

# Angiospermic Plants Used Medicinally, By Local People of Vijapur Taluka of Mehsana District, Gujarat, India

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# ABSTRACT

Angiosperms plants are the largest group in the world. There are 2,50,000 plant species belonging 12,000 genera and 300 families. In India, there are 45,000 plant species and in Gujarat there are 2198 plant spices belonging 902 genera and 155 families. In total angiosperm plant species, India has 15,000 flowering plants belonging 315 families and 2250 genera. Mandali village is situated in Vijapur taluka in Mehsana district of Gujarat State. It is situated between 20°00' to 24°00' N latitude and 68°00' E to 74°00' E longitude. It is full of natural beauty. Mandali is located 31 kms away from Mehsana and 18 kms away from the Vijapur and Vadnagar talukas. The botanical names are arranged according to the classification system of Bentham and Hooker. The Vernacular names, family's names and uses of different parts of the plants were reported. Plants were identified by using the standard books. Various field trips were done in the month August, 2009. From them there are 31 dicotyledonous families and 2 monocotyledonous families are observed. Total 61 angiosperm plant species are documented by various photographs during different field trips. Medicinally and Economically useful plants noted during this paper preparation. Present research work confined to medicinal uses which is used for the various diseases. The present paper deals with total 38 angiospermic plant species belonging to 36 genera and 28 families, which are useful as various herbal drugs. Among them 9 tree species, 1 small tree species, 7 shrubs species, 17 herbs species and 4 climbers. Some important species like Brassica juncea (l.) Czern. & Coss. ,Aegle marmelos (l.) Corr., Azadirachta indica A.Juss., Acacia nilotica (l.) Del. Sub Sp. Indica (Bth.), Prosopis cineraria (l.) Druce., Calotropis procera (Ait.) R. Br. Diospyros cordifolia Roxb. Tecomella undulate (Sw) Seem, Adhatoda vasica (l.) Nees, Ocimum sanctum L., Breynia retusa (Denust.) ALST., Ricinus commnis L., Allium cepa L. are successfully grown in this village. Various field trips were done in the month August, 2009-2010. The botanical names are arranged according to classification system of Bentham and Hooker. Keywords : Medicinal Plants , Vijapur Taluka , Mehsana District , Field Trips .

## I. INTRODUCTION

Vijapur is situated in Mehsana district of Gujarat State. It is situated 23 to 24 N and latitude 72 to 45 E longitude. Total Area of the Taluka is 652091 hectors. There are 73 Villages in this taluka. Angiosperms are the largest group in the Plant Kingdom in the world. There are 2,50,000 plant spices, 12,000 genera and 300 families in the World while India has 45,000 plant species and Gujarat has 2198 plant spices, 902 genera and 155 families. Rural people of Vijapur taluka use to treat their aliments by using these fresh plant materials . Wheat , Bajra, Cotton , Cumin ,Cicer , Divela, Magfali , Raydo, Tobacco, Variyali and Kobij , Batata , Fulavar, Ringan and Marchi are the main vegetables reported from this Taluka . total population of taluka is 238648 from them 123975 male and 114673 female are seen . From them some elders have good knowledge of herbal medicines , they use to treat their aliments by using these fresh plant materials are the main crops and Kobij, Batata, Fulavar, Ringan and Marchi are the main vegetables reported from this Taluka.

### Study Area:



Figure 1. Maheshana Map

### **II. METHODOLOGY**

Such regions were frequently visited, to collect the information about the medicinal plant species. During the exploration we discussed with elders of various and collected information the by questioneries and interviews. We tried to conformed their identity by putting couple of questions related to their habit, habitat etc. This is the original and ancient knowledge, which was not documented systematically earlier. We have been incorporaterd the detail of informators of

Vijapur taluka and their photograph. Generally different field trips have been arranged and collected data with good photographs. For Convenience, the botanical names are arranged according to the classification system of Bentham and Hooker. The Vernacular names, family's names of the plants were reported. Plants were identified by using the Flora of Gujarat State (SHAH,1978) and the Flora of Presidency of the Bombay (Cooke, 1908) and other Standard books. Trip have been made for 5 days (13 August, 2009 to 17 August, 2009) to collect the botanical data..For Convenience, the botanical names are arranged according to the classification system of Bentham And Hooker. The Vernacular names, family's names of the plants were reported. Plants were identified by using the Flora of Gujarat state (Shah, 1978) and the Flora of Presidency of the Bombay (Cooke, 1908) and other standard books, under the Guidance of Dr. R.S. Patel and Dr. K.V. Kanjariya.

### **ENUMERATIONS:**

All the collected plant specimens were arranged accordingly to the Bentham and Hooker's system of angiospermic classification described in Gujarat Flora by Shah (1978) and cooke (1958).

Table 1. Check list of different plant species, local names , habit , useful parts , medicinal uses etc.

F.	G.	BOTANICAL NAME	LOCAL	HABIT	USEFUL	MEDICINAL
			NAME		PARTS	USES
1		MENISPERMACEAE				
	1	Tinospora cordifolia	Galo	Climber	Stem	Diabetes, Fever
		(wild) Mlers				
2		PAPAVARACEAE				
	2	Argemone mexicana L.	Darudi	Herb	Whole plant	Skin diseases
3		BRASSICACEAE				
	3	Brassica juncea (L.)	Rai	Herb	Seeds	Rheumatism
		Czem & Coss.				
	4	Lepldium sativum L.	Aselio	Herb	Leaves	Antiscorbutic
	5	Raphanus sativus L.	Mulo	Herb	Roots	Piles

4		MALVACEAE				
	6	Abutilon indicum (l.) Sw.	Kanski(khapat)	Herb	Leaves	Boils
5		RUTACEAE				
	7	Aegle marmelos (L.)	Bili	Tree	Fruits	Dysentry
		Corr.				
6		SIMAROUACEAE				
	8	Ailanthus excelsa Roxb.	Arduso	Tree	Bark	Skin diseases
7		BALANTIACEAE				
	9	Balanites aegyptiaca(L.)	Ingorio	Shrub	Fruits	Purgative
		DEL.				
8		MALIACEAE				
	10	Azadirachta indica A.	Limdo	Tree	Bark and	Fever and
		Juss.			leaves	Anticeptic
9		CELASTRACEAE				
	11	Maytenus emarginata	Viklo	Shrub	Leaves	Jaundice
		(Wild) D. Hou.				
10		RHAMNACEAE				
	12	Zizyphus mauritiana	Bordi	Shrub	Bark	Ulcers
		Lam.				
	13	Zizyphus xylopyra	Ghatbor	Tree	Leaves	Abdomen pain
		(Retz.) wild				
11		ANACARDIACEAE				
	14	Manifera indica L.	Ambo	Tree	Bark	Diarrhea
12		LEGUMINOSEAE				
		FABACEAE				
	15	Abrus precatorius L.	Chanothi	Climbers	Leaves	Mouth ulcers
	16	Butea monosperma	Kesudo	Tree	Flowers	Skin diseases
		(Lam.) Taub.				
	17	Mucuna prurita HK. f.	Kuvech	Climbers	Seeds	Tonic
13		CAESALPINIACEAE				
	18	Caesalpinia bonduc (l.)	Kskchiyo	Shrub	Whole plant	Fever
		Roxb.				
	19	Cassia auriculata L.	Aval	Herb	Leaves	Piles
14		MIMOSACEAE				
	20	Acacia nilotica (l.) Del.	Baval	Tree	Bark	Skin diseases
		Sub. Sp.Indica(Bth)				
15		CUCURBITACEAE				
	21	Momordica charantia L.	Karela	Climber	Fruits	Blood diseases
16		APIACEAE				
	22	Coriandrum sativum L.	Kothmir	Herb	Leaves	Tonic
			(dhana)			

17		ASTERACEAE				
	23	Tridax procumbens L.	Pardesi bhangaro	Herb	Leaves	Skin diseases
18		SAPOTACEAE				
	24	Madhuca indica J. F.	Mahudo	Tree	Flowers	Chest diseases
19		FRENACEAE				
17	25	Diospyros cordifolia	Makrodo	Small tree	Fruits	Foot cracks
		Roxb.				
20		ASCLEPIADACEAE				
	26	Calotropis procera (al.) R. Br.	Akdo	Shrub	Stem	Malaria
21		SOLANACEAE				
	27	Solanum surattense Brum. F.	Bhoy ringani	Herb	Fruits	Toothache
	28	Withania somnifera (l.) Dunai	Ashvagandha	Herb	Roots	Tonic
22		BIGNONACEAE				
	29	Tecomella undulata (Sw.)	Rohido	Tree	Flowers	Sun stroke
		Seem.	(roydo)			
23		ACANTHACEAE				
	30	Adhatoda vasica (L.) Nees	Ardusi	Herb	Leaves	Cough and Fever
	31	Barleria pnonitis L.	Kantaselio	Herb	Whole plant	Lung diseases
24		LAMIACEAE				
	32	Ocimum sanctum L.	Tulsi	Herb	Whole plant	Cough, Fever
25		NYCTAGINACEAE				
	33	Boerhavia verticillata L.	Satodi	Herb	Leaves	Urinary
26		CHENOPODIACEAE				problems
20	34	Chenopodium album L.	Chil	Herb	Whole plant	Laxative
27		EUPHORBIACEAE				
	35	Breynia retusa (Dennst.)	Kamboi	Shrub	Stem	Inflammation
		Aist				
	36	Ricinus commnis L.	Arandi	Shrub	Leaves,Seed	Swelling,
						Purgative
28		LILIACEAE				
	37	Allium cepa L.	Dungli	Herb	Bulbs	Stimulant
	38	Allium sativum L.	Lasan	Herb	Bulbs	Leucoderma

### **III. RESULTS AND DISCUSSION**

About 38 selected plant species were arranged according to the Bentham and Hooker's system of classification described in Gujarat Flora by Shah (1978) and Cooke (1958) valid scientific name, local name ,Family name and Medicinal uses are described with organ are given in table no. 1., is shown valid scientific name, local name ,Family name and Medicinal uses are described with organs. Table 1 is shown different habit , ratio of the wild and cultivated species .

Total Plates 1 to 3 having total 36 different species photos are attached here with.

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# Figure 1Figure 2Figure 3Figure 4Figure 5Figure 6Figure 7Figure 7Figure 9Figure 10Figure 11Figure 12

### Plate 1

Plate 2

Figure 13	Figure 14	Figure 15	Figure 16
Figure 17	Figure 18	Figure 19	Figure 20
Figure 21	Figure 22	Figure 23	Figure 24

Figure 26	Figure 27	Figure 28	Figure 29
Figure 30	Figure 31	Figure 32	Figure 33
Figure 34	Figure 35	Figure 36	Figure 37

Plate 3