

# ANGIOSPERMIC MEDICINAL PLANTS DIVERSITY OF GRAMBHARTI (AMARAPUR) VILLAGE, MANSA TALUKA, GANDHINAGAR DISTRICT, GUJARAT, INDIA

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### **ABSTRACT**

The present study deals with the diversity of Angiospermic medicinal plants of Grambharti (Amarapur) village, in Gandhinagar district during January 2023 to March 2023. Information regarding medicinal uses and local name of plants was collected through direct field survey and personal interview with the locals and knowledgeable persons and cultivators. Then identify the plant species and arranged according to Bentham and hooker's classification system and prepare herbarium sheets. A total 96 Angiosperm plant species belonging to 46 families are recorded, in which 38 species belonging to 23 families are medicinal plant species. They are used in different disease. The study indicates that the area is very rich in traditional knowledge and a great diversity of medicinal plants which are offer a convenient strategy for promoting cultivation and conservation of variety of Angiosperm medicinal plants.

Key words: Angiosperm plants, Medicinal plants, Diversity, Grambharti (Amrapur).

### INTRODUCTION:

plants are essential for life, and people are dependent on them for medicine, oxygen, food and forage.

Angiosperm or flowering plants display a huge veriety of life forms including trees, hearbs, submerged aquatics and epiphytes. And are found in every were. (Keya et al., 2017) Angiosperms are the largest group of plants with 300 families, 8000 genera and 300000 species. Indian has 45000 plant species and Gujarat has 2198 plant species. (Vyas and Jadeja, 2018) The botanical name and families are arranged according to the classification system of Bentham and hooker. Angiosperm plants used by people for such a various purposes. Certain Angiosperm are also used as a source to create medicines. The contribution of angiosperms to biodiversity and habitat is so extremely important to human life they totally depend on it. (Rahman et al., 2017) The world is rich with natural and unique medicinal plants (krishnaiah et al., 2008) most of plant species and plant parts have been used in different kind of diseases like cough and cold, diabetes, fever, skin disease etc. (Patel et al., 2010)

Indians have an incredible knowledge of traditional use of medicinal plants and india has the exclusive distinction of its own recognised traditional medicine, ayurveda, siddha, unani, yoga and naturopathy, and homeopathy. Today according to world health organization about 70 – 80 % of the world's people depends on traditional medicine. (Kumar et al., 2014) India is largest producer of medicinal herbs and is appropriate called the botanical garden of the world (jadeja et al., 2006) cultivation of medicinal plants is an important way to make sustainable use of medicinal plants. Medicinal plants study focus on understand the plant importance and it provide data of medicinal usage and it's diversity.

The present paper deals with the survey and documentation of Angiosperm medicinal plants and their importance of Grambharti (Amarapur) village, Gandhinagar district, Gujarat. The main occupation of the Grambharti is agriculture, animal husbandry and organic farming. It's also including important medicinal plants cultivation.

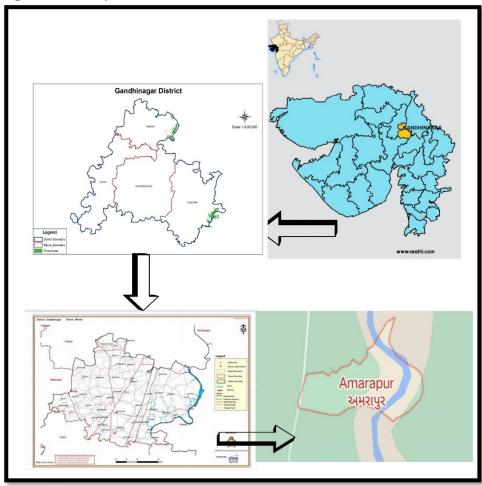


### **METHODOLOGY:**

### STUDY AREA:

Grambharti (amarapur) village is located in mansa taluka of Gandhinagar district. It is 19 km towards north from state capital gandhinagar. And it sits on the banks of Sabarmati river. It is situated between 23.22° north latitude and 72.68° Este longitude. It is a tropical wet and dry climate with three main seasons.

Figure-1. Map of the study area



The study was carried out during January 2023 to March 2023. Such a region were visited to collect the information about angiospermic medicinal plants Species. Personal interview helpd to identify plants local name and their uses for convenience, the botanical name and families are arranged according to the classification system of Bentham and hooker. During field work, specimens of each medicinally important plant were collected and prepare herbarium.

### **RESULT AND CONSERVATION:**

The study area of the Grambharti (amrapur) vilage show the many Angiosperm plants and medicinal plants were listout and arranged according to Bentham and hooker's classification system.

Table-1. Check list of Angiosperm plants

Sr. No.	Scientific Name	Common Name	Family	Habit
1	Santalum album	Chandan	Santalaceae	Tree
2	Acassia fistula	Garmalo	Caesalpinaceae	Tree
3	Bombax ceiba	Shimalo	Malvaceae	Tree
4	Tecoma Stans	Trumpet flower	Bignoniaceae	Shrub







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5 6	Caesalpinia pulcherrima	Gulmahor	Caesalpinaceae	Tree
7	Tabernaemontana divaricata	Tagar	Myrtaceae	Shrub
	Phyllanthus emblica	Amala	Euphorbiaceae	Tree
8	Putranjiva roxburghii	Putranjiva	Putranjivaceae	Tree
9	Moringaoleifera lam	Saragvo	Anacardiaceae	Tree
10	Infigofera caerulea	Indigo( gali)	Fabaceae	Shrub
11	Tephrosia purpurea	Sarpankho	Fabaceae	Shrub
12	Bambuda arundinace	Bamboo	Poaceae	Shrub
13	Annona reticulate	Custard apple	Annonaceae	Shrub
14	Citrus aurantum	Orange	Rutaceae	Shrub
15	Morus alba	Shetur	Moraceae	Shrub
16	Ficus racemosa	Umaro	Moraceae	Tree
17	Carissa carandas	Karamda	Apocynaceae	Tree
18	Coleus aromaticus	Ajama pan	Laminaceae	Herb
19	Mimosa pudica	Lajamani	Mimosaceae	Herb
20	Mimusops lengi	Borsalli	Sapotaceae	Tree
21	Barleria prionitis	Vajradanti	Acanthaceae	Shrub
22	Alangium salviifolium	Ankol	Cornaceae	Tree
23	Pleurolobus gangetieus	Shalparni	Fabaceae	Shrub
24	Cajanus cajan	Tuver	Fabaceae	Shrub
25	Calotropis procera	Ankdo	Asclepiadaceae	Shrub
26	Carica pappaya	Pappaya	Cariaceae	Shrub
27	Clitoria ternatea	Aparajita	Fabaceae	Climber
28	Scindap officinalis	Gaj pipper	Araceae	Herb
29	Ficus carica	Anjeer	Moraceae	Shrub
30	Lagerstroemia speciosa	Jarul	Lythraceae	Tree
31	Vitex negundo	Nirgundi	Laminaceae	Tree
32	Terminalia arjuna		Combretaceae	Tree
34	Terminana arjuna	Arjun	Combretaceae	1166
2.2	Davilainia maniamata	Vaslanan	Fabaaaa	Т
33	Bauhinia variegata	Kachnar	Fabaceae	Tree
34	Piper amalago	Pepper elder	Piperaceae	Shrub
34 35	Piper amalago Solanum virginium	Pepper elder Bhoy ringani	Piperaceae Solanaceaae	Shrub Herb
34 35 36	Piper amalago Solanum virginium Jetropha gossypifolia, curcas	Pepper elder Bhoy ringani Ratan jyot	Piperaceae Solanaceaae Euphorbiaceae	Shrub Herb Shrub
34 35 36 37	Piper amalago Solanum virginium Jetropha gossypifolia, curcas Withania somnifera	Pepper elder Bhoy ringani Ratan jyot Ashvagandha	Piperaceae Solanaceaae Euphorbiaceae Solanaceaae	Shrub Herb Shrub Shrub
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61	Zizipus Mauritania	Bor	Rhamnaceae	Tree
62	Solanumtorvum swartz	Ubhi ringani	Solanaceaae	Herb
63	Sesbania grandiflora	Agathiyo	Fabaceae	Tree
64	Ailanthus excelsa Roxb	Arduso	Simaroubaceae	Tree
65	Asparagus racemosus	Satavari	Asparagaceae	Herb
66	Lantana camara	Gandhati	Verbenaceae	Shrub
67	Leptadeni articulate	Jeevant( Dodi)	Asclepiadaceae	Climber
68	Phyllanthus amarus schum	Bhoy amli	Euphorbiaceae	Herb
69	Piper betle	Nagar vel	Piperaceae	Climber
70	Oroxylum indicum vent	Tetu	Bignoniaceae	Tree
71	Madhuca indica	Mahudo	Sapotaceae	Tree
72	Citrus Limon	Limbu	Rutaceae	Tree
73	Tarmindus indica	Amali	Caesalpinaceae	Tree
74	Mangifera indica	Mango tree	Anacardiaceae	Tree
75	Annonas quamosa	Sitafal	Annonaceae	Tree
76	Vallaris solanacea	Bread flower	Apocynaceae	Climber
77	Physalis peruvian	Cape gooseberry	Solanaceaae	Herb
78	Argyrelia speciosa	Samudra shaokha	Convolvulaceae	Climber
79	Monoon longifolia	Asopala	Annonaceae	Tree
80	Phoenix dactylifera	Khajuri	Arecaceae	Tree
81	Eucalyptus obliqua	Nilgiri	Myrtaceae Tree	
82	Phyllanthus reticulatus	Kamboi	Phyllanthaceae	Shrub
83	Holoptelea integrifolia	Kanaji	Ulmaceae	Tree
84	Jacaranda mimosifolia	Nili gulmohar	Bignoniaceae Tree	
85	Aloe Vera	Kuvarpathu	Asphodelaceae	Herb
86	Manilkara zapota	Chikoo	Sapotaceae	Tree
87	Alstonia scholaris	Saptparni	Apocynaceae	Tree
88	Aegle marmelos	Bili	Rutaceae	Tree
89	Ocimum basilicum	Damaro	Laminaceae	Herb
90	Celisia cristata	Kockscomb	Amaranthaceae	Shrub
91	Celisia spicata	Kanajaro	Amaranthaceae Shrub	
92	Cicer arietinum	Chana	Fabaceae Herb	
93	Justicia adhatoda	Ardusi	Acanthaceae	Shrub
94	Citrus reticulata	Mandarin orange	Rutaceae	Tree
95	Tinospora cordifolia	Galo	Menispermaceae Climbe	
	Tillospora cordiiolia		Wichispermaceae	
96	Aburus precatorius	Chanothi	Fabaceae	Climber

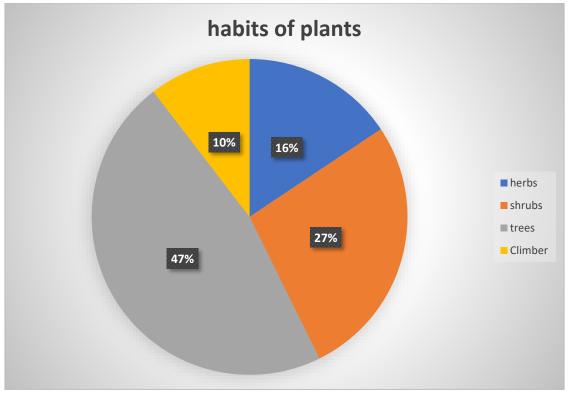
A total 96 Angiosperm plants belonging to 46 families documented from the study area. Most dominant plant family were fabaceae with 11 species, followed by Rutaceae (5 Species); myrtaceae, euphorbiaceae, moraceae, solanaceaae, asteraceae (4 Species); saesalpinaceae, malvaceae, bignoniaceae, annonaceae, apocynaceae, laminaceae, sapotaceae (3 species); santalaceae, anacardiaceae, acanthaceae, asclepiadaceae, combretaceae, piperaceae, amaranthaceae (2 species); putranjivaceae, poaceae, mimosacea, cariaceae, araceae, lythraceae, cuscutaceae, oleaceae, punicaceae, crassulaceae, boraginaceae, phyllanthaceae, ulmaceae, sapindaceae, rubiaceae, polygonaceae, rhamnaceae, simaroubaceae, asparagaceae, verbenaceae, convolvulaceae, arecaceae, asphodelaceae, menispermaceae etc and single species of remaining families.

In which 15 hearbs, 25 shrubs, 45 trees, and 10 climbers species has been observed.

Figure -1. Habits of plants.

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### **MEDICINAL PLANTS:**

There are all Angiosperm plants have been some medicinal properties and they are used medicinally but some angiospermic plants have more quantity of medicinal properties and are mostlly used as medicinal plant are below (table 2)

Table - 2. Check list of Medicinal plants out of 96 Angiosperm plants

Sr. No	Scientific Name	Common Name	Family	Useful part	Helpful of disease
1	Tabernaemonta na divaricata	Tagar	Apocynaceae	Roots, leaves, flowers	Eye disorder, headache, hypertensi on, migration.
2	Pleurolobus gangeticus	Shalparni	Fabaceae	Panchan g, root, bark	Asthama, diabetes, edema
3	Phyllanthus emblica	Amla	Euphorbiaceae	Fruit, seeds	Arthritis, bleeding disorder, cancer, diabetes, liver disorders
4	Bauhinia variegata	Kachnar	Fabaceae	Bark, roots,	Diabetes, hypertension, immunomodulatory
5	Butea monospermacea e	Kesudo	Fabaceae	Flowers	Dysentery, astringent, remove blood impurities
6	Sesbania grandiflora	Agathiyo	Fabaceae	Bark, leaves, flowers	Enteric fever
7	Calotropis procera	Ankdo	Asclepiadaceae	Roots, leaves, flowers	Pumps, burn injuries, body pain, antidote for snake bite.
8	Leptadeni articulate	Jeevanti	Asclepiadaceae	Roots, shoot tip, leaves	Tuberculosis, cough, fever, cancer , leucoma







9	Withania somnifera	Ashvagandh a	Solanaceaae	Roots, leaves	Leucoderma, Constipation, insomnia, stimulant, diuretic
10	Solanumtorvum swartz	Ubhi ringani	Solanaceaae	Berries, seeds	Anti-inflammatory, antiarthritic and hormonal.
11	Physalis peruvian	Cape gooseberry	Solanaceaae	Leaves, berries	Diabetes, mellitus
12	Solanum virginium	Bhoy ringani	Solanaceaae	Fruit, roots	Jaundice, cough, asthma, swelling
13	Piper amalago	Pepper elder	Piperaceae	Leaves, roots, stem	Arthritis, cholera, constipation
14	Piper betle	Nagar vel	Piperaceae	Leaves	Cancer, breath freshener
15	Justicia adhatoda	Ardusi	Acanthaceae	Leaves	Cough, cold, asthma
16	Barleria prionitis	Vajradanti	Acanthaceae	Whole plant	Fever, jaundice, toothache
17	Santalum album	Chandan	Santalaceae	Bark, wood	Anti inflammatory, skin care
18	Putranjiva roxburghii	Putranjiva	Putranjivaceae	Leaves, stem, seeds	Burning sensation, infertility, skin disorders
19	Carissa carandas	Karamda	Apocynaceae	Root, fruit, leaves	Diarrhoea, anorexia,skin, disease
20	Coleus aromaticus	Ajama pan	Laminaceae	Leaves	Gastric problems, digestive, cough, liver disorders.
21	Scindap officinalis	Gaj pipper	Araceae	Bark, oil	Pruritus, adentitis, malaria,
22	Lagerstroemia speciosa	Jarul	Lythraceae	Whole plant	Narcotics, fever, apathy of the mouth
23	Vitex negundo	Nirgundi	Laminaceae	Whole plant	Motility of sperm, polycystic overy disease
24	Jatropha currcas	Ratan jyot	Euphorbiaceae	Whole plant	Toothache, fever,joundice, malaria
25	Cuscuta reflexa	Amar vel	Cuscutaceae	Whole plant	Jaundice, myalgia, bronchitis, strangury
26	Bryophyllum calycinum	Parn phuti	Apocynaceae	Leaves	Vomiting of blood, menorrhagia, diarrhoea
27	Helicteres isora	Marorphali	Malvaceae	Root, bark, fruit	Diarrhoea, scabies, snake bite
28	Thespesia populnea	Paras pipal	Malvaceae	Bark	Antifertility, antibacterial
29	Neolamarckia cadamba	Kadamb	Rubiaceae	Flowers	Anaemia, blood purifier, diuretic
30	Santalum album	Swet chandan	Santalaceae	Bark, stem	Bronchitis, sore mouth and throat.
31	Asparagus racemosus	Satavari	Asparagaceae	Roots	Hormone imbalance, infertility

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32	Citrus Limon	Limbu	Rutaceae	Flowers, fruit	Support immune system, high blood pressure, chest pain
33	Argyrelia speciosa	Samudra shaokha	Convolvulacea e	Roots, leaves, fruit, seeds	Ulcer, anorexia, skin disease, anemia, diabetes, tuberculosis.
34	Aloe Vera	Kuvarpathu	Asphodelaceae	Leaves	Eye affections and internally in piles, skin disorders, burning sensation
35	Alangium salviifolium	Ankol	Cornaceae	Whole plant	Diabetes, dog bite, gonorrhoea, rheumatism
36	Tinospora cordifolia	Galo	Menispermace ae	Stem, roots	Malarial fever, diabetes, skin disease, animia, cough, asthma
37	Aburus precatorius	Chanothi	Fabaceae	Roots, leaves, seeds	Nervous debility, alopecia, sciatict, stiff joints, paralysis

Out of 96 Angiosperm plants belonging to 46 families, in which 38 medicinal plants belonging to 23 families shown in the above table 4.4, and different plant parts are used in medicine like leaves, stem, roots, flowers, fruits, seeds, bark, shoot tip, wood, and whole plant.All plants species are used in different human disease like cough, fever cancer, leucoma, eye disorder, headache, ulcer, blood purifier, High blood pressure, migration, diabetes, burning sensation, skin disorder, bronchitis, jaundice, snake bite, hormonal balance, dog bite, body pain etc.

### CONCLUSION

The Grambharti (Amrapur) village is rich in Angiosperm medicinal plants, and villagers and farmers are dependent on them for their primary health care. It is important to protect and conserve these plants, as they are essential for human life and herbal medicine. It is also important to document and preserve this knowledge for future generations. The village is well developed to protect and conserve the plants through local people.

### REFERENCES

- 1) Verma, B. K. (2011). Introduction to taxonomy of angiosperms. Phi Learning Pvt. Ltd..
- 2) Keya, M. A., & Rahman, A. H. M. M. (2017). Angiosperm diversity at the Village Sabgram of Bogra, Bangladesh with emphasis on medicinal plants. American Journal of Plant Biology, 2(1), 25-34.
- 3) Patel, Y. S., Joshi, E. P., & Joshi, P. N. (2010). 1. ETHNOBOTANICAL STUDY OF TAPKESHWARI HILL, BHUJ, KACHCHH, INDIA BY YS PATEL, EP JOSHI\* AND PN JOSHI. Life sciences Leaflets, 2, 22-to.
- 4) Kumar, V., Babu, S., Revale, A. K., Meena, R. K., Ranjan, M. K., & Desai, B. S. (2014). Cultivation of medicinal plants in natural ecosystem in Gujarat (India): constraints and conservation need. Journal of Plant Development Sciences, 6(3), 425-435.
- 5) Jadeja, B. A., Odedra, N. K., Mori, H. N., & Bhatt, D. C. (2006). Medicinal plants of Gujarat used in Gout. J. Econ. Taxon. Bot, 30, 225-232.
- 6) Book- Compendium of Medicinal plants, 2004 by Dr. R. P. S. Ahlawat.