

GPS Based Tree Inventory Report

St.Teresa's Institute Of Education, Santa Cruz, Mumbai.

September, 2021.



Terracon Ecotech Pvt. Ltd.

202, Kingston, Tejpal Road. Vile Parle (East),
Mumbai – 400057 (INDIA)

GPS Based Tree Inventory Report

The field survey was conducted in September 2021 in the St. Teresa's Institute Of Education, Santa Cruz to document the floristic diversity. Trees with a girth (Diameter) of 10 cm and above are geotagged. Whereas, the individuals having a girth less than 10 cm (0.1m) are listed in the inventory.

1. SUMMARY TABLE

SN	Particulars	Remarks
1	Tree species documented	33 Species belonging to 18 Families were documented.
2	Tree species Geotagged	30 Species (Out of this, 3 species are not listed in tree inventory.
3	Total tree Individual Geotagged	94 trees were geo tagged during the survey.
4	Tree species (non-geotagged)	3 Species (Individuals of Night-flowering jasmine, Ceylon Iron wood and Curry leaf were having girth of less than 10 cm, hence were kept untagged.)
5	Tree species (Unidentified)	Out 1 Tree species remain unidentified.
6	Native species	17 Trees species
7	Exotic species	15 Tree species.
8	Shrubs, Herbs, Climbers and Twiner's	Shrubs (26 species) Herbs (33 species), Climbers and twiners (10 species).
9	RET (Rare, Endangered and Teatened Species)	Oriental Thuja is categorised under the IUCN redlist, as a "Near Threatened" species. Being an exotic ornamental species , and planted on the large scale it is not a species of concern.

2. TREE INVENTORY, INDIVIDUAL COUNT AND LAYOUT

2.1 Individuals of trees

Trees species with the individual count are as follows

SN	SCIENTIFIC NAME	ENGLISH COMMON NAME	MARATHI LOCAL NAME	FAMILY	ORIGIN	IUCN STATUS	COUNT
1	<i>Albizia saman</i>	Rain tree	Gulabi shirish	Fabaceae	Exotic	LC	1
2	<i>Araucaria columnaris</i>	Christmas tree	NA	Araucariaceae	Exotic	LC	2
3	<i>Artocarpus heterophyllus</i>	Jackfruit	Phanas	Moraceae	Native	–	4
4	<i>Averrhoa bilimbi</i>	Cucumer tree	Bilambi	Oxalidaceae	Exotic	–	1
5	<i>Averrhoa carambola</i>	Star fruit	Karmal	Oxalidaceae	Native	–	1
6	<i>Azadirachta indica</i>	Margosa tree	Kadulimb	Meliaceae	Native	LC	5
7	<i>Bauhinia acuminata</i>	Dwarf White orchid tree	NA	Fabaceae	Exotic	LC	2
8	<i>Cassia siamea</i>	Siamese cassia	Kasod	Fabaceae	Exotic	LC	2
9	<i>Citrus limon</i>	Lemon	Limbu	Rutaceae	Native	LC	1
10	<i>Cocos nucifera</i>	Coconut	Naral	Arecaceae	Native	–	17
11	<i>Cupressus sempervirens</i>	Mediterranean cypress	NA	Cupressaceae	Exotic	LC	1
12	<i>Delonix regia</i>	Royal Poinciana	Gulmohur	Fabaceae	Exotic	LC	1
13	<i>Eucalyptus globulus</i>	Eucalyptus	Nilgiri	Myrtaceae	Exotic	LC	1
14	<i>Ficus benghalensis</i>	Banyan tree	Vad	Moraceae	Native	–	1

SN	SCIENTIFIC NAME	ENGLISH COMMON NAME	MARATHI LOCAL NAME	FAMILY	ORIGIN	IUCN STATUS	COUNT
15	<i>Kigellia pinnata</i>	Sausage tree	NA	Bignoniaceae	Exotic	LC	1
16	<i>Mangifera indica</i>	Mango	Amba	Anacardiaceae	Native	DD	15
17	<i>Manilkara sapota</i>	Sapodilla	Chickoo	Sapotaceae	Exotic	–	2
18	<i>Moringa oliefera</i>	Drumstick tree	Shevga	Moringaceae	Native	LC	4
19	<i>Phyllanthus acidus</i>	Star gooseberry	Rai avala	Phyllanthaceae	Native	–	3
20	<i>Platycladus orientalis</i>	Oriental thuja	Morphankhi	Cupressaceae	Exotic	NT	1
21	<i>Polyalthia longifolia</i> var. <i>longifolia</i>	Mast tree	Asupalav	Annonaceae	Native	–	6
22	<i>Polyalthia longifolia</i> var. <i>pendula</i>	Mast tree	Asupalav	Annonaceae	Native	–	9
23	<i>Pongamia pinnata</i>	Indian beech tree	Karanj	Fabaceae	Native	LC	1
24	<i>Psidium guajava</i>	Guava	Peru	Myrtaceae	Exotic	LC	3
25	<i>Spathodea campanulata</i>	Fountain tree	Pichkari	Bignoniaceae	Exotic	LC	1
26	<i>Syzygium cumini</i>	Java plum	Jambhul	Myrtaceae	Native	–	1
27	<i>Syzygium jambos</i>	Rose Apple	Jamb	Myrtaceae	Exotic	LC	1
28	<i>Tamarindus indicus</i>	Tamarind	Chinch	Fabaceae	Exotic	LC	1
29	<i>Terminalia catappa</i>	Indian almond	Desi badam	Combretaceae	Native	LC	1
30	Unidentified species	NA	NA	NA	NA	NA	1
31	Dead tree						3
Total number of individuals							94

3. INVENTORY – SHRUBS, HERBS, CLIMBERS AND TWINER'S

SN	HABIT	SCIENTIFIC NAME	LOCAL NURSERY NAME	FAMILY
1	Climber/ Twinner	<i>Campsis</i> sp.	NA	Bignoniaceae
2	Climber/ Twinner	<i>Clerodendrum thomsoniae</i>	Bleeding-heart vine	Verbinaceae
3	Climber/ Twinner	<i>Ipomoea quamoclit</i>	Cypress vine	Convolvulaceae
4	Climber/ Twinner	<i>Jasminium auriculatum</i>	Juii	Oleaceae
5	Climber/ Twinner	<i>Jasminium multiflorum</i>	Jai	Oleaceae
6	Climber/ Twinner	<i>Passiflora coccinea</i>	Red Passiflora	Passifloraceae
7	Climber/ Twinner	<i>Philodendron</i> sp.	Philidendron	Araceae
8	Climber/ Twinner	<i>scindapsus aureum</i> var. "Gold king"	Goldking Money plant	Araceae
9	Climber/ Twinner	<i>Scindapsus aureum</i> var. "green"	Green Money plant	Araceae
10	Climber/ Twinner	<i>Scindapsus aureum</i> var. "neon"	Golden money plant	Araceae
11	Herbs	<i>Aglaonema commutatum</i> "Lipstick"	Aglaonema lipstick	Araceae
12	Herbs	<i>Aglaonema commutatum</i> "silver queen"	Chinese evergreen	Araceae
13	Herbs	<i>Anthurium</i> sp.	Anthurium	Araceae
14	Herbs	<i>Asparagus aethiopicus</i>	Fox tail Asparagus	Asparagaceae
15	Herbs	<i>Asparagus setaceus</i>	Lacy Asparagus Fern	Asparagaceae
16	Herbs	<i>Calathea Tricolor</i>	Maranta	Marantaceae
17	Herbs	<i>Chlorophytum comosum</i>	Spider plant	Asparagaceae
18	Herbs	<i>Coleus amboinicus</i>	Mexican mint	Labiatae
19	Herbs	<i>Colocassia</i> sp.	Colocassia	Araceae
20	Herbs	<i>Costus pictus</i>	Painted Spiral Ginger	Costaceae
21	Herbs	<i>Crossandra</i> sp.	Pink aboli	Acanthanthaceae

SN	HABIT	SCIENTIFIC NAME	LOCAL NURSERY NAME	FAMILY
22	Herbs	<i>Curcuma longa</i>	Turmeric	Zingiberaceae
23	Herbs	<i>Dendrobium sp</i>	Dendrobium	Orchidaceae
24	Herbs	<i>Dracaena trifasciata</i>	Mother-in-law tongue	Asparagaceae
25	Herbs	<i>Dracaena trifasciata "superba green"</i>	Dwarf Sansevieria green	Asparagaceae
26	Herbs	<i>Hedychium coronarium</i>	Sontakka	Zingiberaceae
27	Herbs	<i>Heliconia rostrata</i>	Loebster claw	Heliconiaceae
28	Herbs	<i>Ixora taiwanensis (Pink)</i>	Dwarf Ixora (pink)	Rubiaceae
29	Herbs	<i>Musa paradisiaca</i>	Banana	Musaceae
30	Herbs	<i>Pandanus tinctoreus (Variegated)</i>	Variegated Pandanus	Pandanaceae
31	Herbs	<i>Pentas lanceolata (Pink)</i>	Egyptian starcluster Pink	Rubiaceae
32	Herbs	<i>Pentas lanceolata (White)</i>	Egyptian starcluster White	Rubiaceae
33	Herbs	<i>Polyscias fruticose</i>	Ming Aralia	Araliaceae
34	Herbs	<i>Portulaca grandiflora</i>	Moss-rose purslane	Portulacaceae
35	Herbs	<i>Saussurea obvallata</i>	Brahma Kamal	Asteraceae
36	Herbs	<i>Syngonium podophyllum "variegated"</i>	Variegated syngonium	Araceae
37	Herbs	<i>Syngonium podophyllum "White Butterfly"</i>	Syngonium white	Araceae
38	Herbs	<i>Syngonium podophyllum 'Neon Robusta'</i>	Syngonium pink	Araceae
39	Herbs	<i>Syngonium wanlandi</i>	Wanlandii Syngonium	Araceae
40	Herbs	<i>Tabernaemontana divaricata,</i>	Crepe Jasmine	Apocynaceae
41	Herbs	<i>Tradescantia spathacea</i>	Boatlily	Commelinaceae
42	Herbs	<i>Vinca rosea (White)</i>	White Vinca	Apocynaceae
43	Herbs	<i>Yucca sp.</i>	Yucca	Asparagaceae
44	Shrubs	<i>Adenium obesum</i>	Desert Rose	Apocynaceae
45	Shrubs	<i>Allamanda cathartica</i>	Golden trumpet	Apocynaceae
46	Shrubs	<i>Areca catechu</i>	Areca nut	Arecaceae
47	Shrubs	<i>Bougainvillea sp. (White)</i>	White Bougainvillea	Nyctaginaceae
48	Shrubs	<i>Cestrum nocturnum</i>	Night blooming jamine	Solanaceae
49	Shrubs	<i>codiaeum variegatum var "gold dust"</i>	Thin leaf Gold dust	Araceae
50	Shrubs	<i>codiaeum variegatum var "gold dust"</i>	Broadleaf Gold dust	Araceae
51	Shrubs	<i>Codieum variegatum</i>	Garden Croton	Araceae
52	Shrubs	<i>Cordylina fruticosa</i>	Cordylina	Asparagaceae
53	Shrubs	<i>Dieffenbachia bowmannii</i>	Dieffenbachia	Araceae
54	Shrubs	<i>Dieffenbachia seguine</i>	Dieffenbachia	Araceae
55	Shrubs	<i>Dracaena green</i>	Dracaena golden milky plant	Asparagaceae
56	Shrubs	<i>Dracaena reflexa</i>	Song of India	Asparagaceae
57	Shrubs	<i>Duranta erecta</i>	Sky flower	Verbinaceae
58	Shrubs	<i>Dypsis lutescens</i>	Butterfly Palm	Arecaceae
59	Shrubs	<i>Euphorbia pulcherrima</i>	Poinsettia	Euphorbiaceae
60	Shrubs	<i>Hibiscus rosa-sinensis (Pink)</i>	Pink Hibiscus	Malvaceae
61	Shrubs	<i>Hibiscus rosa-sinensis (Red)</i>	Red Hibiscus	Malvaceae
62	Shrubs	<i>Hibiscus rosa-sinensis (yellow)</i>	Yellow Hibiscus	Malvaceae
63	Shrubs	<i>Lantana camara (Red)</i>	Regular Lantana	Verbinaceae
64	Shrubs	<i>Lantana camara (Yellow)</i>	Yellow Lantana	Verbinaceae
65	Shrubs	<i>Leucuala grandis</i>	Fan palm	Arecaceae
66	Shrubs	<i>Mussaenda philippica 'Aurora'</i>	White Mussaenda	Rubiaceae
67	Shrubs	<i>Mussaenda philippica 'Queen Sirkit'</i>	Pink flag bush	Rubiaceae

SN	HABIT	SCIENTIFIC NAME	LOCAL NURSERY NAME	FAMILY
68	Shrubs	<i>Nerium oleander</i>	Oleander	Apocynaceae
69	Shrubs	<i>Plumbago auriculata</i>	Blue Plumbago	Plumbaginaceae
70	Trees	<i>Mesua ferrea</i>	Ceylon iron wood	Callophyllaceae
71	Trees	<i>Murraya koengii</i>	Curry leaf	Rutaceae
72	Trees	<i>Nyctanthes arbo-tristis</i>	Night-flowering jasmine	Oleaceae

Tree Inventory with GPS Location

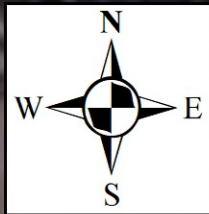
Tree Number	Scientific name	English Common name	Marathi Local name	Family	Girth	Height	Age	Canopy	Remarks	Latitude	Longitude
1	Azadirachta indica	Margosa tree	Kadulimb	Meliaceae	96	8	18	4		19.076732	72.838007
2	Kigellia pinnata	Sausage tree	NA	Bignoniaceae	275	25	50	10		19.076763	72.837992
3	Dead tree	NA	NA	NA	0	0	0	0		19.076766	72.837913
4	Polyalthia longifolia var. pendula	Mast tree	Asupalav	Annonaceae	92	25	30	2		19.076764	72.837857
5	Eucalyptus globulus	Eucalyptus	Nilgiri	Myrtaceae	164	25	30	7		19.076749	72.837854
6	Cassia siamea	Siamese cassia	Kasod	Fabaceae	107	7	25	8		19.076713	72.837857
7	Polyalthia longifolia var. pendula	Mast tree	Asupalav	Annonaceae	54	6	15	1		19.076700	72.837857
8	Cassia siamea	Siamese cassia	Kasod	Fabaceae	120	10	35	7		19.076650	72.837853
9	Polyalthia longifolia var. longifolia	Mast tree	Asupalav	Annonaceae	91	20	35	4		19.076587	72.837858
10	Albizia saman	Rain tree	Gulabi shirish	Fabaceae	190	25	35	14		19.076547	72.837854
11	Dead tree	NA	NA	NA	0	0	0	0		19.076440	72.837987
12	Polyalthia longifolia var. pendula	Mast tree	Asupalav	Annonaceae	60	9	20	3		19.076499	72.837829
13	Polyalthia longifolia var. longifolia	Mast tree	Asupalav	Annonaceae	71	10	20	4		19.076468	72.837832
14	Dead tree	NA	NA	NA	0	0	0	0		19.076416	72.837832
15	Polyalthia longifolia var. pendula	Mast tree	Asupalav	Annonaceae	56	10	25	2		19.076373	72.837839
16	Polyalthia longifolia var. longifolia	Mast tree	Asupalav	Annonaceae	78	10	30	4		19.076309	72.837818
17	Polyalthia longifolia var. longifolia	Mast tree	Asupalav	Annonaceae	148	22	40	4		19.076279	72.837833
18	Pongamia pinnata	Indian beech tree	Karanj	Fabaceae	131	10	35	7	Infection	19.076277	72.837877
19	Mangifera indica	Mango	Amba	Anacardiaceae	31	7	15	3		19.076278	72.837932
20	Polyalthia longifolia var. longifolia	Mast tree	Asupalav	Annonaceae	184	25	30	5		19.076274	72.838062
21	Polyalthia longifolia var. longifolia	Mast tree	Asupalav	Annonaceae	200	22	30	4		19.076269	72.838153
22	Polyalthia longifolia var. pendula	Mast tree	Asupalav	Annonaceae	102	20	30	4		19.076248	72.838445
23	Polyalthia longifolia var. pendula	Mast tree	Asupalav	Annonaceae	141	22	35	4		19.076249	72.838493
24	Polyalthia longifolia var. pendula	Mast tree	Asupalav	Annonaceae	130	25	25	4		19.076244	72.838584
25	Mangifera indica	Mango	Amba	Anacardiaceae	81	9	25	4		19.076238	72.838659
26	Moringa oliefera	Drumstick tree	Shevga	Moringaceae	76	8	18	6		19.076232	72.838695
27	Cocos nucifera	Coconut	Naral	Arecaceae	84	10	30	6		19.076236	72.838738
28	Cocos nucifera	Coconut	Naral	Arecaceae	80	10	30	6		19.076221	72.838747
29	Polyalthia longifolia var. pendula	Mast tree	Asupalav	Annonaceae	85	10	35	4		19.076219	72.838760
30	Azadirachta indica	Margosa tree	Kadulimb	Meliaceae	100	8	35	6		19.076224	72.838775
31	Moringa oliefera	Drumstick tree	Shevga	Moringaceae	97	11	30	6		19.076215	72.838791
32	Azadirachta indica	Margosa tree	Kadulimb	Meliaceae	130	10	40	8		19.076206	72.838855

Tree Inventory with GPS Location

Tree Number	Scientific name	English Common name	Marathi Local name	Family	Girth	Height	Age	Canopy	Remarks	Latitude	Longitude
33	Moringa oliefera	Drumstick tree	Shevga	Moringaceae	97	8	3	5		19.076210	72.838920
34	Artocarpus heretophyllus	Jackfruit	Phanas	Moraceae	101	22	40	7		19.076243	72.838917
35	Mangifera indica	Mango	Amba	Anacardiaceae	180	25	55	12		19.076284	72.838937
36	Phyllanthus acidus	Star goose berry	Rai avala	phyllanthaceae	41	6	12	6		19.076515	72.838886
37	Mangifera indica	Mango	Amba	Anacardiaceae	23	0	12	3		19.076525	72.838870
38	Mangifera indica	Mango	Amba	Anacardiaceae	96	10	35	8		19.076538	72.838800
39	Terminalia catappa	Indian almond		combretaceae	132	25	40	9		19.076532	72.838730
40	Mangifera indica	Mango	Amba	Anacardiaceae	96	10	35	18		19.076535	72.838667
41	Psidium guajava	Guava	Peru	Myrtaceae	54	6	15	5		19.076758	72.838641
42	Manilkara sapota	Sapodilla	Chickoo	Sapotaceae	43	12	25	8		19.076748	72.838696
43	Syzygium jambos	Syzygium jambos		Myrtaceae	0	8	25	6		19.076732	72.838765
44	Mangifera indica	Mango	Amba	Anacardiaceae	215	25	45	12		19.076659	72.838959
45	Averrhoa bilimbi-ता	Cucumber tree	Bilambi	Oxallidaceae	0	8	15	4		19.076596	72.838627
46	Citrus lemon	Lemon	Limbu	Rutaceae	20	3	10	3	Infection	19.076591	72.838650
47	Mangifera indica	Mango	Amba	Anacardiaceae	41	7	15	5		19.076578	72.838632
48	Cocos nucifera	Coconut	Naral	Arecaceae	101	10	30	6		19.076584	72.838712
49	Phyllanthus acidus	Star goose berry	Rai avala	phyllanthaceae	56	7	15	5		19.076572	72.838899
50	Artocarpus altis	Breadfruit tree	Nirphanas	Moraceae	87	10	35	5		19.076637	72.838960
51	Cocos nucifera	Coconut	Naral	Arecaceae	87	10	35	5		19.076582	72.838969
52	Manilkara sapota	Sapodilla	Chickoo	Sapotaceae	115	7	35	8		19.076639	72.839011
53	Cocos nucifera	Coconut	Naral	Arecaceae	76	15	30	4		19.076594	72.839072
54	Mangifera indica	Mango	Amba	Anacardiaceae	79	12	25	6		19.076591	72.839124
55	Mangifera indica	Mango	Amba	Anacardiaceae	122	18	35	8		19.076587	72.839137
56	Artocarpus heretophyllus	Jackfruit	Phanas	Moraceae	77	15	30	8		19.076584	72.839179
57	Phyllanthus acidus	Star goose berry	Rai avala	phyllanthaceae	39	8	15	3		19.076582	72.839207
58	Cocos nucifera	Coconut	Naral	Arecaceae	81	8	25	5		19.076569	72.839262
59	Averrhoa carambola	Star fruit	Karmal	Oxallidaceae	63	7	18	6		19.076761	72.839294
60	Moringa oliefera	Drumstick tree	Shevga	Moringaceae	73	15	15	4		19.076789	72.839326
61	Psidium guajava	Guava	Peru	Myrtaceae	21	3	8	3		19.076802	72.839357
62	Psidium guajava	Guava	Peru	Myrtaceae	19	3	8	3		19.076802	72.839358
63	Azadirachta indica	Margosa tree	Kadulimb	Meliaceae	60	4	20	3		19.076840	72.839378

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Tree Number	Scientific name	English Common name	Marathi Local name	Family	Girth	Height	Age	Canopy	Remarks	Latitude	Longitude
64	Cocos nucifera	Coconut	Naral	Arecaceae	80	6	20	6		19.076839	72.839329
65	Polyalthia longifolia var. pendula	Mast tree	Asupalav	Annonaceae	43	8	18	2		19.076852	72.839362
66	Cocos nucifera	Coconut	Naral	Arecaceae	88	8	25	6		19.076881	72.839296
67	Delonix regia	Royal Poinciana	Gulmohur	Fabaceae	59	10	20	6		19.076892	72.839266
68	Mangifera indica	Mango	Amba	Anacardiaceae	118	15	35	9		19.076865	72.839260
69	Ficus benghalensis	Banyan tree	Vad	Moraceae	57	8	25	6		19.076891	72.839246
70	Cocos nucifera	Coconut	Naral	Arecaceae	76	10	20	3		19.076891	72.839223
71	Cocos nucifera	Coconut	Naral	Arecaceae	106	15	30	3		19.076908	72.839136
72	Cocos nucifera	Coconut	Naral	Arecaceae	106	15	30	3		19.076928	72.839087
73	Cocos nucifera	Coconut	Naral	Arecaceae	106	15	30	3		19.076944	72.839023
74	Unidentified	NA	NA	NA	30	6	12	4		19.076954	72.838966
75	Mangifera indica	Mango	Amba	Anacardiaceae	33	5	12	3		19.077003	72.838830
76	Mangifera indica	Mango	Amba	Anacardiaceae	50	8	18	4		19.077010	72.838805
77	Artocarpus heretophyllus	Jackfruit	Phanas	Moraceae	85	8	15	5		19.077015	72.838786
78	Mangifera indica	Mango	Amba	Anacardiaceae	62	7	18	7		19.077018	72.838761
79	Araucaria columnaris	Christmas tree	NA	Araucariaceae	29	3	15	2		19.076911	72.838710
80	Araucaria columnaris	Christmas tree	NA	Araucariaceae	13	2	10	1		19.076911	72.838758
81	Platycladus orientalis	Oriental thuja	Morphankhi	Cupressaceae	22	3	15	2		19.076853	72.838823
82	Cupressus sempervirens	Mediterranean cyp	NA	Cupressaceae	26	3	15	2		19.076790	72.838816
83	Spathodea campanulata	Fountain tree	Pichkari	Bignoniaceae	250	22	45	8		19.076887	72.838563
84	Syzygium jambolana	Java plum	Jambhul	Myrtaceae	72	12	25	4		19.076995	72.838549
85	Cocos nucifera	Coconut	Naral	Arecaceae	92	15	30	4		19.076984	72.838540
86	Cocos nucifera	Coconut	Naral	Arecaceae	90	15	35	4		19.076996	72.838485
87	Azadirachta indica	Margosa tree	Kadulimb	Meliaceae	77	8	18	4		19.076992	72.838476
88	Mangifera indica	Mango	Amba	Anacardiaceae	73	8	18	4		19.076990	72.838481
89	Artocarpus heretophyllus	Jackfruit	Phanas	Moraceae	102	7	35	8		19.076973	72.838399
90	Cocos nucifera	Coconut	Naral	Arecaceae	82	18	35	3		19.076970	72.838370
91	Cocos nucifera	Coconut	Naral	Arecaceae	59	12	25	3		19.076964	72.838344
92	Tamarindus indicus	Tamarind	Chinch	Fabaceae	11	3	8	2		19.076968	72.838265
93	Bauhinia acuminata	Dwarf White orchid	NA	Fabaceae	11	0	8	2		19.076975	72.838195
94	Bauhinia acuminata	Dwarf White orchid	NA	Fabaceae	11	0	8	2		19.076982	72.838130



Legend
* - Tree

