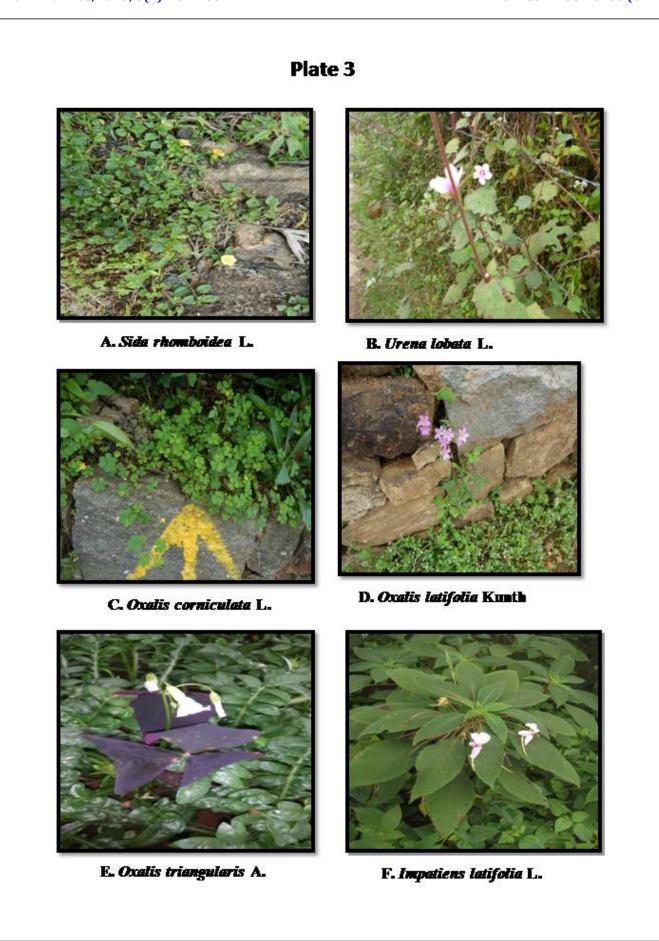


Fig 5. Vegetation types of Study area (Plate 3).

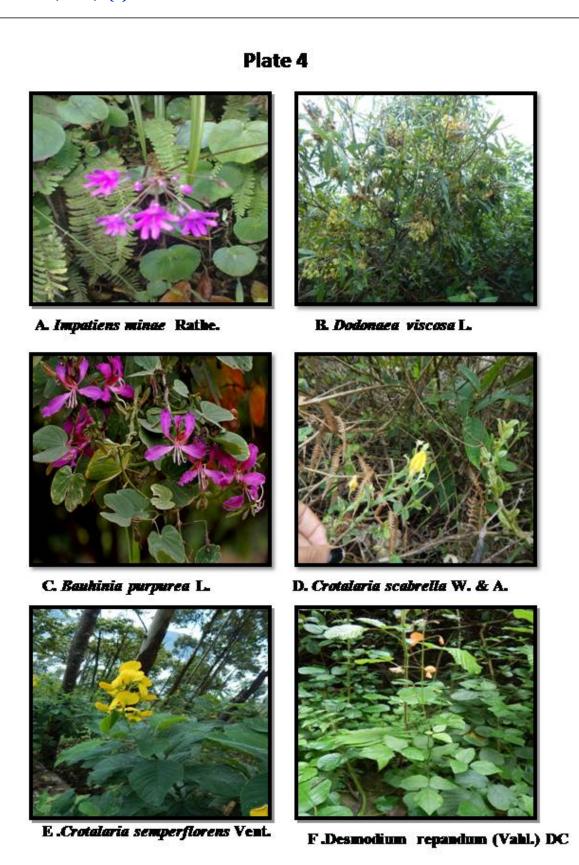


Fig 6. Vegetation types of Study area (Plate 4).

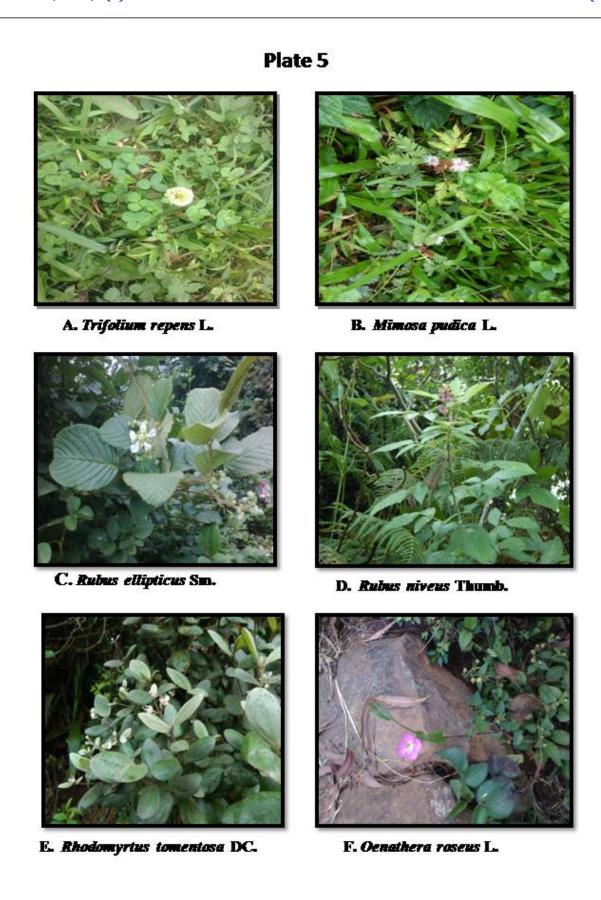


Fig 7. Vegetation types of Study area (Plate 5).



Fig 8. Vegetation types of Study area (Plate 6).

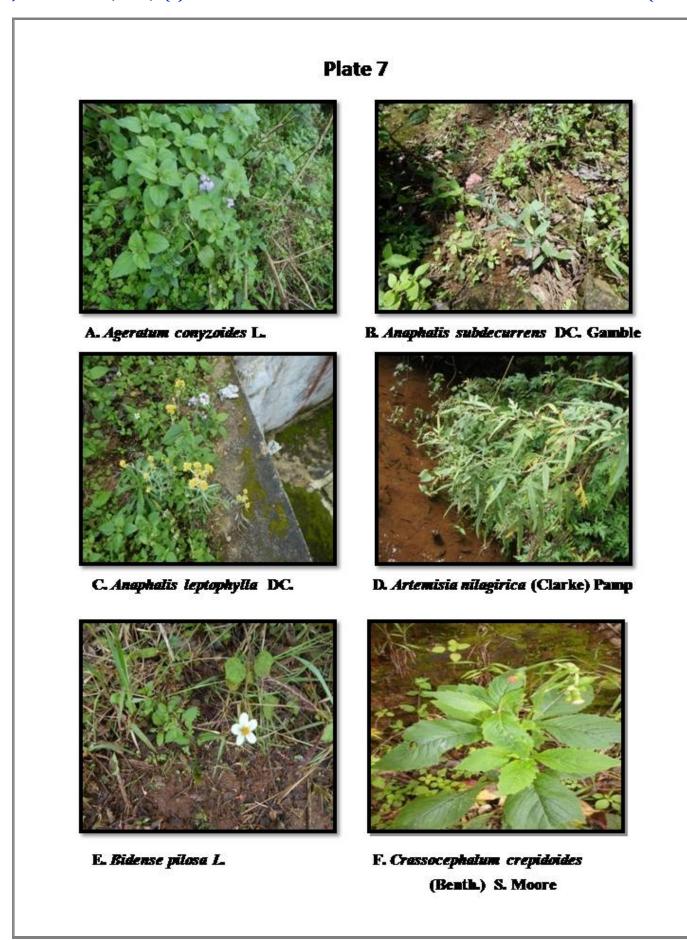


Fig 9. Vegetation types of Study area (Plate 7).

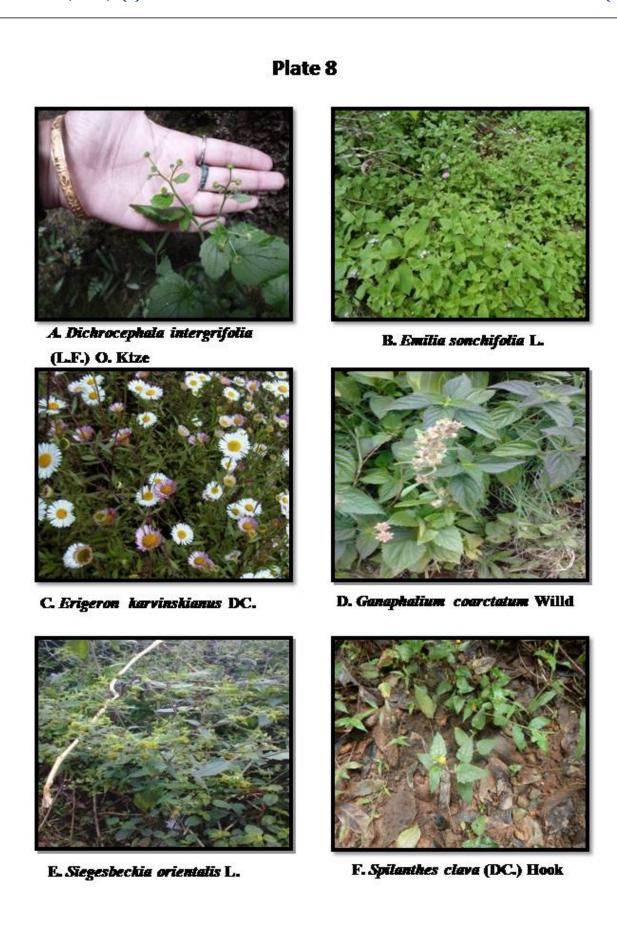


Fig 10. Vegetation types of Study area (Plate 8).

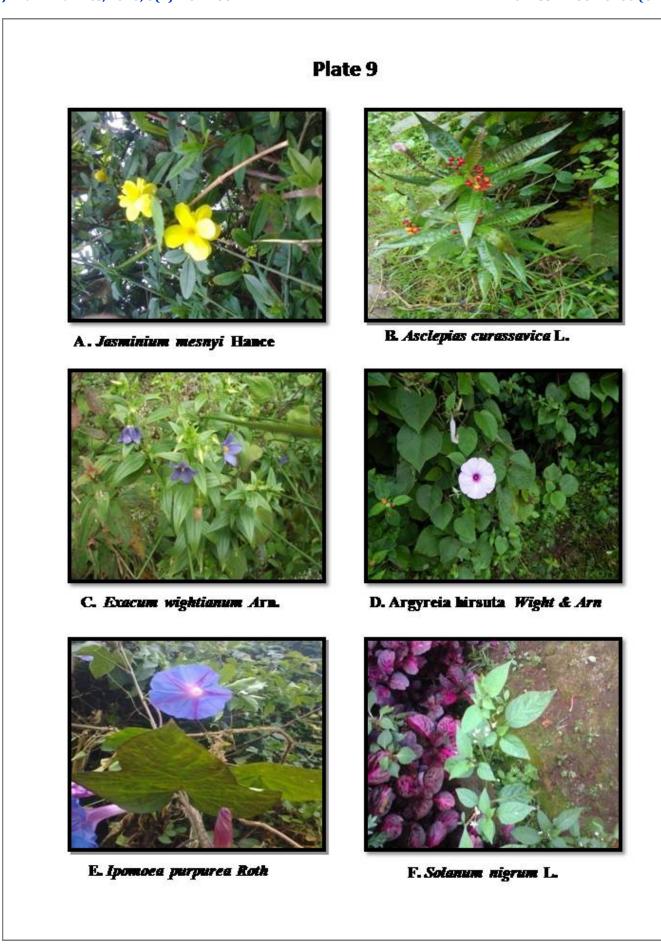


Fig 11. Vegetation types of Study area (Plate 9).

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