

CHAPTER-1

STATISTICAL ANALYSIS OF DICOT FLORA OF AMBAZARI LAKE PREMISES, NAGPUR (M.S.), INDIA

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Summary

Nagpur city lies precisely at the center of the country with the Zero Mile marker indicating the geographical center of India. It is situated in between latitude 21.1458° N longitude 79.0882° E. The city is rich in water sources in the form of lakes and there are 11 lakes in the city in different location. Ambazari lake is situated near the southwest border of the city and it is the largest lake among 11 lakes in the city. The lake was made by Raja Bhosale in 1870 and is spread over 60 acres. The study area, Ambazari lake premises, i.e., nearby area of the lake is provided with diverse vegetation. The floristic survey was conducted from 2017 to 2024 for angiosperms in different seasons. More than 370 angiosperms were collected of which 307 plant species found from dicot families are included in the present paper.

Keywords: Ambazari Lake premises, Dicot flora, Floristic survey.

Introduction

Ambazari Lake is situated at south western part of Nagpur city in the state of Maharashtra, India. This was built under rule of Bhonsle (King of Nagpur), in 1870 to supply water to people of the city and Nag River originates from this Lake. The lake lies between lat. 20°35'-21°44'N and long. 78°15'-79°40'E. The lake is covering about 16 sq. km land. The lake collects waters from the small streams and surrounding area. It is largest lake among the 11 Lakes found in Nagpur city. In 1958, a garden was established on northern side of Lake. It is popularly known as Ambazari garden. The Lake is surrounded by Dharampeth M P. Deo

Memorial Science College Area in East, Subhash Nagar, Rachna Ring Road in South, a Ambazari garden in North and open land in West.

The flora of Nagpur district was earlier studied by Ugemuge, N. R. (1986). He documented 1136 plant species belonging to 669 genera and 142 families and published his work under the name '*Flora of Nagpur district*'. Bhuskute, S. M. (1989, 1990), Thakre and Srinivasu (2012a, 2012b, 2013, 2015), Kamble *et al* (2013a, 2013b, 2013c), Kamble and Chaturvedi (2014), Gadpayale *et al* (2014) and Somkuwar *et al* (2015) added several plant species to flora of Nagpur district as new records. Naqui *et al* (2022) ethnobotanically surveyed Tree species of Seminary Hills of Nagpur. Gakhare *et al* (2016) documented 110 angiosperm climbers of Nagpur city. Dulare *et al* (2021) documented 126 species of order Fabales (Family Mimosaceae, Caesalpiniaceae and Fabaceae) of Nagpur city. Mohare *et al* (2023) studied flora of wall cracks and crevices of western part of Nagpur city and documented 41 plant species.

Materials and Methods

Ambazari Lake premises were selected for the study and documentation of dicot flora. Extensive and intensive field visits were conducted at regular intervals to the study area in different seasons to study the floral biodiversity during 2017-2024. During the field visits plants were documented and special characters of the plants were noted in a field diary like habit, habitat, flower color, flowering and fruiting stage, etc. coloured digital photographs were also taken and preserved.

Plant species were identified with help of available literature viz. (Flora of Nagpur district (Ugemuge 1986), Flora of Maharashtra state Dicotyledones Vol. I (Singh and Karthikeyan 2000), Flora of Maharashtra state Dicotyledones Vol. II (Singh *et al* 2001), Flora of Maharashtra (Almeida 1998) etc. Names of Plant species updated with the help of WFO plant list.

Observation and Results

During the present investigation, total 307 dicot plant species documented belonging to 224 genera from 62 families. Taxa have been enumerated alphabetically in sequence of Botanical Name followed by family name, local name and flowering & fruiting period (**Table 1.**). The family Fabaceae (47 taxa) was found with highest number of taxa, Asteraceae (29 taxa), Euphorbiaceae (21 taxa), Apocyanaceae (19 taxa), Malvaceae (17 taxa), Convolvulaceae (12 taxa), Amaranthaceae and Lamiaceae (10 taxa each), Solanaceae (9 taxa), Phyllanthaceae (8 taxa), Combretaceae and Moraceae (7 taxa each), Cucurbitaceae and Rubiaceae (6 taxa each), Bignoniaceae and Rutaceae (5 taxa each), Boraginaceae, Brassicaceae, Meliaceae, Myrtaceae, Polygonaceae and Verbenaceae (4 taxa each), Lythraceae and Oxalidaceae (3 taxa each), Anacardiaceae, Crassulaceae, Linderniaceae, Menispermaceae, Nyctaginaceae, Nymphaeaceae, Piperaceae, Plantaginaceae, Rosaceae, Urticaceae and Vitaceae (2 taxa each) and rest of the 26 families having single taxa (**Figure-1**).

Table-1: Enumeration of Dicot flora of Ambazari Lake Premises

Sr. No.	Botanical Name	Family	Var. Name	Fls. & Frs.
1	<i>Abelmoschus ficulens</i> L.	Malvaceae	Jangli-Bhendi	Sep.-Mar.
2	<i>Abutilon indicum</i> (L.) Sweet	Malvaceae	Fani, Petari	Sep. -Apr.
3	<i>Acacia nilotica</i> (L.) Delile	Fabaceae	Babul	Nov.-Mar.
4	<i>Acalypha indica</i> L.	Euphorbiaceae	Khokali	Jun.-Nov.
5	<i>Acalypha wilkesiana</i> Müll.Arg.	Euphorbiaceae	Khajoti	Nov.-Feb.
6	<i>Acanthocereus tetragonus</i> (L.) Hummelinck	Cactaceae	Sword cactus	Jun.-Nov.
7	<i>Acanthospermum hispidum</i> DC.	Asteraceae	Kaanthi	Jan.-Jun.
8	<i>Achyranthes aspera</i> L.	Amaranthaceae	Kutri, Aghada	Sep.- Mar.
9	<i>Acmeilla calva</i> (DC.) R. K. Jansen	Asteraceae	Akkalkara	Sep.-Jan.
10	<i>Aegle marmelos</i> (L.) Corrêa	Rutaceae	Bel	Apr.-Nov.
11	<i>Ageratum conyzoides</i> (L.) L.	Asteraceae	Sahadevi	Jul.-Feb.
12	<i>Ailanthus excelsa</i> Roxb.	Simaroubaceae	Maharukh	Jan-May.
13	<i>Albizia lebbbeck</i> (L.) Benth.	Fabaceae	Siras	Apr.-Jan.
14	<i>Albizia procera</i> (Roxb.) Benth.	Fabaceae	Kinhi	Jul.-Mar.
15	<i>Albizia saman</i> (Jacq.) Merr.	Fabaceae	Parjanyavruksha	Mar.-Aug.
16	<i>Allamanda blanchetii</i> A. DC	Apocynaceae		Feb.-Sep.
17	<i>Alstonia macrophylla</i> Wall. ex G. Don	Apocynaceae	Saptaparni	Sep.-Dec.
18	<i>Alstonia scholaris</i> (L.) R. Br.	Apocynaceae	Saptaparni	Dec.-Mar.
19	<i>Alternanthera brasiliana</i> (L.) Kuntze	Amaranthaceae		Throughout the year
20	<i>Alternanthera philoxeroides</i> (Mart.) Griseb.	Amaranthaceae	Alligator weed	Jun.-Jan.
21	<i>Alternanthera pogens</i> Kunth	Amaranthaceae	Chibuk Kata	Mar.-Dec.

22	<i>Alternanthera sessilis</i> (L.) R.Br. ex DC.	Amaranthaceae	Patur	Throughout the year
23	<i>Alysicarpus scariosus</i> (Rottler ex Spreng.) Graham	Fabaceae		Sep.-Feb.
24	<i>Amaranthus viridis</i> L.	Amaranthaceae	Math	Aug.-Dec.
25	<i>Amaranthus spinosus</i> L.	Amaranthaceae	Kate Math	Jul.-Feb.
26	<i>Ammannia baccifera</i> L.	Lythraceae	Bhar-jambhal	Dec.-Mar.
27	<i>Andrographis paniculata</i> (Burm.f.) Wall. ex Nees	Acanthaceae	Bhui-Neem	Dec.-Apr.
28	<i>Anisomeles indica</i> (L.) Kuntze	Lamiaceae	Gopali	Oct- Feb.
29	<i>Annona squamosa</i> L.	Annonaceae	Sitaphal	Apr.-Dec.
30	<i>Antigonon leptopus</i> Hook. & Arn.	Polygonaceae	Coral vine	Aug.-May
31	<i>Argemone mexicana</i> L.	Papaveraceae	Pivla Dhotra / Utati	Throughout the year
32	<i>Artocarpus heterophyllus</i> Lam.	Moraceae	Phanas	Mar.-Apr.
33	<i>Asclepias curassavica</i> L.	Apocynaceae	Haldi-kunku	Mar.-Nov.
34	<i>Azadirachta indica</i> A. Juss.	Meliaceae	Neem	Mar. -Jun.
35	<i>Bacopa monnieri</i> (L.) Wettst.	Plantaginaceae	Nira-bramhi	Throughout the year
36	<i>Barleria prionitis</i> L.	Acanthaceae	Kate-Koranti	Aug.-Dec.
37	<i>Bauhinia acuminata</i> L.	Fabaceae	Kanchnar	Jan.-May.
38	<i>Bauhinia variegata</i> L.	Fabaceae	Kanchan	Throughout the year
39	<i>Biophytum sensitivum</i> (L.) DC.	Oxalidaceae	Jharera	Aug.-Apr.
40	<i>Bixa orellana</i> L.	Bixaceae	Keshri, Shendri	Jul.-Nov.
41	<i>Blumea belangeriana</i> DC.	Asteraceae		Feb.-May
42	<i>Blumea mollis</i> DC.	Asteraceae		Dec.-May
43	<i>Blumea virens</i> DC.	Asteraceae		Jan.-May
44	<i>Blumea lacera</i> (Burm.f.) DC.	Asteraceae		Oct.-May
45	<i>Boerhavia repens</i> L.	Nyctaginaceae	Punarnava	Nov.-Mar.

46	<i>Bombax ceiba</i> L.	Malvaceae	Kate-Sawar	Feb.-Jun.
47	<i>Bonnaya ciliata</i> (Colsm.) Spreng.	Linderniaceae		Nov.-Jul.
48	<i>Bongainvillea spectabilis</i> Willd.	Nyctaginaceae	Boganvel	Feb.-Jun.
49	<i>Brassica juncea</i> (L.) Czern.	Brassicaceae	Mohari	Aug.-Apr.
50	<i>Bridelia retusa</i> (L.) A. Juss.	Phyllanthaceae	Kateyan	May. -Aug.
51	<i>Butea superba</i> Roxb. ex Willd.	Fabaceae	Palas-vel	Feb.-Jun.
52	<i>Butea monosperma</i> (Lam.) Taub.	Fabaceae	Palas	Jan.- June
53	<i>Buxus sempervirens</i> L.	Buxaceae		Aug.-Sep.
54	<i>Caesalpinia coriaria</i> (Jacq.) Willd.	Fabaceae	Libi-dibi	Sep.-Dec.
55	<i>Caesalpinia pulcherrima</i> (L.) Sw.	Fabaceae	Shankasur	Throughout the year
56	<i>Caesulia axillaris</i> Roxb.	Asteraceae		Sep.-Feb.
57	<i>Cajanus cajan</i> (L.) Millsp.	Fabaceae	Tur	Sep.-Mar.
58	<i>Calliandra tergemina</i> (L.) Benth.	Fabaceae		Throughout the year
59	<i>Callistemon citrinus</i> (Curtis) Skeels	Myrtaceae	Bottle-brush	Throughout the year
60	<i>Calotropis gigantea</i> (L.) Dryand.	Apocynaceae	Rui	Oct.-July
61	<i>Calotropis procera</i> (Aiton) Dryand.	Apocynaceae	Rui	Throughout the year
62	<i>Calyptracarpus vialis</i> Less.	Asteraceae		Jul.-Sep.
63	<i>Canavalia gladiata</i> (Jacq.) DC.	Fabaceae	Abeyvel	Oct.-Mar.
64	<i>Capparis zeylanica</i> L.	Capparaceae	Wagati	Feb.-Apr.
65	<i>Cardiospermum halicacabum</i> L.	Sapindaceae	Kapalphodi	Aug.-Dec.
66	<i>Carica papaya</i> L.	Caricaceae	Papaya	Nov.-Mar.
67	<i>Cascabela thevetia</i> (L.) Lippold	Apocynaceae	Pivli-kanher	Jun.-Oct.
68	<i>Cassia sophora</i> L.	Fabaceae	Jangli-Takla	Nov.-Mar.
69	<i>Cassia fistula</i> L.	Fabaceae	Bahawa	Apr.-Oct.
70	<i>Cassia occidentalis</i> L.	Fabaceae	Tarwad	Aug.-Dec.
71	<i>Casuarina equisetifolia</i> L.	Casuarinaceae	Saru	Feb.-Mar.

72	<i>Catharanthus roseus</i> (L.) G. Don	Apocynaceae	Sadaphuli	Throughout the year
73	<i>Cayratia trifolia</i> (L.) Domin	Vitaceae	Ambat vel	Jul.- Sep.
74	<i>Ceiba pentandra</i> (L.) Gaertn.	Malvaceae	Pandhari-Sawar	Jan.-Jun.
75	<i>Celosia argentea</i> L.	Amaranthaceae	Kombda	Aug.-Feb.
76	<i>Centella asiatica</i> (L.) Urb.	Apiaceae	Brahmi	May. -Nov.
77	<i>Chamaecrista absus</i> (L.) H. S. Irwin & Barneby	Fabaceae		Aug.-Nov.
78	<i>Chenopodium album</i> L.	Amaranthaceae	Chakwat	Nov.-Feb.
79	<i>Chrozophora plicata</i> (Vahl) A. Juss. ex Spreng.	Euphorbiaceae		Jan.-May
80	<i>Chrozophora rottleri</i> (Geiseler) Spreng.	Euphorbiaceae	Dagadphodi	Feb.-Apr.
81	<i>Cissus quadrangularis</i> L.	Vitaceae	Harshankar	Jan.-Jun.
82	<i>Citrus aurantiifolia</i> (Christm.) Swingle	Rutaceae	Nimbu	Throughout the year
83	<i>Cleome viscosa</i> L.	Brassicaceae	Pivli Tilwan	June- Oct
84	<i>Cleome chelidonii</i> L. f.	Brassicaceae		July- Oct.
85	<i>Cleome gynandra</i> L.	Brassicaceae	Pandhari-Tilvan	Jun.-Mar.
86	<i>Clitoria ternatea</i> L.	Fabaceae	Gokarn	May.-Dec.
87	<i>Coccinia grandis</i> (L.) Voigt	Cucurbitaceae	Tondli	Mar.-Dec.
88	<i>Cocculus hirsutus</i> (L.) W. Theob.	Menispermaceae	Vasanvel	Jan.-Apr.
89	<i>Codiaeum variegatum</i> (L.) Rumph. ex A. Juss.	Euphorbiaceae		Oct.-Feb.
90	<i>Coldenia procumbens</i> L.	Boraginaceae	Tripanki	Throughout the year
91	<i>Coleus amboinicus</i> Lour. Lour.	Lamiaceae	Indian mint	May.-Dec.
92	<i>Coleus scutellarioides</i> (L.) Benth.	Lamiaceae	Morpankhi	Throughout the year
93	<i>Combretum indicum</i> (L.) DeFilipps	Combretaceae		Throughout the year
94	<i>Combretum ovalifolium</i> Roxb.	Combretaceae		Feb.Jun.

95	<i>Combretum paniculatum</i> Vent.	Combretaceae		Feb.-Jun.
96	<i>Conocarpus erectus</i> L.	Combretaceae	Buttonwood	Throughout the year
97	<i>Corchorus aestuans</i> L.	Malvaceae		Aug.-Dec.
98	<i>Corchorus capsularis</i> L.	Malvaceae		Sep.-Nov.
99	<i>Crossandra infundibuliformis</i> (L.) Nees	Acanthaceae	Aboli	Dec.-May.
100	<i>Croton bonplandianus</i> Baill.	Euphorbiaceae	Jangli-mirchi	Throughout the year
101	<i>Cryptolepis dubia</i> (Burm.f.) M. R. Almeida	Apocynaceae		July-Oct.
102	<i>Cucumis melo</i> L.	Cucurbitaceae	Bodela, Shendad	Aug.- Dec.
103	<i>Cuscuta reflexa</i> Roxb.	Convolvulaceae	Amarvel	Nov.-May
104	<i>Dahlia pinnata</i> Cav.	Asteraceae		Sep.-Dec.
105	<i>Dalbergia latifolia</i> Roxb.	Fabaceae	Shisav	Aug.-Dec.
106	<i>Dalbergia sissoo</i> DC.	Fabaceae	Shisham	Feb.-Oct.
107	<i>Datura metel</i> L.	Solanaceae	Kala-Dhotra	Sep.-Dec.
108	<i>Datura stramonium</i> L.	Solanaceae	Dhotra	Sep.-Oct.
109	<i>Delonix regia</i> (Bojer ex Hook.) Raf.	Fabaceae	Gulmohor	Apr.-Sep.
110	<i>Diplocyclos palmatus</i> (L.) C. Jeffrey	Cucurbitaceae	Shivlingi	Dec.-Jan.
111	<i>Dipteracanthus prostrates</i> (Poir.) Nees	Acanthaceae	Karata	Nov.-June
112	<i>Distimake quinquefolius</i> (L.) A. R. Simões & Staples	Convolvulaceae		Jul.-Oct.
113	<i>Duranta erecta</i> L.	Verbenaceae		Throughout the year
114	<i>Ecobolium ligustrinum</i> (Vahl) Vollesen	Acanthaceae	Ran-Aboli	Oct.-May
115	<i>Echinops echinatus</i> Roxb.	Asteraceae	Utanti	Sep.-Jan.
116	<i>Eclipta prostrata</i> (L.) L.	Asteraceae	Maka	Jul.-Feb.

117	<i>Emilia sonchifolia</i> (L.) DC.	Asteraceae	Dhamapan	Aug.-Dec.
118	<i>Erythrina lysistemon</i> Hutch.	Fabaceae		Feb.-Jun.
119	<i>Erythrina variegata</i> L.	Fabaceae	Pangara	Feb.-Jun.
120	<i>Eucalyptus alba</i> Reinw. ex Blume	Myrtaceae	Nilgiri	Apr.-Jul.
121	<i>Euphorbia geniculata</i> Ortega	Euphorbiaceae	Dudhali	Jul.-Dec.
122	<i>Euphorbia nerifolia</i> L.	Euphorbiaceae		Dec.-May
123	<i>Euphorbia thymifolia</i> L.	Euphorbiaceae		Jun.-Sep.
124	<i>Euphorbia tirucalli</i> L.	Euphorbiaceae	Sher	Aug.-Sep.
125	<i>Euphorbia birta</i> L.	Euphorbiaceae	Dudhanali	Jul.-Dec.
126	<i>Euphorbia hypericifolia</i> L.	Euphorbiaceae		Jun.-Nov.
127	<i>Euphorbia milii</i> Des Moul.	Euphorbiaceae		Throughout the year
128	<i>Euphorbia nutans</i> Lag.	Euphorbiaceae		Jun.-Oct.
129	<i>Euphorbia prostrata</i> Aiton	Euphorbiaceae	Gondan	Jun.-Mar.
130	<i>Euphorbia tithymaloides</i> L.	Euphorbiaceae		Feb.-Jun.
131	<i>Evolvulus alsinoides</i> L.	Convolvulaceae	Vishnukranta	Jul.-Nov.
132	<i>Ficus benghalensis</i> L.	Moraceae	Wad	Oct.-Jun.
133	<i>Ficus benjamina</i> L.	Moraceae	Pakal	Jul.-Dec.
134	<i>Ficus hispida</i> L.f.	Moraceae	Kai-Umbar	Sep- Jul.
135	<i>Ficus racemosa</i> L.	Moraceae	Umbar	Feb.-Jun.
136	<i>Ficus religiosa</i> L.	Moraceae	Pimpal	Feb.-Aug.
137	<i>Galphimia gracilis</i> Bartl.	Malpighiaceae		Nov.-Feb.
138	<i>Gliricidia sepium</i> (Jacq.) Kunth	Fabaceae		Feb.-Mar.
139	<i>Gomphrena serrata</i> L.	Amaranthaceae		Jun.-Jan.
140	<i>Grangea maderaspatana</i> (L.) Poir.	Asteraceae	Mashipatri	Dec.-May
141	<i>Grona triflora</i> (L.) H. Ohashi & K. Ohashi	Fabaceae		Throughout the year
142	<i>Hamelia patens</i> Jacq.	Rubiaceae	Tikava	Jun.-Sep.

143	<i>Heliotropium ovalifolium</i> Hassl.	Boraginaceae		Jun.-Mar.
144	<i>Heliotropium indicum</i> L.	Boraginaceae		Throughout the year
145	<i>Hemidesmus indicus</i> (L.) R. Br. ex Schult.	Apocynaceae	Anantvel	Aug.-Dec.
146	<i>Hibiscus lobatus</i> (Murray) Kuntze	Malvaceae		Jul.-Jan.
147	<i>Hibiscus rosa-sinensis</i> L.	Malvaceae	Jaswand	Throughout the year
148	<i>Holoptelea integrifolia</i> Planch.	Ulmaceae	Papda, Chilar	Jan.-Jun.
149	<i>Hyptis suaveolens</i> (L.) Poit.	Lamiaceae	Bhatukli	Oct.-Mar.
150	<i>Indigofera trita</i> L. f.	Fabaceae		Oct.-Jan.
151	<i>Indigofera tinctoria</i> L.	Fabaceae		Aug.-Feb.
152	<i>Ipomoea nil</i> (L.) Roth	Convolvulaceae		Aug.-Nov.
153	<i>Ipomoea obscura</i> (L.) Ker Gawl.	Convolvulaceae	Pungri	
154	<i>Ipomoea triloba</i> L.	Convolvulaceae		Sep.-Dec.
155	<i>Ipomoea aquatica</i> Forssk.	Convolvulaceae	Nelachi Bhaji	Sep.-Apr.
156	<i>Ipomoea cairica</i> (L.) Sweet	Convolvulaceae		Nov.-Jul.
157	<i>Ipomoea carnea</i> Jacq.	Convolvulaceae	Beshram	Throughout the year
158	<i>Ipomoea eriocarpa</i> R. Br.	Convolvulaceae	Ran Bhoori	Aug.-Dec.
159	<i>Ixora coccinea</i> L.	Rubiaceae	Bakara	Throughout the year
160	<i>Jacquemontia pentantha</i> (Jacq.) G. Don	Convolvulaceae		Dec.-Apr.
161	<i>Jasminum sambac</i> (L.) Aiton	Oleaceae	Mogra	Mar.-May
162	<i>Jatropha gossypifolia</i> L.	Euphorbiaceae	Chandrajyoti	Feb.-Jun.
163	<i>Jatropha podagrica</i> Hook.	Euphorbiaceae		Oct.-Dec.
164	<i>Jatropha integerrima</i> Jacq.	Euphorbiaceae		Jul.-Jan.
165	<i>Justicia adhatoda</i> L.	Acanthaceae	Adulsa	Aug.-Mar.
166	<i>Kalanchoe pinnata</i> (Lam.) Pers.	Crassulaceae	Panphuti	Throughout

				the year
167	<i>Kalanchoe blossfeldiana</i> Poelln.	Crassulaceae	Panphuti	Dec.-Mar.
168	<i>Khaya senegalensis</i> A. Juss.	Meliaceae	Mahogany	Jul.-Dec.
169	<i>Lagascea mollis</i> Sch. Bip.	Asteraceae		Jul.-Dec.
170	<i>Lagerstroemia reginae</i> Roxb.	Lythraceae	Taman	Feb.-Jun.
171	<i>Lantana camara</i> L.	Verbenaceae	Kamuni	Throughout the year
172	<i>Laportea interrupta</i> (L.) Chew	Urticaceae	Aagya	Jul.-Oct.
173	<i>Launaea procumbens</i> (Roxb.) Ramayya & Rajagopal	Asteraceae	Pathari	Aug.-Oct.
174	<i>Leonotis nepetifolia</i> (L.) R.Br.	Lamiaceae	Dimpal	Oct.-Feb.
175	<i>Lepidagathis cristata</i> Willd.	Acanthaceae	Bhuigend	Oct.-May
176	<i>Leucaena leucocephala</i> (Lam.) de Wit	Fabaceae	Subabhul	Aug.-Mar.
177	<i>Limonia acidissima</i> Houtt.	Rutaceae	Kawath	Feb.-Mar.
178	<i>Luffa cylindrica</i> (L.) M. Roem.	Cucurbitaceae	Gilka	Aug.-Dec.
179	<i>Lycopersicon lycopersicum</i> (L.) H. Karst.	Solanaceae	Tamatar	Throughout the year
180	<i>Magnolia champaca</i> (L.) Baill. ex Pierre	Ranunculaceae	Chafa	Jun.-Sep.
181	<i>Malachra capitata</i> L.	Malvaceae	Ran-Bhendi	Apr.-Dec.
182	<i>Malvastrum coromandelianum</i> (L.) Garcke	Malvaceae	Jangli Chikna	Jun.-Dec..
183	<i>Mangifera indica</i> L.	Anacardiaceae	Amba, Aam	Jan.-Jun.
184	<i>Martynia annua</i> L.	Martyniaceae	Waghnaakhi	Jun.-Dec..
185	<i>Melia azedarach</i> L.	Meliaceae	Bakneem	Jul.-Aug.
186	<i>Melilotus albus</i> Medik.	Fabaceae	Dhekna	Feb.-Mar.
187	<i>Mentha arvensis</i> L.	Lamiaceae	Mint	Aug.-Nov.
188	<i>Merremia emarginata</i> (Burm. f.) Hallier f.	Convolvulaceae	Undirkani	Sep.-Jun.
189	<i>Microcarpaea minima</i> (Retz.) Merr.	Phrymaceae		Aug.-Dec.

190	<i>Millingtonia hortensis</i> L.f.	Bignoniaceae	Neem chameli	Oct.-Feb.
191	<i>Mimosa hamata</i> Willd.	Fabaceae	Arati	Jul.-Dec.
192	<i>Mimosa pudica</i> L.	Fabaceae	Lajalu	
193	<i>Mimusops elengi</i> Bojer	Sapotaceae	Bakul	Jan.-Mar.
194	<i>Momordica charantia</i> L.	Cucurbitaceae	Karla	Apr.-Oct.
195	<i>Moringa oleifera</i> Lam.	Moringaceae	Shevga	Jan.-Apr.
196	<i>Morus alba</i> L.	Moraceae	Tuti	Jul.-Mar.
197	<i>Murraya paniculata</i> (L.) Jack	Rutaceae	Kunti	Jun.-Jan.
198	<i>Murraya koenigii</i> (L.) Spreng.	Rutaceae	Kari-Patta	Feb.-Jun.
199	<i>Nelumbo nucifera</i> Gaertn.	Nelumbonaceae	Kamal-Kankadi	Jul.-Oct.
200	<i>Nerium oleander</i> L.	Apocynaceae	Kanher	Throughout the year
201	<i>Nicotiana plumbaginifolia</i> Viv.	Solanaceae		Sep.-Apr.
202	<i>Nymphaea nouchali</i> Burm.f.	Nymphaeaceae	Kamal	Throughout the year
203	<i>Nymphaea rubra</i> Roxb. ex Andrews	Nymphaeaceae	Kumud	Throughout the year
204	<i>Ocimum basilicum</i> L.	Lamiaceae	Sabja	Aug.-Nov.
205	<i>Ocimum tenuiflorum</i> L.	Lamiaceae	Tulas	Sep.-Feb.
206	<i>Oldenlandia corymbosa</i> L.	Rubiaceae		Apr.-Sep.
207	<i>Oldenlandia herbacea</i> (L.) Roxb.	Rubiaceae		Jul.-Dec.
208	<i>Oxalis corniculata</i> L.	Oxalidaceae	Ambti	Throughout the year
209	<i>Oxalis dehradunensis</i> Raizada	Oxalidaceae		May.-Nov.
210	<i>Parthenium hysterophorus</i> L.	Asteraceae	Gajar Gavat	Sep.-Jan.
211	<i>Peltophorum pterocarpum</i> (DC.) K. Heyne	Fabaceae	Somohar	Jan.-Jun.
212	<i>Pentas lanceolata</i> (Forssk.) Deflers	Rubiaceae		Jul.-May
213	<i>Pergularia daemia</i> (Forssk.) Chiov.	Apocynaceae	Utran	Mar.-Dec.

214	<i>Peristrophe paniculata</i> (Forssk.) Brummitt	Acanthaceae		Oct.-Feb.
215	<i>Persicaria barbata</i> (L.) H. Hara	Polygonaceae		Oct.-Apr.
216	<i>Persicaria glabra</i> (Willd.) M.Gómez	Polygonaceae		Throughout the year
217	<i>Petrea volubilis</i> L.	Verbenaceae		Mar.-Nov.
218	<i>Phyla nodiflora</i> (L.) Greene	Verbenaceae	Gour mundi	Aug.-Dec.
219	<i>Phyllanthus emblica</i> L.	Phyllanthaceae	Aawla	Jul.-Sep.
220	<i>Phyllanthus fraternus</i> G. L. Webster	Phyllanthaceae		Jul.-Dec.
221	<i>Phyllanthus maderaspatensis</i> L.	Phyllanthaceae		Jul.Sep.
222	<i>Phyllanthus urinaria</i> L.	Phyllanthaceae	Bhuiawla	Jul.-May
223	<i>Phyllanthus amarus</i> Schumach. & Thonn.	Phyllanthaceae		Jul.-Aug.
224	<i>Phyllanthus reticulatus</i> Poir.	Phyllanthaceae	Pisaundi	Jan.-Jun.
225	<i>Physalis minima</i> L.	Solanaceae	Phophandra	Jul.-Apr.
226	<i>Physalis pubescens</i> L.	Solanaceae		Jul.-Nov.
227	<i>Pilea microphylla</i> (L.) Liebm.	Urticaceae		Aug.-Feb.
228	<i>Piper betle</i> L.	Piperaceae	Pan	Mar.-Apr.
229	<i>Piper longum</i> L.	Piperaceae	Lendi pimpli	Oct.-Mar.
230	<i>Pithecellobium dulce</i> (Roxb.) Benth.	Fabaceae	Chichbil	Jan.- Jun.
231	<i>Plumbago zeylanica</i> L.	Plumbaginaceae	Chitrak	Mar.-Dec.
232	<i>Plumeria pudica</i> Jacq.	Apocynaceae		Throughout the year
233	<i>Plumeria rubra</i> L.	Apocynaceae		Mar.-Sep.
234	<i>Polyalthia longifolia</i> (Sonn.) Thwaites	Annonaceae	Khota-Ashok	Jul.-Sep.
235	<i>Pongamia pinnata</i> (L.) Pierre	Fabaceae	Karanj	Feb.-May
236	<i>Portulaca oleracea</i> L.	Portulacaceae	Mothi Ghol	Throughout the year
237	<i>Prosopis juliflora</i> (Sw.) DC.	Fabaceae	Vilayti babhul	Feb.-May

238	<i>Pseudarthria viscida</i> (L.) Wight & Arn.	Fabaceae		Feb.-Mar.
239	<i>Psidium guajava</i> L.	Myrtaceae	Amrud, Jam	Nov.-Jun.
240	<i>Punica granatum</i> L.	Lythraceae	Anar	Aug.-Nov.
241	<i>Pyrostegia venusta</i> (Ker Gawl.) Miers	Bignoniaceae		Dec.-Mar.
242	<i>Rhynchosia minima</i> (L.) DC.	Fabaceae		Sep.-Mar.
243	<i>Ricinus communis</i> L.	Euphorbiaceae	Erand	Nov.-Jun.
244	<i>Rosa alba</i> L.	Rosaceae		Throughout the year
245	<i>Rosa indica</i> L.	Rosaceae	Gulab	Throughout the year
246	<i>Rumex crispus</i> L.	Polygonaceae		May-Jan.
247	<i>Rungia pectinata</i> (L.) Nees	Acanthaceae		Oct.-Mar.
248	<i>Santalum album</i> L.	Santalaceae	Chandan	Mar.-Aug.
249	<i>Saraca asoca</i> (Roxb.) Willd.	Fabaceae	Ashok	Jan.-Jun.
250	<i>Scoparia dulcis</i> L.	Plantaginaceae		Throughout the year
251	<i>Sebastiania chamaelea</i> (L.) Mull.Arg	Euphorbiaceae	Bhui Erandi	Jul.-Dec.
252	<i>Securinega virosa</i> (Roxb. ex Willd.) Baill.	Phyllanthaceae	Pandhri Pisaundi	Apr.-Oct.
253	<i>Senecio vulgaris</i> L.	Asteraceae		Oct.-Mar.
254	<i>Senna occidentalis</i> (L.) Link	Fabaceae		May.-Dec.
255	<i>Senna siamea</i> (Lam.) H. S. Irwin & Barneby	Fabaceae	Kashid	Aug.-May
256	<i>Senna tora</i> (L.) Roxb.	Fabaceae	Tarota	Aug- Feb
257	<i>Sida spinosa</i> L.	Malvaceae		Mar.-Dec.
258	<i>Sida acuta</i> Burm.f.	Malvaceae	Chikna	Sep.-Dec.
259	<i>Sida cordata</i> (Burm.f.) Borss.Waalk	Malvaceae		July- Dec.
260	<i>Sida mysorensis</i> Wight & Arn.	Malvaceae		Oct.-Feb.
261	<i>Sida rhombifolia</i> L.	Malvaceae		Jul.-Dec.

262	<i>Solanum nigrum</i> L.	Solanaceae	Kangani	May.-Jun.
263	<i>Solanum torvum</i> Sw.	Solanaceae		Sep.-Jan.
264	<i>Solanum virginianum</i> L.	Solanaceae	Kate-Ringani	Dec.-May
265	<i>Sonchus asper</i> (L.) Hill	Asteraceae		Jan.-Mar.
266	<i>Sonchus oleraceus</i> (L.) L.	Asteraceae		Sep.-May
267	<i>Soymida febrifuga</i> (Roxb.) A. Juss.	Meliaceae	Rohan, Rohin	Feb.-Jul.
268	<i>Spathodea campanulata</i> P. Beauv.	Bignoniaceae		Jul.-Mar.
269	<i>Spermacoce articularis</i> L.f.	Rubiaceae	Madanghanti	Sep.-Nov.
270	<i>Sphagneticola calendulacea</i> (L.) Pruski	Asteraceae		Mar.-Oct.
271	<i>Spilanthes acmella</i> A. Chev.	Asteraceae		Jun.-Sep.
272	<i>Spilanthes paniculata</i> DC.	Asteraceae	Akkalkara	Sep.- Dec.
273	<i>Syzygium cumini</i> (L.) Skeels	Myrtaceae	Jambhul	Mar.-Jun.
274	<i>Tabebuia aurea</i> (Silva Manso) Benth. & Hook.f. ex S. Moore	Bignoniaceae		Feb.-Apr.
275	<i>Tabernaemontana citrifolia</i> L.	Apocynaceae	Swastik	Throughout the year
276	<i>Tabernaemontana divaricata</i> (L.) R.Br. ex Roem. & Schult.	Apocynaceae		Throughout the year
277	<i>Tagetes erecta</i> L.	Asteraceae	Zendu	Sep.-Oct.
278	<i>Tagetes patula</i> L.	Asteraceae	Zendu	Sep.-Dec.
279	<i>Tamarindus indica</i> L.	Fabaceae	Chinch	Jun.-Apr.
280	<i>Taraxacum mongolicum</i> Hand.-Mazz.	Asteraceae		Mar.-Nov.
281	<i>Tecoma stans</i> (L.) Juss. ex Kunth	Bignoniaceae		Throughout the year
282	<i>Tectona grandis</i> L.f.	Lamiaceae	Sagvan	Aug.-Dec.
283	<i>Telosma pallida</i> (Roxb.) Craib	Apocynaceae		Apr.-May
284	<i>Tephrosia purpurea</i> (L.) Pers.	Fabaceae	Diwali	Aug.-Mar.
285	<i>Tephrosia villosa</i> (L.) Pers.	Fabaceae		Jul.-Nov.

286	<i>Teramnus labialis</i> (L.f.) Spreng.	Fabaceae	Ran-ulid	Sep.-Dec.
287	<i>Terminalia arjuna</i> (Roxb. ex DC.) Wight & Arn.	Combretaceae	Arjun	Feb.-Nov.
288	<i>Terminalia catappa</i> L.	Combretaceae	Deshi-Badam	Apr.-Oct.
289	<i>Terminalia phillyreifolia</i> (Van Heurck & Müll.Arg.) Gere & Boatwr.	Combretaceae		Jan.-Apr.
290	<i>Thunbergia erecta</i> (Benth.) T. Anderson	Acanthaceae		Oct.-Apr.
291	<i>Thunbergia fragrans</i> Roxb.	Acanthaceae		Sep.-Oct.
292	<i>Tinospora cordifolia</i> (Willd.) Hook.f. & Thomson Menispermaceae	Menispermaceae	Gulvel	July- Dec.
293	<i>Torenia crustacea</i> (L.) Cham. & Schltdl.	Linderniaceae		Aug.-Dec.
294	<i>Tribulus terrestris</i> L.	Zygophyllaceae	Gokhru	Throughout the year
295	<i>Trichodesma zeylanicum</i> (Burm.f.) R.Br.	Boraginaceae		Nov.-Feb.
296	<i>Trichosanthes cucumerina</i> L.	Cucurbitaceae	Kawlyachi Shidori	Aug.- Oct
297	<i>Tridax procumbens</i> (L.) L.	Asteraceae	Kambarmodi	Throughout the year
298	<i>Triumfetta pentandra</i> A. Rich.	Malvaceae	Nichardi	Aug.-Apr.
299	<i>Urena lobata</i> L.	Malvaceae	Jangali-Kapus	Jul.-Dec.
300	<i>Vallis glabra</i> (L.) Kuntze	Apocynaceae		Dec.-Mar.
301	<i>Verbascum chinense</i> (L.) Santapau	Scrophulariaceae	Kutaki	Sep.-Jun.
302	<i>Vernonia cinerea</i> (L.) Less.	Asteraceae	Sahadevi	Jul.-Feb.
303	<i>Vigna trilobata</i> (L.) Verdc.	Fabaceae		Oct.-Feb.
304	<i>Vitex negundo</i> L.	Lamiaceae	Nirgudi	Jun.-Sep.
305	<i>Wattakaka volubilis</i> (L. f.) Stapf	Apocynaceae	Hirandodi	Apr.-Dec.
306	<i>Xanthium strumarium</i> L.	Asteraceae	Shankeshvar	Oct.-Mar.
307	<i>Ziziphus jujuba</i> Mill.	Rhamnaceae	Bor	Sep.- Dec.

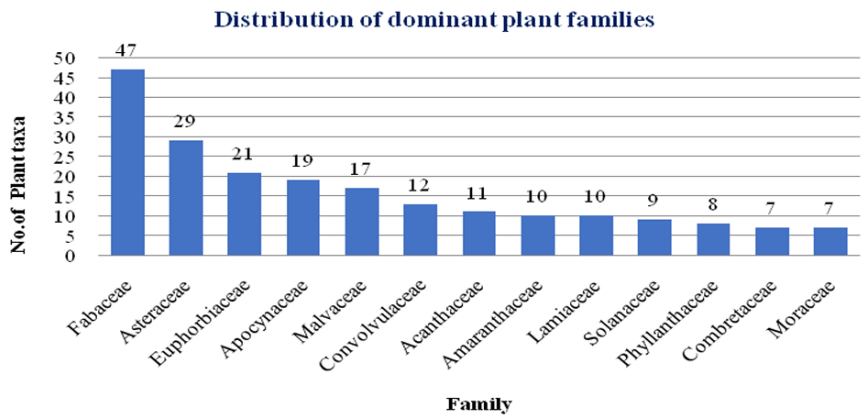


Figure1: Distribution of dominant families

Discussion and Conclusion

Among the 62 families Fabaceae (47 taxa) was dominantly distributed followed by Asteraceae, Euphorbiaceae, Apocyanaceae, Malvaceae, Convolvulaceae, Amaranthaceae, Lamiaceae, Solanaceae, Phylanthaceae, Combretaceae and Moraceae (Fig.1). Among the 309 Plant species 144 were found to be cultivated flora for the purpose of ornamentation. From recorded plant species of study area distributed as 144 herbs, 62 shrubs, 63 trees, 38 climber and twiners (**Fig-2**).

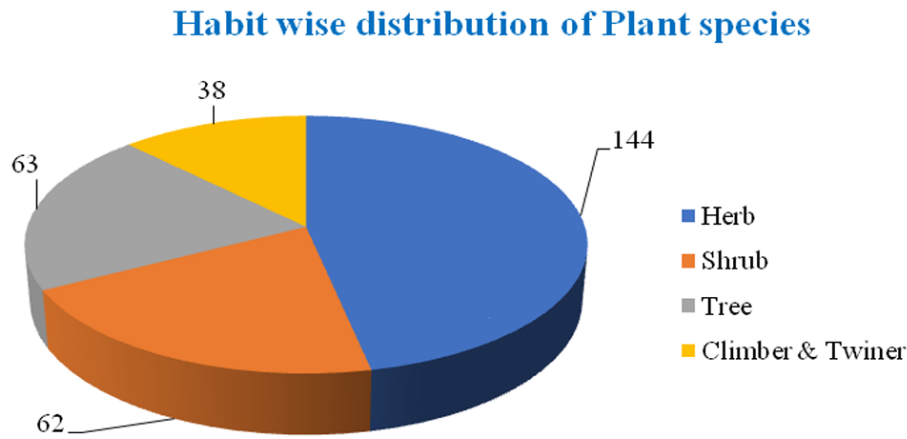


Figure 2: Habit wise distribution of plant species

The present investigation of study area provided documentation of dicot flora. Data analysis shows that Ambazari Lake premises have rich biodiversity of dicot plant species. Dicot flora is distributed in all forms of habits viz. Herb, Shrub, Tree, Climber and Twiners.

References

- [1] Almeida, M. R. (1998). The Flora of Maharashtra, Orient Press, Mumbai.
- [2] Bhuskute, S. M. (1989). New Plant Records for Nagpur District (M.S.). Ind. Bot. Rep 8(1):39-42.
- [3] Bhuskute, S. M. (1990). New Plant Records for Nagpur District (M.S.)- II. Ind Bot Rep 9(2): 61-65.
- [4] Gadpayale, J. V., Somkuwar, S. R. and Chaturvedi, A. (2014). Some noteworthy addition to the Flora of Nagpur district (M.S.). Int. J. of Life Science, Special issue, A2: 35-38.
- [5] Gokhre, P. D., Kamble, R. B., Ugemuge, N. R. and Chaturvedi, A. (2016). Diversity and distribution of Angiospermic climbing plants of Nagpur City, Maharashtra. Int. J. of Life Sciences, Special Issue A6: 59-63.
- [6] Kamble, R. B., Somkuwar, S., Chaturvedi, A. and Ugemuge, N. (2015). New additions to the flora of Nagpur District, Maharashtra V, Journal of Global Biosciences, 4(5): 23343-2347.
- [7] Kamble, R. B. and Chaturvedi, A. (2014). New additions to the Flora of Nagpur District, Maharashtra – IV. Bioscience Discovery, 5(2): 160-162.
- [8] Kamble, R. B., Hate, S. and Chaturvedi, A. (2013). New additions to the Flora of Nagpur district (M.S.), India. J new Biol Rep, 2(1): 09-13.
- [9] Kamble, R. B., Hate, S., Mungole, A. and Chaturvedi, A. (2013). New Record of Some Rare Plants to the Flora of Nagpur District, Maharashtra. J New Biol Rep, 2(2): 103- 107.
- [10] Naqvi N., Gurao, S. & Humane, P. (2022). Ethnobotanical Survey on Trees of Seminary Hills, Nagpur (M.S.): An Approach Towards Plant Conservation. Current World Environment, 17(3): 678-689.
- [11] Singh, N. P, Karthikeyan, S. (2000). Flora of Maharashtra State: Dicotyledones, Vol. 1. Botanical Survey of India.
- [12] Singh, N. P, Lakshminarasimhan, P., Karthikeyan, S., Prasanna, P. V. (2001). Flora of Maharashtra, State: Dicotyledones, Vol. 2: (Combretaceae to Ceratophyllaceae), Botanical Survey of India.
- [13] Somkuwar, S. R., Gadpayale, J. V. and Chaturvedi, A. (2015). New Plant Records to the Flora of Nagpur District (M.S.), India. IJRBAT, Special Issue-(6): 93-95.

- [14] Thakre, M. T. and Srinivasu T. (2013). New Plant species records to Flora of Nagpur District (Maharashtra). *Journal of Global Biosciences*, 2(6): 202-205.
- [15] Thakre M. T. & Srinivasu T. (2015). Some New Plant Records to Flora of Nagpur District (Maharashtra, India). *Biodiversity of India* Vol. 8: 333-340
- [16] Thakre M. T. & Srinivasu T. (2012a). New (Fabaceae member) records to Nagpur district. *MFP News XXII*: (2): 4-5.
- [17] Thakre M. T. & Srinivasu T. (2012b). New plant records of Nagpur district. *MFP New XXII*: (3): 6-10.
- [18] Ugemuge N. R. (1986). *Flora of Nagpur District*, Shree Publication, Nagpur

