# **Review Article**



# Survey of Medicinal Plants in Vellalar College for Women Campus, Erode, Tamil Nadu, India.

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## **ABSTRACT**

A survey of medicinal plant diversity was carried out in Vellalar College for Women, Thindal, Erode District, Tamil Nadu, India . This survey was conducted based on the participatory observations and field visit to all places of our college campus. During survey visit a total of 89 medicinal plants species with 70 genus were identified. The main purpose of this survey is to collect data about medicinal plants available in our college campus in-order to preserve its valuable bioresources. All these plants having enormous medicinal properties including antibacterial, anticancer, antidiabetic, antiviral, antifungal, antidote, anthelminthic, anti-analgesic and they can cure cough, cold, ulcers, diarrhea, skin disorders, snake-bite etc. Due to these enormous medicinal properties of surveyed plants, some precious plants which are sensitive to these hazards are getting a place in the list of 'an endangered plants'. After few decades some valuable plants may be disappeared in our college campus because of those risks, so we hope that this survey will be helpful to the upcoming batches of Vellalar students, through this they can get some ideas and information about medicinal plants of Vellalar College campus.

Keywords: Diversity, Bioresources, Endangered, Anthelminthic.

## **INTRODUCTION**

n traditional medicine, plant is required as a major component to cure many diseases caused by bacteria, fungi and virus in human. They are being used by nearly about 80 % of the world population, especially in developed and developing countries for primary health care. Herbs are mainly used for disease prevention and treatment <sup>1</sup>. Young generations showing interest in traditional medicines but among the young population, the knowledge of using traditional plant is very low. The complete knowledge and usage about medicinal plants are well known by older people, but due to the death of an older people, procedures of herbals usage is under high risk. Many trees and medicinal plants were destroyed by very severe cyclonic storm called 'Vardah' on December 2016 <sup>2</sup>.

Biodiversity is a part of our daily lives and livelihoods and constitutes the resources upon which families, communities, nations and future generations depend. Human society from the very beginning of its appearance on this earth has been indispensably associated with the plant kingdom for its survival <sup>3</sup>. Plants provide our basic food crops, building materials and medicines as well as oils, lubricants, rubber and other latexes, revins, waxes, perfumes, dyes and fibres. So far only about ten per cent of plants have ever been evaluated for their medicinal or agricultural potential and so there are certainly many new drugs and new crops yet to be discovered <sup>4</sup>.

The World Health Organization (WHO) has estimated that 80 % of the populations of developing countries still rely on traditional medicines, mostly plant drugs, for their primary health care needs. Demand for medicinal plant is

increasingly felt, in both developing and developed countries due to growing needs of natural products being non-toxic and bereft of side-effects, apart from availability at affordable prices. The medicinal plant sector has traditionally occupied a pivotal position in the socio cultural, spiritual and medicinal area of rural and tribal families <sup>5</sup>. During the study, an extensive field survey of the medicinal plants was done and the species used as folklore medicines were enumerated <sup>6</sup>.

The present paper is an attempt to know the distribution of plant diversity on campus of Vellalar College for Women, Thindal, Erode District, covering approximately two acres of open area in addition to lawns, garden, teaching and administrative blocks. The present research has been carried out in Vellalar College for Women, Thindal, Erode District to explore the diversity of plants and for sustainable utilization of available plant resources. The Campus houses a good number of plants and the perusal of literature reveals that there is no published record on the flora of this campus which represents an interesting floristic composition. The findings of the study may be helpful for further research in Botany or allied disciplines.

## **MATERIALS AND METHODS**

# Study area

The study area of a botanical survey of medicinal plants was conducted in the Vellalar College campus and the information gathered was noted in a field note book (Map. 1). All buildings and blocks are surrounded by different types of vines, trees and ornamental plants. Field study was carried out over a period of two months from December-2017 to January - 2018. In the scope of



this study, medicinal plant species and other relevant information were collected.

## Plant collection

The plant specimens were collected in polythene bags to prevent desiccation. The field data regarding their habit, habitat, phenology and flower colour etc. were noted down in field note book.

#### Plant identification

The collected plant specimens were dried and herbarium sheets were prepared and deposited in the Department of Botany, Vellalar College for Women, Erode, Tamil Nadu, India. The binomials of the specimens were identified with the help of the existing Floras The Flora of Presidency of Madras <sup>7</sup> and The Flora of Tamil Nadu Carnatic <sup>8</sup>. The identity is authenticated by matched with type specimens available in the herbarium of Botanical Survey of India, Southern Circle, TNAU Campus, Coimbatore, Tamil Nadu.

# MAP – 1: Study Area – Aerial View of Vellalar College Campus





**Figure 1:** This Picture Shows the Main Entrance of Vellalar College



**Figure 2:** A Panoramic View of Trees and Shrubs Encircles in Vellalar College

## **RESULTS AND DISCUSSION**

Plants have been a major source of medicine for human kind. The demand for traditional herbs is increasing very rapidly, mainly because of the harmful effects of synthetic chemical drugs. The global clamour for more herbal ingredients creates possibilities for the local cultivation of medicinal crops as well as for the regulated and sustainable harvest of wild plants. Such endeavours could help to raise rural employment in the development countries, boost commerce around the world and perhaps contribute to the health of millions [12]. The firsthand information on the medicinal plant diversity present in the Vellalar College campus were arranged alphabetically by genus and species name (Table 1; Plate 1). In the present study there are 89 medicinally important plant species belonging to 45 families were identified from the study area and their botanical name, family name, local name, parts used and their therapeutic uses were studied and given in Table 1. Among the surveyed list Euphorbiaceae floral biodiversity was represented by the highest number of species (8 species), followed by Fabaceae (7 species), Acanthaceae (6 species), Amarantaceae (5 species), Apocynaceae, Malvaceae and Nyctaginaceae (4 species each), Boraginaceae, Verbenaceae, Moraceae and Asteraceae (3 species each), 9 families were represented by 2 species and remaining 21 families were represented by a single species. The diverse parts of the medicinal plants were used based on their ability to cure diseases. The parts include leaves, root, stem, bark, flower, fruit, seed, etc., as shown in Fig. 3.

The surveyed medicinal plants are used to remediate variety of diseases and ailments like diarrhea, diabetes, asthma, fever, jaundice, rheumatism, wounds, cuts, stomach pain, cough, cold, body pain, bronchitis, dysentery, leprosy, piles, ulcer, tooth-ache, urinary troubles, vomit, skin diseases, nausea etc., Similar ethnobotanical studies have been reported in several parts of India to document the traditional knowledge that has been vanishing <sup>2</sup>. The plants or parts are being used for the treatment of diseases, from the ancient times <sup>9</sup>. The collection, identification and documentation of ethnomedicinal data on biological resources were inevitable steps for bioprospecting 10. The native inhabitants were well-versed with the utilization of plants of their surrounding by their long trial and error method of using the herbal plants 11.

**Table 1:** List of medicinal plants in Vellalar College campus, Erode, Tamil Nadu.

S.No.	Scientific name of the plant	Family	Local name	Habit	Parts used	Therapeutic uses
1.	Abutilon indicum G. Don.	Malvaceae	Thuthi	Shrub	Leaves, root, fruits, seeds and bark.	Demulcent, aphrodisiac, laxative, diuretic, sedative, astringent, expectorant, tonic, anti-inflammatory, anthelmintic, leprosy, ulcers, headaches, piles and bladder infection.
2.	Acalypha fruticosa Forsk.	Euphorbiaceae	Athaa thazhai	Under Shrub	Whole plant	Dyspepsia, stomachache, skin diseases, wounds, liver disorders and poisonous bites.
3.	Acalypha indica L.	Euphorbiaceae	Kuppaimeni	Herb	Leaves, root, stalks and flowers	Skin problems like pimples, psoriasis and eczema, cough and cold, piles, intestinal worms, gum problems, stomach aches, rheumatism, bronchitis, asthma, scabies and skin diseases.
4.	Adatoda vasica Ness.	Acanthaceae	Adathodai	Shrub	Roots, leaves and flowers	Leprosy, blood disorders, heart troubles, fever, vomiting, loss of memory, leucoderma, jaundice, tumors, mouth troubles, soreeye and gonorrhea.
5.	Aerva lanata Juss.	Amarantaceae	Poolaipoo	Herb	Root	Anemia, alzheimer, arthritis, cholesterol, lung problems, bone problems, blood circulation, cough, asthma and headache.
6.	Aerva tomentosa Forsk.	Amarantaceae	Perumpoolai	Herb	Root or whole plant	Fever, rheumatism, gastric troubles, cough, sore throat, headaches and wounds.
7.	Allamanda cathartica L.	Apocynaceae	Allamanda	Shrub	Leaves, roots, flowers and bark	Liver tumors, jaundice, headaches, coughs and malaria.
8.	Alysicarpus rugosus Dc.	Fabaceae	Namappoondu	Herb	Whole plant	Naso-pharyngeal affections, pulmonary troubles, febrifuges, dropsy, swellings, oedema, tannins and astringents.
9.	Amarantus viridis L.	Amarantaceae	Kuppaikeerai	Herb	Whole plant	Diuretic, purgative, poultices, dysentery, inflammations, boils and gonorrhea, orchitis and haemorrhoids.
10.	Andrographis echioides Nees.	Acanthaceae	Peetumbam/Gop uram tangi	Herb	Leaves and stems	Goiter, liver diseases, fertility problems, bacterial, malarial and fungal disorders.
11.	Andrographis paniculata Nees.	Acanthaceae	Nilavembu	Herb	Whole plant	Cancer, diabetes, high blood pressure, ulcer, leprosy, bronchitis, skin diseases, flatulence, colic, influenza, dysentery, dyspepsia and malaria.
12.	Aralia digitata Roxb.	Araliaceae	-	Tree	Root and fruit	Alterative, diaphoretic, diuretic, pectoral, stimulant, pulmonary diseases, asthma, rheumatism and eczema.
13.	Azadirachta indica A. Juss.	Meliaceae	Vembu	Tree	Leaves, stem and bark	Skin diseases, healthy hair, improve liver function, detoxify the blood, pest and disease control, fever reduction, dental treatments, cough, asthma, ulcers, piles, intestinal worms, urinary diseases etc.
14.	Bauhinia purpurea L.	Caesalpiniaceae	Nilattiruvatti	Tree	Flowers, bark, root,	Diarrhoea, griping pain, flatulence, expelling gases, respiratory



					leaves, and stems	ailments like asthma, cold and cough.
15.	Boerhaavia diffusa L.	Nyctaginaceae	Mukkarattai	Herb	Whole plant	Anti- inflammatory, anti-diabetic, anti-oxidative, diuretic, anti-arthritic, spasmolytic, antibacterial, analgesic, immunity booster, anti-ageing, pain relief, anemia, asthma, leukorrhea, rheumatism, encephalitis, urinary disorders and liver diseases.
16.	Boerhaavia verticillata Poir.	Nyctaginaceae	Sharunnai	Herb	Whole plant	Oedema, inflammation, cough, anaemia, splenic disease, pain, snake poison, chest pain, wound, abscess, rat poisoning and fever due to pitta dosa.
17.	Bougainvillaea spectabilis Willd.	Nyctaginaceae	Kagitha poo	Climber	Leaves, stems and flowers	Inflammation, diabetes, cough, diarrhoea, hepatitis, leucorrhoea, low blood pressure, sore throat, acid reflux and ulcers.
18.	Calotropis procera R. Br.	Apocynaceae	Errukku	Shrub	Roots, stem bark, latex, leaves and flowers	Diarrhoea, sinus fistula, jaundice, eczema, leprosy, elephantiasis, cough, asthma, rheumatism, fever, indigestion and cold.
19.	Cassia occidentalis L.	Caesalpiniaceae	Paeyaavarai	Shrub	Whole plant	Diuretic, liver detoxifier, hepato-tonic, purgative, laxative, anti- inflammatory, analgesic, vermifuge, febrifuge, whooping cough and convulsion.
20.	Chloris barbata Sw.	Poaceae	Mayil kondai pul/ Chevvarakupul/ Kuruthu pillu	Herb	Leaves	Rheumatism, skin disorders, fever, diarrhoea and diabetes.
21.	Citrus medica L.	Rutaceae	Kadara-Narathai	Tree	Fruits, seeds and leaves	Abdominal diseases, cold, cough, diabetes, dysentery, indigestion, liver diseases, nausea, pain, swelling, vomiting, edema, constipation, cramps, inflammation, stress, wheezing, asthma, arthritis, stomach-ache, anthelmintic, tonic and abdominal colic.
22.	Cleome viscosa L.	Capparidaceae	Naikkaduku	Herb	Leaves, seeds and roots	Rheumatism, fever, headache, rubefacient and vesicant.
23.	Coccinia indica W. & A.	Cucurbitaceae	Kovai	Climber	Roots, fruit and leaves	Cough, respiratory illness, fever, burning sensation, swelling, anaemia, ring worms, scabies, sinuses, respiratory ailments, psoriasis, itch and diabetes.
24.	Commelina benghalensis L.	Commelinaceae	Adutinnathalai	Herb	Leaves and whole plant	Antiseptic, epilepsy, eyelid infection and skin rash.
25.	Corchorus acutangulus Lam.	Tiliaceae	Peratti	Herb	Whole plant	Gonorrhoea, headache, stomach – ache, tonic, carminative, febrifuge and pneumonia.
26.	Corchorus olitorius L.	Tiliaceae	Sanal / Peratti / Perumpinnakku kirai	Shrub	Leaves and seed	Demulcent, diuretic, febrifuge, tonic, chronic cystitis, gonorrhoea, dysuria, purgative, pain, piles and tumors.
27.	Cordia sebestena L.	Boraginaceae	Aechinaruvihli	Tree	Leaves, bark, seed and	Cough, bronchial ailments, respiratory disorders, stomach pain,



					fruit	wound, inflammation, dysentery and diarrhoea.
28.	Cycas circinalis L.	Cycadaceae	Madana-kaman	Shrub	Bark and seeds	Flatulence, high blood pressure, headaches, congestion, rheumatism and bone pain and vomiting.
29.	Datura metal L.	Solanaceae	Umathai poo	Herb	Leaves and fruits	Antiasthmatic, antispasmodic, stomach and intestinal pain, hallucinations, hypnotic, skin diseases, fever, worm infestation, tooth ache and narcotic.
30.	Delonix elata Gamb.	Fabaceae	Vathanarayanan	Tree	Leaves	Joint swellings, body pains and gas problems.
31.	Delonix regia Raf.	Fabaceae	Mayil kondrai	Tree	Leaves, flowers, stem and bark	Constipation, diabetes, ear ache, inflammations, arthritis and hemiphlagia
32.	Digera arvensis Forsk.	Amarantaceae	Toya keerai	Herb	Whole plant	Constipation, urinary disorders, astringent, diuretic and diabetic.
33.	Duranta plumieri Jacq.	Verbenaceae	Saamandi	Shrub	Leaves, flowers and fruits	Skin diseases, fever, vomiting, cough, malaria, menstrual disorders, asthma, headache, rheumatism, worm, piles, diuretic, eczema, bronchitis, stomachic, boils, burning sensation, jaundice, leprosy, anaemia and ulcer.
34.	Euphorbia geniculata Ovt.	Euphorbiaceae	Palperukki	Herb	Roots, bark, leaves and stem	Purgative, laxative, stomach ache, constipation, intestinal worms, skin problems, skin tumours and body pain.
35.	Euphorbia hirta L.	Euphorbiaceae	Ammanpacharisi	Herb	Whole plant	Cancer, diarrhoea, dysentery, intestinal, asthma, bronchitis, eyelid styes, cough, asthma, bronchial infections, bowel complaints, chest congestion, throat spasms, hay fever, tumors, helminthic infestations, wounds, kidney stones, abscesses and skin diseases.
36.	Euphorbia pulcherrima Willd.	Euphorbiaceae	llai paddi / Mayil kalli	Shrub	Whole plant	Tuberculosis, skin infections, fractures, stomach irritation, discomfort, nausea, skin irritation and vomiting.
37.	Ficus benjamina L.	Moraceae	Putrajuvi	Tree	Fruit, bark, root and leaves	Skin disorders, inflammation, piles, vomiting, leprosy, malaria, nose-diseases, demulcent, digestive, pectoral, cancer and tonic.
38.	Ficus elastica Roxb.	Moraceae	Semaaial	Tree	Leaves, stem and bark	Skin infections, allergies, diuretic, cancer, cardiovascular diseases, diabetes, gastritis, hepatitis, skin disorders and urinary tract infections.
39.	Ficus religiosa L.	Moraceae	Arasamaram	Tree	Bark, fruits, tender shoots, latex and seeds	Diarrhoea, diabetes, epilepsy, inflammatory disorders, gastric problems, dysentery, gonorrhea, ulcers, scabies, skin diseases, asthma and sexual disorders.
40.	Gmelina arborea Roxb.	Verbenaceae	Kumalaamaram / Kumil	Shrub	Root, leaves, flower, bark and fruit	Stomachic, laxative, anthelmintic, low appetite, hallucination, piles, abdominal pains, burning sensations, fevers, urinary discharge, diuretic, tonic, aphrodisiac, alternative and astringent to the bowels.
41.	Gomphrena decumbens	Amarantaceae	-	Herb	Whole plant	Bronchial asthma, diarrhoea, pains, tonic, carminative,



	Jacq.					diabetes, dermatitis and piles.
42.	Gynandropsis pentaphylla Dc.	Capparidaceae	Velai / Naivela	Herb	Roots, seeds, leaves and seeds	Rheumatism, scorpion stings, snake bite, leprosy, abscess, blocked nose, constipation, pain, earache, headache, malaria, bronchitis, fever and asthma.
43.	Heliotropium subulatum Hochst.	Boraginaceae	Tetkotukki	Herb	Leaves and stems	Gout, rheumatism and as antiseptic, febrifuge, cholagogue, skin wounds, anti-inflammatory and healing agents.
44.	Holoptelea integrifolia Pl.	Ulmaceae	Avimaram	Tree	Bark	Inflammation, gastritis, dyspepsia, colic, intestinal worms, vomiting, wound healing, leprosy, diabetes, hemorrhoids, dysmenorrhea, rheumatism, obesity, edema and bronchitis.
45.	Indigofera enneaphylla L.	Fabaceae	Sheppunerunji	Herb	Whole plant	Wound healer, antiscorbutic, diuretic, alterative, anti- diarrhoeal and analgesic.
46.	Ionidium suffruticosum Ging.	Violaceae	Orilaiththamarai	Herb	Whole plant	Diuretic, demulcent, tonic and scorpion sting.
47.	Ixora coccinea L.	Rubiaceae	Idly poo / Vetchi	Shrub	Leaves, roots and flowers	Astringent, antiseptic, blood-purifier, sedative, antileucorrhoeic, antidiarrhoeal, dysentery, tuberculosis, fever, headache, colic, anti-catarrhal, dysmenorrhoea, haemoptysis, bronchitis and dysmenorrhoea.
48.	Jasminum sambac Ait.	Oleaceae	Gundu Malli	Shrub	Leaves, root, stem, bark and flowers	Anti-depressant, antiseptic, cicatrisant, aphrodisiac, expectorant, anti-spasmodic, galactogogue, sedative, parturient, uterine, tonic and thermogenic.
49.	Lochnera pusilla K. Schum.	Apocynaceae	Nithya Kalyani / Sudukaatu Mallikai	Herb	Root and bark	Leukemias, lymphomas, malaria, childhood cancer, tonic, astringent and diabetes.
50.	Mangifera indica L.	Anacardiaceae	Mamaram	Tree	Stem, bark and leaves	Asthma, astringent, heat stroke restorative tonic, invigorating and freshening.
51.	Melothria perpusilla Cogn.	Cucurbitaceae	Pattiramatantai	Climber	Whole plant	Jaundice and kidney disorders
52.	Millingtonia hortensis L.f.	Bignoniaceae	Kat-malli	Tree	Root, stem, bark, leaves and flower	Antipyretic, sinusitis, cholagogue, fever, tonic and asthma.
53.	Mollugo nudicaulis Lam.	Aizoaceae	Parpadagam	Herb	Whole plant	Stomachic, emmenagogue, aperients, antiseptic, to promote the menstrual discharge and anti-periodic.
54.	<i>Moringa oleifera</i> Lam.	Moringaceae	Murungai	Tree	Leaves, flowers, fruits, seeds and bark	Anemia, arthritis, asthma, cancer, constipation, diabetes, rheumatism, diarrhea, epilepsy, stomach pain and parasitic infections.
55.	Murraya koenigii Spr.	Rutaceae	Kariveppilai	Shrub	Leaves, bark and root	Anti-diabetic, antioxidant, antimicrobial, anti-inflammatory, tonic, stomachic, pungent, stimulant, cure eruptions, anticarcinogenic and hepatoprotective.



56.	Ocimum sanctum L.	Lamiaceae	Tulasi	Herb	Leaves	Digestive fire, manage skin diseases, blood impurities, chest pain and vata, kapha disorders, bronchitis, malaria, diarrhoea, dysentery, skin disease, arthritis, eye diseases, insect bites, cold and cough.
57.	Oldenlandia umbellata L.	Rubiaceae	Saayavaer	Herb	Leaves and root	Bronchitis, asthma, consumption, cough, cold, fever and blood vomiting.
58.	Pachygone ovata Miers.	Menispermaceae	Kaattukkodi	Climber	Folk	Diabetes, oedema, pain, rheumatoid arthritis, bone fracture, nephritis, pyrexia and hypertension.
59.	Passiflora foetida L.	Passifloraceae	Siruppunaikkali	Climber	Whole plant	Diarrhoea, asthma, debility, epilepsy, headache, inflammation, liver diseases, skin disorder, wounds, biliousness, fever, insomnia, stomach ache, tumors, cold, dysphasia, indigestion, itching, pain, stress and whooping cough.
60.	Pedilanthus tithymaloides Poit.	Euphorbiaceae	Kandai kalli	Shrub	Leaves	Emetic, anti-inflammatory, antibiotic, antiseptic, anti- hemorrhagic, antiviral, antitumoral and abortive.
61.	Peristrophe bicalyculata Nees.	Acanthaceae	Nagananda	Herb	Root	Hysteria, lecoderma, anti- inflammatory, analgesic activity, psychomotor disorder, skin diseases, fever and cough.
62.	Phyllanthus maderaspatensis L.	Euphorbiaceae	Nila-nelli	Herb	Leaves and seed	Laxative, carminative, diuretic, astringent, headache, bronchitis, earache, ophthalmia, ascites and jaundice.
63.	Phyllanthus niruri L.	Euphorbiaceae	Kizhanelli	Herb	Whole plant	Kidney stones, gall stones, liver health, stomach, genitourinary system, liver, kidney, spleen and diabetes.
64.	Pisonia grandis R. Br.	Nyctaginaceae	Illachaikkettayilai	Tree	Leaves	Anti-diabetic, anti-inflammatory wound healing, diuretic, analgesic, filariasis, dysentery and rheumatic disorders.
65.	Plumeria alba L.	Apocynaceae	Perungalli	Shrub	Seed, latex, root and leaves	Ascites, itching, leprosy, piles, toothache, gonorrhea, jaundice, malaria, scabies, herpes, joint pain and syphilis.
66.	Polyalthia longifolia Hk.f. & T.	Annonaceae	Vansulam	Tree	Bark, leaves and seeds	Skin disease, fever, diabetes, hypertension, helminthiasis and febrifuge.
67.	Polygala persicariaefolia Dc.	Polygalaceae	Milakunankai	Herb	Leaves, roots and bark	Diuretic, inflammation, common cold, convulsions and bleeding wounds.
68.	Polygala rosmarinifolia W. & A.	Polygalaceae	-	Herb	Whole plant	Inflammation.
69.	Pongamia glabra Vent.	Fabaceae	Pongum	Tree	Fruits, leaves, dried root, bark, seed, seed oil and flower	Tumors, piles, leprosy, diarrhoea, muscle cramp, whooping cough, arthritis, sinusitis, ringworm, baldness, ulcers, gonorrhea, cleaning gums, teeth, vaginal and skin diseases.
70.	Portulaca oleracea L.	Portulacaceae	Parup-pukirai	Herb	Leaves	Refrigerant, diuretic, mild spasmodic, stomatitis and dysentery.
71.	Priva leptostachya Juss.	Verbenaceae	-	Herb	-	Healing wounds, anti-fertility, cure ulcers and diarrhoea, inflammatory diseases, allergic dermatitis, gout and itch,



						larvicide, insecticide, parasiticide and detoxifying agent.
72.	Psidium guajava L.	Myrtaceae	Koiya	Tree	Leaves and Fruit	Diarrhoea, diabetes, dysmenorrhea, hyperlipidemia and hypertension.
73.	Quisqualis indica L.	Compretaceae	Irangun malli	Shrub	Fruit, leaves and seeds	Insecticide, improves spleen function, digestion, treats diarrhoea, cough, rheumatism, fever, combat nephritis, astringent and anthelmintic.
74.	Rhynchosia minima Dc.	Fabaceae	Kaliyanatuvarai	Herb	Root	Abortifacients, ecbolics, general healing, sickness such as haemorrhoids, heart, diarrhoea, dysentery and miscellaneous poison.
75.	Ruellia prostrata Poir.	Acanthaceae	Pottakanchi	Herb	Aerial parts	Anthelmintic, whooping cough, stomach ache, emesis, analgesia, nociceptive pain, inflammation, renopathy and syphilis, headache and dizziness.
76.	Ruellia tuberosa L.	Acanthaceae	Pattaskai	Herb	Roots and leaves	Bladder stones, heart disease, infections, kidney failure, syphilis, cancer, high blood pressure, joint pain, muscle cramp, gonorrhea, high cholesterol, kidney diseases, stomach ache and whooping cough.
77.	Sida acuta Burm.	Malvaceae	Vathathiruppi	Shrub	Roots and leaves	Diuretic, demulcent, anthelmintic, wound healing, astringent, cooling, stomachic, febrifuge, diuretic, sexual debility, haemorrhoids, demulcent and elephantiasis.
78.	Sida cordifolia L.	Malvaceae	Nilatutti	Herb	Roots, leaves, seeds and stems	High blood pressure, heart attacks, muscle disorders, strokes, irregular heartbeat, loss of consciousness, astringent, emollient and aphrodisiac.
79.	Talinum cuneifolium Willd.	Caryophyllaceae	Pasalai	Herb	Leaves	Cough gastritis, pulmonary tuberculosis, diarrhoea, gonorrhea and constipation.
80.	Tectona grandis L. f.	Lamiaceae	Tekku	Tree	Whole plant	Cooling, laxative, sedative, piles, leucoderma, dysentery, bronchitis, biliousness, urinary discharges, scabies, headache, burning sensation and anthelmintic.
81.	Tephrosia purpurea Pers.	Fabaceae	Kolingi	Tree	Whole plant, seeds, root-bark and root	Leprosy, ulcers, asthma, tumors, anthelmintic, alexiteric, restorative, antipyretic, digestible, tonic and laxative.
82.	Thespesia populnea Cav.	Malvaceae	Poovarsu	Tree	Stem, bark, root and oil	Ulcers, abscess, burns, haemophilia, inflammation, nose bleed, skin diseases, wounds, diarrhoea, infections, leucoderma, scabies, diabetes, itching, ringworm and throat disorder.
83.	Tinospora cordifolia Miers.	Menispermaceae	Seenthil	Climber	Stem	Dyspepsia, helminthiasis, burning sensation, hyperdipsia, stomachalgia, intermittent fevers, chronic fevers, inflammations, gout, vomiting, cardiac debility, skin diseases, leprosy, anaemia, cough, asthma, jaundice, seminal weakness and splenopathy.



84.	Tribulus terrestris L.	Zygophyllaceae	Nerinji	Herb	Fruit	Asthma, cough, cold, urinary stone, incontinence of urine, headaches, eye problems such as itching, conjunctivitis, weak vision and nervousness.
85.	Trichodesma indicum R. Br.	Boraginaceae	Kallutaitumpai	Herb	Leaves and roots	Arthritis, anorexia, dysentery, skin diseases, poisoning and wound healing.
86.	Tridax procumbens L.	Asteraceae	Vettukkaaya- thalai	Herb	Whole plant	Wound healing, anticoagulant, antifungal, insect repellent, skin diseases, diarrhoea and dysentery.
87.	Vernonia cinerea Less.	Asteraceae	Neichati	Herb	Leaves, seed and roots	Roundworms, threadworms, coughs, flatulence, intestinal colic, dysuria, leucoderma, psoriasis and other chronic skin diseases.
88.	Wedelia biflora Dc.	Asteraceae	Manjalkarilamka nni	Herb	Roots and leaves	Acne, cystinosis, nausea, stomach ache, appendicitis, dysentery, ulcers, orchitis, muscle sprains and ringworm.
89.	Wrightia tinctoria R.Br.	Apocynaceae	Veppalai	Tree	Leaves, bark and seeds	Used in the treatment of piles and skin diseases like ringworm, leprosy and kidney stones.

Plate 1: Some Snapshots of Medicinal Plants in Study Area

Adatoda vasica Ness. Euphorbia hirta L. Digera arvensis Forsk.



Tribulus terrestris L.



Commelina benghalensis L.



Talinum cuneifolium Willd.



Trichodesma indicum R. Br.



Passiflora foetida L.



Boerhaavia diffusa L.









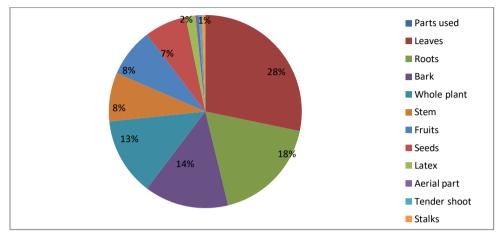


Figure 3: Pie diagram showing the percentage of parts used as medicinal curatives

## CONCLUSION

This study shows that processing and consuming medicinal plants are still practiced in all states of India. Due to an increasing health service facility, herbal medicines are mostly used to prevent diseases than cure. From this survey we concluded that Vellalar college campus is enriched with very precious and medicinally useful herbals. An additional research analysis is required to preserve the bioresources that is slowly declining in this area of campus. This study will promote a practical use of botanicals and must be continued focusing on its pharmacological validation. Further detailed exploration and collection of ethnobotanical information, chemical studies and screening for medicinal properties will provide cost effective and reliable source of medicine for the welfare of humanity.

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