

Floristic Composition of Beer Jhunjhunu Conservation Reserve of Rajasthan, India

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ABSTRACT

All forests are islands of biodiversity, protecting a good number of plants and animal species. The present observation enumerates the floristic diversity of Beer Jhunjhunu Conservation Reserve of Jhunjhunu district of Rajasthan. A total of 440 plant species including 52 trees, 41 shrubs, 21 undershrubs 278 herbs and 48 climbers belonging to 78 families were recorded. Among these 344 and 95 species were dicots and monocots respectively and only one gymnosperm was recorded. Poaceae was the most dominant family of the area and followed by Fabaceae, Asteraceae and Cyperaceae.

Keywords: Conservation Reserve, flora, fauna, floristic diversity, endemic

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INTRODUCTION

India is one of the twelve mega bio-diversity countries of the world. Its unique geographical position led to diversity in climate, soil, flora and fauna. Though the geographical area cover of the country represents about 2.4% of the world's total landmass, it harbours a total of 47513 plant species representing as much as 11.4% of world flora (Singh and Dash, 2014). India is host to about 17,500 angiosperms, 64 gymnosperms 1100 pteridophytes, 2850 bryophytes, 6500 algae, 14500 fungi and 2000 lichens (Anonymous, 1999). This figure highlights the richness of flora of our country.

Rajasthan, the largest state in the country in terms of geographical area, is treasured with a wide range of physiographic and climatic conditions. It has unique rich diversity of plants with different habitats. Floristic diversity of Rajasthan has been reviewed and documented earlier by many workers (Bhandari, 1978; Shetty and Singh, 1987 – 93; Sharma, 2002; Tiagi and Aery, 2007). At the district level, flora of many districts such as Ganganagar (Dhillon and Bajwa, 1969); Jaipur (Sharma, 1974); Bhilwara

(Parmar and Singh, 1982); Banswara (Singh, 1983); Tonk (Shetty and Pandey, 1983); Pali (Pandey and Shetty, 1984); Alwar (Parmar, 1987); Churu (Singh et al., 1997) and Nagaur (Sharma and Aggarwal, 2008) etc. have also documented.

Jhunjhunu district, a part of Shekhawati region of the state is covering 5,928 sq km total geographic area. The district is poor in forest resources as the total area under forest including hills is reported to be 39,680 hectares, which is 6.65% of the total geographical area of the district. A lot of work has been done on the exploration of floristic diversity of different places of Rajasthan, but references for taxonomic description about district Jhunjhunu are less documented and understood (Bakshi, 1954; Nair 1956, 1961; Joshi, 1958). Therefore, the present study was designed to record the floristic composition of Beer Jhunjhunu Conservation Reserve of Rajasthan.

STUDY AREA

Jhunjhunu, the north-eastern fringe district of the Great Indian Desert has predominance of arid climate with uncertainty of rainfall and frequent occurrence of drought. Nonetheless, despite having extreme

climatic conditions, the Beer region of Jhunjhunu district is one of the most important in terms of biological diversity. It is a protected forest area situated in the east of Jhunjhunu city at the height above 320 meters from sea level. It is surrounded by village Desusar in the north; Samaspur in the south; Charanwas in the east and agriculture land adjoining the Jhunjhunu city in the west. The area is almost plain with a semi-arid climate. Temperature is very high in summer and may reach upto 48° C and in winter, it drops below freezing point. May and June are the hottest months. Average annual rainfall varies from 300-400 mm. Most of the rainfall is received during monsoon (July-September) period. After rains, the forest is luxuriant in vegetation and enriched with many medicinal, rare, endemic and threatened plants.

The area is famous for rich flora, wild animals, birds, natural surroundings and Baba Khetanath Ashram. A beautiful pond is situated behind the ashram which is known as feeding spot of migratory birds.

MATERIAL AND METHODS

In the present study, enumeration of floral diversity was emphasized during 2013 – 2015. A detailed field assessment was carried out to observe the diversity of plant species including tree, shrubs and herb species. To achieve this purpose intensive survey was carried out throughout the year. Plants were collected, documented and identified with the help of floristic literature. The enumerated plant species are arranged alphabetically by their botanical names, local name, family and habit. (Table 1)

RESULTS AND DISCUSSION

A total of 440 plant species belonging to 278 genera

Table 1:- Enumeration of floristic diversity in Beer Jhunjhunu Conservation Reserve.

Sl. No.	Botanical Name	Family	Monocot/Dicot	Local or Common Name
1	<i>Abrus precatorius</i> L.	Fabaceae	Dicot	Chirmi, Ratti
2	<i>Abutilon bidentatum</i> Hochst.	Malvaceae	Dicot	Kanghi
3	<i>Abutilon fruticosum</i> Guill. & Perr.	Malvaceae	Dicot	Imarti
4	<i>Abutilon indicum</i> (L.) Sweet	Malvaceae	Dicot	Kanghi
5	<i>Acacia catechu</i> (L.f.) Willd.	Fabaceae	Dicot	Khair
6	<i>Acacia jacquemontii</i> Benth.	Fabaceae	Dicot	Kinkar

and 78 families were identified and recorded from the study area. Among these 344 dicot species, 95 monocot species and one gymnosperm were recorded. Herbs were the most dominant plant form in the study area represented by 278 species. It was followed by trees (52 species), climbers (48 species), shrubs (41 species) and undershrubs (21 species). (Fig. 1)

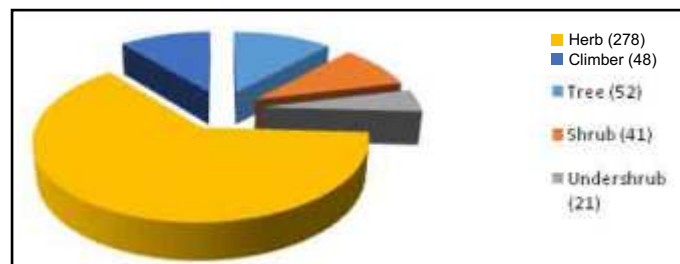


Figure 1: Distribution of Plant Habits in the present study

Poaceae was the most dominant family with 61 species from the area. It was followed by Fabaceae (58 species), Asteraceae (36 species), Cyperaceae & Amaranthaceae (18 species each), Convolvulaceae (17 species), Cucurbitaceae (15 species), Euphorbiaceae (14 species), Acanthaceae (13 species) and Asclepiadaceae (11 species). In the present investigation, the ratio of the total number of genera to species is 1:1.6, which is low in comparison to a corresponding ratio for whole of India (1:7), but it is more or less in conformity with this ratio for the Gangetic plain region 1:2.2 (Hooker, 1908); that of Delhi state 1:1.63 (Maheshwari, 1963); Western Rajasthan 1:1.9 (Bhandari, 1978) and North Eastern Rajasthan 1:1.8 (Sharma and Tiagi, 1979). It is also interesting to note that the percentage occurrence of the genera (80.22%) and species (78.18) of dicotyledons is more or less identical. This similarity is also evident in the monocotyledonous genera (19.42%) and species (21.59%). (Table 2).

7	<i>Acacia leucophloea</i> (Roxb.) Willd.	Fabaceae	Dicot	Rhonjh
8	<i>Acacia nilotica</i> (L.) Willd.	Fabaceae	Dicot	Babool
9	<i>Acacia senegal</i> (L.) Willd.	Fabaceae	Dicot	Kumta
10	<i>Acacia tortilis</i> (Forssk.) Hayne	Fabaceae	Dicot	Israeli babool, Umbrella thorn
11	<i>Acalypha indica</i> L.	Euphorbiaceae	Dicot	Kuppi
12	<i>Acanthospermum hispidum</i> DC.	Asteraceae	Dicot	Kanti
13	<i>Achyranthes aspera</i> L.	Amaranthaceae	Dicot	Latjira, Andhi Jhara
14	<i>Adhatoda vasica</i> Nees	Acanthaceae	Dicot	Adua
15	<i>Aegle marmelos</i> (L.) Corr.	Rutaceae	Dicot	Bel/Bil patar
16	<i>Aerva lanata</i> (L.) Juss. ex Schult.	Amaranthaceae	Dicot	Kali Bui
17	<i>Aerva persica</i> (Burm.f.) Merrill	Amaranthaceae	Dicot	Bui
18	<i>Aerva pseudotomentosa</i> Forssk.	Amaranthaceae	Dicot	Bui
19	<i>Agave americana</i> L.	Agavaceae	Monocot	Rambans
20	<i>Agave cantala</i> Roxb.	Agavaceae	Monocot	Rambans
21	<i>Ageratum conyzoides</i> L.	Asteraceae	Dicot	Bhakumar
22	<i>Ailanthus excelsa</i> Roxb.	Simaroubaceae	Dicot	Ardu
23	<i>Albizia lebeck</i> (L.) Benth.	Fabaceae	Dicot	Siris
24	<i>Albizia procera</i> (Roxb.) Benth.	Fabaceae	Dicot	White siris
25	<i>Aloe vera</i> L.	Liliaceae	Monocot	Gwarpatha
26	<i>Alstonia scholaris</i> (L.) R.Br.	Apocyanaceae	Dicot	Saptarni
27	<i>Alternanthera sessilis</i> (L.) DC.	Amaranthaceae	Dicot	Bhaji
28	<i>Alternanthera bettzickiana</i> (Reg.) Nicol.	Amaranthaceae	Dicot	Lal Bhaji
29	<i>Alysicarpus monilifer</i> (L.) DC.	Fabaceae	Dicot	Gumal
30	<i>Alysicarpus tetragonolobus</i> Edgew.	Fabaceae	Dicot	Jalpati
31	<i>Alysicarpus vaginalis</i> (L.)DC	Fabaceae	Dicot	Neel
32	<i>Amaranthus blitum</i> L.	Amaranthaceae	Dicot	Shandalio
33	<i>Amaranthus graecizans</i> L.	Amaranthaceae	Dicot	Lal chaulai
34	<i>Amaranthus hybridus</i> L.	Amaranthaceae	Dicot	Poncha
35	<i>Amaranthus spinosus</i> L.	Amaranthaceae	Dicot	Kanteli chaulai
36	<i>Amaranthus viridis</i> L.	Amaranthaceae	Dicot	Chaulai Jal
37	<i>Ammannia baccifera</i> L.	Lythraceae	Dicot	Bhangro
38	<i>Anagalis arvensis</i> L.	Primulaceae	Dicot	Neel
39	<i>Andrographis paniculata</i> (Burm.f.) Wall	Acanthaceae	Dicot	Kalmegh
40	<i>Andropogon pumilus</i> Roxb.	Poaceae	Monocot	Bhanjari
41	<i>Apluda mutica</i> L.	Poaceae	Monocot	Phulkia
42	<i>Argemone mexicana</i> L.	Papaveraceae	Dicot	Satyanasi
43	<i>Argyreia nervosa</i> (Burm.f.) Bojer	Convolvulaceae	Dicot	Ghav bel
44	<i>Aristida adscensionis</i> L.	Poaceae	Monocot	Lampro

45	<i>Aristida funiculata</i> Trin. et Rupr.	Poaceae	Monocot	Lamp
46	<i>Aristolochia bracteolata</i> Lamk.	Aristolochiaceae	Dicot	Batakhbel/Keeramar
47	<i>Arnebia hispidissima</i> DC.	Boraginaceae	Dicot	Ram-bui
48	<i>Artemisia meritima</i> L.	Asteraceae	Dicot	Bana
49	<i>Artemisia scoparia</i> Waldst. & Kit.	Asteraceae	Dicot	Bana
50	<i>Asparagus racemosus</i> Willd.	Liliaceae	Monocot	Satawar
51	<i>Asphodelus tenuifolius</i> Cav.	Liliaceae	Monocot	Piazi
52	<i>Avena sterilis</i> L.	Poaceae	Monocot	
53	<i>Azadirachta indica</i> A.Juss.	Meliaceae	Dicot	Neem
54	<i>Bacopa monnieri</i> (L.) Wettst.	Scrophulariaceae	Dicot	Nirbrahmi, Jal buti
55	<i>Balanites aegyptiaca</i> (L.) Delile	Simaroubaceae	Dicot	Hingoto
56	<i>Barleria acanthoides</i> Vahl	Acanthaceae	Dicot	Vajradanti
57	<i>Barleria prionitis</i> L.	Acanthaceae	Dicot	Bajradanti
58	<i>Bauhinia racemosa</i> Lamk.	Fabaceae	Dicot	Jhinjha
59	<i>Bauhinia variegata</i> L.	Fabaceae	Dicot	Kachnar
60	<i>Bergia ammannioides</i> Roth	Elatinaceae	Dicot	Jal bhangra
61	<i>Bergia suffruticosa</i> (Del.) Fenzl.	Elatinaceae	Dicot	Ankh-phootni bel
62	<i>Bidens biternata</i> (Lour.) Merr. & Sherff	Asteraceae	Dicot	Katlo
63	<i>Blainvillea acmella</i> (L.) Phil.	Asteraceae	Dicot	Kanghi
64	<i>Blepharis sindica</i> T. Anders.	Acanthaceae	Dicot	Unt- katala
65	<i>Boerhavia diffusa</i> L.	Nyctaginaceae	Dicot	Punarnava/Santi
66	<i>Boerhavia elegans</i> Choisy	Nyctaginaceae	Dicot	Santhi
67	<i>Boerhavia repens</i> L.	Nyctaginaceae	Dicot	Santa
68	<i>Bombax ceiba</i> L.	Bombacaceae	Dicot	Semal
69	<i>Borreria articularis</i> (L.f.) Mill.	Rubiaceae	Dicot	Agio
70	<i>Borreria stricta</i> (L.f.) K. Schum.	Rubiaceae	Dicot	Agio
71	<i>Bothriochloa pertusa</i> (L.) A.Camus	Poaceae	Monocot	
72	<i>Bougainvillea glabra</i> Choisy	Nyctaginaceae	Dicot	Bogan bel
73	<i>Brachiaria ramosa</i> (L.) Stapf	Poaceae	Monocot	Kuri/Murat
74	<i>Caesalpinia pulcherrima</i> (L.) Swartz.	Fabaceae	Dicot	Karanju
75	<i>Calligonum polygonoides</i> L.	Polygonaceae	Dicot	Phog
76	<i>Calotropis gigantea</i> (L.)R.Br.	Asclepiadaceae	Dicot	Moto Aak
77	<i>Calotropis procera</i> R.Br.	Asclepiadaceae	Dicot	Aak
78	<i>Canna indica</i> L.	Cannaceae	Monocot	Keli
79	<i>Cannabis sativa</i> L.	Cannabinaceae	Dicot	Bhang
80	<i>Capparis decidua</i> (Forsk.) Edgew.	Capparidaceae	Dicot	Ker
81	<i>Cardiospermum halicacabum</i> L.	Sapindaceae	Dicot	Kapal-phori, Gandiyo
82	<i>Carissa congesta</i> Wight	Apocyna	Dicot	Karounda

83	<i>Cassia aungustifolia</i> Vahl	Fabaceae	Dicot	Senna, Sanai, Sonamukhi
84	<i>Cassia fistula</i> L.	Malvaceae	Dicot	Amaltas
85	<i>Cassia italica</i> (Mill.) Lamk. ex Andrews	Malvaceae	Dicot	Phunwad
86	<i>Cassia occidentalis</i> L.	Malvaceae	Dicot	Kesudo
87	<i>Cassia siamea</i> Lam.	Fabaceae	Dicot	Siyama
88	<i>Cassia tora</i> (L.)	Fabaceae	Dicot	Puadia
89	<i>Catharanthus roseus</i> L.	Apocyanaceae	Dicot	Sadabahar
90	<i>Celosia argentea</i> L.	Amaranthaceae	Dicot	Makhmal
91	<i>Celosia spicata</i> L.	Amaranthaceae	Dicot	Makhmal
92	<i>Cenchrus biflorus</i> Roxb.	Poaceae	Monocot	Bhurat
93	<i>Cenchrus ciliaris</i> L.	Poaceae	Monocot	Dhaman
94	<i>Cenchrus prieurii</i> (Kunth) Maire	Poaceae	Monocot	Lambio Bhurant
95	<i>Cenchrus setigerus</i> Vahl	Poaceae	Monocot	Dhaman
96	<i>Ceropegia bulbosa</i> Roxb.	Asclepiadaceae	Dicot	Khadulo
97	<i>Chenopodium album</i> L.	Chenopodiaceae	Dicot	Bathua/Chilwo
98	<i>Chenopodium murale</i> L.	Chenopodiaceae	Dicot	Khartua
99	<i>Chloris barbata</i> Sw. Ind. Occid.	Poaceae	Monocot	
100	<i>Chloris virgata</i> Sw.	Poaceae]Monocot	Choto aranio
101	<i>Chrysopogon fulvus</i> (Spreng.) Chiov.	Poaceae	Monocot	Kateli
102	<i>Cirsium arvense</i> (L.)Scop.	Asteraceae	Dicot	
103	<i>Cirsium wallichii</i> DC.	Asteraceae	Dicot	Brahm dandi
104	<i>Cissampelos pareira</i> L.	Menispermaceae	Dicot	
105	<i>Citrullus colocynthis</i> (L.) Schrad.	Cucurbitaceae	Dicot	Tumba/Indrayan
106	<i>Citrullus lanatus</i> (Thunb.)Matsumara & Nakai	Cucurbitaceae	Dico	Matira
107	<i>Cleome gynandra</i> L.	Capparidaceae	Dicot	Safed hulhul
108	<i>Cleome viscosa</i> L.	Capparidaceae	Dicot	Pili hulhul(Singali)
109	<i>Clerodendrum phlomoides</i> L.f.	Verbenaceae	Dicot	Arni
110	<i>Clitoria ternatea</i> L.	Fabaceae	Dicot	Koyalri
111	<i>Coccinia grandis</i> (L.)J.O. Voigt	Cucurbitaceae	Dicot	Parwal
112	<i>Cocculus hirsutus</i> (L.) Diels	Menispermaceae	Dicot	Pilwani
113	<i>Cocculus pendulus</i> (Forst.) Diels	Menispermaceae	Dicot	Pilwani
114	<i>Commelina albescens</i> Hassk.	Commelinaceae	Monocot	Moriyabati
115	<i>Commelina benghalensis</i> L.	Commelinaceae	Monocot	Moriyabati
116	<i>Commelina forskalaei</i> Vahl	Commelinaceae	Monocot	Moriyabati
117	<i>Convolvulus arvensis</i> L.	Convolvulaceae	Dicot	Hiranpagi
118	<i>Convolvulus microphyllus</i> Sieb.ex Spreng.	Convolvulaceae	Dicot	Santari, Shankhpushpi
119	<i>Convolvulus prostratus</i> Forsk.	Convolvulaceae	Dicot	Santari
120	<i>Conyza aegyptiaca</i> L.	Asteraceae	Dicot	

121	<i>Conyza bonariensis</i> L.	Asteraceae	Dicot	Asthmaweed
122	<i>Corallocarpus epigaeus</i> (Rottl. & Willd.) Hook. f.	Cucurbitaceae	Dicot	Kadwi mirchi ki bel
123	<i>Corchorus aestuans</i> L.	Tiliaceae	Dicot	Kagler, kag ki chonch
124	<i>Corchorus capsularis</i> L.	Tiliaceae	Dicot	Patta, Amberi
125	<i>Corchorus depressus</i> (L.) Stocks	Tiliaceae	Dicot	Cham ghas, Kagler, kurand
126	<i>Corchorus fascicularis</i> Lam.	Tiliaceae	Dicot	Chonchi
127	<i>Corchorus tridens</i> L.	Tiliaceae	Dicot	Kagler
128	<i>Corchorus trilocularis</i> L.	Tiliaceae	Dicot	Chamghas
129	<i>Cordia dichotoma</i> Forst.f.Prodr.	Ehretiaceae	Dicot	Lasora
130	<i>Cordia gharaf</i> (Forsk.) Ehrenb.&Asch.	Ehretiaceae	Dicot	Goondi
131	<i>Coronopus didymus</i> (L.) Smith	Brassicaceae	Dicot	
132	<i>Cotula australis</i> L.	Asteraceae	Dicot	
133	<i>Cressa cretica</i> L.	Convolvulaceae	Dicot	Rudanti
134	<i>Crinum defixum</i> Ker-Gawl.	Amaryllidaceae	Monocot	Sudershan, Jal kand
135	<i>Crotalaria burhia</i> Buch.-Ham.	Fabaceae	Dicot	Shinio
136	<i>Crotalaria medicaginea</i> Lamk.	Fabaceae	Dicot	Gugario
137	<i>Croton sparsiflorus</i> Morong	Euphorbiaceae	Dicot	Kala Bhangra
138	<i>Cryptostegia grandiflora</i> R.Br.	Asclepiadaceae	Dicot	Rubber-bel
139	<i>Ctenolepis cerasiformis</i> (Stocks)Naud.	Cucurbitaceae	Dicot	Aankh phootni bel
140	<i>Cucumis callosus</i> (Rottl.) Cogn.	Cucurbitaceae	Dicot	Kachri
141	<i>Cucumis prophetarum</i> L.	Cucurbiaceae	Dicot	Khat-kachario
142	<i>Cucumis melo</i> (L.)var. <i>agrestis</i> Nanud	Cucurbitaceae	Dicot	Kachari
143	<i>Curculigo orchiodis</i> Gaertn	Hypoxidaceae	Monocot	Moosli
144	<i>Cuscuta chinensis</i> Lamk.	Cuscutaceae	Dicot	Amar-bel
145	<i>Cuscuta reflexa</i> Roxb.	Cuscutaceae	Dicot	Amar-bel
146	<i>Cyamopsis tetragonoloba</i> (L.)Taub.	Fabaceae	Dicot	Guwar
147	<i>Cymbopogon jwarancusa</i> (Jones)Schult.	Poaceae	Monocot	Lemon grass
148	<i>Cynodon barberi</i> Rang. & Tad.	Poaceae	Monocot	Doob
149	<i>Cynodon dactylon</i> (L.)Pers.	Poaceae	Monocot	Doob
150	<i>Cyperus alulatus</i> Kern	Cyperaceae	Monocot	
151	<i>Cyperus arenarius</i> Retz.	Cyperaceae	Monocot	Motho
152	<i>Cyperus atkinsonii</i> Clarke	Cyperaceae	Monocot	Moth
153	<i>Cyperus bulbosus</i> Vahl	Cyperaceae	Monocot	Moth
154	<i>Cyperus conglomeratus</i> Rottb.	Cyperaceae	Monocot	Mandusi
155	<i>Cyperus difformis</i> L.	Cyperaceae	Monocot	
156	<i>Cyperus iria</i> L.	Cyperaceae	Monocot	Moth
157	<i>Cyperus laevigatus</i> L.	Cyperaceae	Monocot	
158	<i>Cyperus pumilus</i> L.	Cyperaceae	Monocot	

159	<i>Cyperus pygmaeus</i> Rottb.	Cyperaceae	Monocot	
160	<i>Cyperus rotundus</i> L.	Cyperaceae	Monocot	Motho
161	<i>Cyperus squarrosus</i> L.	Cyperaceae	Monocot	
162	<i>Cyperus triceps</i> Rottb.	Cyperaceae	Monocot	Musa dudhi
163	<i>Dactyliandra welwitschii</i> Hook.f.	Cucurbitaceae	Dicot	Badi aankh phootni bel
164	<i>Dactyloctenium aegyptium</i> (L.)P.Beauv.	Poaceae	Monocot	Makro
165	<i>Dactyloctenium indicum</i> Boiss.	Poaceae	Monocot	Tantia
166	<i>Dalbergia sissoo</i> Roxb.	Fabaceae	Dicot	Shisham
167	<i>Datura metel</i> L.	Solanaceae	Dicot	Kala Dhatura
168	<i>Datura stramonium</i> L.	Solanaceae	Dicot	Dhatura
169	<i>Delonix regia</i> (Boj.) Raf.	Fabaceae	Dicot	Gulmohar
170	<i>Dendrocalamus strictus</i> (Roxb.)Nees	Poaceae	Monocot	Bans
171	<i>Desmostachya bipinnata</i> (L.)Stapf	Poaceae	Monocot	Dab
172	<i>Dichanthium annulatum</i> (Forsk.)Stapf	Poaceae	Monocot	Karad
173	<i>Dicoma tomentosa</i> Cass.	Asteraceae	Dicot	Choloharna-charo
174	<i>Digera muricata</i> (L.) Mart.	Amaranthaceae	Dicot	Lolaru, Ghundro
175	<i>Digitaria abludens</i> (Roem. & Schult.)Veldk.	Poaceae	Monocot	
176	<i>Digitaria biformis</i> Willd.	Poaceae	Monocot	Jhernio
177	<i>Digitaria ciliaris</i> (Retz.)Koeler	Poaceae	Monocot	Jhernio
178	<i>Dipteracanthus patulus</i> (Jacq.)Nees	Acanthaceae	Dicot	
179	<i>Echinochloa colonum</i> (L.)Link	Poaceae	Monocot	Jirio
180	<i>Echinochloa crus-galli</i> (L.) P. Beauv.	Poaceae	Monocot	Jirio
181	<i>Echinops echinatus</i> Roxb.	Asteraceae	Dicot	Unt kantilo
182	<i>Eclipta alba</i> (L.)Hassk.	Asteraceae	Dicot	Bhringraj/Bhangra
183	<i>Eleocharis atropurpurea</i> (Retz.) Presl.	Cyperaceae	Monocot	
184	<i>Eleusine compressa</i> (Forsk.)	Poaceae	Monocot	Maduo
185	<i>Elytraria acaulis</i> (L.f.) Lindau	Acanthaceae	Dicot	Patthar chatti, Pathar phod
186	<i>Embllica officinalis</i> Gaertn.	Euphorbiaceae	Dicot	Anwla
187	<i>Emex spinosus</i> (L.)Campd.	Polygonaceae	Dicot	Khato-Palak
188	<i>Enicostema hyssopifolium</i> (Willd.)Verdoon	Gentianaceae	Dicot	Kutak chirayata
189	<i>Ephedra foliata</i> Boiss.& Kotschy ex Boiss.	Gnetaceae	Gymnosperm	Unt phog
190	<i>Eragrostis brachyphylla</i> Stapf	Poaceae	Monocot	
191	<i>Eragrostis ciliaris</i> (L.) R.Br.	Poaceae	Monocot	Under punchho
192	<i>Eragrostis pilosa</i> (L.) P.Beauv.	Poaceae	Monocot	
193	<i>Eragrostis tenella</i> (L.)P.Beauv.ex Roem. et Schult.	Poaceae	Monocot	
194	<i>Eragrostis tremula</i> (Lam.) Hochst. ex Steud.	Poaceae	Monocot	Dholpalio
195	<i>Eucalyptus camaldulensis</i> Dehnb.	Myrtaceae	Dicot	Safeda
196	<i>Eugenia jambolana</i> Lam.	Myrtaceae	Dicot	Jamun

197	<i>Euphorbia caducifolia</i> Haines	Euphorbiaceae	Dicot	Danda-thor
198	<i>Euphorbia cyathophora</i> Murray	Euphorbiaceae	Dicot	Laal Patta
199	<i>Euphorbia hirta</i> L.	Euphorbiaceae	Dicot	Lal dudheli
200	<i>Euphorbia prostrata</i> Aiton	Euphorbiaceae	Dicot	Dudhi
201	<i>Euphorbia thymifolia</i> L.	Euphorbiaceae	Dicot	Chhoti dudhi
202	<i>Evolvulus alsinoides</i> L.	Convolvulaceae	Dicot	Shankpushpi/Phooli/vishnukanta
203	<i>Fagonia indica</i> Burm.f.	Zygophyllaceae	Dicot	Dhamaso
204	<i>Farsetia hamiltonii</i> Royle	Brassicaceae	Dicot	Hiran-chhaboor
205	<i>Ficus benghalensis</i> L.	Moraceae	Dicot	Kag-pilangBar, Bargad
206	<i>Ficus religiosa</i> L.	Moraceae	Dicot	Pipal
207	<i>Fimbristylis dichotoma</i> (L.) Vahl	Cyperaceae	Monocot	
208	<i>Fimbristylis ferruginea</i> (L.) Vahl	Cyperaceae	Monocot	
209	<i>Fumaria indica</i> (Haussk.) Pugsley	Fumariaceae	Dicot	Pith papro
210	<i>Gisekia pharnaceoides</i> L.	Molluginaceae	Dicot	Sureli
211	<i>Glinus lotoides</i> L.	Molluginaceae	Dicot	Dholakni
212	<i>Glinus oppositifolius</i> (L.) DC.	Molluginaceae	Dicot	Dholakni
213	<i>Glossocardia bosvallea</i> (L.f.) DC.	Asteraceae	Dicot	Patharsua, Chiria chugga
214	<i>Gnaphalium pulvinatum</i> Delile	Asteraceae	Dicot	
215	<i>Gomphrena celosioides</i> Mart.	Amaranthaceae	Dicot	Lehsunia
216	<i>Grangea maderaspatana</i> (L.) Poir.	Asteraceae	Dicot	Mutkhari,
217	<i>Haloxylon salicornicum</i> (Moq.) Bunge	Chenopodiaceae	Dicot	Madras carpet
218	<i>Heliotropium marifolium</i> Retz.	Boraginaceae	Dicot	Lana
219	<i>Heliotropium ovalifolium</i> Forsk.	Boraginaceae	Dicot	Choti sanatri
220	<i>Heliotropium strigosum</i> Willd.	Boraginaceae	Dicot	Kundan, Kharchan
221	<i>Heliotropium subulatum</i> (Hochst. ex DC) Vatke	Boraginaceae	Dicot	Arkali
222	<i>Heliotropium supinum</i> L.	Boraginaceae	Dicot	Kali bui Suva ghas
223	<i>Heteropogon controtus</i> (L.) P. Beauv.	Poaceae	Monocot	
224	<i>Hibiscus ovalifolius</i> (Forsk.) Vahl	Malvaceae	Dicot	Dokala
225	<i>Hibiscus rosa-sinesis</i> L.	Malvaceae	Dicot	Gudhal
226	<i>Holoptelea integrifolia</i> (Roxb.) Planch.	Ulmaceae	Dicot	Churel, Papri
227	<i>Hoppea dichotoma</i> Willd.	Gentianaceae	Dicot	Ramjeeta
228	<i>Ifloga spicata</i> (Forssk.) Sch. Bip.	Asteraceae	Dicot	Timadia
229	<i>Impatiens balsamina</i> L.	Balsaminaceae	Dicot	
230	<i>Indigofera caerulea</i> Roxb.	Fabaceae	Dicot	Neel
231	<i>Indigofera cordifolia</i> Heyne ex Roth	Fabaceae	Dicot	
232	<i>Indigofera hochstetteri</i> Baker	Fabaceae	Dicot	Aadio-bekario
233	<i>Indigofera linifolia</i> (L.) Retz.	Fabaceae	Dicot	Lambio-bekario
234	<i>Indigofera linnaei</i> Ali	Fabaceae	Dicot	Bakeria

235	<i>Indigofera oblongifolia</i> Forsk.	Fabaceae	Dicot	Goilia or jhil
236	<i>Indigofera tinctoria</i> L.	Fabaceae	Dicot	Neel
237	<i>Ipomea pes-caprae</i> (L.) Sweet	Convolvulaceae	Dicot	Do patti lata
238	<i>Ipomoea cairica</i> (L.) Sweet	Convolvulaceae	Dicot	Panchpatti, Railway creeper
239	<i>Ipomoea carnea</i> Jacqu.	Convolvulaceae	Dicot	Besharam
240	<i>Ipomoea fistulosa</i> Mart. ex Choisy	Convolvulaceae	Dicot	Vilayati aak
241	<i>Ipomoea hederifolia</i> L.	Convolvulaceae	Dicot	
242	<i>Ipomoea indica</i> (Burm. f.) Merrill	Convolvulaceae	Dicot	Morning glory
243	<i>Ipomoea nil</i> (L.) Roth	Convolvulaceae	Dicot	Kaladana
244	<i>Ipomoea pestiqrdis</i> L.	Convolvulaceae	Dicot	Ghiabati
245	<i>Ipomoea sindica</i> Stapf	Convolvulaceae	Dicot	Rotabel
246	<i>Ischaemum ruqosam</i> Salisb.	Poaceae	Monocot	
247	<i>Jatropha gossypifolia</i> L.	Euphorbiaceae	Dicot	Ratanjot/Jamalghota
248	<i>Jatropha curcas</i> L.	Euphorbiaceae	Dicot	Ratanjot/Jamalghota
249	<i>Juncus bufonius</i> L.	Juncaceae	Monocot	Pola
250	<i>Justicia procumbens</i> L.	Acanthaceae	Dicot	Kagner, Makhania ghas
251	<i>Justicia simplex</i> D. Don	Acanthaceae	Dicot	Kagner
252	<i>Kickxia ramosissima</i> (Wall.) Janchen	Scrophulariaceae	Dicot	
253	<i>Lactuca runcinata</i> DC.	Asteraceae	Dicot	
254	<i>Lantana camara</i> L.	Verbenaceae	Dicot	Lalten
255	<i>Lasiurus indicus</i> Henr.	Poaceae	Monocot	Sewan ghas
256	<i>Launaea nudicaulis</i> Hook. f.	Asteraceae	Dicot	Jangali gobi
257	<i>Launea resedifolia</i> (L.) O.Kuntze	Asteraceae	Dicot	Phulwalo unt kantelo
258	<i>Lawsonia inermis</i> L.	Lythraceae	Dicot	Mehndi
259	<i>Lemna minor</i> L.	Lemnaceae	Monocot	Kumudni
260	<i>Lemna perpusilla</i> Torrey	Lemnaceae	Monocot	Chaupati
261	<i>Lepidagathis cristata</i> Willd.	Acanthaceae	Dicot	Bukharjadi
262	<i>Lepidagathis trinervis sensu</i> Blatt. & Hall.	Acanthaceae	Dicot	Patharphod buti
263	<i>Lepidium sativum</i> L.	Brassicaceae	Dicot	
264	<i>Leptadenia pyrotechnica</i> (Forsk.) Decne.	Asclepiadaceae	Dicot	Khimp
265	<i>Leptadenia reticulata</i> (Retz.) Wt. & Arn.	Asclepiadaceae	Dicot	Jeewanti
266	<i>Leucaena leucocephala</i> (Lam.) Wit.	Fabaceae	Dicot	Subabool
267	<i>Leucas aspera</i> (Willd.) Spreng.	Lamiaceae	Dicot	Dargal
268	<i>Leucas cephalotes</i> (Roth) Spreng.	Lamiaceae	Dicot	Dargal
269	<i>Leucas urticaefolia</i> (Vahl) R.Br.	Lamiaceae	Dicot	Dargal
270	<i>Lindenbergia indica</i> (L.) Vatke	Scrophulariaceae	Dicot	
271	<i>Luffa echinata</i> Roxb.	Cucurbitaceae	Dicot	Dutar toru
272	<i>Lycium barbarum</i> L.	Solanaceae	Dicot	Murali

273	<i>Melanocenchris jacquemontii</i> Jaub. & Spach.	Poaceae	Monocot	
274	<i>Malvastrum coromandelianum</i> (L.) Garcke	Malvaceae	Dicot	Kharinti. Bhajiti
275	<i>Mangifera indica</i> L.	Anacardiaceae	Dicot	Aam
276	<i>Marsdenia tenacissima</i> (Roxb.) Moon	Asclepiadaceae	Dicot	Jiti Marua bel
277	<i>Martynia annua</i> L.	Martyniaceae	Dicot	Bagh nakhi or Bicchu kanto
278	<i>Maytenus emarginata</i> (Willd.) Ding-Hou	Celastraceae	Dicot	Kankero
279	<i>Medicago sativa</i> L.	Fabaceae	Dicot	Rijka
280	<i>Melhania futteyporensis</i> Munro	Sterculiaceae	Dicot	
281	<i>Melia azadirachta</i> L.	Meliaceae	Dicot	Bakain
282	<i>Melilotus indica</i> (L.) All.	Fabaceae	Dicot	Metho, adak methi
283	<i>Merremia aegyptia</i> (L.) Urban	Convolvulaceae	Dicot	Rota bel/Ghata bel
284	<i>Merremia dissecta</i> (Jacq.) Hall.f.	Convolvulaceae	Dicot	Rota bel
285	<i>Mimosa hamata</i> Willd.	Fabaceae	Dicot	Alai, Bander ki Rakhi
286	<i>Majorana hortensis</i> Moench	Lamiaceae	Dicot	Marwa
287	<i>Mollugo cerviana</i> (L.) Seringe	Molluginaceae	Dicot	Chirio ghas
288	<i>Mollugo nudicaulis</i> Lamk.	Molluginaceae	Dicot	Hilro
289	<i>Momordica balsamina</i> L.	Cucurbitaceae	Dicot	Barh-karello
290	<i>Momordica charantia</i> L.	Cucurbitaceae	Dicot	Karelo
291	<i>Momordica dioica</i> Roxb. ex. Willd.	Cucurbitaceae	Dicot	Kakoda
292	<i>Moringa oleifera</i> Lamk.	Moringaceae	Dicot	Sanjana
293	<i>Morus alba</i> L.	Moraceae	Dicot	Sehtoot
294	<i>Mucuna pruriens</i> (L.) DC.	Fabaceae	Dicot	Kirmich, Kaunch
295	<i>Mukia maderaspatana</i> (L.) Spreng.	Cucurbitaceae	Dicot	Ankh phutani bel
296	<i>Murraya koenigii</i> (L.) Spreng.	Rutaceae	Dicot	Meetha neem
297	<i>Nerium indicum</i> L.	Apocyanaceae	Dicot	Kaner
298	<i>Nothosaerva brachiata</i> (L.) Wight	Amaranthaceae	Dicot	
299	<i>Ocimum americanum</i> L.	Lamiaceae	Dicot	Bapchi
300	<i>Ocimum sanctum</i> L.	Lamiaceae	Dicot	Tulsi
301	<i>Oldenlandia corymbosa</i> L.	Rubiaceae	Dicot	
302	<i>Oldenlandia pusilla</i> Rottl.	Rubiaceae	Dicot	
303	<i>Oligochaeta ramosa</i> (Roxb.) Wagenitz	Asteraceae	Dicot	Brahm buti
304	<i>Opuntia elatior</i> Mill.	CactaceaeO	Dicot	Nagphani
305	<i>Orobancha cernua</i> Loefl.	robanchaceae	Dicot	Margoza
306	<i>Oxalis corniculata</i> L.	Oxalidaceae	Dicot	Khatari/Khatti buti
307	<i>Panicum antidotale</i> Retz.	Poaceae	Monocot	Garmano
308	<i>Panicum turgidum</i> Forsk.	Poaceae	Monocot	Muratio grass
309	<i>Parkinsonia aculeata</i> L.	Fabaceae	Dicot	Keshu
310	<i>Parthenium hysterophorus</i> L.	Asteraceae	Dicot	Gajar ghas, Congress weed

311	<i>Paspalidium flavidum</i> (Retz.) A. Camus	Poaceae	Monocot	
312	<i>Paspalidium punctatum</i> (Burm. f.)A. Camus	Poaceae	Monocot	
313	<i>Pedaliium murex</i> L.	Pedaliaceae	Dicot	Bara gokhru/ Dakhni gokhru
314	<i>Peganum harmala</i> L.	Zygophyllaceae	Dicot	Harmala, Gandhiya
315	<i>Pennisetum americanum</i> (L.) Leeke	Poaceae	Monocot	Bajri
316	<i>Pennisetum typhoides</i> (Burm.f.) Stapf	Poaceae	Monocot	Bajra
317	<i>Pentatropis spiralis</i> (Forsk.)Decne.	Asclepiadaceae	Dicot	Aakari-bel
318	<i>Peplidium maritimum</i> (L.f.) Asch.	Scrophulariaceae	Dicot	
319	<i>Pergularia daemia</i> (Forsk.)Chiov.	Asclepiadaceae	Dicot	Gadaria ki bel
320	<i>Peristrophe bicalyculata</i> (Retz.)Nees	Acanthaceae	Dicot	Kagjangha, Peepal patti
321	<i>Perotis hordeiformis</i> Nees	Poaceae	Monocot	Lonki-puncho
322	<i>Phalaris minor</i> Retz.	Poaceae	Monocot	Chiria bajra
323	<i>Phaseolus trilobus</i> L.	Fabaceae	Dicot	Mungi
324	<i>Phoenix sylvestris</i> (L.) Roxb.	Arecaceae	Monocot	Khajur
325	<i>Phragmites australis</i> (Cav.) Trin. ex Steud.	Poaceae	Monocot	
326	<i>Phyla nodiflora</i> (L.) E.E.Greene	Verbenaceae	Dicot	Jalbuti
327	<i>Phyllanthus amarus</i> Schum.& Th.	Euphorbiaceae	Dicot	Bhuiamla, Hajaar dana, Googa janti
328	<i>Phyllanthus fraternus</i> Webster	Euphorbiaceae	Dicot	Bhuiamla, Hajaar dana, Googa janti
329	<i>Physalis minima</i> L.	Solanaceae	Dicot	Chirpotan, Pichoo
330	<i>Physalis peruviana</i> L.	Solanaceae	Dicot	Chirpotan, Badi chirpoti
331	<i>Pithecellobium dulce</i> (Roxb.) Benth.	Fabaceae	Dicot	Jungle jalebi
332	<i>Plumbago zeylanica</i> L.	Plumbaginaceae	Dicot	Chitrak
333	<i>Plumeria rubra</i> L.	Apocyanaceae	Dicot	Champa
334	<i>Poa annua</i> L.	Poaceae	Monocot	
335	<i>Polyalthia longifolia</i> (Sonnerat) Thw.	Magnoliaceae	Dicot	Ashok
336	<i>Polycarpaea corymbosa</i> (L.) Lamk.	Caryophyllaceae	Dicot	Jhutanio khad
337	<i>Polygala arvensis</i> Willd.	Polygalaceae	Dicot	Jhojhru
338	<i>Polygala erioptera</i> DC.	Polygalaceae	Dicot	Jhojhru
339	<i>Polygonum barbatum</i> L.	Polygonaceae	Dicot	Jalmirchi
340	<i>Polygonum plebeium</i> R. Br.	Polygonaceae	Dicot	Lal buti, Gulabi
341	<i>Portulaca oleracea</i> L.	Portulacaceae	Dicot	Lunkia
342	<i>Portulaca pilosa</i> L.	Portulacaceae	Dicot	Lunkia
343	<i>Portulaca quadrifida</i> L.	Portulacaceae	Dicot	Lunkia
344	<i>Potentilla supina</i> L.	Rosaceae	Dicot	
345	<i>Prosopis cineraria</i> (L.) Druce	Fabaceae	Dicot	Khejri, Jaanti
346	<i>Prosopis juliflora</i> (Swartz) DC.	Fabaceae	Dicot	Vilayti Babool, Bavalio
347	<i>Psoralea odorata</i> Blatt. & Hallb.	Fabaceae	Dicot	Jhil
348	<i>Pulicaria augustifolia</i> DC	Asteraceae	Dicot	Soneli

349	<i>Pulicaria crispa</i> (Forsk.) Benth.& Hook.	Asteraceae	Dicot	Dhola lizru
350	<i>Pulicaria foliolosa</i> DC.	Asteraceae	Dicot	Dhola lingru
351	<i>Pulicaria wightiana</i> (DC.) Clarke	Asteraceae	Dicot	
352	<i>Pupalia lappacea</i> (L.) Juss.	Amaranthaceae	Dicot	Chiptio bharut
353	<i>Pupalia orbiculata</i> (Heyne) Wight	Amaranthaceae	Dicot	Chiptio bharut
354	<i>Quisqualis indica</i> L.	Combretaceae	Dicot	Jhumka bel
355	<i>Rhynchosia aurea</i> (Willd.)DC.	Fabaceae	Dicot	Batti
356	<i>Rhynchosia minima</i> (L.)DC.	Fabaceae	Dicot	Chiri moth
357	<i>Ricinus communis</i> L.	Euphorbiaceae	Dicot	Arandi
358	<i>Rumex crispus</i> L.	Polygonaceae	Dicot	Jangali palak
359	<i>Rumex dentatus</i> L.	Polygonaceae	Dicot	Jangali palak
360	<i>Rungia repens</i> (L.) Nees	Acanthaceae	Dicot	Ghati – pitpapra
361	<i>Saccharum munja</i> Roxb.	Poaceae	Monocot	Kooncha
362	<i>Saccharum spontaneum</i> L.	Poaceae	Monocot	Dharbi ghas,Kaans
363	<i>Salvadora oleoides</i> Decne.	Salvadoraceae	Dicot	Jaal, Pilu
364	<i>Salvadora persica</i> L.	Salvadoraceae	Dicot	Jaal, Pilu
365	<i>Sarcostemma viminale</i> (L.)R.Br.	Asclepiadaceae	Dicot	Khir khimp
366	<i>Scirpus roylei</i> (Nees) Parker	Cyperaceae	Monocot	Morlo
367	<i>Scirpus tuberosus</i> Desf.	Cyperaceae	Monocot	
368	<i>Securinega leucopyrus</i> (Willd.) Muell.	Euphorbiaceae	Dicot	Ghatbor
369	<i>Sehima nervosum</i> (Willd.) Stapf	Poaceae	Monocot	Searn
370	<i>Sericostoma pauciflorum</i> Stocks ex Weight	Boraginaceae	Dicot	
371	<i>Sesamum indicum</i> L.	Pedaliaceae	Dicot	Til
372	<i>Sesamum mulayanum</i> Nair & Bull	Pedaliaceae	Dicot	Jangli til
373	<i>Sesbania bispinosa</i> (Jacq.) Wight	Fabaceae	Dicot	Ikad
374	<i>Sesuvium sesuvioides</i> (Fenzl.) Verdc.	Aizoaceae	Dicot	
375	<i>Setaria glauca</i> (L.) P.Beauv.	Poaceae	Monocot	Bandra
376	<i>Setaria intermedia</i> Roem. & Schult.	Poaceae	Monocot	Bandra
377	<i>Setaria verticillata</i> (L.) P. Beauv.	Poaceae	Monocot	Bandra
378	<i>Setaria italica</i> (L.)P.Beauv.	Poaceae	Monocot	Bandra
379	<i>Sida cordata</i> (Burm. F.) Borss.	Malvaceae	Dicot	Aadiobal
380	<i>Sida cordifolia</i> L.	Malvaceae	Dicot	Bal, Kharinti
381	<i>Sida ovata</i> Forsk.	Malvaceae	Dicot	Bal
382	<i>Sisymbrium irio</i> L.	Brassicaceae	Dicot	Aslio
383	<i>Solanum elaeagnifolium</i> Cav.	Solanaceae	Dicot	
384	<i>Solanum incanum</i> L.	Solanaceae	Dicot	Dholi Ringni
385	<i>Solanum indicum</i> L.	Solanaceae	Dicot	Dhindra
386	<i>Solanum nigrum</i> L.	Solanaceae	Dicot	Makoi

387	<i>Solanum xanthocarpum</i> Schrad.& Wendl.	Solanaceae	Dicot	Nili katili/ pasarghatali
388	<i>Sonchus asper</i> (L.) Hill.	Asteraceae	Dicot	Kalijibi
389	<i>Sonchus brachyotus</i> DC.	Asteraceae	Dicot	Pili Dudhi
390	<i>Sonchus oleraceus</i> L.	Asteraceae	Dicot	Ankhali
391	<i>Sorghum halepense</i> (L.) Pers.	Poaceae	Monocot	Baru
392	<i>Spergula arvensis sensu</i> Bhandari	Caryophyllaceae	Dicot	Muchmachia
393	<i>Spermacoce stricta</i> L.	Rubiaceae	Dicot	
394	<i>Sphaeranthus indicus</i> L.	Asteraceae	Dicot	Mundi
395	<i>Sporobolus coromandelianus</i> (Retz.) Kunth	Poaceae	Monocot	
396	<i>Sporobolus helvolus</i> (Trin.)Th.Dur.et Schinz	Poaceae	Monocot	
397	<i>Sporobolus diander</i> (Retz.) P.Beauv.	Poaceae	Monocot	
398	<i>Stellaria media</i> (L.) Vill.	Caryophyllaceae	Dicot	
399	<i>Tabernemontana divaricata</i> L.	Apocyanaceae	Dicot	Chandni
400	<i>Tamarix aphylla</i> (L.) Karst.	Tamaricaceae	Dicot	Farash
401	<i>Tecoma stans</i> (L.) Juss. ex. Kunth	Bignoniaceae	Dicot	Ticoma
402	<i>Tecomella undulata</i> (Sm.) Seem.	Bignoniaceae	Dicot	Rohida
403	<i>Tephrosia falciformis</i> Ramaswami	Fabaceae	Dicot	Rati biyani
404	<i>Tephrosia purpurea</i> (L.) Pers.	Fabaceae	Dicot	Bansa
405	<i>Tephrosia strigosa</i> (Dalz.)Sant. & Mahesh.	Fabaceae	Dicot	Jhino biyono
406	<i>Tephrosia subtriflora</i> Hochst. ex. Baker	Fabaceae	Dicot	Biyano
407	<i>Tetrapogon tenellus</i> (Koen. ex Roxb.)Chiov.	Poaceae	Monocot	
408	<i>Thevetia peruviana</i> (Pers.) Merr.	Apocyanaceae	Dicot	Pili kaner
409	<i>Tinospora cordifolia</i> (Willd.) Miers	Menispermaceae	Dicot	Giloy
410	<i>Tragus biflorus</i> (Roxb.) Schult.	Poaceae	Monocot	Charchara
411	<i>Trianthema portulacastrum</i> L.	Aizoaceae	Dicot	Safed santo
412	<i>Trianthema triquetra</i> Rottl. ex Willd.	Aizoaceae	Dicot	Lutanki
413	<i>Tribulus terrestris</i> L.	Zygophyllaceae	Dicot	Bhankari/Gokhru
414	<i>Trichodesma indicum var. amplexicaule</i> Cooke	Boraginaceae	Dicot	Sial kanto
415	<i>Trichosanthes anguina</i> L.	Cucurbitaceae	Dicot	Chachinda
416	<i>Tridax procumbens</i> L.	Asteraceae	Dicot	Sadabahar runkdi/tikki kasa, Ghaav patta
417	<i>Trifolium alexandrinum</i> L.	Fabaceae	Dicot	Barseem
418	<i>Trifolium repens</i> L.	Fabaceae	Dicot	Barseem
419	<i>Trigonella hamosa</i> L.	Fabaceae	Dicot	Chotti methi
420	<i>Trigonella monantha</i> C.A Meyer	Fabaceae	Dicot	Metho
421	<i>Triumfetta pilosa</i> Roth	Tiliaceae	Dicot	Pahari kagler
422	<i>Triumfetta rhomboidea</i> Jacq.	Tiliaceae	Dicot	Pahari kagler
423	<i>Tylophora indica</i> (Burm. f.) Merr.	Asclepiadaceae	Dicot	Dama ki bel, Antmul
424	<i>Urochloa panicoides</i> P. Beauv.	Poaceae	Monocot	Kuri

425	<i>Verbesina encelioides</i> (Cav.) Benth.	Asteraceae	Dicot	Jangli surajmukhi
426	<i>Vernonia cinerea</i> (L.) Less.	Asteraceae	Dicot	Sahdevi
427	<i>Vernonia conyzoides</i> DC.	Asteraceae	Dicot	Sahdevi
428	<i>Veronica agrestis</i> L.	Scrophulariaceae	Dicot	
429	<i>Vigna trilobata</i> (L.) Verd.	Fabaceae	Dicot	Arkmoth/Jangli moth
430	<i>Viola cinerea</i> Boiss Becl	Violaceae	Dicot	
431	<i>Waltheria americana</i> L.	Sterculiaceae	Dicot	
432	<i>Withania somnifera</i> (L.) Dunal	Solanaceae	Dicot	Ashwagandh
433	<i>Wolffia microscopia</i> (Griff ex. Voigt) Kurz	Lemnaceae	Monocot	
434	<i>Xanthium strumarium</i> L.	Asteraceae	Dicot	Bicchhoo Buti
435	<i>Zaleya govindia</i> (Buch. Ham ex G. Don) Nair	Aizoaceae	Dicot	Gudalio satto
436	<i>Zizyphus mauritiana</i> Lamk.	Rhamnaceae	Dicot	Bordi
437	<i>Zizyphus nummularia</i> (Burm.f.) Wt.	Rhamnaceae	Dicot	Jhadi bor
438	<i>Zizyphus xylopyrus</i> Willd.	Rhamnaceae	Dicot	Gat bor
439	<i>Zornia gibbosa</i> Span.	Fabaceae	Dicot	
440	<i>Zygophyllum simplex</i> L.	Zygophyllaceae	Dicot	Lunwa

Table 2: Diversity of Dicot, Monocot and Gymnosperm in the present study

Sl. No.	Groups	Species		Genera		Families	
		No.	%	No.	%	No.	%
1	Dicots	344	78.18	223	80.22	66	84.60
2	Monocots	95	21.59	54	19.42	11	14.10
3	Gymnosperm	01	0.23	01	0.36	01	1.30
	Total	440	100	278	100	78	100

Ephedra foliata was the only gymnosperm, recorded in the study area. Among the recorded plant species three parasitic species viz. *Cuscuta reflexa*, *C. chinensis* and *Orobancha aegyptiaca* were present. A new plant species *Solanum elaeagnifolium* was recorded first time from the site Patharla of the study area. Endemic species *Indigofera caerulea* was also recorded at site Gadadan ki johdi of the area. However this plant species has never been explored before in the study area.

The present study reveals that the Beer Jhunjhunu Conservation Reserve is rich in plant diversity with a variety of medicinal plants. Some rare and threatened plants like *Encostema hyssopifolium*, *Ephedrafoliata*, *Peganum harmala*, *Ceropegia bulbosa*, *Leptadaenia reticulata*, *Indigoferacaerulea*, *Abutilon fruticosum* and *Tecomella undulata* have

also recorded at few sites of the present study.

Among recorded species most of the plants were indigenous but few exotic plants were also present in the area. *Prosopis juliflora* was intentionally introduced in the area as a tough invasive species, but now it has posed serious threat to native flora and fauna. *Croton sparsiflorus* and *Lantana camara* also posed high threat to disturbed forest areas. Like other Asteraceous species, *Conyza boneriensis*, *Parthenium histerophorus*, *Cirsium arvense*, and *Ageratum conyzoides* have minute seeds with hairy appendages that facilitate their dispersal through wind. Therefore, they are spreading at an alarming pace in the study area. It is also reveals from the present study that due to invasion, extinction of few native species and introduction of new species were the main cause of change in the floristic composition

of this region. Species like *Calligonum polygonoides* was observed very rare in the forest area mainly due to the human interference and biotic pressure.

Presently, different factors like exploitation of plants for fuel, medicines and other purposes and overgrazing by livestock populations causing the severe decline in the forest cover of the area in a rapid pace. The degradation of forest causes threats to many medicinally important species for their existence.

As floristic diversity is the resource for medicine, agriculture etc., it needs to be conserved for human welfare and ofcourse for the coming generations. It is hoped that the present study will contribute to the better understanding of the floristic diversity in the Beer Jhunjhunu Conservation Reserve of Rajasthan.

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