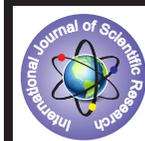


Ex-Situ Conservation of Drought Endurance in Rahuri College (Ganesh-Tekadi), Rahuri Tehasil of Ahmednagar District (M.S.) India-413 705



Botany

KEYWORDS : Ganesh Tekadi, Conservation, morphotaxonomy, floristic

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ABSTRACT

Arts, Science and Commerce College, Rahuri (Ganesh Tekadi) of Rahuri tehasil encompass the geographical area (19.3927° N, 74.6488° E) of North-East Maharashtra, India. It represents a rare mixture of plants with various varieties. Entire area comes under region have deciduous forests with some invasive species. The present investigation is focused on planting and conserving the floristic study of this region. The present study area is not favorable for plant growth. In spite of adverse climatic and geographical condition, the college has developed green flush campus by tree plantation and conservation. The hard strata of college campus prevents growth of most of the plants, but by studying climatic condition, type of soil etc. we succeed to develop and conserve the greenery on that area by growing variety of plants. Today it is rich pocket of bio-diversity in Rahuri tehasil.

About 327 plant species of Angiosperm, Gymnosperm and Pteridophyta were planted, conserved and identified on the basis of their morphotaxonomy. In the present study a total 327, plant species belonging to 194 genera and 93 families from angiosperm, gymnosperm and pteridophyta, were recorded in study area. Thus efforts are made to increase and conserve the number of trees, shrubs, herbs, climbers, creepers and ornamentals in the study area.

INTRODUCTION:

Bio-diversity is one of the major global issues discussed all over the world. It was also realized that, bio-diversity can provide solution to major global problems including feeding of human population and providing most essential needs of human beings. The efforts of intensive agricultural practices, increasing population pressure, climate change, environmental pollution, rapid industrialization, urbanisation, loss of biodiversity, soil erosion, salinization and water depletion are all threatening sustainability of the biodiversity. We need to protect and conserve the natural resources not only for the present but also for the posterity.

India is one of the 12 mega diversity centers in the world. India is also a homeland for 167 cultivated species and 320 wild relatives of crop plants out of 20 million estimated species in the world only 8.5% species have been identified and described so far and there is great scope to explore plant treasury. (Pathan, 2004). Ganesh-tekadi is situated near the Western-Ghat of country, which is supposed to be one of the hot spots in the world for plant biodiversity. Therefore the present investigation emphasizes in order to explore the existing floristic composition in Ganesh Tekadi, Rahuri tehasil of Ahmednagar district is selected for the floristic studies because it has been given attention of its Vegetation. Ganesh Tekadi lies in Rahuri tehashil located at extreme north of Ahmednagar district which possesses high plant diversity and luxuriant vegetation. In recent years human interference and greed have resulted a weakening religious belief and most of the floras from earth planet are on the way to extinction. Hence there is an urgent need for conservation of vegetation on planet earth. We are shearing a squirrel role for conservation of plant diversity. Many floristic diversity studies have been conducted in different parts of world (Shirke 1984, Gaur 1999, Farooque and Saxena 1996 Nair and Daniel 1986, Devi and Yadav 2006, Krshnamurthy et.al 2010, Vediya and Kharadi 2011, Patil and Tayade 2012, Pawade and Rothe 2012, Dabgar 2012, Yadav and Sardesai 2002) Thus it is clear that floristic studies are undertaken by many researchers worldwide in different level. Thus an extensive survey has been conducted for the study of total flora planted and grown

in Ganesh-Tekadi. It is rich in deciduous plants of Angiosperms; few of Gymnosperms as well as Pteridophytes. Floristic work along with their importance under taken so far in this area. Therefore an attempt is being made with following aims and objectives.

- 1) Conservation of flora and fauna.
- 2) Survey of flora within study area.
- 3) Prevention and control of pollution, afforestation and regeneration of degraded area.
- 4) Protection of environment.

STUDY AREA:

Ganesh-Tekadi is located 2.5 km. away from Rahuri city on Nagar- Manmad state highway. It lies between 19.3927° N, 74.6488° E of North-East Maharashtra The total area of it is approximately 16.4 acres. It is located on hard rock surface that prevents the growth of most of the plants. Efforts are made to grow and conserve the number of trees, shrubs, herbs, climbers, creepers and ornamental's on that hard strata.

MATERIALS AND METHODS:

1. Pits prepared with the help of brakers, were filled with manuraical soil. Irrigation made available from bore-well and Municipal Corporation.
2. Plantation was done by involvement of N.S.S, N.C.C, earn and learn, unit, students, teaching and non-teaching staffs and department of Botany.
3. Frequent field visits were undertaken during 2014-2015 to explore the floristic composition of Ganesh Tekadi. All the plant specimens available in the study area were documented and labeled. Photograph was also taken.
4. List of plants found in the study area were noted with the help of published works of Ahmednagar district (Pradhan and Singh 1999). Flora of presidency of Bombay (Cooke, T 1901-1908).flora of Maharashtra state, Monocotyledons (Sharma et al: 1996) and Flora of Maharashtra state, Dicotyledons, Vol.1 and 2 (Singh et.al 2000), Tropical garden plants in colour (Bose et.al 2011), Trees of Pune (Ingahalikar and Brave, 2010).

- All identified plant specimens were labeled and conserved in-situ.
- Total 327 plants were listed from Ganesh Tekadi which are serially arranged as per their alphabetical botanical names, common/local name, family, flowering and fruiting period.

RESULT AND DISCUSSION:

Plantation and conservation were started since 1992 till date. It was done with involvement of the Earn and Learn, N.S.S, second year students of B. Sc, N.C.C and Department of Botany. In the present study, total 327 plant species belonging to 195 genera and 93 families were recorded in tables. Among 327 plant species 89 were trees, 98 shrubs, 104 herbs, 28 climber 06 creepers and 02 epiphytes were found in study area. Out of 327 plant species, 311 belonging to Angiosperm with 185 genera and 84 families, 08 species each of Gymnosperms and Pteridophyta were recorded in the study area. Millingtonia hortensis, Azadirachta indica, Pithcolobium dulce, Pitrunjiva roxburghii and Wodyetia bifurcate are frequently distributed where as Parkia biglandulosa, Saponaria vaccaria, Pongamia pinnata, Switernia macrophylla, Dioon and Zamia are rare plants recorded in study area.

Plants in College Campus :

Sr.No.	Botanical Name	Common Name	Family	Flowering and fruiting
1	<i>Abrus precatorius</i> L.	Gung	Fabaceae	Aug.-Mar.
2	<i>Acacia auriculiformis</i> .A.cunn. ex.Bth	Australian acacia	Mimosaceae	Aug.- June
3	<i>Acacia concinna</i> (willd) D.C.	Sikakai	Mimosaceae	Throughout the year
4	<i>Acacia nilotica</i> (L) Willd.ex Del	Babul / Acacia	Mimosaceae	Aug.- Dec.
5	<i>Adhatoda vasica</i> L.	Adulsa	Acanthaceae	Aug.-Mar.
6	<i>Aegle marmelos</i> L.	Bel	Rutaceae	Apr.- Nov.
7	<i>Agave americana</i> L.(3)	Agave / Century plant	Asparagaceae	Dec.- May
8	<i>Agave sisalona</i> Perrine(3)	Agave /Sisal heamp	Asparagaceae	Dec.- May
9	<i>Ailanthus excelsa</i> Roxb.	Maharukh	Simroubaceae	Jan.-Jul.
10	<i>Aloe vera</i> Linn	Aloe	Liliaceae	Jun.-Sept.
11	<i>Alstonia scholaris</i> .(L) R.Br.	Satwin/ Devil tree	Apocynaceae	Oct.- Nov.
12	<i>Anacardium occidentale</i> L.	Cashew-nut	Anacardiaceae	Dec.-May
13	<i>Annona squamosa</i> L.	Custard apple	Annonaceae	Mar.-Apri.
14	<i>Argyrea nervosa</i> (Burm.F)	Samudra-shok	Convovulaceae	Jul.-Dec.
15	<i>Artocarpus heterophyllus</i> Lam.	Jack fruit	Moraceae	Mar.- Apr.
16	<i>Azadirachta indica</i> A.Juss	Kadunimb/ Nim	Meliaceae	Mar.-Jun.
17	<i>Bambusa ventricosa</i> Mc.Clure	Budha-Belly	Bambusoideae	Frequently Flowers
18	<i>Bambusa vulgaris</i> scherad ex.J.C.wendl.	Golden bamboo	Bambusoideae	Frequently Flowers
19	<i>Bauhinia purpurea</i> (L) Benth	Kanchan/ Butter fly tree	Caesalpiniaceae	Sept.-Nov.
20	<i>Berringtonia asiatica</i> (L)	Brooin brush / Samudraphal	Berringtoniaceae	Sept.-Oct.
21	<i>Bombax ceiba</i> . L.	Kate-savar	Bombacaceae	Feb.-Jun.
22	<i>Bougainvillea spectabilis</i> willd {6}	Paper flower	Nyctaginiaceae	Throughout year
23	<i>Buchanania lanzen</i> Spreng(Schrad)	Charoli	Anacardiaceae	Jan.-May

24	<i>Butea monosperma</i> (Lam) Taub	Flame of forest	Fabaceae	Jan.-Jun.
25	<i>Caesalpinia bonduc</i> (L) Roxb.	Sagargota	Caesalpiniaceae	Aug.- Feb.
26	<i>Caesalpinia pulcherrima</i> (L)	Shankasur	Caesalpiniaceae	Throughout year
27	<i>Mammea suriga</i> ex Roxb.	Surangi	Clusiaceae	March-Aug.
28	<i>Caestrum nocturnum</i> L.	Ratrani/ Queen of the night	Solanaceae	Nov.-Feb.
29	<i>Callistemon lanceolatus</i> (sm) Sweet.	Bottle brush	Myrtaceae	Oct.-Feb.
30	<i>Caryota mitis</i> , L.	Fish tail palm	Ara-caceae	----
31	<i>Cascabella thevetia</i> (L) lippold	Bititi	Apocynaceae	Jun.-Oct.
32	<i>Cassia auriculata</i> . L	Tarwad	Caesalpiniaceae	Jan.-Jul.
33	<i>Cassia fistula</i> L.	Golden shower	Caesalpiniaceae	Apr.-Jul.
34	<i>Cassia javanica</i> L.	Pink Leady	Caesalpiniaceae	Apr.-Jun.
35	<i>Cassia occidentalis</i> . L	Takala	Caesalpiniaceae	Feb.-Jun.
36	<i>Cassia siamea</i> Lam.	Kashid	Caesalpiniaceae	Aug.-Jun.
37	<i>Casurina equisetiformis</i> L	Casurina/ Suru	Casuarinaceae	Feb.-Mar.
38	<i>Chamaedorea sefritzii</i> Burret	Cane-palm	Ara-caceae	----
39	<i>Chamaerops humilis</i> .L	Fan-palm	Ara-caceae	----
40	<i>Cinchona succirubra</i> Pav.ex.Klotzsch.	Red bark	Rubiaceae	Feb.-Jun.
41	<i>Citrus lemon</i> (L.) burm.F	Lemon	Rutaceae	Throughout year
42	<i>Cocos nucifera</i> , L	Coconut	Ara-caceae	Throughout year
43	<i>Cordia sinensis</i> Lam.	Saucer berry	Boraginaceae	Feb.-Jun.
44	<i>Couroupita guainensis</i> Abul	Cannon ball tree	Lecythidaceae	Sept.-Nov.
45	<i>Dalbergia sisso</i> Roxb	Sisam	Fabaceae	Feb.-Oct.
46	<i>Delonix regia</i> Boj. ex.Hook	Gulmohor	Caesalpiniaceae	Apr. – Sept.
47	<i>Dendro calamus strictus</i> (Roxb)	Giant bamboo	Bambusoideae	Frequently Flowers
48	<i>Desmodium gangeticum</i> .{K}	Saalvan	Fabaceae	Mar.-Nov.
49	<i>Diospyros peregrine</i> (Gaertn.)	Tembhurni	Ebenaceae	Mar.-May
50	<i>Dypsis decaryi</i> . (jum). Beentje&Dransf.	Triangle palm	Ara-caceae	----
51	<i>Dypsis lutescens</i> (H. wendl)	Butterfly palm/Bamboo palm/ golden cane palm	Ara-caceae	Oct.-Apr.
52	<i>Dypsis lutescens</i> {H.Wendl}.	Areca palm	Ara-caceae	Oct.-Mar.
53	<i>Emblia Officinalis</i> Gaertin	Aamla/ emblic myrobalan	Euphorbiaceae	Feb.-Oct.
54	<i>Erythrina indica</i> . Lam.	Indian coral tree	Fabaceae	Jan.-Mar.
55	<i>Erythrina variegata</i> L	Pangara/ Flame tree	Fabaceae	Jan.-Jun.
56	<i>Eucalyptus globules</i> Labill	Nilgiri	Myrtaceae	Oct.-May
57	<i>Feronia elephantum</i> Corr.	Elephant apple	Rutaceae	Mar.-Aug.
58	<i>Ficus amplissima</i> J.E.Sm.	Pipri	Moraceae	April- Sept.
59	<i>Ficus benghalensis</i> L.	Wad / Indian Banyan	Moraceae	Apr.-Jun.
60	<i>Ficus benamina</i> L.	Star light/ weeping fig	Moraceae	Apr.-May
61	<i>Ficus carica</i> L.	Fig	Moraceae	Mar.-May.

62	<i>Ficus elastica</i> Roxb.b.ex.Horn	Rubber tree	Moraceae	Nil
63	<i>Ficus glomerata</i> Roxb.	Umbar	Moraceae	Mar.- Apr. .
64	<i>Ficus microcarpa</i> L.f.	Nandruk. (yellow dots)	Moraceae	Mar.-Jun.
65	<i>Ficus religiosa</i> L.	Piple	Moraceae	Mar.-Aug.
66	<i>Gamelia arborea</i> (Roxb)	Gamhar/ Shivan	Verben- aceae	Feb.-Jul.
67	<i>Garcinia indica</i> (Dupetit-Thou)	Aamsul/ Kokam	Clusi- aceae	Nov.- Feb.
68	<i>Grevelia robusta</i> A cunn ex. R.Br.	Silver oak	Pro- teaceae	Mar.-Jul.
69	<i>Haematoxylon compe- chanum.</i> L.	Raktachan- dan	Mi- mosaceae	Jan.-June
70	<i>Hemigraphis latebrosa.</i> {Heyne ex.Roth}	Red flame ivy	Acan- thaceae	Dec.-Mar.
71	<i>Heterophragma quadriloculare</i> {Roxb} K.Schum.	Waras	Bignoni- aceae	Jan.-Jun.
72	<i>Heterophragma quadriloculare</i> {Roxb} K.Schum	Waras	Bignoni- aceae	Jan.-Jul.
73	<i>Holoptelea integrifolia</i> {Roxb}	Wavala	Ulmaceae	Jan.-Jun.
74	<i>Hyophorbe lageni- caulis</i> .(L.H.balley) H.E.Moore.	Bottle plam	Ara- caceae	----
75	<i>Jacarandra acutifolia.</i> Humb & Bonpl	Nilmohor	Bignon- aceae	Apr.-Dec.
76	<i>Kigelia pinnata</i> (Jacq) D.C.	Bramha dand	Bignon- aceae	Mar.-Dec.
77	<i>Lantana camara</i> L.	Ghaneri	Verbi- naceae	Throughout the year.
78	<i>Leucaena glauca</i> Bth	Subabhul/ Leucaena	Mi- mosaceae	Mar.-Aug.
79	<i>Magnifera indica</i> L.	Mango	Anacardi- aceae	Jan.-Jun.
80	<i>Manikra zapota</i> L.	Sapota/ Chikku.	Sapota- ceae	Throught the year.
81	<i>Medhuca longifolia</i> {Koen}Mac.Bride	Moha	Sapota- ceae	Feb-May
82	<i>Melia azeadirach</i> L.	Bakan nimb	Meliaceae	Jul.-Aug.
83	<i>Michelia champaca</i> L.	Sonchapha/ champa	Magnoli- aceae	Apr.-Sept.
84	<i>Milingtonia hortensis</i> L.f.	Akashnimb	Bignon- aceae	Sept.- Dec.
85	<i>Mimusops elengii</i> L.	Maulsari/ Bacul	Sapota- ceae	Jan.-Mar.
86	<i>Mimusops hexandra</i> (Roxb.)	Khirani/ Rajani	Sapota- ceae	Sept.-Nov.
87	<i>Morus alba</i> L.	Mulberry	Moraceae	Jul.-Mar.
88	<i>Muntingia calabura</i> L.	Cherry	Elaeocar- paceae	Throughout year
89	<i>Murraya koengii</i> (L.)	Karipatta	Rutaceae	Feb.-Aug.
90	<i>Neolamarckia cadamba</i> (Roxb)	Kadamba	Rubi- aceae	Nov.-Feb.
91	<i>Nyctanthes arbor- tristis</i> L.	Parijatak	Oleaceae	Jun.-Aug.
92	<i>Ocimum america- num</i> L.	Rantulsi	lami- aceae	Feb.
93	<i>Oscimum sanctum</i> L.	Krishna Tulashi	Lami- aceae	Sept.- April
94	<i>Parkia biglandulosa</i> Wight & Arn	Chenduphal/ Badminton Ball tree	Mi- mosaceae	Dec.-May
95	<i>Parkinsonia aculeate</i> L	Sakhari Babhul	Caesal- piniaceae	Apr.- Nov.
96	<i>Peltaphorum pterocar- pum</i> (DC) Baker ex.	Yellow flame	Caesal- piniaceae	Jan.-Jun.

97	<i>Phoenix dactylifera</i> . L.	Date palm	Ara- caceae	Dec.-Jun.
98	<i>Piper betle</i> L.	Nagwel/Paan	Piper- aceae	Mar.-Aril
99	<i>Pithcolombium dulce</i> {Roxb} Bth	Vilayti Chich	Mi- mosaceae	Jan. -Jun.
100	<i>Pogonatherum pani- ceum</i> P.Beauv.	Baby bam- boo/minia- ture	Bambu- soidae	Frequently at maturity
101	<i>Polyalthia longifolia</i> {Sonn}Thw.	Ashok	Annon- aceae	Mar.-Sept.
102	<i>Pongamia pinnata</i> (L)	Karanj / Pongamia	Fabaceae	Feb.-May
103	<i>Premna obtusifolia.</i> R.Br.	Agnimanth	Rubi- aceae	Nov.-Feb.
104	<i>Punica granatum</i> L.	Punica/Anar	Punicaceae	Aug.-Nov.
105	<i>Putranjiva roxburghii</i> (Wall)	Jivanphool / Lucky beant- ree/ child life tree	Euphor- biaceae	Apr.-Oct.
106	<i>Ravenala madgas- cariensis.</i> .Sonn	Travellers palm	Strelit- zaceae	Oct.-Mar.
107	<i>Rhapis excels</i> .{Thunb} A.Henry.	Lady palm	Ara- caceae	Oct.-Apr.
108	<i>Roystonea regia.</i> (J.Dransf N.W.Uni.)	Royal palm	Ara- caceae	
109	<i>Samanea saman</i> (Jacq) Merr	Rain tree	Mi- mosaceae	May- Sept.
110	<i>Sambucus canad- ensis.</i> L	Sabukas.	Sambu- caceae	Mar.-Aug.
111	<i>Santalum album</i> L.	Chandan/ Sandal wood	Santal- aceae	Mar.-Aug.
112	<i>Saponaria vaccaria</i> L.	Ritha/ sabani	Sapin- daceae	Dec.-Jun.
113	<i>Saraca indie</i> L.	Seeta Ashok	Caesal- piniaceae	Jan.-Jun.
114	<i>Semicarpus anacar- dium</i> Linn.	Bibba	Anacardi- aceae	Jan.-Sept.
115	<i>Spathiphyllum coch- learispathum</i>	Peace-Lily/ Nagphani	Araceae	Dec.- Apr.
116	<i>Spathodia campanu- lata</i>	Pichkari / African tulip- tree	Bignoni- aceae	Mar.-Jul.
117	<i>Sterculia foetida</i> L	Jungle badam / wild almond	Sterculi- aceae	Mar.-Jun.
118	<i>Swietenia macrophylla.</i> King.	Mohogany/ West Indian Mohogany	Meliaceae	Apr.- Dec.
119	<i>Syzygium cumuni.</i> Skeels	Jamun	Myrta- ceae	Mar.-Jun.
120	<i>Tabebuia pallida</i> (Lin- dal)Miers.	Roble	Bignoni- aceae	Mar.-May
121	<i>Tamarindus indica</i> L.	Chinch / Tamarind	Caesal- piniaceae	Feb.-Jun.
122	<i>Tecoma stans</i> Linn (2)	Red bell&Yellow bell	Bignon- aceae	Throughout year
123	<i>Terminalia arjuna</i> Roxb.ex.DC	Arjun Sa- da	Com- bretaceae	Feb.-Nov.
124	<i>Terminalia chebula</i> Retz.	Hirada / Chebulic myrobylon	Com- bretaceae	Feb.-May
125	<i>Theseptia malachra</i> (L)	Raanbhendi	Malva- ceae	Apr.-Dec.
126	<i>Vitex negundo</i> L.	Nirgudi/ Horse shoe vitex	Verbi- naceae	Jan.-Jun.
127	<i>Wodyetia bifurcate.</i> A.K.livine	Fox tail palm	Ara- caceae	----
128	<i>Zizipus mauritiana</i> Lam/	Ber	Rham- naceae	Aug.- Sept.

ORNAMENTAL

129	<i>Polyscias guilfoylei</i> . i.(W.Bull)H.Bailey	4. Geranium aralia	Araliaceae	Frequently.
130	<i>Polyscias balfouriana</i> {Andre}L.H.Bailey	1 Aralia	Araliaceae	Frequently.
131	<i>Polyscias scutellarian.</i> {Burn.F.}Fosberg.	2 Plum/Shield aralia	Araliaceae	Frequently.
132	<i>Polyscias fruticasc dwarf.</i> L.Harms	3 Ming aralia	Araliaceae	Frequently.
133	<i>Polyscias filicifolia</i>	Fern leaf aralia	Araliaceae	Frequently.
134	<i>Acalypha wilkensi-ana.</i> Htm1 (10)	Acalypha	Euphorbiaceae	Aug.-Dec.
135	<i>Agave angustifolia "marginata"</i>	Caribbean-Agave.	Asparagaceae.	May-Aug.
136	<i>Agave attenuate.</i> Salm Dyck.	Ghaipat/ century plant	Asparagaceae.	Jun.-Mar.
137	<i>Ageopodium podograria</i> (L)	Snow of mountain	Apiaceae	May. - Jun.
138	<i>Agloonema commutatum</i> .Schott	Chinese evergreens	Areaceae	Seasonal.
139	<i>Agloonema siamenses</i> . Schott.(10)	Chinese evergreens	Areaceae	Seasonal
140	<i>Almond cathartica</i> . L.. <i>Almonda cherries.</i> L.	Goldent trumpet / Violet trumpet.	Apocynacea	Throughout the year
141	<i>Alpinia zerumbet</i> .B.I.Burt & R.M. smiths	Shell ginger / Butterfly ginger	Zingiberaceae	Mar.-May
142	<i>Amaranthus caudatus</i> . L..	Amaranth	Amaranthaceae	Aug. Dec.
143	<i>Ananas bracteatus</i> (Lindl)	Red pineapple	Bromeliaceae	Oct.-Dec.
144	<i>Aristolochia ringens</i> .Vahl.	Duck plant/ Dutchman's pipe	Aristolochaceae	Dec.-Apr.
145	<i>Asparagus racemosus</i> (willd)	Asparagus / Shatavari	Asparagaceae	Frequently
146	<i>Asparagus densiflorus</i> (Kunth)Jesop	Asparagus fern	Asparagaceae	Frequently
147	<i>Asparagus officinalis</i> L.	Asparagus	Asparagaceae	Frequently
148	<i>Aucubifolium cordaeium</i> L.	Variegatum	Euphorbiaceae	Oct-Feb.
149	<i>Barleria prionitis</i> L.	Vajradanti/ katekoranti.	Acanthaceae	Oct.-Mar.
150	<i>Bignonia cutii capreolata</i> .L..	Trumpet creeper	Bignonaceae	Mar.-May
151	<i>Bignonia grandiflora</i> .Thunb	Chinese trumpet.	Bignonaceae	Jun.-Jan.
152	<i>Calathea zebrin</i> G. mey (Sims) Lindl {2}	Zebra Plant	Marantaceae	----- -----
153	<i>Callindra emarginata</i> .Hassk.	Powder puff	Mimosaceae	Nov.-Feb.
154	<i>Cana. indica</i> . L.	Kardal	Cannaceae	Throughout the year
155	<i>Canna indica</i> L.(4)	Canna	Cannaceae	Throughout the year
156	<i>Catharanthus roseus</i> (L) G Don.	Sadabahr/ rosperiwin- kle	Apocynaceae	Throughout the year.
157	<i>Murraya exotica</i>	Orange Jasmine/Chinese box	Rutaceae	Throughout the year.
158	<i>Chlorophytum comosum</i> .(Thunb) Jacques{2}	Spiderplant	Aspergaceae	Jun.-Feb.
159	<i>Clematis erecta.</i> L.	Ranjai	Ranunculaceae	Aug.-Dec.
160	<i>Clitoria ternatea</i> L.	Gokarn/Butterfly pea	Fabaceae	Throughout the year.

161	<i>Codiaeum variegatum</i> .L.	Croton	Euphorbiaceae	Oct-Feb.
162	<i>Coleus bumei</i> (benth) (4)	coleus	Lamiaceae	Aug.-Nov.
163	<i>Cordyline fruticosa</i> comm.ex.R.br.	Ti plant/ Red sister	Aspergaceae	Nov.-Jan.
164	<i>Cordyline fruticosa.</i> (L) A .Chev.(8).	. Redstar/ cabbage tree	Aspergaceae	Nov.-Jan.
165	<i>Crassula ovate</i> .(miller) Druce	Lucky plant/, jade plant/, friendship plant/, japa- nease money plant.	Crassulaceae	-----
166	<i>Crossandra undulifolia</i> L.	Aboli .	Acanthaceaea	Nov.-Dec.
167	<i>Cuphea salvadorensis.</i> (Standl.).	Christmas cigar plant / salvadororon cigar plant	Lythraceae	Feb.-May.
168	<i>Dahlia pinnata</i> Cav.	Dahlia	Asteraceae	Jun.-Oct.
169	<i>Dendrobium trestrial</i> L.	. Orchid (Pegasus)	Orchidaceae	Jul.-Dec.
170	<i>Dianthus caryophyllus</i> L.	Clove pink	Caryophyll-aceae	Jun.-dec.
171	<i>Dianthus chinesis</i> L..	China Pink	caryophyll-aceae	Jun.-Dec.
172	<i>Dracaena fragrans</i> .Ker.Gawl.	Dracaena	Agavaceae	Sept.-Jan.
173	<i>Duranta erecta</i> . L.	Duranta/ Golden dew drop	Verbenaceae	Jun.- Oct.
174	<i>Epiphyllum macrop-terum</i> Britton of Rose	Bramha- kamal/ Leaf cacti	Cactaceae	Jul.-Jan.
175	<i>Epipremnum aureum</i> Lindon & Andre G.S. Bunting	Money plant/ Golden pathos	Aracaceae	----- -----
176	<i>Eulophia ramentacea</i> .Lindl.	Orchid	Orchidaceae	Jul.-Oct.
177	<i>Euphorbia pul-cherima</i> wilid ex klotsh	Poinsttea/ Raktaparni	Euphorbiace-aea	Through- out the year
178	<i>Euphorbia milli</i> ..Des moul	Crown of thorn	Euphorbiaceae	Jun.-Sept.
179	<i>Ficus pumila.</i> L.. (Thunb)	Climbing fig	Moraceae	-----
180	<i>Furcraea gigantia.</i> (L.) hav.	Jaint false agave/ Mau- ritus hemp.	Asperagaceae	Infre-quent
181	<i>Gerbera jamsonii</i>	Gerbera	Asteraceae	Through the year
182	<i>Goriosum codiaeum</i> L.	variegatum	Euphorbiaceae	Oct-Feb.
183	<i>Gymnema syl-vestris</i> .(Retz)R.Br. ex.Scult.es.	Bedki/ mad- hunashini/ .	Apocynaceae	Apr.-Jan.
184	<i>Hamelia patense.</i> Jacq.	Fire brush / red head	Rubiaceae	Through- out the year.
185	<i>Heliconia rostrata</i> Rutz and Pavon	False birds of paradise	Heliconiaceae	Jan.-Jul.
186	<i>Hemidesmus indicus.</i> (L) schutt.	Anantvel.	Periplocaee	Jul.-May.
187	<i>Hibiscus rosa sinesis</i> .L.{5}	Hibiscus/ Rose of China.	Malvaceae	Through- out the year
188	<i>Hippeastrum regi-nae.</i> L	Amaryllis- Red-Lilly	Amarylli- daceae	Mar.-Jun.
189	<i>Hydrangea macro-phylla.</i> L .(2).	Hydrangea	Hydrangeaceae	Jun.-Dec.
190	<i>Hymenocallis lit- torais</i>	White-lilly	Amarylli- daceae	
191	<i>Impatiens balsamina.</i> L.	Balm	Balsaminceae	Jul.-Mar.
192	<i>Imperialls codiaeum</i> . L.	variegatum	Euphorbiaceae	Oct-Feb.
193	<i>Ipomea mauritiana</i> . Jacq	Prostrate twining blue flower	Convolvu- laceae	Oct. Apr.
194	<i>Ipomea cairica</i> (sweet)	Garwel	Convolvu- laceae	Through- out the year

195	<i>Ipomoea quamoclit</i> L.:	Ganesh-pushpa	Convolvulaceae	Sept.-Dec.
196	<i>Ipomoea palmate</i> L.	Morning glory	Convolvulaceae	Aug.-Dec.
197	<i>Ipomoea purpurea</i> (L.)Roth	Railway ceeper	Convolvulaceae	Aug.-Dec.
198	<i>Ipomoea horsifolia</i> (L) Roth	Morning glory	Convolvulaceae	Oct.-Apr.
199	<i>Ixora branchiata</i> . Roxb.(5)	Ixora (flame of wood or jungle flame)	Rubiaceae	Throughout the year
200	<i>Jacquemontia pentantha</i> (Jacq)	Sky blue clusterne	Convolvulaceae	Oct.-Apr.
201	<i>Jasminum odoratissimum</i> . L.	Mogara	Oleaceae	Apr.-Aug.
202	<i>Jatropha curcas</i> . L	Jatropha/ bar-bodos nut	Euphorbeaceae	Mar.-Aug.
203	<i>Kalanchoe piñata</i> (Lam.)	Bryophyllum	crassulaceae	Dec.- Feb.
204	<i>Laropetalum chinensis</i> L.	Chinease fringe flower	Humamelidaceae	Mid-spring.
205	<i>Maranta Leuconeura</i> E. Morren	Prayer Plant	Marantaceae	Spring and summer.
206	<i>Mentha Piperita</i> L.	Pepper-mint	Lamiaceae	Aug.-Sept.
207	<i>Mesembryanthemum cordifolium</i> , L.f.	Abtenia	Aizoaceae	Throughout the year
208	<i>Musaenda erythrophylla</i> . schumach Thonn	Red flag bush.	Rubiaceae	Feb.-Sept.
209	<i>Musaenda frondosa</i> Linn	White colour dhobi tree	Rubiaceae	Apr.-Nov.
210	<i>Nerium indicum</i> .Mill(4).	Nerium	Apocynaceae	Throughout the year
211	<i>Nolina recuvata</i> Lam.	Elephant-foot-palm.	Agavaceae	-----
212	<i>Nymphdea nouchali</i> {Hook.f. &Thoms.}	Pale-Blue-Lotus	Nympeaceae	Throught, the year
213	<i>Nymphea pubescens</i> . Willd.	Red- lotus	Nympeaceae	Throughout, the year.
214	<i>Ochna obtusata</i> D.C.	Kanak-champa.	Ochnaceae	Feb. Apr.
215	<i>Ophiopogon- viridis -intermedius</i> Ker Gawl	Black dragon	Asparagaceae	-----
216	<i>Pandanus variegated</i> perkinson ex. Du.Roi	Kevada/ Screw palm	Pandanaceae	-----
217	<i>Passiflora coccinea</i> .L.	Red-krishnakamal	Passifloraceae	July-March
218	<i>Passiflora caerulea</i> . L..	Violet Krushnakamal	Passifloraceae	Jul. –Mar.
219	<i>Pedilanthus tithymaloides</i> L..(2)	Vilayti- sher/ Red slipper plant	Euphorbiaceae	Oct.-Dec.
220	<i>Pelargonium hortorum</i> L.H. Balley	Geranium .	Geraniaceae	Jul.-Jan.
221	<i>Pelargonium hortorum</i> L.H.Balley	Geranium	Geraniaceae	Sept.-Dec.
222	<i>Penstemon species</i> .	Nicodia.	Scrophulariaceae.	Apr.-May.
223	<i>Pentas lanceolata</i> (.H.) (forssk) } Deflers {3}	Egyptian starcluster	Rubiaceae	Jun.-Dec.
224	<i>Petunia hybrida</i> Vilm	Petunia	Slaneaceae	Jun.-Dec.
225	<i>Philodendron bipinnatifidum</i> .. Schott. (2)	Big leaf philodendron	Aracaceae	-----
226	<i>Plumbago zeylanica</i> Linn	Chitrak / lead war	Plumbaginaceae	Dec.-Jun.

227	<i>Plumbago capensis</i> Thunb	Chitrak / lead war	Plumbaginaceae	Oct.-Jun.
228	<i>Plumeria alba</i> . L.	Plumeria/ pagoda tree	Apocynaceae	May-Sept.
229	<i>Plumeria obtuse</i> . L.	Plumeria/ champel sluk tiel	Apocynaceae	May-Sept.
230	<i>Plumeria pudica</i> Jacq	Plumeria/ Golden arrow	Apocynaceae	
231	<i>Plumeria rubra</i> . L.	Plumeria Frangipant / red Jasmine	Apocynaceae	Mar.-Sept.
232	<i>Punctatum codiaeum</i> .L.	Variegatum	Euphorbiaceae	Oct-Feb.
233	<i>Quisqualis densiflora</i> Lam.	Madhumalti.	Combretaceae	Throughout the year
234	<i>Rhoeo spathacea</i> . (sw) var-compacta Tricolor vittata (3)	Purple heart/ Rhoeo	Commeliaceae	Aug.-Dec.
235	<i>Rosa damascena</i> ..Mill	Rose	Rosaceae	Throughout the year
236	<i>Rosa polyantha</i> Hort.ex	Rose. Damask	Rosaceae	Throughout the year
237	<i>Ruelia brittoniana</i> .	Chi-chi/ Katai Pink	Acanthaceae	Throughout the year.
238	<i>Sansevieria trifasciata</i> ..Prain .(2)	Snake plant	Asparagaceae	Throughout the year
239	<i>Scefflera actinophylla</i> . {endl.}Harms.	Umbrella tree/Octopus tree.	Ariliaceae	Jul.-Aug.
240	<i>Spathacea tradescantia</i> s.w.	Rheo/moses in the cradle	Commelinaceae	Aug.-Dec.
241	<i>Synedrella nodiflora</i> (L) Gaertn	Synedrella	Astaraceae	Jul.-Feb.
242	<i>Syngonium podophyllum</i> schoot	Arrow head plant/vine African evergreen white butterfly	Araceae	Oct.- Dec.
243	<i>Tabernaemontana divaricata</i> R.Br. ex.Roem.	Tagar/Milk-wood	Apocynaceae	Throughout the year
244	<i>Thunbergia fragranca</i> .Roxb.	White Leady.	Acanthaceae	Apr.-Aug.
245	<i>Thunbergia erecta</i> . Benth.T.Anderson.	Kings-Mantle	Acanthaceae	Throughout the year.
246	<i>Thunbergia grandiflora</i> .Roxb ex. Rottler	Blue sky-vine/ Bush clockvine	Acanthaceae	Aug-Sept.
247	<i>Yucca aloifolia</i> .L	Aloe Yucca	Asparagaceae	Oct.- May
248	<i>Zephyranthes candid</i> . (Lindl) .	White-Rain lilly.	Amaryllidaceae	Throughout the year
249	<i>Zephyranthes carinata</i>	Pink rain lilly	Amaryllidoi-aceae	Jun.-Sept.

Gymnosperm

Sr.NO.	Botanical Name	Common Name	Family	Cone/ fruiting
250	<i>Arucaria excels</i> (salisb.)Franco.	Chrismas tree	Araucariaceae	Frequently in year
251	<i>Cycas revolute</i> . Thunb	Cycas	Cycadaceae	Frequently in year
252	<i>Dioon spinulosum</i> .Dyer ex.	Dioon/Gum plant.	Zamiaceae	Frequently in year
253	<i>Juniperus communis</i> L	Cupressus	Cupres-saceae	Frequently in year
254	<i>Juniperus sabina</i> .L.	Savin	Cupres-saceae	Frequently in year
255	<i>Juniperus chinensis</i> . L.	Juniperus	Cupres-saceae	Frequently in year

256	<i>Thuja accidentalis</i> .L.	Thuja	Cupressaceae	Frequently in year
257	<i>Zamia furfuracea</i> .L.f	Cardboard cycad	Zamiaceae.	Frequently in year

Pteridophyta

Sr.No.	Botanical Name	Common Name	Family	Sporangia/Sori.
258	<i>Adiantum pedatum</i> L.	Maidenhair fern.	Pteridaceae	Aug.-Dec.
259	<i>Asplenium nidus</i> L.	Asplenium	Aspleniaceae	Aug.-Dec.
260	<i>Marsilea quadrifolia</i> L.	Four leaf clover	Marsiliaceae	Aug.-Dec.
261	<i>Nephrolepis exaltata</i> L. shoot	Fishbone fern/ B.F	Lomariopsidaceae	Aug.-Dec.
262	<i>Nephrolepis obliterate</i> (R.Br.) JSM	Bosten fern	Lomariopsidaceae	Aug.-Dec.
263	<i>Pleopeltis per-cussa</i> (cav.)	Hook and grew ple-opeltis	Polypodiaceae	Aug.-Dec.
264	<i>Pteridium aquilinum</i> (L.Kuhn)	Pteridium.	Polypodiaceae	Aug.-Dec.
265	<i>Pteris vittata</i> . L.	Chinese broke	Pteridaceae	Aug.-Dec.

CONCLUSION:

Ganesh- tekadi a patch of vegetation protected by student and staff members of Rahuri college .It is one of the finest example of people initiative in conserving native as well as exotic bio-diversity. More ever it is distinct segments of various landscape containing trees and other forms of life as well as geographical features (Abhang-2012).

Rich floristic composition of plant species found in Ganesh-tekadi, will be useful for student ,biologist and plant-lovers .It will also encourage research and investigation for understanding our plant wealth as well as conservation of them.

Conservation of flora in the locality creates beautiful nature, pleasant atmosphere, sheltering number of Birds; decline the temperature up to 2 C, which is more appealing to the local people.

Actual practice is much important. What we people think about geographical development and conservation bio-diversity it is not important but people shall be influenced by act. That's why it is said; Think Globally, Act Locally and Do Personally. (Goverdhane2013).

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