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Study of Herbs Plant of Borsad Tatuka (Gujarat) India.

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ABSTRACT

In the present paper attempt is made to study the herbs plant of borsad and surrounding area the present work is based on the result of two year. All-embracing study of the plant of this area. The present paper compacts with total 201 species belonging to 56 families which are a listed along with their botanical names, families, local name. 201 plants collected and systematically observed during present work, in which 150 species belonging to class dicotyledon and 50 species belonging to class monocotyledons. one is from pteridophyte Total 56 families are perceived. Out of those 41 families are dicotyledon and 15 families is monocotyledons 01 is pteridophyte. The dominant families Malvaceae, Fabaceae, Solanaceae, Asteraceae, Lamiaceae, Amaranthaceae, Euphorbiaceae, Poaceae. Herb plants Used by villagers for different purpose in Borsad.

Keywords: herbs Plants, Borsad taluka.

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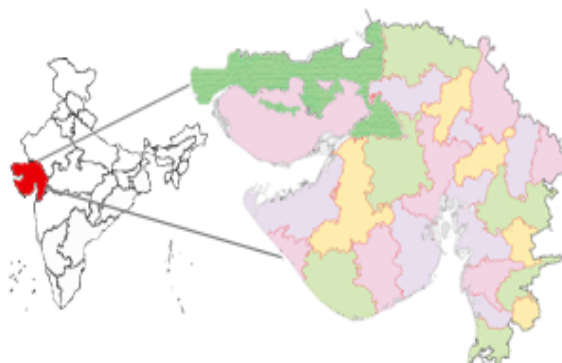
INTRODUCTION

Borsad is located at 22°25'N 72°54'E / 22.42°N 72.9°E. It has an average elevation of 30 meters (98 feet). It is located around 17 km from Anand. Borsad is rich in biodiversity; present study was carried out during 2011-13. The present study deals with diversity of herbs plant in Borsad Taluka of Anand dist. There were many works carried in this district. In (1994) Joshi enumerated Khambhat Taluka for his Ph.D. thesis on floristic, Phytosociological and ethno botanical study, Now days in Borsad. There were six lane road construction works also going on so this type of development activities there ascends great danger to the existing flora and which are likely to disappear. However same status may not remain now because of human activities interact of development, urbanization, industrialization consequently the present study was undertaken. Gujarat is proud of having her own state level flora. A good work was resulted out from Sardar Patel University of Vallabh Vidhyanagar in the form of Flora of Gujarat State by late professor G.L. Shah (Shah, 1975); which is the first state of flora of independent India. The Sardar Patel University, it remains a star publication. Floristic studies in Gujarat received focused attention since mid-nineteen century. The major compilation The flora of the Presidency of Bombay state. Was done by Cook (1901-1908). Plants of Northern Gujarat. Floristic study in Gujarat done by Cook (1901-1908). Number of research paper was published on the local flora of Gujarat. Patel N K (2001), Santapau and Janardhanan (1966), Sabnis (1967), Bedi (1968), Bhatt and Sabnis (1974), N.R. Mulia et al. (2010), R.S. Patel et al. (2010), A.R. Seliya et al. (2009), Flora of Gujarat is known by the contribution of several plants taxonomist Mac (1986) studied flora of Surat district reported 896 Sp. Joshi, (1983) made floristic and photochemical survey of South Gujarat forest, The floristic and ecological study of Bhavnagar and its surrounding. Pandit and Kotiwar (2002) enumerated 431 Sp. From the Gir forest ecosystem Gujarat. Contractor, G.J. (1986). Floristic, phytosociology and ethnobotanical study of Vapi and Umargaon area in South Gujarat, Vapi.

MATERIALS AND METHOD

Angiosperm was collected different seasons of the year especially summer, winter and rainy. Information of plant species were collected through personal interview with the head of the family in selected villages of Borsad Taluk, Anand district in Gujarat state. Plant species or location of specimen was collected from the person interviewed. Local name, is noted at the time of interview. The plant and parts of plant material of herbs was then pressed and made herbarium then identify by using Flora of Gujarat, Cook Flora, Bombay presidency. The plants were assigned to their relevant the plants prepared and documented

STUDY AREA



Borsad VillageMap



RESULT AND DISCUSSION

Table 1

NO	Botanical name	Family	Local name
1.	<i>Nelumbo nucifera</i> Gaertu. Syn. <i>Nelumbium speciosum</i> willd.	Nymphaeaceae.	Sacred Lotus, Kamla, Padma Kamal
2.	<i>Nymphaea lotus</i> L.	Nymphaeaceae.	Water Lily, Kamal, Poyana
3.	<i>Argemone Mexicana</i> L.	Papaveraceae	Maxican Poppy, Darudi
4.	<i>Brassica campestris</i> L. var <i>sarson</i>	Brassicaceae	Sarsu, Sarsav
5.	<i>Brassica juncea</i> H. T.	Brassicaceae	Mustard, Rai
6.	<i>Brassica oleracea</i> Var. <i>botrytis</i> L.	Brassicaceae	Fulevar
7.	<i>Brassica oleracea</i> Var. <i>capitata</i> -L.	Brassicaceae	Cabbage, Kobi
8.	<i>Lepidium sativum</i> L.	Brassicaceae	Aliv, Asalia
9.	<i>Raphanus caudatus</i> L.	Brassicaceae	Mogari
10.	<i>Raphanus sativus</i> L.	Brassicaceae	Radish, Mula
11.	<i>Cleome gynandra</i> L.	Capparidaceae	Gandhatu
12.	<i>Portulaca grandiflora</i> Brig.	Portulacaceae	China rose, Chini Gulab
13.	<i>Portulaca oleracea</i> P.	Portulacaceae	Ghol, Moti Luni ni Bhaji

14.	<i>Portulaca quadrifida</i> L.	Portulacaceae	Jini Luni ni Bhaji
15.	<i>Bergia suffruticosa</i> (Del.) Fenzl.	Elatinaceae	Lavariu
16.	<i>Althea rosea</i> Cav	Malvaceae	Gul kheru
17.	<i>Gossypium herbaceum</i> L.	Malvaceae	Kapas
18.	<i>Malachra capitata</i> L.	Malvaceae	Ran-Bhendi, Pardeshi bhindi
19.	<i>pentapetes phoenicea</i>	Malvaceae	Divet Plant
20.	<i>Sida cordata</i> (Burm.f.) Borss.	Malvaceae	Bhoyabala
21.	<i>Sida rhombifolia</i> Var. <i>ratusa</i> Mas.	Malvaceae	Ati Bala, Shahdevi
22.	<i>Sida spinosa</i> L.	Malvaceae	Gangete, Kantalobala
23.	<i>Corchorus aestuans</i> L.	Tiliaceae	Chunch
24.	<i>Triumfetta rotundifolia</i> Lam.	Tiliaceae	Gol Zipti
25.	<i>Corchorus capsularis</i> L.	Tiliaceae	Moti Chunch, Bor Chunchi
26.	<i>Tribulus terrestris</i> L.	Zygophyllaceae	Gokhru. Bethu Gokhru
27.	<i>Impatiens balsamina</i> L.	Balsaminaceae	Tanamanian, Takamaran
28.	<i>Abrus precatorius</i> L.	Fabaceae	Chanothi
29.	<i>Alysicarpus monilifer</i> (L.) DC.	Fabaceae	Nano Samervo
30.	<i>Archis hypogaea</i> L.	Fabaceae	Magfali
31.	<i>Cicer arietinum</i> L.	Fabaceae	Chana
32.	<i>Clitoria ternatea</i> L.	Fabaceae	Gokarn, Garni Bibri
33.	<i>Crotolaria medicaginea</i> Lam.	Fabaceae	Ran methi, Jangli Methi
34.	<i>Cyamopsis psoralioides</i> D.C.	Fabaceae	Gavar
35.	<i>Indigofera linnari</i> Ali.	Fabaceae	Bhonygali
36.	<i>Phaseolus vulgaris</i> L.	Fabaceae	Fansi
37.	<i>Rhynchosia minima</i> (L.) DC.	Fabaceae	Kamal Vel
38.	<i>Tigonella foenum-graecum</i> L.	Fabaceae	Methi
39.	<i>Vigna aconitifolia</i> (Jacq.) Marechal	Fabaceae	Math
40.	<i>Vigna angularis</i> (Willd.) Ohwi.	Fabaceae	Mag
41.	<i>Vigna radiate</i> (L.) Wilczek.	Fabaceae	Adad
42.	<i>Vigna unguiculata</i> (L.) Walp.	Fabaceae	Choli
43.	<i>Cassia obtusifolia</i> L.	Caesalpiniaceae	Punvadio
44.	<i>Cassia tora</i> L.	Caesalpiniaceae	Kunvadiyo, Povadiyo
45.	<i>Neptunia oleracea</i> Lour.	Mimosaceae	Jallajamni, Lajalu
46.	<i>Bryophyllum calycinum</i> Salib.	Crassulaceae	Panfuti
47.	<i>Kalanchoe floribunda</i> W. & A.	Crassulaceae	Patthar Chata
48.	<i>Ammannia baccifera</i> L.	Lythraceae	Jal Agio
49.	<i>Trapa bispinosa</i> Roxb.	Onagraceae	Singoda
50.	<i>Cucumis callosus</i> (Rottl.) Cogn. Ex cogn. & Harms	Cucurbitaceae	Kothimdu
51.	<i>Cucumis sativus</i> L.	Cucurbitaceae	Kakdi
52.	<i>Momordica charantia</i> L.	Cucurbitaceae	Karela
53.	<i>Momordica dioica</i> Roxb.	Cucurbitaceae	Kankoda
54.	<i>Mukia maderaspatana</i> (L.) M.Roem.	Cucurbitaceae	Chibhdi
55.	<i>Mollugo pentaphylla</i> L.	Molluginaceae	-

56.	<i>Trianthema portulacastrum</i> L.	Aizoaceae	Satodo
57.	<i>Anethum graveolens</i> L.	Apiaceae	Suwa
58.	<i>Centella asiatica</i> (L.) Urb.	Apiaceae	Bhrami
59.	<i>Coriandrum sativum</i> L.	Apiaceae	Dhana, Kothmir
60.	<i>Cuminum cyminum</i> L.	Apiaceae	Jiru
61.	<i>Daucus carota</i> L.	Apiaceae	Gajar
62.	<i>Forniculum vulgare</i> Mill.	Apiaceae	Valiari
63.	<i>Trachyspermum ammi</i> L.	Apiaceae	Ajamo
64.	<i>Oldenlandia corymbosa</i> L.	Rubiaceae	Parpat
65.	<i>Blumea erianpha</i> DC.	Asteraceae (Compositae)	Kapurio
66.	<i>Caesulia axillaris</i> Roxb.	Asteraceae (Compositae)	-
67.	<i>Cichorium intybus</i> L.	Asteraceae (Compositae)	Chikory
68.	<i>Eclipta prostrate</i> (L.) L. Mant.	Asteraceae (Compositae)	Bhangro
69.	<i>Erigeron asteroids</i> Roxb.	Asteraceae (Compositae)	Maredi
70.	<i>Launaea procumbens</i> (Roxb.) Ramayya & Rajagopal.	Asteraceae (Compositae)	Moti bhopatri
71.	<i>Launaea sarmntosa</i> (Willd.) Alst.	Asteraceae (Compositae)	Nani bhopatri
72.	<i>Sonchus oleraceus</i> L.	Asteraceae (Compositae)	Dudhali Sonki
73.	<i>Sphaeranthus indicus</i> L.	Asteraceae (Compositae)	Gorakh Mundi
74.	<i>Tagetes patula</i> L.	Asteraceae (Compositae)	Galgota, Hajarigota
75.	<i>Tridax pocumbens</i> L.	Asteraceae (Compositae)	Pardesi Bhangro
76.	<i>Vernonia cinerea</i> (L.) Less.	Asteraceae (Compositae)	Sahadevi
77.	<i>Xanthium strumarium</i> L.	Asteraceae (Compositae)	Gadariyu
78.	<i>Zinnia elegans</i> Jacq.	Asteraceae (Compositae)	Ziniya
79.	<i>Asclepias curassavica</i> L.	Asclepiadaceae	Kaka Tundi
80.	<i>Tylophora indica</i> (Burm.f.) Merril.	Asclepiadaceae	Damnivel
81.	<i>Canscora diffusa</i> (Vahl.) R.	Gentianaceae	Zink Kariyatu
82.	<i>Heliotropium indicum</i> L.	Boraginaceae	Hathi Sundha
83.	<i>Trichodesma amplexicaule</i> Roth.	Boraginaceae	Undha fuli
84.	<i>Convolvulus microphyllus</i> (Roth) Sieb.	Convolvulaceae	Sankhavali
85.	<i>Ipomoea aquatic</i> Forsk.	Convolvulaceae	Jal gamini, Nada ni bhaji, Nar ni vel
86.	<i>Ipomoea batatas</i> (L.)	Convolvulaceae	Shakkariya
87.	<i>Ipomoea obscura</i> (L.) Ker Gawl.	Convolvulaceae	Vad Fudardi
88.	<i>Ipomoea sinensis</i> (Desr.) Choisy.	Convolvulaceae	Dholi Fudardi
89.	<i>Capsicum annum</i> L. var. <i>acuminata</i>	Solanaceae	Marchi

90.	<i>Capsicum annum</i> L. var. <i>grossum</i> Sendt.	Solanaceae	Mota Vadhvani Marcha
91.	<i>Linderbergia muraria</i> (Roxb. ex D. Don.) P. Bruehl	Solanaceae	Patharchati
92.	<i>Lycopersicum lycopersicum</i> (L.) Karst.	Solanaceae	Tomato, Tameta
93.	<i>Nicotiana tabacum</i> L.	Solanaceae	Tobacco, Tambaku
94.	<i>Petunia violacea</i> Lindl.	Solanaceae	Violate petuna
95.	<i>Physalis longifolia</i> Nutt.	Solanaceae	Moti Popti
96.	<i>Physalis minima</i> L.	Solanaceae	Popti, Parpopti
97.	<i>Solanum nigrum</i> L.	Solanaceae	Piludi
98.	<i>Solanum surattense</i> Burm.f.	Solanaceae	Bhoy Ringni
99.	<i>Solanum tuberosum</i> L.	Solanaceae	Potato, Batata
100.	<i>Bacopa monnieri</i> (L.) Pennell.	Scrophulariaceae	Bam, Jalnaveri
101.	<i>Orbanche aegyptica</i> Pers.	Orbanchaceae	Vakvmbha, Makar
102.	<i>Utricularia inflexa</i> Forsk.	Lentibulariaceae	Utricularia
103.	<i>Pedaliium murex</i> L.	Pedaliaceae	Ubhu Gokharu
104.	<i>Sesamum indicum</i> L.	Pedaliaceae	Til, Tal
105.	<i>Martynia annua</i> L.	Martyniaceae.	Vichhudo
106.	<i>Andrographis echioides</i> (L.) Ness.	Acanthaceae	Kariyatu
107.	<i>Dipteracanthus prostrates</i> (Poir.) Nees.	Acanthaceae	Kali Ghavani
108.	<i>Hygrophila auriculata</i> (schum.) Heine.	Acanthaceae	Kanta Shelio, Akhro
109.	<i>Justicia procumbens</i> L.	Acanthaceae	Khadsalio, Pitapapdo
110.	<i>Peristrophe bicalyculata</i> (Retz.) Nees.	Acanthaceae	Lisi adhedhi, Adhedhi
111.	<i>Ruellia tuberosa</i> L.	Acanthaceae	Fatakdi
112.	<i>Coleus forskohlii</i> (poir.) Briq.	Lamiaceae (Labiartae)	Garmal
113.	<i>Lavandula bipinnata</i> (Roth.) O. Ktze.	Lamiaceae (Labiartae)	-
114.	<i>Leucas aspera</i> Spreng.	Lamiaceae (Labiartae)	Kubo
115.	<i>Mentha spicata</i> L.	Lamiaceae (Labiartae)	Fudino
116.	<i>Moschosma polystachyum</i> (L.) Bth.	Lamiaceae (Labiartae)	Abchi-bavchi
117.	<i>Ocimum basilicum</i> L.	Lamiaceae (Labiartae)	Damro
118.	<i>Ocimum americanum</i> L.	Lamiaceae (Labiartae)	Ran Tulsi
119.	<i>Ocimum sanctum</i> L.	Lamiaceae (Labiartae)	Tulsi
120.	<i>Plantago ovate</i> Forsk. Fl.	Plantaginaceae	Isabgol
121.	<i>Boerhaavia chinensis</i> (L.) Bruce.	Nyctaginaceae	Satodo
122.	<i>Boerhaavia diffusa</i> L.	Nyctaginaceae	Satodi
123.	<i>Mirabilis jalapa</i> L.	Nyctaginaceae	Four O'clock plant, Gulbas
124.	<i>Achyranthus aspera</i> L.	Amaranthaceae	Anghedo
125.	<i>Aerva lanata</i> (L.) Juss.	Amaranthaceae	Gorakhdi
126.	<i>Alternanthera ficoidea</i> (L.) R. Br.	Amaranthaceae	-
127.	<i>Amaranthus hybridus</i> L.	Amaranthaceae	Rajagro
128.	<i>Amaranthus lividus</i> L.	Amaranthaceae	Tandaljo
129.	<i>Amaranthus spinosus</i> L.	Amaranthaceae	Kantali Bhaji
130.	<i>Amaranthus tricolor</i> L.	Amaranthaceae	-
131.	<i>Amaranthus viridis</i> L.	Amaranthaceae	Rato tadaljo, Rati Bhaji

132.	<i>Celosia argentea</i> L.	Amaranthaceae	Lampdi, Lambdi
133.	<i>Digera muricata</i> (L.) Mart.	Amaranthaceae	Kanjro
134.	<i>Artiplex stocksii</i> (Wt.) Boiss.	Chenopodiaceae	Tanko, Khati palakh
135.	<i>Beta vulgaris</i> L.	Chenopodiaceae	Beet
136.	<i>Chenopodium album</i> L.	Chenopodiaceae	Chil ni Bhaji
137.	<i>Chenopodium murale</i> L.	Chenopodiaceae	Bilaro
138.	<i>Spinacia oleracea</i> L.	Chenopodiaceae	Palakh ni Bhaji
139.	<i>Suaeda fruticosa</i> (L.) Forsk. Fl.	Chenopodiaceae	Khari luni ni bhaji.
140.	<i>Polygonum glabrum</i> Willd.	Polygonaceae	-
141.	<i>Polygonum plebeium</i> R.Br.Prodr.	Polygonaceae	-
142.	<i>Aristolochia bracteolate</i> Lam.	Aristolochiaceae	Kidamari
143.	<i>Acalypha indica</i> L.	Euphorbiaceae	Indian Acalypha, Venchhi Kanto
144.	<i>Acalypha wilkesiana</i>	Euphorbiaceae	-
145.	<i>Croton bonplandianum</i> Baill.	Euphorbiaceae	Croton
146.	<i>Euphorbia tirucalli</i> L.	Euphorbiaceae	Kharsani
147.	<i>Euphorbia geniculata</i> Ort.	Euphorbiaceae	-
148.	<i>Euphorbia hirta</i> L.	Euphorbiaceae	Nagli Dudheli, Rati Dudheli
149.	<i>Euphorbia prostrate</i> Ait.	Euphorbiaceae	-
150.	<i>Phyllanthus niruri</i> L.	Euphorbiaceae	Bhoy Amli
151.	<i>Hydrilla vericillata</i> Presl.	Hydrocharitaceae	Bam
152.	<i>Curcuma amada</i> Roxb.	Zingiberaceae	Amba haldar
153.	<i>Curcuma longa</i> L.	Zingiberaceae	Haldar
154.	<i>Zingiber officinale</i> Roscoe.	Zingiberaceae	Aadu
155.	<i>Musa paradisiaca</i> L.	Musaceae	Banana, Kel
156.	<i>Heliconia bihai</i> L.	Heliconiaceae	Bird of paradise
157.	<i>Canna indica</i> L.	Cannaceae	Indian shot, Dev-keli, Bajar Battu
158.	<i>Crinum asiaticum</i> L.	Amaryllidaceae	Nag daman, Sukh Darshan
159.	<i>Pancratium triflorum</i> Roxb.	Amaryllidaceae	Garden Lily
160.	<i>Agave americana</i> L.	Agavaceae	Century Plant, Ramban
161.	<i>Sansevieria thyrsoflora</i> Thunb.	Agavaceae	Sarpolian
162.	<i>Allium cepa</i> L.	Liliaceae	Onion, Dungli
163.	<i>Allium sativum</i> L.	Liliaceae	Garlic, Lasan
164.	<i>Aloe vera</i> L.	Liliaceae	True Aloe, Kunvarpathu
165.	<i>Dracena deremensis</i> Angler	Liliaceae	-
166.	<i>Eichhornia crassipes</i> Solms.	Pontederiaceae	Water Hyacinth, Jal Kumbhi, Kanphuti
167.	<i>Commelina benghalensis</i> L.	Commelinaceae	Motu Shishmuliyu
168.	<i>Commelina diffusa</i> Burm. f.	Commelinaceae	Nanu Shishmuliyu
169.	<i>Cyanotis fasciculata</i> (Heyne ex Roth) Schult. f.	Commelinaceae	-
170.	<i>Rhoeo spathacea</i> (Sw.) Stearn.	Commelinaceae	-
171.	<i>Tradescantia discolor</i> L.	Commelinaceae	Kadak Bijli
172.	<i>Zebrina pendula</i> Schnitz.	Commelinaceae	-

173.	<i>Typha angustata</i> Bory & Chaub.	Typhaceae	Ghabajariyu
174.	<i>Amorphophallus campanulatus</i> (Roxb.) Bl.	Araceae	Suran
175.	<i>Colocasia antiquorum</i> Schott.	Araceae	Elephant's Ear, Alvi, Adukhara
176.	<i>Lemna gibba</i> L.	Lemnaceae	-
177.	<i>Cyperus bulbosus</i> Vahl.	Cyperaceae	-
178.	<i>Cyperus compressus</i> L.	Cyperaceae	-
179.	<i>Cyperus haspan</i> L.	Cyperaceae	-
180.	<i>Cyperus rotundus</i> L.	Cyperaceae	-
181.	<i>Fimbristylis complanata</i> (Retz.) Link.	Cyperaceae	-
182.	<i>Scirpus grossus</i> L. f. var. <i>kysoor</i> (Roxb.) Cl.	Cyperaceae	Kochar, Bid
183.	<i>Aristida abscesionis</i> L.	Poaceae (Gramineae)	Dabhalo, Lapdu
184.	<i>Cenchrus ciliaris</i> L.	Poaceae (Gramineae)	Jinu Dhamnu
185.	<i>Cymbopogon citrates</i> (DC.) Stapf.	Poaceae (Gramineae)	Lili Chah
186.	<i>Cynodon dactylon</i> Pers.	Poaceae (Gramineae)	Dharo, Darbh
187.	<i>Desmostachya bipinnata</i> (L.) Stapf.	Poaceae (Gramineae)	Dabh
188.	<i>Digitaria adscendens</i> (H.B. & K.) Henrard.	Poaceae (Gramineae)	Tarodiyu
189.	<i>Echinochloa colonum</i> (L.) Link.	Poaceae (Gramineae)	Samo
190.	<i>Echinochloa frumentacea</i> Link.	Poaceae (Gramineae)	Banti
191.	<i>Eragrostis ciliaris</i> (L.) R. Br.	Poaceae (Gramineae)	-
192.	<i>Eragrostis pilosa</i> (L.) P. Beauv. Ess.	Poaceae (Gramineae)	-
193.	<i>Oryza sativa</i> L.	Poaceae (Gramineae)	Rice, Dangar
194.	<i>Paspalum scrobiculatum</i> L.	Poaceae (Gramineae)	Kodri, Kodra
195.	<i>Pennisetum typhoides</i> (Burm f.) Stapf & Hubb.	Poaceae (Gramineae)	Bajri
196.	<i>Saccharum officinarum</i> L.	Poaceae (Gramineae)	Sugar Cane, Sherdi
197.	<i>Setaria tomentosa</i> (Roxb.) Kunth.	Poaceae (Gramineae)	Kutri, Chitku
198.	<i>Sorghum bicolor</i> L.	Poaceae (Gramineae)	Juwar, Jar
199.	<i>Triticum aestivum</i> L.	Poaceae (Gramineae)	Ghaun
200.	<i>Zea mays</i> L.	Poaceae (Gramineae)	Maize, Makai
201.	<i>Nephrolepis exaltara</i> (L.) Schott	Dryopteridaceae	Hansraj

The present study deals with 201 herbs plant species belonging to 59 families belong to 179 genera of flowering plants out of which dicotyledon contributed 151 plant species belonging to 114 genera and 41 families which is quite higher than that of Monocotyledons. The Monocotyledons contributes only 50 species belonging to 42 genera and 15 families leaving to poaceae are dominant represented in monocotyledon were Fabaceae dominant family in Dicotyledonous the habit approach revealed that total number of herbs 200 plant of angiosperm. one is from pteridophyta.

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