

Enumeration of flowering plants from Raje Ramrao Mahavidyalaya campus, Jath (Maharashtra) India

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ABSTRACT

Studies on the flora of Raje Ramrao Mahavidyalaya campus, Jath was conducted from December, 2010 to December, 2017. A total of 318 species representing 232 genera belonging to 69 families were collected, identified and enumerated. A total of 180 genera representing 248 species identified are dicotyledons and 70 species of 52 genera are monocotyledons. Considering the rapidly changing land use in the campus for building and road construction, much attention should be paid towards the conservation of both flora and fauna, for which the present survey provide baseline data.

Key words: Enumeration, Flowering Plants, Raje Ramrao Mahavidyalaya, Campus, Conservation, Jath.

INTRODUCTION

A very little attention has been paid to study the floristic diversity of Sangli District including Jath Tahsil. So till today no authentic Flora of Sangli District and Jath Tahsil have been published. Cooke (1901-08) has reported very few plants from Sangli district in 'Flora of the Presidency of Bombay'. Mahajan and Vaidhya (1987) have recorded about 110 plant species from Petlond region of Sangli District, while Kate (1987) has reported 52 plant species from Sangli city. Sharma *et al.*, (1996), Singh and Karthikeyan (2000) and Singh *et al.* (2004) have reported 47 species from Sangli District in the 'Flora of Maharashtra' published by BSI in 3 volumes. Bachulkar and Awale (2009) have reported 365 plant species from Sagarshwar Wild Life Sanctuary. Awale *et al.* (2011) have published arboreal flora of Sangli-Miraj-Kupwad City Corporation and reported 210 tree species. Sathe *et al.* (2008, 2012) investigated the comparative studies on floristic diversity of three sacred groves, viz. Arewadi, Banali and Raiwadi from arid zone of Sangli district and reported 264 angiosperm plant species belonging to 67 families. Recently Awale (2014) has carried out floristic studies of Sangli District and reported 1541 angiosperm plant species belonging to 164 families of which 1253 are dicotyledons belonging to 135 families and 288 are monocotyledons belonging to 29 families.

There is no any separate authentic report on the angiosperm flora of campus of Raje Ramrao Mahavidyalaya, Jath is available in above literature. Hence, the present work has been undertaken which deals with the floristic diversity of flowering plants of campus in the former sense, *i.e.*, the number of individual species in the area.

MATERIAL METHODS

Study Area

Raje Ramrao Mahavidyalaya, Jath (run by Shri Swami Vivekanand Shikshan Santha, Kolhapur and named after Shrimant Raje Ramrao Dafale the former prince of Jath Sansthan) was formally inaugurated in June, 1969. Raje Ramrao Mahavidyalaya is located near Sunetra Colony behind the Palace on Jath-Sangli road in Jath City, Maharashtra, India. It is located between 17°03'01.5" N latitude and 75°11'58.8" E longitude. (Fig.1)

Studies on the flora of Raje Ramrao Mahavidyalaya campus, Jath was conducted from December, 2010 to December, 2017 in different seasons to observe and collect the angiospermic species. Specimens were identified by using various regional and national floras and available literature of Bentham & Hooker (1862-83), Cooke (1901-1908); Kate (1987); Gopalswamiengar (1991); Naik (1998); Sharma, *et al.*, (1996); Singh and Karthikeyan, (2000); Singh *et al.*, (2004); Yadav and Sardesai (2002); Bhagat *et al.*, (2008); Chetty *et al.*, (2008) and Chaudhary *et al.* (2012). Identification was confirmed by the plant expert Taxonomists of Department of Botany Shivaji University, Kolhapur and



Fig.1: Map showing A. Main building B. Canteen C₁. Ladies Hostel 1, C₁. Ladies Hostel 2, D. Science Laboratory, E. Gymkhana, F₁. Play Ground 1, F₂. Play Ground 2, & G. Wetland of Raje Ramrao College Campus, Jath

its affiliated Mahavidyalayas. In the enumeration the sequence of families has been followed as per Bentham and Hooker's classification system. The nomenclature has been based on the latest taxonomic literature for each species; botanical name is followed by local name, Habit and period of flowering-fruiting (Table 1).

RESULTS & DISCUSSION

The present work on angiospermic flora of Raje Ramrao Mahavidyalaya Campus, Jath reports 318 species of angiosperms representing 232 genera belonging to 69 families (Table 1).

Table 1: Checklist of Angiospermic flora of Raje Ramrao Mahavidyalaya Campus, Jath

Sr. No.	Family & Botanical Name	Local Name	HB	Flowers & Fruits
1)	Annonaceae Juss.			
1	<i>Annona reticulata</i> L.	Ramphal	MT	Mar.-July
2	<i>Annona squamosa</i> L.	Sitaphal	ST	May-Aug
3	<i>Artabotrys hexapetalous</i> (L.f.) Bhandari	Hirava Chapha	S	Th. Yr.
4	<i>Polyalthia longifolia</i> (Sonn.)Thwaites	Khota Ashok	T	Feb.-Aug.
2)	Menispermaceae Juss.			
5	<i>Cocculus hirsutus</i> (L.) W.Theob.	Wasan vel	C	Feb.-May.
6	<i>Tinospora sinensis</i> (Lour.) Merr	Gulvel	WC	Aug.-Jan.
3)	Nymphaeaceae Salisb.			
7	<i>Nymphaea rubra</i> Roxb. ex Andrews	Kumud	H	Th. Yr.

4)	Papaveraceae Juss.			
8	<i>Argemone mexicana</i> L.	Pivala Dhotra	H	Th. Yr.
5)	Brassicaceae Burnett			
9	<i>Brassica juncea</i> (L.) Czern.	Mohari	H	Mar.-May.
6)	Cleomaceae Bercht. & J. Presl.			
10	<i>Cleome gynandra</i> L.	Pandhari tilwan	H	Aug.-Feb.
11	<i>Cleome simplicifolia</i> Hook. F. & Thomson	Gawati tilwan	H	July-Nov.
12	<i>Cleome viscosa</i> L.	Pivali tilwan	H	Th. Yr.
7)	Capparaceae Juss.			
13	<i>Capparis zeylanica</i> L.	Wagati	WC	Dec.-May
8)	Polygalaceae Haffmann. & Link			
14	<i>Polygala arvensis</i> Willd	Sanjivani	H	June-Sept.
15	<i>Polygala erioptera</i> DC.	Gulpankhi	H	June- Jan.
9)	Portulacaceae Juss.			
16	<i>Portulaca oleracea</i> L.	Ghol	H	Th. Yr.
17	<i>Portulaca quadrifida</i> L.	Ranghol	H	Sept.-Feb.
10)	Elatinaceae Dumort.			
18	<i>Bergia ammannioides</i> Roxb. ex Roth.	Waterwort	H	Oct.-Dec.
11)	Malvaceae Juss.			
19	<i>Abelmoschus esculentus</i> (L.) Moench.	Bhendi	H	Th. Yr.
20	<i>Abutilon indicum</i> (L.) Sweet	Petari, Mudra	S	Aug.-Feb.
21	<i>Corchorus trilocularis</i> L.	Kadu-Chinch	H	Aug.-Feb.
22	<i>Gossypium herbaceum</i> L.	Kapus	S	Th. Yr.
23	<i>Hibiscus rosa-sinensis</i> L.	Jaswand	S	Th. Yr.
24	<i>Malvastrum coromandelianum</i> (L.) Garcke	Chandiri	US	Th. Yr.
25	<i>Sida acuta</i> Burm.f.	Tupkadi, Bala	H	Sept.-Feb.
26	<i>Sida rhombifolia</i> L.	Jangli methi	US	Sept.-Jan.
27	<i>Thespesia populnea</i> (L.) Sol. ex Correa.	Gul Bhendi	T	Aug.-Jan.
12)	Muntingiaceae C. Bayer, M.W. Chase & M. F. Fay			
28	<i>Muntingia calabura</i> L.	Singapore Cherry	T	Th. Yr.
13)	Malpighiaceae Juss.			
29	<i>Galphimia gracilis</i> Bartl.	Madhumalati	S	Th. Yr.
14)	Zygophyllaceae R. Br.			
30	<i>Balanites aegyptica</i> (L.) Del.	Hinganbet	S	Nov.-Apr.
31	<i>Tribulus terrestris</i> L.	Sarata, Gokharu	H	Feb.-Nov.
15)	Geraniaceae Juss.			
32	<i>Monsonia senegalensis</i> Guill. & Perr.	Varsharani	H	Aug.-Sept.
16)	Oxalidaceae R. Br.			
33	<i>Oxalis corniculata</i> L.	Ambushi	H	Th. Yr.
17)	Rutaceae Juss.			

34	<i>Aegle marmelos</i> (L.) Correa	Bel	AT	Apr.-Sept.
35	<i>Citrus aurantiifolia</i> (Christm.) Swingle	Limbu	ST	Th. Yr.
36	<i>Murraya koenigii</i> (L.) Spreng.	Kadi-Patta	ST	Jan.-July
18)	Simaroubaceae DC.			
37	<i>Ailanthus excelsa</i> Roxb.	Maharukh	T	Nov.-Apr.
38	<i>Simarouba amara</i> Aubl.	Laxmitaru	T	Dec.-Feb.
19)	Meliaceae Juss.			
39	<i>Azadirachta indica</i> A. Juss.	Kadu Nimb	T	Feb.-Sept.
20)	Rhamnaceae Juss.			
40	<i>Ziziphus jujuba</i> Mill.	Bor, Ber	S	Sept.-Jan.
41	<i>Ziziphus nummularia</i> (Burm.f.) Wight & Arn	Bor, Ber	ST	Sept.-Jan.
42	<i>Ziziphus xylopyrus</i> (Retz.) Willd.	Hadkibor, Gutti	ST	Mar.-June
21)	Sapindaceae Juss.			
43	<i>Dodonaea viscosa</i> subsp. <i>angustifolia</i> (L.f.) J.G.West	Bandukicha pala	S	May-Jan.
22)	Anacardiaceae R. Br.			
44	<i>Mangifera indica</i> L.	Amba	T	Sept.-Aug.
23)	Moringaceae Martinov			
45	<i>Moringa oleifera</i> Lam.	Shevaga	MT	Th. Yr.
24)	Leguminosae Juss.			
46	<i>Acacia auriculiformis</i> Benth.	Australian Babul	T	Dec.-Feb.
47	<i>Acacia farnesiana</i> (L.) Willd.	Dev Babhul	S	Nov.-Feb.
48	<i>Acacia leucophloea</i> (Roxb.) Willd.	Hivar	T	Nov.-Feb.
49	<i>Acacia nilotica</i> (L.) Delile.	Babhul	T	June-Feb.
50	<i>Albizia saman</i> (Jacq.) Merr.	Parjanya Vriksha	T	Mar.-July
51	<i>Albizia lebbek</i> (L.) Benth.	Shirish	T	Apr.-Aug
52	<i>Alysicarpus tetragonolobus</i> Edgew.	Lal shevra	H	July-Dec.
53	<i>Alysicarpus vaginalis</i> (L.) DC.	Chauli, Sauri	H	Sept.-Dec.
54	<i>Bauhinia purpurea</i> L.	Kanchan	T	Sept.-Jan.
55	<i>Bauhinia variegata</i> L.	Kanchan	T	
56	<i>Butea monosperma</i> (Lam.) Taub.	Palas	T	Mar.-June
57	<i>Cajanus cajan</i> (L.) Millsp.	Tur	US	Sept.-Feb.
58	<i>Calliandra haematocephala</i> Hassk.	Red powder puff	S	Nov.-Feb.
59	<i>Cassia fistula</i> L.	Bahava	MT	Mar.-Aug
60	<i>Clitoria ternatea</i> L.	Nili Gokarna	TS	Sept.-Dec.
61	<i>Crotalaria calycina</i> Schrank	Khulkhula	H	Aug.-Oct.
62	<i>Dalbergia sissoo</i> DC.	Shisav	T	Mar.-June
63	<i>Delonix regia</i> (Hook.) Raf.	Gulmohar	T	Feb.-Nov.
64	<i>Dichrostachys cinerea</i> (L.) Wight & Arn.	Durangi Babhul	S	Apr.-Aug
65	<i>Indigofera coerulea</i> Roxb.	Kalakitaka	S	Nov.-Jan.
66	<i>Indigofera cordifolia</i> Roth.	Godhadi	H	July-Nov.

67	<i>Indigofera linifolia</i> (L.f.) Retz.	Pandhar Phali	H	July-Nov.
68	<i>Indigofera linnaei</i> Ali	Bhingule	H	Sept.-Dec.
69	<i>Indigofera trita</i> L.f.		US	Sept.-Nov.
70	<i>Lysiloma latisiliquum</i> (L.) Benth.	Subabhul	T	July-Oct.
71	<i>Mimosa pudica</i> L	Lajalu	H	
72	<i>Pithecellobium dulce</i> (Roxb.) Benth.	Vilayati Chinch	T	Jan.-June
73	<i>Pongamia pinnata</i> (L.) Pierre	Karanj	T	Mar.-Aug.
74	<i>Prosopis juliflora</i> (Sw.) DC.	Vilayati Shami	T	Aug.-June
75	<i>Rhynchosia minima</i> (L.) DC.	Dhakta Ranghevda	TH	Sept.-Feb.
76	<i>Saraca asoca</i> (Roxb.) Willd.	Sitecha Ashok	ST	Dec.-May
77	<i>Senna auriculata</i> (L.) Roxb.	Tarwad	US	Jan.-July
78	<i>Senna italica</i> Mill.	Bhui-tarwad	H	Nov.-Feb.
79	<i>Senna occidentalis</i> (L.) Link	Rantakala	US	Jan.-Mar.
80	<i>Senna siamea</i> (Lam.) H. S. Irwin & Barneby	Kashid	T	May-Mar.
81	<i>Senna tora</i> (L.) Roxb.	Takala	H	Aug.-Dec.
82	<i>Senna uniflora</i> (Mill.) H. S. Irwin & Barneby	Takala	H	Aug.-Dec.
83	<i>Sesbania sesban</i> (L.) Merr.	Shevari	S	Aug.-Jan.
84	<i>Stylosanthes fruticosa</i> (Retz.) Alston	Habal	H	Sept.-Nov.
85	<i>Tamarindus indica</i> L.	Chinch	T	July-Nov.
86	<i>Tephrosia purpurea</i> (L.) Pers.	Unhali	US	Aug.-Dec.
87	<i>Tephrosia strigosa</i> (Dalzell) Sant.&Maheshw.		H	Aug.-Sept.
88	<i>Tephrosia subtriflora</i> Baker		H	Sept.-Dec.
89	<i>Vigna indica</i> T.M.Dixit, K.V.Bhat & S.R.Yadav.	Mukan	H	Aug.-Dec.
90	<i>Zornia gibbosa</i> Span.	Landgu	H	Aug.-Dec.
25)	Crassulaceae J. St. Hil.			
91	<i>Bryophyllum pinnatum</i> (Lam.) oken	Paanphuti	H	Jan.-Apr.
92	<i>Crassula ovata</i> (Mill.) Druce	Friendship Tree	S	
26)	Combretaceae R. Br.			
93	<i>Combretum indicum</i> (L.) De Filippis	Madhumalati	StS	Th. Yr.
94	<i>Terminalia catappa</i> L.	Deshi Badam	T	Mar.-Nov.
27)	Myrtaceae Juss.			
95	<i>Callistemon citrinus</i> (Curtis) Skeels	Bottlebrush	ST	Sept.-Feb.
96	<i>Eucalyptus globulus</i> Labill.	Nilgiri	T	Feb.-May
97	<i>Eucalyptus rudis</i> Endl.	Nilgiri	T	Apr.-May.
98	<i>Psidium guajava</i> L.	Peru	ST	Th. Yr.
99	<i>Syzygium cumini</i> (L.) Skeels	Jambhul	T	Mar.-July
28)	Lythraceae J. St. Hil.			
100	<i>Ammannia baccifera</i> L.	Dadmari	H	Aug.-Apr.
101	<i>Punica granatum</i> L.	Dalimb	S	Aug.-Nov.
29)	Caricaceae Dumort.			

102	<i>Carica papaya</i> L.	Papai	T	Th. Yr.
30)	Cucurbitaceae Juss.			
103	<i>Cucumis melo</i> L.	Chhanii	H	Aug.-Nov.
104	<i>Cucumis prophetarum</i> L.	Kadu Indrayan	H	Apr.-Aug.
105	<i>Cucumis sativus</i> L.	Kakadi	H	Apr.-Nov.
106	<i>Cucurbita maxima</i> Duch.	Tambda Bhopla	H	Aug.-Feb.
107	<i>Diplocyclos palmatus</i> (L.) C. Jeffrey.	Shivalingi	H	Aug.-Feb.
108	<i>Momordica charantia</i> L.	Karle	C	June-Nov.
109	<i>Mukia maderaspatana</i> (L.) M. Roem.	Tuntani	H	Sept.-Dec.
31)	Cactaceae Juss.			
110	<i>Epiphyllum macropterum</i> (Lem.) Britton & Rose	Bramha Kamal	H	July-Jan.
111	<i>Opuntia elatior</i> Mill.	Nivdung	S	Aug.-Jan.
32)	Aizoaceae Martinov			
112	<i>Trianthema portulacastrum</i> L.	Wasu	H	July-Jan.
33)	Apiaceae Lindl.			
113	<i>Coriandrum sativum</i> L.	Kothimbir	H	Th. Yr.
114	<i>Foeniculum vulgare</i> Mill.	Badishepu	H	Nov.-Apr.
34)	Rubiaceae Juss.			
115	<i>Canthium coromandelicum</i> (Burm.f.) Alston.	Kara, Karbit	AS	Apr.-Aug.
116	<i>Hamelia patens</i> Jacq.	Chota Hamelia	S	Aug.-Dec.
117	<i>Oldenlandia Corymbosa</i> L.	Pitpapda	H	Sept.-Nov.
118	<i>Oldenlandia diffusa</i> (Willd.) Roxb.		H	Aug.-Oct.
119	<i>Spermacoce articularis</i> L. F.	Madanghanti	H	Aug.-Nov.
120	<i>Spermacoce pusilla</i> Wall.	Tarakadal	H	Aug.-Nov.
35)	Compositae Giseke			
121	<i>Acanthospermum hispidum</i> DC.	Landga	H	Aug.-Feb.
122	<i>Ageratum conyzoides</i> (L.) L.	Sahdevi	H	Aug.-Apr.
123	<i>Bidens biternata</i> (Lour.) Merr. & Sherff	Chikta	H	Aug.-Oct.
124	<i>Blainvillea acmella</i> (L.) Philipson	Akarkara, Pipulka	H	Aug.-Oct.
125	<i>Blumea axillaris</i> (Lam.) DC.	Buradi	H	Nov.-Jan.
126	<i>Cyanthillium cinereum</i> (L.) H. Rob.			
127	<i>Dicoma tomentosa</i> Cass.	Navananji chapala	H	Aug.-Dec.
128	<i>Echinops echinatus</i> Roxb.	Utkatari	H	Nov.-Mar.
129	<i>Eclipta prostrata</i> (L.) L.	Maka	H	Th. Yr.
130	<i>Erigeron bonariensis</i> L.	Gurmar	H	Sept.-Mar.
131	<i>Flaveria trinervia</i> (Spreng.) C. Mohr.	Bajirao	H	Mar.-Apr.
132	<i>Glossocardia bosvallia</i> (L.f.) DC.	Pithari	H	July-Dec.
133	<i>Grangea maderaspatana</i> (L.) Poir.	Machipatra	H	Dec.-May
134	<i>Lagascea mollis</i> Cav.	Jharwad	H	Th. Yr.
135	<i>Laphangium luteo-album</i> (L.) Tzvelev	Jersey Cudweed	H	Jan.-Mar.

136	<i>Launaea procumbens</i> (Roxb.) Ramayya & Rajgopal	Pathar	H	Oct.-Feb.
137	<i>Parthenium hysterophorus</i> L.	Congress	H	Sept.-Feb.
138	<i>Pulicaria wightiana</i> (DC.) C.B.Clarke	Sontikli	H	Sept.-Feb.
139	<i>Sonchus asper</i> (L.) Hill.	Mhatari	H	June-Oct.
140	<i>Synedrella nodiflora</i> (L.) Gaertn.	Chatak Chandani	H	Th. Yr.
141	<i>Tagetes erecta</i> L.	Zendu	H	Aug.-Dec.
142	<i>Tricholepis glaberrima</i> DC.	Brahmadandi	H	Oct.-Dec.
143	<i>Tridax procumbens</i> (L.) L	Dagadipala	H	Th. Yr.
36)	Oleaceae Hoffm. ex Link.			
144	<i>Jasminum officinale</i> L.	Sayli, Jui, Kunda	TS	Mar.-Oct.
145	<i>Jasminum sambac</i> (L.) Aiton	Mogra	TS	Jan.-Mar.
146	<i>Nyctanthes arbor-tristis</i> L.	Parijatak	ST	June-Jan.
37)	Salvadoraceae Lindl.			
147	<i>Azima tetraantha</i> Lam.		S	Dec.-Mar.
38)	Apocynaceae Juss.			
148	<i>Adenium obesum</i> (Forssk.) Roem. & Schult.	Desert rose	S	Oct.-Dec.
149	<i>Alstonia scholaris</i> (L.) R.Br.	Satvin, Saptarni	T	Feb.-Aug.
150	<i>Calotropis gigantea</i> (L.) Dryand.	Padhari Rui	S	Oct.-June
151	<i>Calotropis procera</i> (Ait.) Dryand.	Rui, Mandar	S	Sept.-June
152	<i>Caralluma adscendens</i> (Roxb.) R.Br.	Makadshingi	H	June-Dec.
153	<i>Cascabella thevetia</i> (L.) Lippold.	Pivali Kanher	T	June-Oct.
154	<i>Catharanthus roseus</i> (L.) G.Don.	Sadaphuli	H	Th. Yr.
155	<i>Cryptostegia grandiflora</i> Roxb. ex R.Br.	Vakundi	TS	May-Feb.
156	<i>Nerium oleander</i> L.	Kanher	S	Th. Yr.
157	<i>Pergularia daemia</i> (Forssk.) Chiov.	Utarni	TUS	July-Feb.
158	<i>Plumeria alba</i> L.	Pandhara Chapha	ST	May-Sept.
159	<i>Plumeria pudica</i> Jacq.	Naag Champa	S	Th. Yr.
160	<i>Plumeria rubra</i> L.	Lal Chapha	ST	Mar.-Sept.
161	<i>Tabernaemontana divaricata</i> (L.) R.Br. ex R. & S.	Tagar	S	Th. Yr.
39)	Boraginaceae Juss.			
162	<i>Cordia dichotoma</i> G. Forst.	Bhokar	T	Mar.-Aug.
163	<i>Heliotropium ovalifolium</i> Forssk.	Bhurundi	H	Aug.-May
164	<i>Trichodesma indicum</i> (L.) Lehm.	Chota Kalpa	H	Aug.-Feb.
165	<i>Trichodesma zeylanicum</i> (Burm.f.) R.Br.	Jalashirasi	H	Dec.-Apr.
40)	Convolvulaceae Juss.			
166	<i>Evolvulus alsinoides</i> (L.) L.	Vishnukranta	H	Th. Yr.
167	<i>Ipomoea aquatica</i> Forssk.	Nalichi-bhaji	H	Sept.-Dec.
168	<i>Ipomoea carnea</i> Jacq.	Besharam	SS	Th. Yr.
169	<i>Ipomoea eriocarpa</i> R. Br.	Maal ghanti	TW	July-Aug.
170	<i>Ipomoea hederifolia</i> L.	Lal pungli	WT	Sept.-Jan.

171	<i>Ipomoea mombassana</i> Vatke		TH	Nov.-Feb.
172	<i>Ipomoea obscura</i> (L.) Ker Gawl.	Pungali	TH	Th. Yr.
41)	Solanaceae Juss.			
173	<i>Capsicum annum</i> L.	Mirachi	H	Th. Yr.
174	<i>Datura innoxia</i> Mill.	Dhotara	H	Sept.-Mar.
175	<i>Lycopersicon esculentum</i> Mill.	Tomato	H	Th. Yr.
176	<i>Physalis minima</i> L.	Popati	H	Oct.-Mar.
177	<i>Solanum americanum</i> Mill.	Kanguni	H	Aug.-Jan.
178	<i>Solanum anguivi</i> Lam.	Mothiringni	US	Aug.-Dec.
179	<i>Solanum virginianum</i> L.	Bhui Ringani	TH	June-Jan.
180	<i>Withania somnifera</i> (L.) Dunal	Ashwagandha	US	Sept.-Dec.
42)	Orobanchaceae Vent.			
181	<i>Sopubia delphinifolia</i> G. Don.	Dudhali	H	July-Jan.
182	<i>Striga densiflora</i> (Benth.) Benth.	Tarphula, Agya	H	Oct.-Jan.
43)	Bignoniaceae Juss.			
183	<i>Dolichandra unguis-cati</i> (L.) L.G.Lohmann	Wagnakhi	WC	Apr.-June
184	<i>Millingtonia hortensis</i> L.f.	Akash Neem	T	Sept.-Dec.
185	<i>Pyrostegia venusta</i> (Ker Gawl.) Miers	Flaming trumpet	WC	Oct.-Jan.
186	<i>Spathodea campanulata</i> P. Beauv.	Pichkari	T	Jan.-May
187	<i>Tecoma stans</i> (L.) Juss. ex Kunth.	Pivali Phutani	ST	Sept.-Feb.
44)	Pedaliaceae R. Br.			
188	<i>Sesamum laciniatum</i> Klein ex Willd.	Rantil	H	June-Oct.
189	<i>Sesamum indicum</i> L.	Teel	H	Aug.-Oct.
45)	Martyniaceae Horan.			
190	<i>Martynia annua</i> L.	Wagnakhi	H	July-Nov.
46)	Acanthaceae Juss.			
191	<i>Blepharis integrifolia</i> (L.f.) E. Mey. & Drege ex Schinz	Kate maka, Hadsandhi	H	Sept.-Dec.
192	<i>Dicliptera paniculata</i> (Forssk.) I. Darb.	Jivani	H	Aug.-Feb.
193	<i>Dipteracanthus prostratus</i> (Poir.) Nees		H	July-Nov.
194	<i>Justicia adhatoda</i> L.	Adulsa	S	Aug.-Dec.
195	<i>Justicia diffusa</i> Willd.		H	Aug.-Dec.
196	<i>Justicia japonica</i> Thunb.	Kalmashi	H	Aug.-Oct.
197	<i>Lepidagathis cristata</i> Willd.	Bhuitera	US	Sept.-Jan.
198	<i>Meyenia hawtayneana</i> Nees	Nilkanth	US	Mar.-Jan.
47)	Verbenaceae J. St. Hil.			
199	<i>Duranta erecta</i> L.	Damyanti	S	Th. Yr.
200	<i>Lantana camara</i> L.	Tantani, Ghaneri	S	Th. Yr.
201	<i>Tectona grandis</i> L.f.	Saagwan	T	June-Dec.
202	<i>Vitex negundo</i> L.	Nirgudi	S	Th. Yr.
48)	Lamiaceae Martinov			

203	<i>Hyptis suaveolens</i> (L.) Poit.	Jangli tulas	H	Oct.-Mar.
204	<i>Leonotis nepetifolia</i> (L.) R.Br.	Dipmal	WH	Sept.-Feb.
205	<i>Leucas longifolia</i> Benth.	Tamba	H	Sept.-Nov.
206	<i>Ocimum basilicum</i> L.	Sabja	H	Th. Yr.
207	<i>Ocimum tenuiflorum</i> L.	Tulsi	H	Th. Yr.
49)	Nyctaginaceae Juss.			
208	<i>Boerhavia erecta</i> L.	Pandhari punarnava	H	Sept.-Dec.
209	<i>Boerhavia diffusa</i> L.	Punarnava	H	Nov.-June.
210	<i>Bougainvillea spectabilis</i> Willd.	Kagdiphul	StS	Feb.-June
211	<i>Mirabilis jalapa</i> L.	Gulbas	H	Sept.-mar.
50)	Amaranthaceae Juss.			
212	<i>Achyranthus aspera</i> L.	Aghada	S	Oct.-Mar.
213	<i>Alternanthera pungens</i> Kunth	Reshim Kata	H	Oct.-Apr.
214	<i>Alternanthera sessilis</i> (L.) R.Br. ex DC.	Kanchari	H	June-Apr.
215	<i>Amaranthus spinosus</i> L.	Kate-Math	H	July-Dec.
216	<i>Amaranthus viridis</i> L.	Math	H	Oct.-Dec.
217	<i>Celosia argentea</i> L.	Kurdu	H	Sept.-Mar.
218	<i>Digera muricata</i> (L.) Mart.	Kunjir	H	June-Feb.
51)	Polygonaceae Juss.			
219	<i>Rumex vesicarius</i> L.	Chuka	H	Oct.-Mar.
52)	Proteaceae Juss.			
220	<i>Grevillea robusta</i> A.Cunn. ex R.Br.	Sliver Oak	T	Mar.-July
53)	Santalaceae R. Br.			
221	<i>Santalum album</i> L.	Chandan	T	Feb.-Nov
54)	Euphorbiaceae Juss.			
222	<i>Acalypha indica</i> L.	Kupi	H	Aug.-Dec.
223	<i>Acalypha wilkesiana</i> Mull.Arg.		S	Th. Yr.
224	<i>Croton bonplandianus</i> Baill.	Jamalgota	H	Aug.-Jan.
225	<i>Euphorbia antiquorum</i> L.	Narasya, Tridhari	S	Feb.-May
226	<i>Euphorbia heterophylla</i> L.	Dudhani, Dudhi	H	July-Dec.
227	<i>Euphorbia hirta</i> L.	Dudhani, Dudhi	H	Th. Yr.
228	<i>Euphorbia leucocephala</i> Lotsy.	Snow Bush	ST	Nov.-Mar.
229	<i>Euphorbia milii</i> Des Moul.	Tawa	WS	Th. Yr.
230	<i>Euphorbia prostrata</i> Ait.	Prostrate sandmat	H	June-Mar.
231	<i>Euphorbia tithymaloides</i> L.	Slipper-flower	S	Apr-May
232	<i>Euphorbia thymifolia</i> L.	Dhakti dudhi	H	Th. Yr.
233	<i>Euphorbia tirucalli</i> L.	Sher-kandvel	S	Feb.-May
234	<i>Jatropha curcas</i> L.	Erاند mogali	S	Oct.-june
235	<i>Jatropha gossypifolia</i> L.	Vilayati Erاند.	S	Sept.-Jan.
236	<i>Jatropha podagrica</i> Hook.		S	Sept.-May

237	<i>Ricinus communis</i> L.	Erand	ST	Sept.-June
55)	Phyllanthaceae Martinov			
238	<i>Phyllanthus acidus</i> (L.) Skeels	Rai awala	T	Th. Yr.
239	<i>Phyllanthus amarus</i> Schum & Thonn.	Bhui Awala	H	July-Dec.
240	<i>Phyllanthus emblica</i> L.	Awala	MT	Th. Yr.
241	<i>Phyllanthus reticulatus</i> Poir.	Datwan, Kanguni	S	Th. Yr.
56)	Moraceae Gaudich.			
242	<i>Ficus amplissima</i> Sm.	Pimpri	T	Apr.-Oct.
243	<i>Ficus benjamina</i> L.		MT	
244	<i>Ficus benghalensis</i> L.	Wad	T	Apr.-June.
245	<i>Ficus carica</i> L.	Anjir	ST	Mar.-May
246	<i>Ficus racemosa</i> L.	Umbar	T	Feb.-June
247	<i>Ficus religiosa</i> L.	Pimpal	T	Apr.-Aug.
57)	Casuarinaceae R.Br.			
248	<i>Casuarina equisetifolia</i> L.	Suru	T	Jan.-May
58)	Orchidaceae Juss.			
249	<i>Acampe praemorsa</i> (Roxb.) Blatt.&Mc.Cann.	Waghri	US	May-July
59)	Zingiberaceae Martinov.			
250	<i>Alpinia zerumbet</i> (Pers.) B.L.Burt & R.M.Sm.		H	
60)	Strelitziaceae Hutch.			
251	<i>Ravenala madagascariensis</i> Sonn.	Traveller's palm	H	Oct.-Jan.
61)	Amaryllidaceae J. St. Hil.			
252	<i>Hymenocallis littoralis</i> (Jacq.) Salisb.	Spider lily	H	June-Aug.
62)	Asparagaceae Juss.			
253	<i>Agave americana</i> L.	Kektad	H	Jan.-May
254	<i>Asparagus racemosus</i> Willd.	Shatavari	S	June-Jan.
255	<i>Beaucarnea recurvata</i> Lem.	Nolina	S	
256	<i>Chlorophytum laxum</i> R. Br.	Kuli, Musli	H	June-Aug.
257	<i>Cordyline fruticosa</i> (L.) A. Chev.		S	May-Feb.
258	<i>Dracaena fragrans</i> (L.) Ker-Gawl.	Darshani	S	Feb.-May
63)	Xanthorrhoeaceae Dumort.			
259	<i>Aloe vera</i> (L.) Burm. F.	Korphad	H	Sept.-Jan.
64)	Commelinaceae Mirb.			
260	<i>Commelina benghalensis</i> L.	Kanchat, Kena	H	June-Dec.
261	<i>Commelina diffusa</i> Burm. f.	Kanpet	H	July-Feb.
262	<i>Commelina suffruticosa</i> Blume		H	July-Oct.
263	<i>Cyanotis axillaris</i> (L.) D. Don ex Sweet	Bechka	H	June-Dec.
264	<i>Cyanotis cristata</i> (L.) D. Don	Nabhali	H	June-Nov.
265	<i>Cyanotis fasciculata</i> (B.Heyne ex Roth) S.& S.f.	Nilwanti	H	Aug.-Nov.
266	<i>Tradescantia spathacea</i> Sw.		H	Th. Yr.

65)	Areaceae Bercht. & J. Presl			
267	<i>Cocos nucifera</i> L.	Naral	T	Th. Yr.
268	<i>Phoenix sylvestris</i> (L.) Roxb.	Shindi	T	Jan.-Sept.
269	<i>Roystonea regia</i> (Kunth) O. F. Cook	Bottle Palm	T	Sept.-Mar.
270	<i>Sabal minor</i> (Jacq.) Pers.	Pankha	S	Th. Yr.
66)	Typhaceae Juss.			
271	<i>Typha angustifolia</i> L.	Paankanis	H	Jan.-Sept.
67)	Araceae Juss.			
272	<i>Caladium bicolor</i> (Aiton) Vent.		H	July-Sept.
273	<i>Colocasia esculenta</i> (L.) Schott	Shobhechi Alu	H	July-Nov.
274	<i>Dieffenbachia seguine</i> (Jacq.) Schott	Dumb cane	H	July-Sept.
275	<i>Monstera deliciosa</i> Liebm.	Windoleaf	SC	July-Nov.
276	<i>Philodendron elegans</i> K. Krause		H	
277	<i>Syngonium podophyllum</i> Schott		H	
68)	Cyperaceae Juss.			
278	<i>Cyperus cuspidatus</i> Kunth		H	Sept.-Nov.
279	<i>Cyperus iria</i> L.	Veni lavalala	H	Aug.-Sept.
280	<i>Kyllinga nemoralis</i> (J.R. & G.Forst.) Dandy ex H.&D.	Nirvishi	H	June-Dec.
281	<i>Kyllinga tenuifolia</i> Steud.		H	June-Dec.
69)	Poaceae Barnhart			
282	<i>Andropogon pumilus</i> Roxb.	Tambadgota	H	Aug.-Dec.
283	<i>Apluda mutica</i> L.	Tambat, Ghagara	H	Aug.-Dec.
284	<i>Aristida adscensionis</i> L.	Kusali Gavati	H	Sept.-Dec.
285	<i>Aristida funiculata</i> Trin. & Rupr.	Kusal	H	Sept.-Nov.
286	<i>Arthraxon lanceolatus</i> (Roxb.) Hochst.		H	Sept.-Dec.
287	<i>Brachiaria eruciformis</i> (Sm.) Griseb.	Shimpi	H	Th. Yr.
288	<i>Brachiaria ramosa</i> (L.) Stapf	Chapar	H	Aug.-Oct.
289	<i>Brachiaria reptans</i> (L.) C.A.Gardner & C.E.Hubb.	Chamanchara	H	July-Dec.
290	<i>Chloris barbata</i> Sw.	Gondvel, Gosha	H	Aug.-Jan.
291	<i>Chloris virgata</i> Sw.	Gholshep	H	Aug.-Dec.
292	<i>Chrysopogon fulvus</i> (Spreng.) Chiov.	Dongari gavati	H	July-Dec.
293	<i>Cynodon dactylon</i> (L.) Pers.	Harali, Durva	H	Th. Yr.
294	<i>Dactyloctenium aegyptium</i> (L.) Willd.	Makra, Harkeen	H	Aug.-Jan.
295	<i>Dichanthium annulatum</i> (Forssk.) Stapf.	Janjva, Punava	H	June.-Dec.
296	<i>Dichanthium faveolatum</i> (Delile) Roberty	Ghandvel	H	Aug.-Dec.
297	<i>Dichanthium caricosum</i> (L.) A. Camus	Marvel	H	Aug.-Dec.
298	<i>Digitaria ciliaris</i> (Retz.) Koeler.		H	July-Dec.
299	<i>Digitaria stricta</i> Roth		H	July-Dec.
300	<i>Dinebra retroflexa</i> (Vahl) Panz.	Meshkathi	H	Aug.-Feb.
301	<i>Echinochloa colona</i> (L.) Link	Jangli Rice, Jiria	H	July-Feb.

302	<i>Eleusine indica</i> (L.) Gaertn.	Rannachani	H	July-Jan.
303	<i>Eragrostiella bifaria</i> (Vahl) Bor		H	Aug.-Nov.
304	<i>Eragrostis ciliaris</i> (L.) R.Br.		H	Aug.-Dec.
305	<i>Eragrostis japonica</i> (Thunb.) Trin.		H	Sept.-Nov.
306	<i>Eragrostis minor</i> Host.		H	Th. Yr.
307	<i>Heteropogon contortus</i> (L.) P. Beauv. ex R.& S.	Kasal, Kali Kusali	H	July-Jan.
308	<i>Heteropogon triticeus</i> (R. Br.) Stapf ex Craib		H	Aug.-Dec.
309	<i>Lophopogon tridentatus</i> (Roxb.) Hack.		H	Aug.-Nov.
310	<i>Melanocentris jaquemontii</i> Jaub. & Spach.		H	July-Dec.
311	<i>Paspalidium flavidum</i> (Retz.) A. Camus		H	Aug.-Oct.
312	<i>Pennisetum pedicellatum</i> Trin.	Deenanath grass	H	Sept.-Dec.
313	<i>Rottboellia cochinchinensis</i> (Lour.) Clayton	Itchgrass	H	Aug.-Dec.
314	<i>Setaria intermedia</i> Roem. & Schult.	Chikta	H	Aug.-Dec.
315	<i>Setaria pumila</i> (Poir.) Roem. & Schult.	Barati, Bhadli	H	July-Dec.
316	<i>Setaria verticillata</i> (L.) P.Beauv.	Foxtail	H	Aug.-Oct.
317	<i>Sporobolus capillaris</i> Miq.		H	July-Nov.
318	<i>Tragus mongolorum</i> Ohwi		H	July-Sept.

Table 2: Total number of Families, genera and species of trees.

Groups	Families	Genera	Species
Dicotyledons	57	180	248
Monocotyledons	12	52	70
Total	69	232	318

Table 3: Dominant Family wise Species Count

Families	No. of Species
Leguminosae	45
Poaceae	37
Asteraceae	23
Euphorbiaceae	16
Apocynaceae	14
Malvaceae	09
Solanaceae	08
Acanthaceae	08

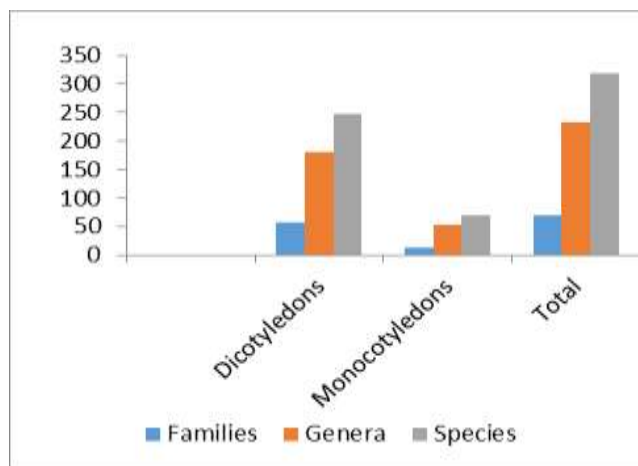


Fig. 2: Floristic analysis of the RRM campus flora

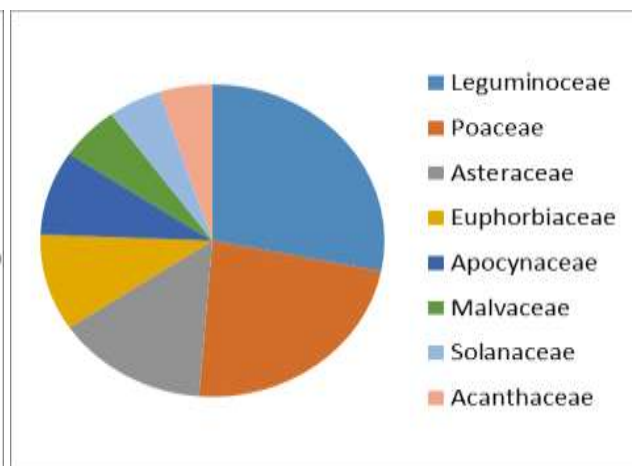


Fig.3: Comparative analysis of dominant families



Cucumis prophetarum



Monsonia senegalensis



Diplocyclos palmatus



Crotalaria calycina



Alysicarpus tetragonolobus



Commelina suffruticosa



Lophopogon tridentatus



Vigna indica



Dipteracanthus prostrates



Evolvulus alsinoides



Ipomoea Obscura



Rhynchosia minima



Sopubia Delphinifolia



Echinops echinatus



Malvastrum coromandelianum



Dichrostachys cinerea

Out of 318 species, 248 species are of dicotyledons and 70 species are of monocotyledons (Table 2). Out of 318 flowering plants 223 species (70.13 %) are wild / naturalized plant species and 95 species (29.87 %) are cultivated& ornamental plants. The 08 dominant and most diverse families in terms of number of species in our campus include Leguminosae (45 species), Poaceae (37 species), Compositae (23 species), Euphorbiaceae (16 species), Apocynaceae (14 species), Malvaceae (09

species), Solanaceae & Acanthaceae (08 species each). The most dominant family is Leguminosae representing 45 species representing 28 genera (Table 3).

CONCLUSION

The present study revealed that the angiospermic flora showed great diversity in Raje Ramrao Mahavidyalaya Campus, Jath with 318 species of angiosperms belonging

to 69 families. RRM Campus area is with low rainfall, high temperature and consequently poor soil. Still the plant species showed great adaptability in drier and hot climate. Plant species of RRM Campus has been the main threats from cutting the plants for building, road or pathway construction and firewood. RRM Campus has undergone rapid developmental changes and a decline in vegetation. More than 800 tree species have been cultivated and conserved by providing water through drip irrigation through NSS.

There is an urgent need to construct shade-Net-House and Green-House to develop seedlings and saplings of rare, endangered and threatened species of wild, cultivated and medicinal plant species. During last academic year we have constructed an artificial wetland in the campus through special camp of NSS held between 9 to 15, January, 2017. This wetland will be definitely useful for the growth of aquatic as well as amphibious floral as well as faunal components such as grasses, sedges, *Typha*, Reeds, frogs, fishes, birds, phytoplanktons and zooplanktons.

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