

To,

St. Francis Institute of Technology Engineering College, Borivali(W) ,Mumbai.

Tree diversity analysis and soil analysis was conducted in the campus of St. Francis Institute of Technology Engineering College, and it is found that the soil is very fertile having large number of tree species attracting large number of birds species and the report of analysis of tree and soil is enclosed below.

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CA /2018/97606

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**TREE DIVERSITY OF St. Francis Institute of Technology Engineering College, Borivali(W)
,Mumbai.**

St. Francis Institute is within the geo-position between latitude 19°14'37.039" N and longitude 72°51'20.154" E in Mumbai, India. It encompasses an area of about 5 Acres.

The area is immensely diverse with a variety of tree species performing a variety of functions. Most of these tree species are planted in different periods of time through various plantation programs organized by the College authority and have become an integral part of the college. The trees of the college have increased the quality of life, not only the college fraternity but also the people around of the college in terms of contributing to our environment by providing oxygen, improving air quality, climate amelioration, conservation of water, preserving soil, and supporting wildlife, controlling climate by moderating the effects of the sun, rain and wind. Leaves absorb and filter the sun's radiant energy, keeping things cool in summer.

Many species of birds are dependent on these trees mainly for food and shelter. Nectar of flowers and plants is a favorite of birds and many insects. Leaf – covered branches keep many animals, such as birds and squirrels, out of reach of predators.

Different species display a seemingly endless variety of shapes, forms, texture and vibrant colors. Even individual trees vary their appearance throughout the course of the year as the seasons change. The strength, long lifespan and regal stature of trees give them a monument – like quality.

They also remind us of the glorious history of our institution in particular. We often make an emotional connection with these trees and sometime become personally attached to the ones that we see every day.

A thick belt of large shady trees in the periphery of the college have found to be bringing down noise and cut down dust and storms. Thus, the college has been playing a significant role in maintaining the environment of the entire Borivali suburb of Mumbai & in its surrounding areas.

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The following are the tree species with whom we are being attached.

St. Francis Institute of Technology			
SURVEY OF THE TREES IN SFIT BORIVALI			
Sr. No	Number on the Tree	Name of the Tree	Count
1	343	Almond	1
2	354	Almond	2
3	236 A	Almond	3
4	240	Almond	4
5	241	Almond	5
6	494	Almond	6
7	495	Almond	7
8	496	Almond	8
9	497	Almond	9
10	498	Almond	10
11	508 C	Almond	11
12	509 B	Almond	12
13	496 H	Almond	13
14	509 G	Almond	14
15	512	Almond	15
16	90	Almond	16
17	92	Almond	17
18	1C	Ashoka	1
19	1	Ashoka	2
20	2	Ashoka	3
21	3	Ashoka	4
22	4	Ashoka	5
23	5	Ashoka	6
24	6	Ashoka	7
25	7	Ashoka	8
26	8	Ashoka	9
27	9	Ashoka	10
28	10	Ashoka	11
29	11	Ashoka	12

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30	13	Ashoka	13
31	14	Ashoka	14
32	15	Ashoka	15
33	16	Ashoka	16
34	17	Ashoka	17
35	18	Ashoka	18
36	19	Ashoka	19
37	20	Ashoka	20
38	21	Ashoka	21
39	23	Ashoka	22
40	24	Ashoka	23
41	25	Ashoka	24
42	26	Ashoka	25
43	27	Ashoka	26
44	28	Ashoka	27
45	29	Ashoka	28
46	30	Ashoka	29
47	31	Ashoka	30
48	32	Ashoka	31
49	34	Ashoka	32
50	35	Ashoka	33
51	36	Ashoka	34
52	37	Ashoka	35
53	38	Ashoka	36
54	39	Ashoka	37
55	40	Ashoka	38
56	41	Ashoka	39
57	42	Ashoka	40
58	43	Ashoka	41
59	44	Ashoka	42
60	45	Ashoka	43
61	46	Ashoka	44
62	47	Ashoka	45
63	48	Ashoka	46
64	49	Ashoka	47
65	50	Ashoka	48
66	51	Ashoka	49

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67	314	Ashoka	50
68	315	Ashoka	51
69	316	Ashoka	52
70	318	Ashoka	53
71	319	Ashoka	54
72	320	Ashoka	55
73	321	Ashoka	56
74	322	Ashoka	57
75	323	Ashoka	58
76	370	Ashoka	59
77	108	Ashoka	60
78	195	Ashoka	61
79	174	Ashoka	62
80	118 A	Ashoka	63
81	118 B	Ashoka	64
82	118 C	Ashoka	65
83	118 D	Ashoka	66
84	118 E	Ashoka	67
85	118 F	Ashoka	68
86	118 G	Ashoka	69
87	118 H	Ashoka	70
88	118 I	Ashoka	71
89	268	Ashoka	72
90	267	Ashoka	73
91	266	Ashoka	74
92	265	Ashoka	75
93	263	Ashoka	76
94	263	Ashoka	77
95	262	Ashoka	78
96	261	Ashoka	79
97	260	Ashoka	80
98	259	Ashoka	81
99	258	Ashoka	82
100	257	Ashoka	83
101	256	Ashoka	84
102	255	Ashoka	85
103	254	Ashoka	86

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104	253	Ashoka	87
105	252	Ashoka	88
106	251	Ashoka	89
107	250	Ashoka	90
108	249	Ashoka	91
109	248	Ashoka	92
110	247	Ashoka	93
111	246	Ashoka	94
112	501	Ashoka	95
113	507	Ashoka	96
114	508 B	Ashoka	97
115	508 E	Ashoka	98
116	508 G	Ashoka	99
117	508 F	Ashoka	100
118	509 A	Ashoka	101
119	509 D	Ashoka	102
120	511 A	Ashoka	103
121	511 B	Ashoka	104
122	511 C	Ashoka	105
123	511 D	Ashoka	106
124	511 E	Ashoka	107
125	512 A	Ashoka	108
126	87 A	Ashoka	109
127	170 C	Ashoka	110
128	170 D	Ashoka	111
129	172 A	Ashoka	112
130	495 A	Ashoka	113
131	495 B	Ashoka	114
132	495 C	Ashoka	115
133	495 D	Ashoka	116
134	495 E	Ashoka	117
135	496 A	Ashoka	118
136	496 B	Ashoka	119
137	496 C	Ashoka	120
138	496 D	Ashoka	121
139	496 E	Ashoka	122
140	496 F	Ashoka	123

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141	496 G	Ashoka	124
142	496 I	Ashoka	125
143	497 A	Ashoka	126
144	497 C	Ashoka	127
145	215 B	Avla	1
146	215 A	Babool	1
147	497 B	Bakul	1
148	94	Bay leaves	1
149	100 A	Bay leaves	2
150	308	Bel	1
151	311	Bel	2
152	312	Bel	3
153	334	Bel	4
154	346	Breadfruit	1
155	147	Breadfruit	2
156	147	Breadfruit	3
157	216 A	Breadfruit	4
158	231 E	Butter Fruit	1
159	343	Chickoo	1
160	344	Chickoo	2
161	125	Chickoo	3
162	128	Chickoo	4
163	146	Chickoo	5
164	149	Chickoo	6
165	213	Chickoo	7
166	66	Chickoo	8
167	146	Chickoo	9
168	104	Christmas tree	1
169	103	Coconut	1
170	152	Coconut	2
171	178	Coconut	3
172	177	Coconut	4
173	176	Coconut	5
174	174- A	Coconut	6
175	111-A	Coconut	7
176	112	Coconut	8
177	113	Coconut	9

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178	114	Coconut	10
179	115	Coconut	11
180	118	Coconut	12
181	120	Coconut	13
182	122	Coconut	14
183	126	Coconut	15
184	129	Coconut	16
185	130	Coconut	17
186	132	Coconut	18
187	150	Coconut	19
188	152	Coconut	20
189	88	Coconut	21
190	143	Coconut	22
191	148	Coconut	23
192	242	Coconut	24
193	243	Coconut	25
194	208	Coconut	26
195	211	Coconut	27
196	212	Coconut	28
197	214	Coconut	29
198	216	Coconut	30
199	219	Coconut	31
200	220	Coconut	32
201	223	Coconut	33
202	224	Coconut	34
203	226	Coconut	35
204	231	Coconut	36
205	244	Coconut	37
206	243	Coconut	38
207	88	Coconut	39
208	148	Coconut	40
209	170 B	Coconut	41
210	172	Coconut	42
211	172 D	Coconut	43
212	171	Coconut	44
213	173	Coconut	45
214	173 B	Coconut	46

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215	159	Coconut	47
216	158	Coconut	48
217	157	Coconut	49
218	83	Coconut	50
219	84	Coconut	51
220	80	Coconut	52
221	79	Coconut	53
222	77	Coconut	54
223	78	Coconut	55
224	300	Coconut	56
225	302	Coconut	57
226	304	Coconut	58
227	310	Coconut	59
228	317	Coconut	60
229	330	Coconut	61
230	332	Coconut	62
231	336	Coconut	63
232	339	Coconut	64
233	345	Coconut	65
234	347	Coconut	66
235	350	Coconut	67
236	355	Coconut	68
237	359	Coconut	69
238	360	Coconut	70
239	361	Coconut	71
240	362	Coconut	72
241	363	Coconut	73
242	364	Coconut	74
243	365	Coconut	75
244	366	Coconut	76
245	367	Coconut	77
246	368	Coconut	78
247	369	Coconut	79
248	371	Coconut	80
249	372	Coconut	81
250	373	Coconut	82
251	374	Coconut	83

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252	375	Coconut	84
253	376	Coconut	85
254	377	Coconut	86
255	378	Coconut	87
256	379	Coconut	88
257	380	Coconut	89
258	67	Coconut	90
259	86	Coconut	91
260	87	Coconut	92
261	91	Coconut	93
262	93	Coconut	94
263	95	Coconut	95
264	96	Coconut	96
265	97	Coconut	97
266	99	Coconut	98
267	103	Coconut	99
268	144	Coconut	100
269	143	Coconut	101
270	135	Coconut	102
271	120	Coconut	103
272	122	Coconut	104
273	202	Cononut	105
274	203	Cononut	106
275	204	Cononut	107
276	176- A	Custard Apple	1
277	170 A	Custard Apple	2
278	172 B	Custard Apple	3
279	172 C	Custard Apple	4
280	175	Drumstick	1
281	139	Drumstick	2
282	140	Drumstick	3
283	141	Drumstick	4
284	142	Drumstick	5
285	145	Drumstick	6
286	145	Drumstick	7
287	142	Drumstick	8
288	121	Forest Tree	1

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289	508	Forest Tree	2
290	497 D	Forest Tree	3
291	1A	Guava	1
292	1B	Guava	2
293	196	Guava	3
294	205	Guava	4
295	306	Gulmohar	1
296	331	Gulmohar	2
297	333	Gulmohar	3
298	337	Gulmohar	4
299	342	Gulmohar	5
300	237	Gulmohar	6
301	238	Gulmohar	7
302	313	Jackfruit	1
303	324	Jackfruit	2
304	116	Jackfruit	3
305	119	Jackfruit	4
306	123	Jackfruit	5
307	144	Jackfruit	6
308	231 A	Jackfruit	7
309	231 B	Jackfruit	8
310	231 C	Jackfruit	9
311	231 D	Jackfruit	10
312	231 E	Jackfruit	11
313	140	Jackfruit	12
314	76	Jackfruit	13
315	109	Jamun - Jam whok	1
316	206	Jamun - Jam whok	2
317	207	Jamun - Jam whok	3
318	245 A	Jamun - Jam whok	4
319	245 B	Jamun - Jam whok	5
320	245	Jamun - Jam whok	6
321	38 A	Mango	1
322	301	Mango	2
323	303	Mango	3
324	305	Mango	4
325	307	Mango	5

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326	309	Mango	6
327	335	Mango	7
328	357	Mango	8
329	358	Mango	9
330	174- B	Mango	10
331	127	Mango	11
332	151	Mango	12
333	236	Mango	13
334	239	Mango	14
335	244	Mango	15
336	245	Mango	16
337	201	Mango	17
338	210	Mango	18
339	215	Mango	19
340	218	Mango	20
341	221	Mango	21
342	222	Mango	22
343	225	Mango	23
344	227	Mango	24
345	228	Mango	25
346	229	Mango	26
347	230	Mango	27
348	494 B	Mango	28
349	499	Mango	29
350	502	Mango	30
351	503	Mango	31
352	506	Mango	32
353	508 A	Mango	33
354	508 D	Mango	34
355	69	Mango	35
356	68	Mango	36
357	98	Mango	37
358	136	Mango	38
359	149	Mango	39
360	85	Mango	40
361	81	Mango	41
362	82	Mango	42

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363	75	Mango	43
364	170	Mango Dry	1
365	52	Neem	1
366	338	Neem	2
367	341	Neem	3
368	209	Neem	4
369	217	Neem	5
370	245	Neem	6
371	504	Neem	7
372	510	Neem	8
373	494 A	Orchid	1
374	12	Palm	1
375	315 A	Palm	2
376	356	Palm	3
377	178 A	Palm	4
378	178 B	Palm	5
379	178 C	Palm	6
380	178 D	Palm	7
381	178 E	Palm	8
382	176- B	Palm	9
383	176- C	Palm	10
384	175- A	Palm	11
385	116 A	Palm	12
386	116 B	Palm	13
387	116 C	Palm	14
388	116 D	Palm	15
389	117	Palm	16
390	121	Palm	17
391	124	Palm	18
392	131	Palm	19
393	204 C	Palm	20
394	204 D	Palm	21
395	204 E	Palm	22
396	204 F	Palm	23
397	512 B	Palm	24
398	512 C	Palm	25
399	512 D	Palm	26

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400	512 E	Palm	27
401	100	Palm	28
402	104	Parana Pine	1
403	101	Pisonia Grandis	1
404	505	Rain Tree	1
405	509	Rein tree	2
406	88-A	Sona / Apta	1
407	87	Sona / Apta	2
408	236 B	Sona / Apta	3
409	236 C	Sona / Apta	4
410	235	Sona / Apta	5
411	509 E	Sona / Apta	6
412	509 F	Sona / Apta	7
413	89	Sona / Apta	8
414	511	Tamarind	1
415	173 A	Tamarind	2
416	500	Tamarind	3
417	494 C	Fig	1

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SR no	Name of the Tree	Total Count
1	Almond	17
2	Ashoka	127
3	Avla	1
4	Babool	1
5	Bakul	1
6	Bay leaves	2
7	Bel	4
8	Bread Fruit	4
9	Butter Fruit	1
10	Chickoo	9
11	Christmas tree	1
12	Coconut	107
13	Custard Apple	4
14	Drumsticks	8
15	Forest tree	3
16	Guava	4
17	Gulmohar	7
18	Jackfruit	13
19	Jamun - Jam whok	6
20	Mango	43
21	Mango Dry	1
22	Neem	8
23	Orchid	1
24	Palm	28
25	Parana Pine	1
26	Pisonia Grandis	1
27	Rain Tree	2
28	Sona / Apta	8
29	Tamarind	3
30	Fig	1
	Total count	417

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Sr. No	Names of the ornamental plants	Total Count
1	Fishtail Palm	27
2	Royal Palm	56
3	Coleus Rainbow Mixed Color	17
4	Nephrolepis Exaltata Teddy Junior (Green) - Plant	8
5	Juniper, Juniperous Erecta - Plant	13
6	Aloe vera - Succulent Plant	21
7	Royal Palm, Roystonea regia - Plant	22
8	Furcraea Gigantea Striata, Furcraea Foetida Striata - Plant	14
9	Croton Plant, Codiaeum variegatum (Magnificent) - Plant	19
10	Ficus Safari, Ficus benjamina - Plant	16
11	Poinsettia, Christmas Flower (Any color) - Plant	5
12	Croton Plant, Codiaeum variegatum (Captain Kidd) - Plant	9
13	Ophiopogon Jaburan Variegated, Giant Lily Turf - Plant	13
14	Ficus Starlight, Ficus benjamina - Plant	10
15	Table palm, Umbrella Palm - Plant	8
16	Croton Plant, Codiaeum variegatum (Petra) - Plant	12
17	Ficus Benjamina, Weeping Fig - Plant	8
18	Allamanda Tiger (Peach Orange) - Plant	4
19	Allamanda Tiger (White) - Plant	3
20	Christmas Tree - Plant	8
21	Rose (Red) - Plant	3
22	Areca Palm - Plant	12
23	Dieffenbachia Sparkles - Plant	18
24	Bird of Paradise - Plant	7
25	Dracaena Colorama - Plant	5
26	Eranthemum Purpureum, Kodia Purple Leaves - Plant	3
27	Croton Plant, Codiaeum variegatum (Maroon) - Plant	6
28	Croton Plant, Codiaeum variegatum (Gold Dust, Big Leaves)- Plant	8
29	Croton Plant, Codiaeum variegatum (Gold Dust, Thin Leaves) - Plant	4
30	Dracaena Mahatma, Cordyline Terminalis Mahatma - Plant	7
31	Aglaonema dud anyamanee, Aglaonema anyamanee (Green, Pink) - Plant	4
	Total number of trees	370

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This is to certify that the above given analysis is true up to my knowledge .

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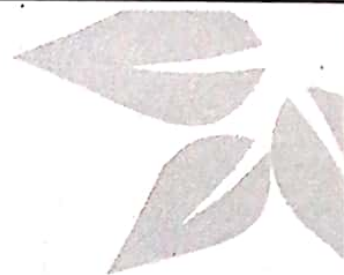


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ANALYSIS REPORT

Date:15-11-2021

Sample: Soil Parameter	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
pH 1%	6.40	6.82	6.76	6.79	7.65
Electrical Conductivity	0.014dS/m	0.0071dS/m	0.0093dS/m	0.0087dS/m	0.021dS/m

Ideal pH Range : 6.5-7.5

Ideal E.C Range: <1 dS/m

Tested by 


Authorized by 