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# A Study on Medicinal Plants of Talwara Block, District Hoshiarpur, Punjab, India

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# **ARTICLE INFO**

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# ABSTRACT

The present research work was carried out in Talwara Block, District Hoshiarpur, Punjab, India to identify and to understand the uses of medicinal plants for the treatment of various ailments. The study was undertaken with the help of questionnaire and discussion method. About 100 medicinal plant species belonging to 52 families were documented. Out of 100 medicinal plants, 40 species were herbs, 13 species were shrubs, 40 species were trees, 5 species were climbers and 2 species were grasses. Leaves were the most useful part as compared to other plant parts for the treatment of various ailments. Different parts of plants such as roots, bark, leaves, seeds, flowers etc. were used in various forms like paste, decoction, powder, oil etc. to treat various ailments. 15 key informants were selected to collect the information. During research, it has been observed that the villagers were chiefly dependent on the plants as they were familiar with their use for different ailments.

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Medicinal plants or the drugs obtained from plants are in

wide use around the world. Singh et.al. (2018) reported that

the 151 medicinal herbs of Punjab, India belonging to

different families have been used in curing different serious

health troubles. Now a days plant plays a significant role in

the various industries such as many pharmaceutical

companies which utilizes medicinal plants as sources of

active ingredients for developing drugs and medications. The

nutraceutical industry incorporates medicinal plants into

products like dietary supplements, functional foods, and

herbal teas to promote health and well-being. Plants like

turmeric, ginger, and garlic are popular choices for their

therapeutic properties. Medicinal plants are commonly used

in cosmetics and personal care products due to their skincare

benefits. A review on use of medicinal plants in traditional

health care practices in Talwandi Sabo, Bathinda District,

Punjab, India was given by Kaur et.al. (2020). Analysis of

data revealed the use of 88 medicinal plant species belonging

to 77 genera and 42 families for the treatment of about 60

ailments. The highest number of plants was used for

gastrointestinal problems, skin problems followed by

respiratory diseases, skeletomuscular diseases and dental

problems. Sidhu et.al. (2011) reported that people were

mostly using the wild plant species for making traditional

medicines in Hoshiarpur district of Punjab and leaves were

the most useful part as compared to other plant parts. Sidhu,

et.al. (2012) in Jalandhar district of Punjab, India to

document traditional medicinal plant species utilized for the

treatment of various human as well as animal ailments. It has

been observed that people of the area were using 119 plant

Ethnomedicinal Studies in Amritsar district of Punjab, India

was conducted by Singh (2018) reported that the overall

public of in and around domain of Amritsar district of Punjab

families.

species comprising 109 genera and 57

# Introduction

Throughout the ages, humans have relied on nature for their basic needs for production of food, shelter, clothing, transportation, fertilizer, flavours and fragrances and medicines. Plants have played a great role in the growth and development of human race. First and the most important necessity for human life is the oxygen which is provided by the plants. Medicinal plants encompass a vast array of botanical species, including herbs, trees, shrubs, and even certain fungi. Each plant contains specific bioactive compounds that contribute to its medicinal properties. These compounds may include alkaloids, flavonoids, terpenoids, and phenolic compounds, among others. The use of medicinal plants can be traced back to the earliest human societies, where plants were essential for survival. Medicinal plants have profound cultural significance, serving as symbols of healing, spirituality, and connection to nature in many societies. Using medicinal plants preserves cultural traditions and knowledge passed down through generations, enriching cultural heritage and identity. In India, it was Jain (1986) from NBRI, Lucknow, affectionately known as Father of Indian ethnobotany who made pioneering investigations. Schultes (1962) interpreted ethnobotany as usually the study of relationships which exist between people of a primitive society and their plant environment. Many of today's pharmaceutical drugs have their origins in medicinal plants. Some studies suggested that the medicinal plants are a potential source for the development of new herbal drugs (Kumar, 2016). Recently, WHO estimated that 80% of people worldwide rely on herbal medicines for some aspect of their primary health care needs. According to WHO, around 21,000 plants species have the potential for being used as medicinal plants. Treatment with medicinal plants is considered very safe as there is no or minimal side effects.

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have been using different herbs for accommodating reason since time immemorial. Villagers essentially depend upon the herbs for all ailments. So, the present study was carried out to document the traditional medicinal plant knowledge from the area under investigation.

## **Materials and Methods**

# Study Area:

Talwara is a beautiful city, just 58 Kilometres from Hoshiarpur district in the Indian state of Punjab. It is near to the border of the state of Himachal Pradesh. It is a town located at the fringes of Shivalik range of mountains. Talwara is located at 31.95°N and 75.87°E. It has an average elevation of 326 metres. This place is known for proximity to Pong Dam. It is situated on the banks of Pong Left Main Canal. Locally, known as Shah Neher. Hoshiarpur district is one of the oldest districts of Punjab, is located in the North-east part of the Punjab state and shares common boundaries with Gurdaspur district in the north-west, Jalandhar district and Kapurthala district in south-west, Kangra district and Una district of Himachal Pradesh in the north-east. Hoshiarpur district comprises 4 sub-divisions, 10 community development blocks, 9 urban local bodies and 1417 villages. The district has an area of 3365 km<sup>2</sup>. The **map** of the study area is given below.

#### **Field Survey**

During the field survey the data was collected along various lines in different manners by enquiry, observation, interview and discussion. A camera was carried during survey and the most common and ethnobotanically important plants were photographed. During the present study 15 key informants (**Table-1**) were selected. The informants were selected from nearby villages of the study area. Some informants were also selected based on their knowledge, interest and cooperation in the proposed research work. Semi structured interviews were conducted with informants at various places like at their homes and during walk with them. Questionnaire was used for reporting information about the plants such as local name, part used and remedies which are used in the treatment of diseases.

#### **Collection of Material**

The plants were collected in flowering seasons, if flowers and fruits were not present, the leafy material was collected. And at the time of plant collection necessary data was also recorded such as date, time, locality, latitude, longitude, elevation, landmark information etc. The plants specimens were collected, dried, preserved and mounted on herbarium sheets. And labels containing all information about plants and name of the collector were attached along with the mounted plant specimens on the herbarium sheets. In this way the plants were preserved.

#### **Results and Discussion**

During the course of present research work a total of 100 species of medicinal plants were reported. These species belong to 92 genera and 52 different families and maximum members were belonging to fabaceae and asteraceae families as shown in Fig.2. The collected medicinal plant species were of varied habits and habitats. Out of 100 medicinal plants species, 40 species were herbs, 13 species were shrubs, 40 species were trees, 5 species were climbers and 2 species were grasses as shown in Fig.3. Each plant or its individual parts have their own significance in traditional remedies. Out of 100 medicinal plant species, there were 55 species in which the entire plant is used as medicines for the treatment of various ailments as shown in Fig.4. Leaves were the most useful part as compared to other plant parts for the treatment of various ailments. The results were presented in the tabular form (Table-2). The plants were also arranged in alphabetical order and the botanical name of plant species are given with their local name, family name and habit and the plant part used as medicine.

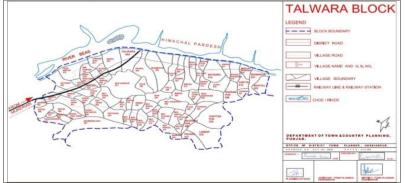
### **Threats and Conservation**

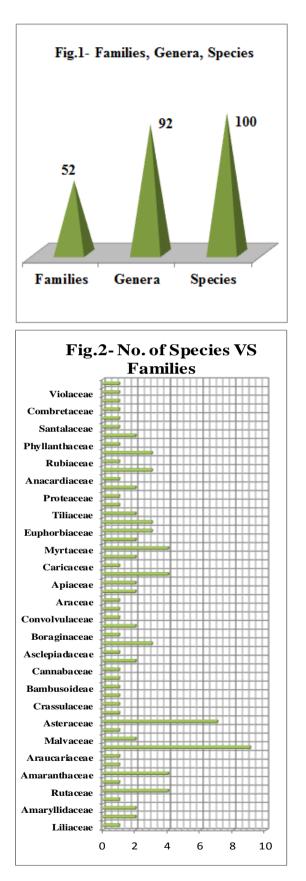
During the investigation it has been observed that the plant diversity of Talwara is now decreasing to a great extent. Many factors are affecting the flora of the study area like habitat destruction, over-exploitation, urbanization, human interference/activities, improper collection, grazing and deforestation and other biotic factors. So, for the conservation of medicinal plants herbal gardens should be developed in Talwara region. The government of Punjab should encourage the villagers for cultivation of medicinal plants in their localities. Botanical gardens, arboreta, and seed banks should be developed to cultivate and maintain living collections of medicinal plants. Promote cultivation programs to grow medicinal plants in controlled environments, reducing pressure on wild populations. This can involve community gardens, agroforestry initiatives, and supporting local farmers.

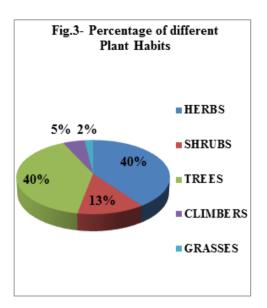
#### Conclusion

The present investigation proved that the practice of traditional plant medicines is still alive in the area under investigation. The medicinal plants are playing very important role for people of this area. Almost all plants have some medicinal use. The medicine men, elder men and women of the study area have enormous knowledge about the treatment and remedies to cure various ailments with the help of medicinal plants. Due to medicinal and other important uses these plants are exploited in alarming rates and the plant diversity is getting decrease day by day. That is why these plants need to conserve by in-situ and ex-situ conservation methods for the sustainable development.

#### Map. Showing Talwara Block, Punjab







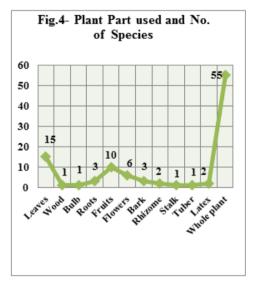


Table-1 Names of Informants with their age, sex and occupation

Sr.No.	Name	Age	Sex	Occupation
1	Ajay Thakur	50	Male	Contractor
2	Surinder Kumar	62	Male	Farmer
3	Sanyogita	75	Female	Knowledgeable
4	Yogesh Kumar	45	Male	Army retired
5	Sonia Rani	45	Female	Knowledgeable
6	Bimla Devi	80	Female	Knowledgeable
7	Kiran Jyoti	42	Female	Knowledgeable
8	Vikas Thakur	30	Male	In HPSEBL
9	Sunil Kumar	50	Male	Farmer
10	Sakshi Thakur	30	Female	Knowledgeable
11	Savita	60	Female	Knowledgeable
12	Neelam	58	Female	Knowledgeable
13	Ravinder Singh	60	Male	Farmer
14	HarvinderKumar	59	Male	Farmer
15	Prem Kumar	55	Male	AyurvedicDoctor

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<u> </u>	able-2 List of Medicinal Pla Botanical Name	Local Name	Family	Habit	Part Used
1.	Aloe barbadensis	Ghee Kunvar	Liliaceae	Herb	Leaves
2.	Azadirachta indica	Neem	Meliaceae	Tree	Leaves
3.	Allium sativum	Lahasun	Amaryllidaceae	Herb	Bulb
4.	Asparagus racemosus	Shatavari	Asparagaceae	Climber	Roots
5.	Acacia catechu	Khair	Mimosaceae	Tree	Bark
5.	Aegle marmelos	Bael	Rutaceae	Tree	Fruits, Leaves
7.	Allium cepa	Piyaz	Amaryllidaceae	Herb	Bulb, Leaves
3.	Annona squamosa	Sitaphal	Annonaceae	Tree	Fruits, Leaves
).	Achyranthes aspera	Puthkanda	Amaranthaceae	Herb	Whole plant
10.	Argemone mexicana	Satyanashi	Papaveraceae	Herb	Seeds, Leaves
11.	Araucaria heterophylla	Starpine	Araucariaceae	Tree	Bark
12.	Acacia nilotica	Kikar	Fabaceae	Tree	Bark
13.	Abelmoschus esculentus	Bhindi	Malvaceae	Herb	Pods Whole plant
14. 15.	Adhatoda vasica Amaranthus viridis	Basuti Chulai	Acanthaceae Amaranthaceae	Shrub Herb	Whole plant Leaves, Stem
13. 16.	Ageratum conyzoids	Visadodi	Asteraceae	Herb	Leaves, Stem Leaves
10.	Albizia lebbeck	Shirish	Fabaceae	Tree	Bark, Leaves
18.	Bauhinia variegata	Kachnar	Fabaceae	Tree	Whole plant
19.	Butea monosperma	Plash	Fabaceae	Tree	Flowers, Bark
20.	Bombax ceiba	Simul	Bombacaceae	Tree	Bark, Leaves
20. 21.	Bryophyllum pinnatum	Patharchatta	Crassulaceae	Herb	Leaves
22.	Brassica campestris	Sarson	Brassicaceae	Herb	Seeds, Leaves
23.	Bellis perennis	Daisy	Asteraceae	Herb	Flower, Leave
24.	Bambusa vulgaris	Baans	Bambusoideae	Grass	Leaves, Shoot
25.	Bougainvillea spectabilis	Booganvel	Nyctaginaceae	Shrub	Flower, Leave
26.	Cannabis sativa	Bhang	Cannabaceae	Herb	Leaves, Buds
27.	Catharanthus roseus	Sadabahar	Apocynaceae	Herb	Flower, Leave
28.	Calotropis gigantea	Akk	Asclepiadaceae	Shrub	Whole plant
29.	Citrus limon	Nimbu	Rutaceae	Tree	Fruits
30.	Cymbopogon citratus	Lemon grass	Poaceae	Herb	Leaves
31.	Chenopodium album	Bathu	Amaranthaceae	Herb	Leaves, Stem
32.	Cordia myxa	Lasoora	Boraginaceae	Tree	Fruits
33.	Curcuma longa	Haldi	Zingiberaceae	Herb	Rhizome
34.	Cuscuta reflexa	Amarbel	Convolvulaceae	Climber	Whole plant
35. 36.	Colocasia esculenta Chlorophytum comosum	Arbi Spider plant	Araceae	Herb Herb	Corms, Leaves
37.	Coriandrum sativum	Dhaniya	Asparagaceae Apiaceae	Herb	Leaves, Seeds
38.	Cynodon dactylon	Doob	Poaceae	Herb	Leaves, Stem
39.	Citrus reticulata	Santra	Rutaceae	Tree	Fruits
40.	Capsicum annum	Mirch	Solanaceae	Herb	Fruits
41.	Calendula officinalis	Genda	Asteraceae	Herb	Flower
12.	Carica papaya	Papita	Caricaceae	Tree	Fruits
13.	Cucumis sativus	Khira	Cucurbitaceae	Climber	Fruits
14.	Callistemon viminalis	Bottle brush	Myrtaceae	Tree	Leaves, Flowe
45.	Cassia fistula	Ambaltas	Fabaceae	Tree	Whole plant
16.	Dodonaea viscosa	Mehnded	Sapindaceae	Shrub	Leaves, Stem
17.	Dalbergia sissoo	Tahli	Fabaceae	Tree	Leaves, Bark
18.	Eucalyptus tereticornis	Safeda	Myrtaceae	Tree	Leaves
19.	Euphorbia hirta	Dudhi	Euphorbiaceae	Herb	Whole plant
50.	Euphorbia royleana	Thor	Euphorbiaceae	Herb	Latex
- 1			L Unah onhio oooo	Shrub	Latex
	Euphorbia milii	Tajgi	Euphorbiaceae		
52.	Euphorbia milii Foeniculum vulgare	Saunf	Apiaceae	Herb	
52. 53.	Euphorbia milii Foeniculum vulgare Ficus religiosa	Saunf Peepal	Apiaceae Moraceae	Herb Tree	Leaves, Bark
52. 53. 54.	Euphorbia milii Foeniculum vulgare Ficus religiosa Ficus benghalensis	Saunf Peepal Bohar	Apiaceae Moraceae Moraceae	Herb Tree Tree	Leaves, Bark Leaves, Bark
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52. 53. 54. 55. 56. 57. 58. 59. 50. 51. 52.	Euphorbia miliiFoeniculum vulgareFicus religiosaFicus benghalensisGrewia tiliifoliaGrewia optivaGeranium lucidumGrevillea robustaHibiscus rosa - sinensisHelianthus annuusLantana camaraLitchi chinensis	Saunf Peepal Bohar Dhaman Beul Cranesbill Silver Oak China rose Surajmukhi Ghaneri Litchi	ApiaceaeMoraceaeMoraceaeTiliaceaeTiliaceaeGeraniaceaeProteaceaeMalvaceaeAsteraceaeVerbenaceaeSapindaceae	Herb Tree Tree Tree Herb Tree Shrub Herb Shrub Tree	Leaves, Bark Leaves, Bark Leaves, Roots Whole plant Leaves Bark, Leaves Flowers Flower, Seeds Leaves, Stem Fruits, Seeds
52. 53. 54. 55. 56. 57. 58 59. 50. 51.	Euphorbia miliiFoeniculum vulgareFicus religiosaFicus benghalensisGrewia tiliifoliaGrewia optivaGeranium lucidumGrevillea robustaHibiscus rosa - sinensisHelianthus annuusLantana camara	Saunf Peepal Bohar Dhaman Beul Cranesbill Silver Oak China rose Surajmukhi Ghaneri	ApiaceaeMoraceaeMoraceaeTiliaceaeTiliaceaeGeraniaceaeProteaceaeMalvaceaeAsteraceaeVerbenaceae	Herb Tree Tree Tree Herb Tree Shrub Herb Shrub	Leaves, Bark Leaves, Bark Leaves, Roots Whole plant Leaves Bark, Leaves Flowers Flowers Flower, Seeds Leaves, Stem

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Momordica charantia	Karela	Cucurbitaceae	Climber	Fruit, Seeds				
Mentha spicata	Pudina	Lamiaceae	Herb	Leaves				
Mitragyna parvifolia	Kaim	Rubiaceae	Tree	Whole plant				
Morus nigra	Shahtoot	Moraceae	Tree	Fruits				
Ocimum sanctum	Tulsi	Lamiaceae	Shrub	Leaves				
Parthenium hysterophorus	CongressGrass	Asteraceae	Herb	Leaves				
Psidium guajava	Amrood	Myrtaceae	Tree	Fruits, Leaves				
Pyrus communis	Nashpati	Rosaceae	Tree	Fruits, Leaves				
Phyllanthus emblica	Amla	Phyllanthaceae	Tree	Fruits				
Prunus persica	Aadu	Rosaceae	Tree	Whole plant				
Perilla frutescens	Bhanjeera	Lamiaceae	Herb	Leaves, Seeds				
Populus deltoides	Poplar	Salicaceae	Tree	Bark, Leaves				
Rauwolfia serpentina	Sarpagandha	Apocynaceae	Shrub	Roots				
Rosa indica	Gulab	Rosaceae	Shrub	Flowers				
Stevia rebaudiana	Stevia	Asteraceae	Herb	Leaves				
Syzygium cumini	Jamun	Myrtaceae	Tree	Fruits, Seeds				
Saraca asoca	Ashok Tree	Fabaceae	Tree	Bark				
Santalum album	Chandan	Santalaceae	Tree	Wood				
Saccharum officinarum	Ganna	Poaceae	Grass	Stalks				
Solanum tuberosum	Aalu	Solanaceae	Herb	Tubers				
Solanum lycopersicum	Tamatar	Solanaceae	Herb	Fruits				
Spinacia oleracea	Paalak	Amaranthaceae	Herb	Leaves				
Salix alba	Willow	Salicaceae	Tree	Bark				
Tinospora cordifolia	Giloy	Menispermaceae	Climber	Whole plant				
Trigonella foenum -graecum	Methi	Fabaceae	Herb	Leaves, Seeds				
Terminalia chebula	Harad	Combretaceae	Tree	Fruits				
Tradescantia pallida	Purple queen	Commenlinaceae	Herb	Leaves				
Thuja orientalis	Morpankhi	Cupressaceae	Shrub	Leaves, Stem				
Trifolium repens	Tinpati	Fabaceae	Herb	Flower, Leaves				
Tagetes erecta	Genda	Asteraceae	Herb	Flowers				
Vitex negundo	Banaa	Verbenaceae	Shrub	Whole plant				
Viola odorata	Banafsha	Violaceae	Herb	Flowers				
Withania somnifera	Ashwagandha	Solanaceae	Shrub	Roots				
Ziziphus mauritiana	Ber	Rhamnaceae	Tree	Fruits, Leaves				
<u>ـ</u>	Adrak	Zingiberaceae	Herb	Rhizome				
	Mentha spicataMitragyna parvifoliaMorus nigraOcimum sanctumParthenium hysterophorusPsidium guajavaPyrus communisPhyllanthus emblicaPrunus persicaPerilla frutescensPopulus deltoidesRauwolfia serpentinaRosa indicaStevia rebaudianaSyzygium cuminiSaraca asocaSantalum albumSolanum tuberosumSolanum lycopersicumSpinacia oleraceaSalix albaTinospora cordifoliaTrigonella foenum -graecumTerminalia chebulaTradescantia pallidaThuja orientalisTrifolium repensTagetes erectaVitex negundoViola odorataWithania somnifera	Mentha spicataPudinaMitragyna parvifoliaKaimMorus nigraShahtootOcimum sanctumTulsiParthenium hysterophorusCongressGrassPsidium guajavaAmroodPyrus communisNashpatiPhyllanthus emblicaAmlaPrunus persicaAaduPerilla frutescensBhanjeeraPopulus deltoidesPoplarRauwolfia serpentinaSarpagandhaRosa indicaGulabStevia rebaudianaSteviaSyzygium cuminiJamunSaraca asocaAshok TreeSantalum albumChandanSolanum tuberosumAaluSolanum tuberosumAaluSalix albaWillowTirigonella foenum -graecumMethiTerminalia chebulaHaradTradescantia pallidaPurple queenThuja orientalisMorpankhiTrifolium repensTinpatiTagetes erectaGendaViola odorataBanafshaWithania somniferaAshwagandha	Mentha spicataPudinaLamiaceaeMitragyna parvifoliaKaimRubiaceaeMorus nigraShahtootMoraceaeOcimum sanctumTulsiLamiaceaeParthenium hysterophorusCongressGrassAsteraceaePsidium guajavaAmroodMyrtaceaePyrus communisNashpatiRosaceaePhyllanthus emblicaAmlaPhyllanthaceaePrunus persicaAaduRosaceaePerilla frutescensBhanjeeraLamiaceaePopulus deltoidesPoplarSalicaceaeRosa indicaGulabRosaceaeStevia rebaudianaSteviaAsteraceaeSyzygium cuminiJamunMyrtaceaeSaraca asocaAshok TreeFabaceaeSolanum albumChandanSantalaceaeSolanum tuberosumAaluSolanaceaeSpinacia oleraceaPaalakAmranthaceaeSalix albaWillowSalicaceaeTrigonella foenum -graecumMethiFabaceaeTrigonella foenum -graecumMethiFabaceaeTrigonella chebulaHaradCombretaceaeTrigonella chebulaHaradCombretaceaeTrigonella chebulaPurple queenCommenlinaceaeTrigotium repensTinpatiFabaceaeTrigotium repensTinpatiFabaceaeTuigo orientalisMorpankhiCupressaceaeViola odorataBanaaVerbenaceaeViola odorataBanafshaViolaceae	Mentha spicataPudinaLamiaceaeHerbMitragyna parvifoliaKaimRubiaceaeTreeMorus nigraShahtootMoraceaeTreeOcimum sanctumTulsiLamiaceaeShrubParthenium hysterophorusCongressGrassAsteraceaeHerbPsidium guajavaAmroodMyrtaceaeTreePyrus communisNashpatiRosaceaeTreePyrus communisNashpatiRosaceaeTreePrunus persicaAaduRosaceaeTreePrunus persicaAaduRosaceaeTreePerilla frutescensBhanjeeraLamiaceaeHerbPopulus deltoidesPoplarSalicaceaeShrubRosa indicaGulabRosaceaeShrubStevia rebaudianaSteviaAsteraceaeHerbSyzygium cuminiJamunMyrtaceaeTreeSanca asocaAshok TreeFabaceaeTreeSaccharum officinarumGannaPoaceaeGrassSolanum tuberosumAaluSolanaceaeHerbSpinacia oleraceaPaalakAmranthaceaeTreeTrigonella foenum -graecumMethiFabaceaeTreeTrigonella foenum -graecumMethiFabaceaeHerbSulta albaWillowSalicaceaeHerbSolanate en etcaGendaAsteraceaeHerbTrigonella foenum -graecumMethiFabaceaeHerbTrigonella foenum -graecumMethiFabaceaeHerb <td< td=""></td<>				

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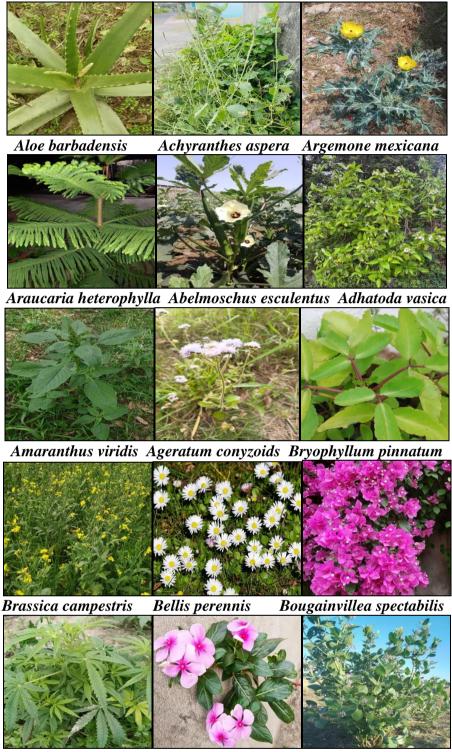
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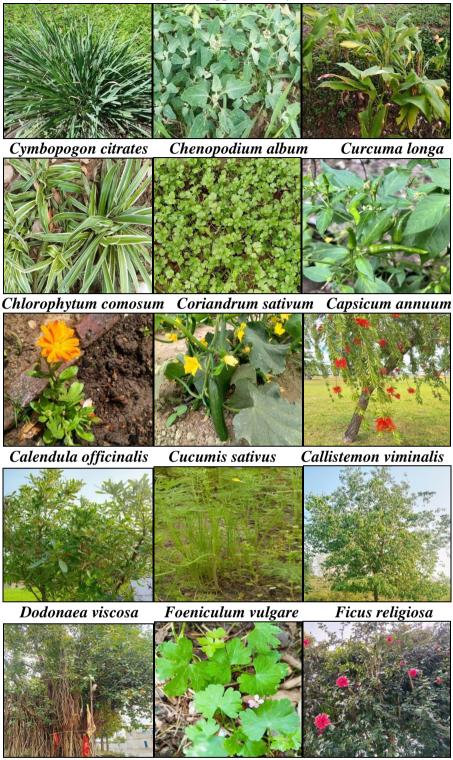


Cannabis sativa

Catharanthus roseus

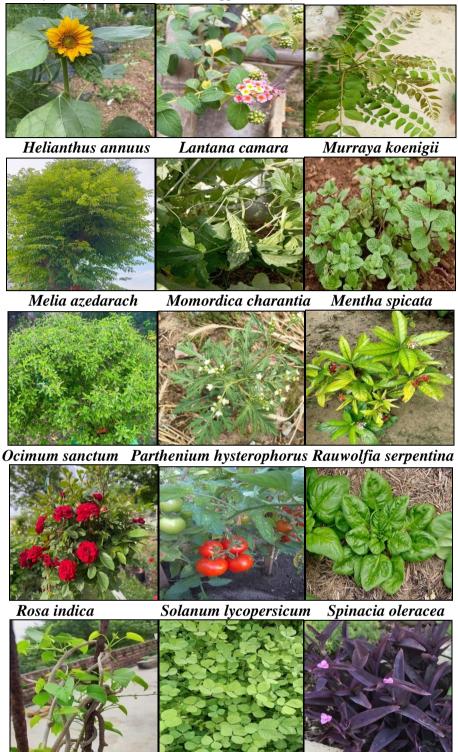
Calotropis gigantea

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Ficus benghalensis Geranium lucidum Hibiscus rosa – sinensis

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Tinospora cordifolia Trigonella foenum-graecum Tradescantia pallida