

HERITAGE
TREE CENSUS OF
Malegaon
Nagarpanchayat Malegaon Bk.

Report prepared for
Nagarpanchayat Malegaon Bk.



Prepared by
Agro Diamond, Baramati, Pune
Baramati – 413102

ACKNOWLEDGEMENTS

We sincerely thank Smita Kale Madam, Honorable Nagarpanchayat Chief Officer of Nagarpanchayat Malegaon Bk. For giving us the opportunity of conducting Tree Census of the Nagarpanchayat. We are grateful to Honorable Chairman and Members of Tree Authority of Nagarpanchayat Malegaon Bk. For necessary support and approvals for undertaking and completing this project.

Our sincere thanks to Mr. Vivek Hake for advising us on the project implementation, plan and monitoring of the technical details. Their timely suggestions helped us to complete the project. We hereby also thank Mr. Suresh Sawant for his continuous support, guidance, and technical inputs.

We hereby thank and appreciate the support and assistance given by the staff of Garden Department during project field-work. We place on record our sincere appreciation for the field and analytical work completed by all botanists, field officers and office assistants.

Thanking you,

Director and Strategist

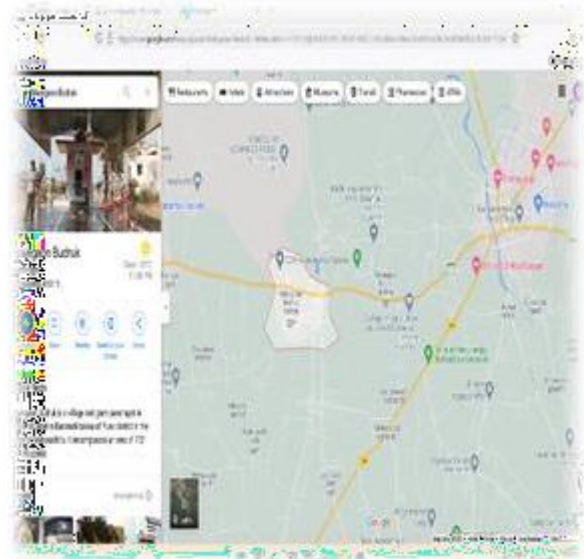
Agro Diamond, Baramati.

About Malegaon Bk.

Background of Malegaon Bk City:

According to Census 2011 information the location code of Malegaon Bk is 556949. NP Malegaon Bk was established 30 March 2021 and located in Baramati Tehsil of Pune district in Maharashtra, India. It is situated 8 km away from sub-district headquarter Baramati and 80 km away from district headquarter Pune.

The total geographical area of NP Malegaon Bk. is 1854.47 hectares. According to Census 2011 Malegaon Bk has a total population of 21,284 peoples. There are about 3,945 houses in NP Malegaon Bk. Baramati is nearest town to Malegaon Bk which is approximately 8km away.



PROJECT TEAM

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	Rohan Hapse
	Ashok Shinde
	Yashraj Kale
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	Tushar Tengale
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	Vishvajeet Gaikwad
	Sachin Shinde
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GIS and Application Expert	B Madane

Malegaon Nagarpanchayat, Malegaon (Bk)

1. EXECUTIVE SUMMARY

Tree Census of **Nagarpanchayat Malegaon Bk.** was carried out during year Jan 2022 in 6 Wards of city, spread over an area of 18.54 sq. km. Geo-coordinates of each tree were recorded using GPS instruments. The extensive field work resulted into count of 49 heritage trees. For each tree, attributes like its Local name, Height, Age, Health condition and GPS coordinates were recorded in field. Summary in tabular form is given below:

SN	Component	Result and Description
1	Number of Tree species	8 species
2	Number of Individual (Trees)	Total 104 heritage Trees were counted
3	Dominant Tree species	Monkey pod tree
4	Young Population	---
5	Healthy Tree Population	104 heritage Trees are healthy
6	Number of Native species	95%
7	Native Population	104 heritage Trees
8	Maximum trees in Ownership	Government & Private

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2. INTRODUCTION

Trees play a vital role in the Urban Ecosystem. They provide numerous benefits both tangible and intangible, to residents, visitors, and neighbouring communities. Trees also play important roles in the quality of life and the sustainability of City's urban environment. Healthy urban trees can improve the local environment and lessen the impact resulting from urbanization and industry. Trees improve air quality by manufacturing oxygen and absorbing carbon dioxide (CO₂), as well as filtering and reducing airborne particulate matter such as smoke and dust. Urban trees reduce energy consumption by shading structures from solar energy and reducing the overall rise in temperature created through urban heat. Trees slow and reduce storm water runoff, helping to protect critical waterways from excess pollutants and particulates. In addition, urban trees provide critical habitat for wildlife and promote a connection to the natural world. In addition to these direct improvements, healthy urban trees increase the overall attractiveness of a community and have been proven to increase the value of local real estate by 7 to 10%, as well as promoting shopping, retail sales, and tourism (Wolf, 2007).

Trees support a more liveable community, fostering psychological health and providing residents with a greater sense of place (Ulrich, 1986; Kaplan, 1989). Community trees, both public and private, soften the urban hardscape by providing a green sanctuary and making City a more enjoyable place to live, work, and play. Malegaon Bk has 104 heritage trees playing a prominent role in the urban ecosystem of city and providing benefit to residents. Maharashtra State Government has enacted an act "The Maharashtra (Urban Areas) Preservation of Trees Act", no. XLIV of 1975 (last amended as modified up to 9th June 2004). It was formed for preservation, protection and plantation of trees in the urban areas. As per the section of 7 (b) of the said Act, it is duty on the Tree Authority of the Municipal Corporation to carry out a census of trees in all lands within the jurisdiction once in every five years. Following this act **Nagarpanchayat Malegaon Bk** has constituted the "Tree Authority" under the Chairmanship of Chief Officer, which has responsibility to implement this act and conduct tree census in city limits. To carry out tree census for the city of Nagarpanchayat Malegaon Bk, awarded this project to Agro Diamond Baramati. We as company have experience to conduct tree census Each tree inventoried on this project is inspected by a qualified Botanist who recorded information including species, size, condition, and current maintenance needs, as well as the geographic location. This work resulted in inventory of approx. 104 heritage Trees within City limits. The City is located in Pune region encompassing an area of 18.54 km² at an elevation of around average 11 meter

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above mean sea level, City enjoys a mild climate with an average rainfall around 91.6 inches.

Objectives:

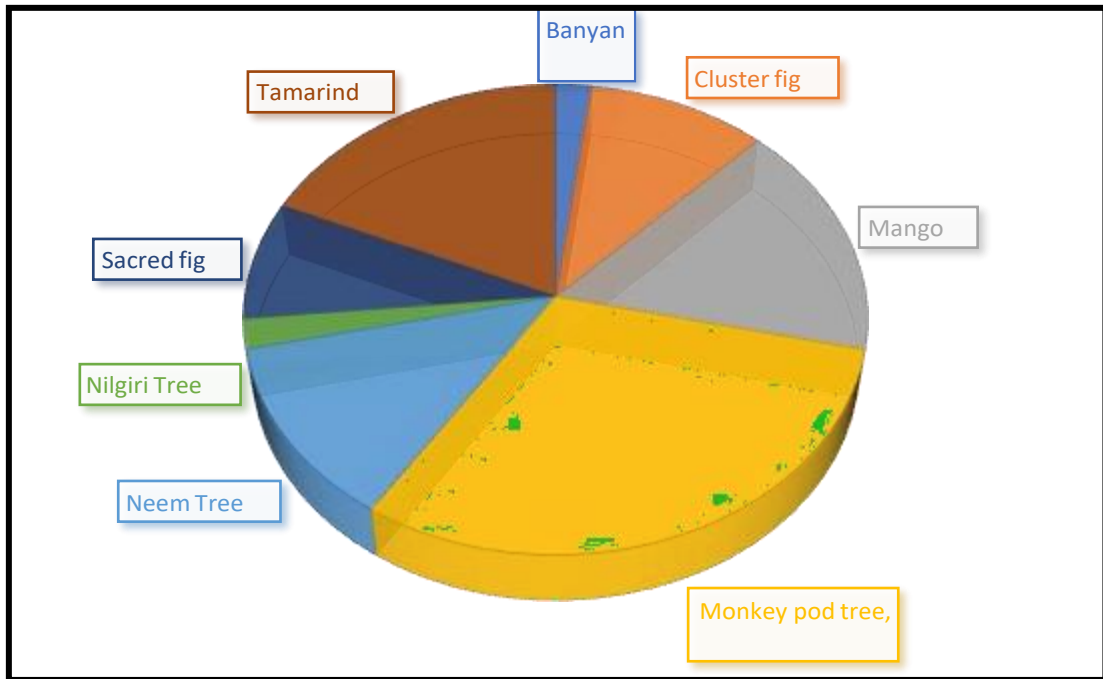
- To find out the number of trees in individual wards as per the guidelines.
- To find out the number of trees in different ownerships.
- To provide the information to Nagarpanchayat Malegaon Bk on medicinal, aesthetic, social & culturally important information.
- To give Botanical name, English name & Local name of each species found in Nagarpanchayat Malegaon Bk area.

3. METHODOLOGY

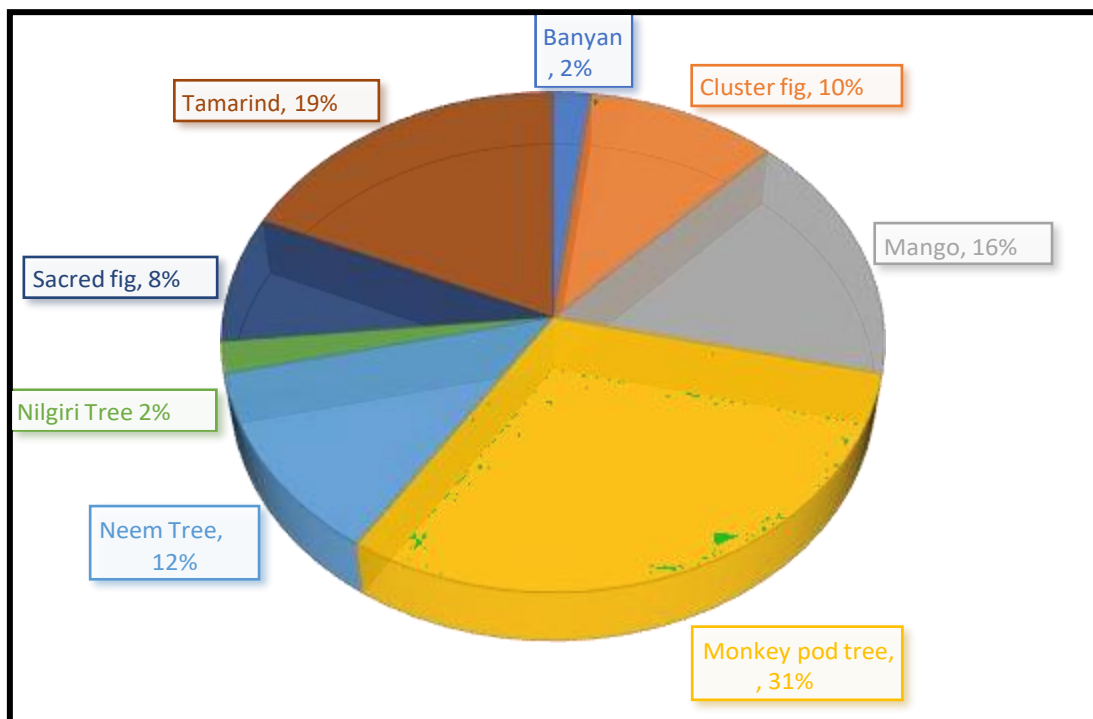
Trees having woody stem and having minimum girth of 10 cm in diameter at the chest level of an average height person and height of about 3 m high were counted. Trees which fit in these criteria were inventories. Tree census was done in year 2021-22. Field work was done by team of qualified botanist. Data was collected from all wards of Nagarpanchayat Malegaon Bk using GPS instruments. Information like Scientific Name, Common name, Girth, Height, Condition, GPS location was recorded in field itself. This data was fed into 'Tree Census', proprietary Application of Agro Diamond Baramati . Which is GPS based user friendly Application. This Application allows users to monitor & analyse tree inventory information with analytical tools and tree knowledge bank through various viewing features. Using filters, we can select data based on tree type, tree name, girth, conditions etc. as per the user requirement. In all teams consisting of botanist, were in the field for counting the trees. During the field work, the team noted down location, housing society's name etc. and counted each individual tree, measured the girth, noted down the approximate height and age of the same. The condition of the tree whether in healthy condition, infected condition, dead or mechanically cut – were mentioned. Trees growing on the roadside, in the government plots and in the private plots were included in the census. Most of the tree identification was done in field. In case of unidentified trees, specimens were collected and identified with help of literature. Literature used for tree identification is Flora of Maharashtra (Almeida 1996, 1998, 2001, 2003 & 2009), Flora of Maharashtra (Lakshminarasimhan, P. 1996), (Singh N.P & S. Karthikeyan, 2000 & 2001) (Correct plant and family names were used with the help of online plant name.

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Number of Heritage tree Data

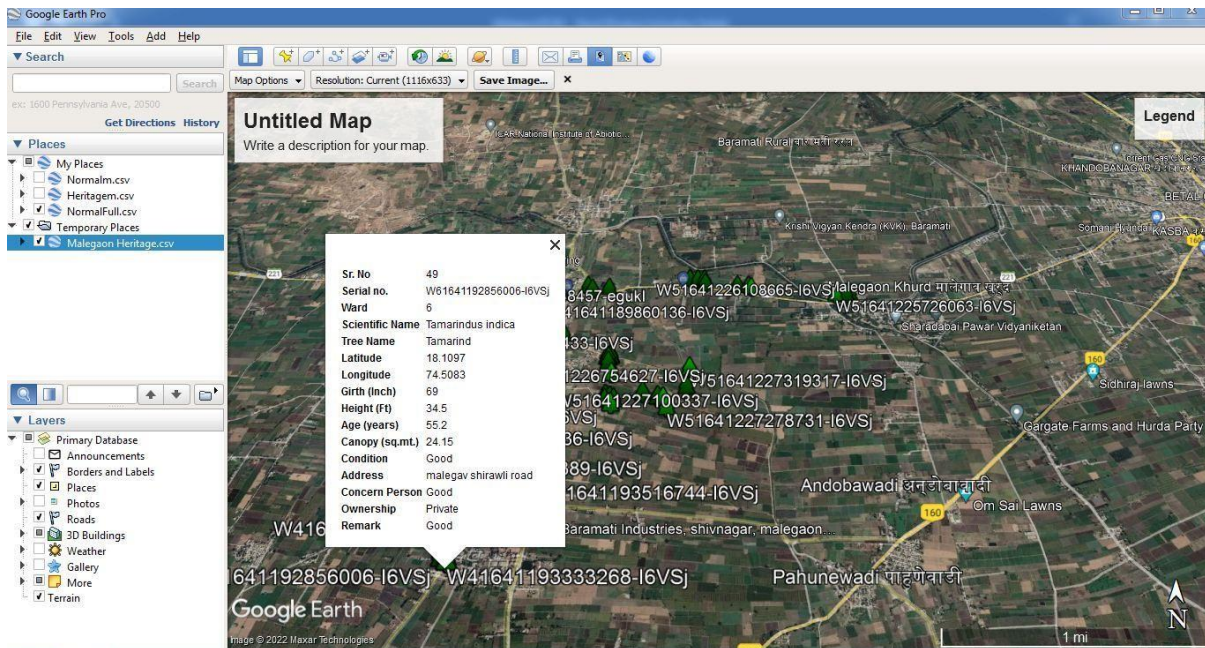
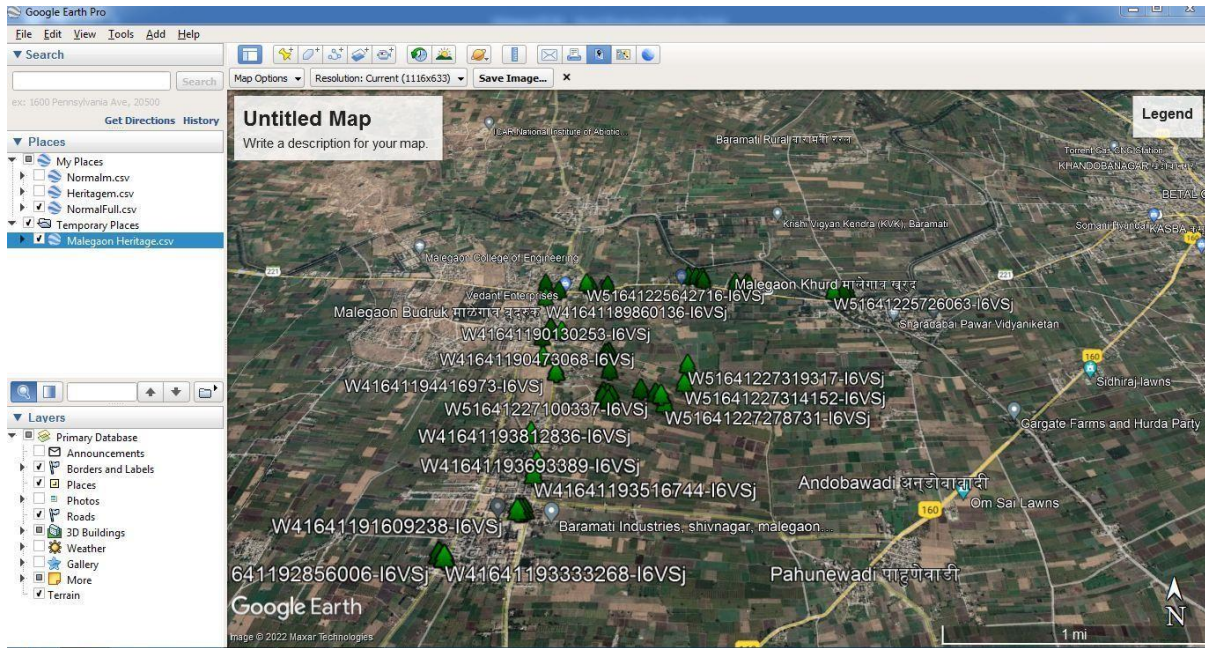


Percentage of Heritage tree Data

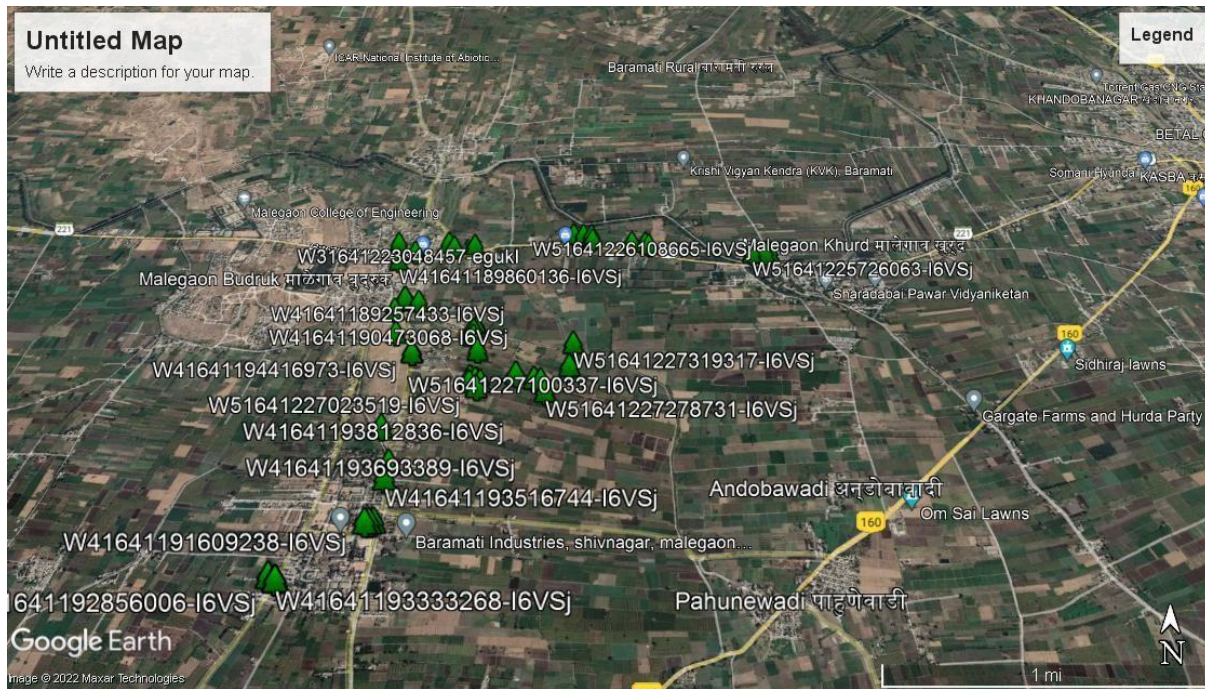
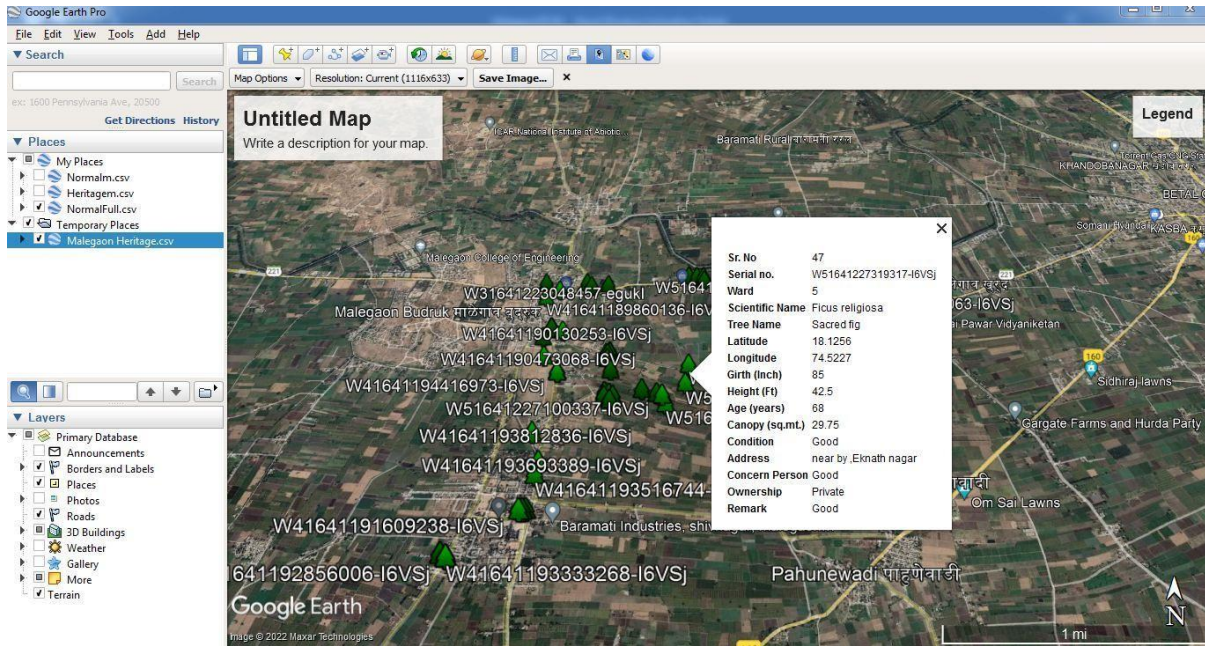


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KML FILE



Malegaon Nagarpanchayat, Malegaon (Bk)



Photograph:

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वृक्ष गणना

हेरीटेज ट्री बुरुंगले वस्ती

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Maharashtra 413115

Malegaon Nagarpanchayat, Malegaon (Bk)



Malegaon Nagarpanchayat, Malegaon (Bk)



Malegaon Nagarpanchayat, Malegaon (Bk)



Malegaon Nagarpanchayat, Malegaon (Bk)



Malegaon Budruk, Maharashtra, India
4GH6+CV3, Malegaon Budruk, Maharashtra
413115, India
Lat 18.128408°
Long 74.511467°
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Malegaon Nagarpanchayat, Malegaon (Bk)



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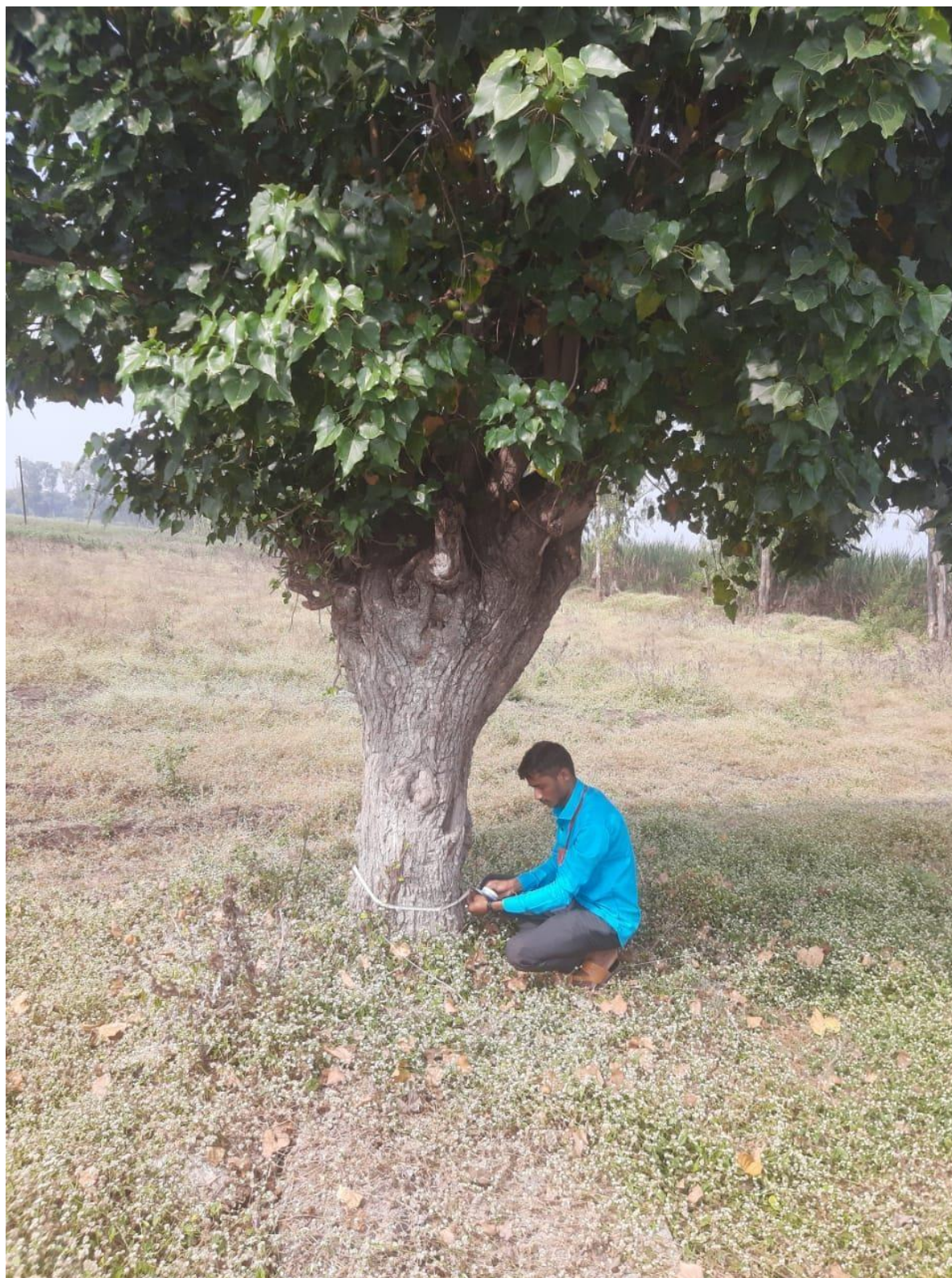
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Maharashtra 413115

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Sr. No	Serial no.	Scientific Name	Tree Name	Latitude	Longitude	Girth (Inch)	Height (Ft)	Age (years)	Canopy (sq.mt.)	Condition	Address	Concern Person	Ownership	Remark
1	W11641188813274-I6VSj	Tamarindus indica	Tamarind	18.12941	74.51191	78	39	62.4	27.3	Good	sathe nagar	Good	Private	Good
2	W21641222737140-egukl	Samanea saman	Monkey pod tree	18.1346	74.51075	67	33.5	53.6	23.45	Good	ward 2	Good	Government	Good
3	W31641223048457-egukl	Azadirachta indica	Neem Tree	18.13373	74.51196	76	38	60.8	26.6	Good	ward 3	Good	Government	Good
4	W41641188968644-I6VSj	Tamarindus indica	Tamarind	18.12941	74.51191	82	41	65.6	28.7	Good	sathe nagar	Good	Private	Good
5	W41641189257433-I6VSj	Tamarindus indica	Tamarind	18.12837	74.51141	67	33.5	53.6	23.45	Good	sathe nagar	Good	Private	Good
6	W41641189860136-I6VSj	Mangifera indica	Mango	18.13289	74.51099	77	38.5	61.6	26.95	Good	karkahna road	Good	Private	Good
7	W41641190130253-I6VSj	Mangifera indica	Mango	18.12908	74.51282	81	40.5	64.8	28.35	Good	karkhna road	Good	Private	Good
8	W41641190473068-I6VSj	Ficus religiosa	Sacred fig	18.12638	74.51179	71	35.5	56.8	24.85	Good	karkhana road	Good	Private	Good
9	W41641191609238-I6VSj	Samanea saman	Monkey pod tree	18.113	74.51219	65	32.5	52	22.75	Good	karkhan	Good	Private	Good
10	W41641191748880-I6VSj	Samanea saman	Monkey pod tree	18.11301	74.51242	75	37.5	60	26.25	Good	karkhana	Good	Private	Good
11	W41641191862808-I6VSj	Samanea saman	Monkey pod tree	18.11304	74.51265	77	38.5	61.6	26.95	Good	karkhna	Good	Private	Good
12	W41641193333268-I6VSj	Samanea saman	Monkey pod tree	18.10973	74.50831	71	35.5	56.8	24.85	Good	karkhan road	Good	Government	Good
13	W41641193516744-I6VSj	Samanea saman	Monkey pod tree	18.1157	74.51279	72	36	57.6	25.2	Good	karkhana road	Good	Government	Good
14	W41641193693389-I6VSj	Samanea saman	Monkey pod tree	18.11672	74.51286	70	35	56	24.5	Good	karkhana road	Good	Government	Good
15	W41641193812836-I6VSj	Samanea saman	Monkey pod tree	18.11919	74.51205	69	34.5	55.2	24.15	Good	karkhan road	Good	Government	Good
16	W41641194190981-I6VSj	Samanea saman	Monkey pod tree	18.12482	74.513	75	37.5	60	26.25	Good	karkhana road	Good	Government	Good
17	W41641194416973-I6VSj	Samanea saman	Monkey pod tree	18.12478	74.51299	73	36.5	58.4	25.55	Good	karkhna road	Good	Government	Good
18	W51641222526293-egukl	Azadirachta indica	Neem Tree	18.135	74.52377	80	40	64	28	Good	Ward 5	Good	Private	Good
19	W51641225642716-I6VSj	Samanea saman	Monkey pod tree	18.13467	74.5141	68	34	54.4	23.8	Good	nira baramati road	Good	Government	Good
20	W51641225652631-I6VSj	Samanea saman	Monkey pod tree	18.13445	74.51587	67	33.5	53.6	23.45	Good	nira baramati road	Good	Government	Good
21	W51641225726063-I6VSj	Samanea saman	Monkey pod tree	18.13358	74.53441	88	44	70.4	30.8	Good	nira baramati road	Good	Government	Good
22	W51641225732409-I6VSj	Samanea saman	Monkey pod tree	18.13362	74.53527	75	37.5	60	26.25	Good	nira baramati road	Good	Government	Good
23	W51641225856573-I6VSj	Tamarindus indica	Tamarind	18.1343	74.5145	78	39	62.4	27.3	Good	nira baramati road	Good	Government	Good
24	W51641225871974-I6VSj	Tamarindus indica	Tamarind	18.13552	74.52249	76	38	60.8	26.6	Good	nira baramati road	Good	Government	Good
25	W51641225875912-I6VSj	Tamarindus indica	Tamarind	18.13544	74.52369	72	36	57.6	25.2	Good	nira baramati road	Good	Government	Good
26	W51641226080644-I6VSj	Azadirachta indica	Neem Tree	18.13547	74.52315	70	35	56	24.5	Good	nira baramati road	Good	Government	Good
27	W51641226090682-I6VSj	Azadirachta indica	Neem Tree	18.13468	74.52732	68	34	54.4	23.8	Good	nira baramati road	Good	Government	Good

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28	W516412 26108665- I6VSj	Azadirachta indica	Neem Tree	18.13449	74.52756	63	31.5	50.4	22.05	Good	nira baramati road	Good	Governme nt	Good
29	W516412 26111736- I6VSj	Azadirachta indica	Neem Tree	18.13475	74.52643	69	34.5	55.2	24.15	Good	nira baramati road	Good	Governme nt	Good
30	W516412 26233596- I6VSj	Eucalyptus globulus	Nilgiri Tree	18.13364	74.53559	68	34	54.4	23.8	Good	nira baramati road	Good	Governme nt	Good
31	W516412 26581667- I6VSj	Mangifera indica	Mango	18.12682	74.51669	68	34	54.4	23.8	Good	gosavi vasti	Good	Private	Good
32	W516412 26586808- I6VSj	Mangifera indica	Mango	18.12666	74.51642	67	33.5	53.6	23.45	Good	gosavi vasti	Good	Private	Good
33	W516412 26596189- I6VSj	Mangifera indica	Mango	18.12661	74.51655	70	35	56	24.5	Good	gosavi vasti	Good	Private	Good
34	W516412 26603021- I6VSj	Mangifera indica	Mango	18.12614	74.51658	72	36	57.6	25.2	Good	gosavi vasti	Good	Private	Good
35	W516412 26669994- I6VSj	Ficus racemosa	Cluster fig	18.12676	74.51672	74	37	59.2	25.9	Good	gosavi vasti	Good	Private	Good
36	W516412 26754627- I6VSj	Tamarind us indica	Tamarind	18.125	74.51693	78	39	62.4	27.3	Good	Tawre vasti	Good	Private	Good
37	W516412 26929498- I6VSj	Ficus benghalen sis	Banyan	18.12287	74.51668	79	39.5	63.2	27.65	Good	Eknath nagar	Good	Private	Good
38	W516412 26975225- I6VSj	Mangifera indica	Mango	18.12271	74.51702	80	40	64	28	Good	Eknath nagar	Good	Private	Good
39	W516412 26976140- I6VSj	Mangifera indica	Mango	18.12252	74.51731	71	35.5	56.8	24.85	Good	Eknath nagar	Good	Private	Good
40	W516412 27023519- I6VSj	Samanea saman	Monkey pod tree	18.12212	74.51711	76	38	60.8	26.6	Good	Eknath nagar	Good	Private	Good
41	W516412 27100337- I6VSj	Ficus religiosa	Sacred fig	18.12265	74.52087	75	37.5	60	26.25	Good	Eknath nagar	Good	Private	Good
42	W516412 27128612- I6VSj	Ficus racemosa	Cluster fig	18.12248	74.51667	74	37	59.2	25.9	Good	Eknath nagar	Good	Private	Good
43	W516412 27270043- I6VSj	Ficus racemosa	Cluster fig	18.12314	74.51937	72	36	57.6	25.2	Good	near by ,Eknath nagar	Good	Private	Good
44	W516412 27272610- I6VSj	Ficus racemosa	Cluster fig	18.12278	74.52047	68	34	54.4	23.8	Good	near by ,Eknath nagar	Good	Private	Good
45	W516412 27278731- I6VSj	Ficus racemosa	Cluster fig	18.12184	74.52116	67	33.5	53.6	23.45	Good	near by ,Eknath nagar	Good	Private	Good
46	W516412 27314152- I6VSj	Ficus religiosa	Sacred fig	18.12378	74.52252	80	40	64	28	Good	near by ,Eknath nagar	Good	Private	Good
47	W516412 27319317- I6VSj	Ficus religiosa	Sacred fig	18.12561	74.52271	85	42.5	68	29.75	Good	near by ,Eknath nagar	Good	Private	Good
48	W616411 92760714- I6VSj	Tamarind us indica	Tamarind	18.10993	74.50792	67	33.5	53.6	23.45	Good	malegav shirawli road	Good	Private	Good
49	W616411 92856006- I6VSj	Tamarind us indica	Tamarind	18.10973	74.50831	69	34.5	55.2	24.15	Good	malegav shirawli road	Good	Private	Good
50	W116411 88813274- I6VSj	Tamarind us indica	Tamarind	18.12941	74.51191	78	39	62.4	27.3	Good	sathe nagar	Good	Private	Good
51	W216412 22737140- egukl	Samanea saman	Monkey pod tree	18.1346	74.51075	67	33.5	53.6	23.45	Good	ward 2	Good	Governme nt	Good
52	W316412 23048457- egukl	Azadirachta indica	Neem Tree	18.13373	74.51196	76	38	60.8	26.6	Good	ward 3	Good	Governme nt	Good
53	W416411 88968644- I6VSj	Tamarind us indica	Tamarind	18.12941	74.51191	82	41	65.6	28.7	Good	sathe nagar	Good	Private	Good
54	W416411 89257433- I6VSj	Tamarind us indica	Tamarind	18.12837	74.51141	67	33.5	53.6	23.45	Good	sathe nagar	Good	Private	Good
55	W416411 89860136- I6VSj	Mangifera indica	Mango	18.13289	74.51099	77	38.5	61.6	26.95	Good	karkahna road	Good	Private	Good
56	W416411 90130253- I6VSj	Mangifera indica	Mango	18.12908	74.51282	81	40.5	64.8	28.35	Good	karkhna road	Good	Private	Good

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57	W416411 90473068- I6VSj	Ficus religiosa	Sacred fig	18.12638	74.51179	71	35.5	56.8	24.85	Good	karkhana road	Good	Private	Good
58	W416411 91609238- I6VSj	Samanea saman	Monkey pod tree	18.113	74.51219	65	32.5	52	22.75	Good	karkhan	Good	Private	Good
59	W416411 91748880- I6VSj	Samanea saman	Monkey pod tree	18.11301	74.51242	75	37.5	60	26.25	Good	karkhana	Good	Private	Good
60	W416411 91862808- I6VSj	Samanea saman	Monkey pod tree	18.11304	74.51265	77	38.5	61.6	26.95	Good	karkhna	Good	Private	Good
61	W416411 93333268- I6VSj	Samanea saman	Monkey pod tree	18.10973	74.50831	71	35.5	56.8	24.85	Good	karkhan road	Good	Governme nt	Good
62	W416411 93516744- I6VSj	Samanea saman	Monkey pod tree	18.1157	74.51279	72	36	57.6	25.2	Good	karkhana road	Good	Governme nt	Good
63	W416411 93693389- I6VSj	Samanea saman	Monkey pod tree	18.11672	74.51286	70	35	56	24.5	Good	karkhana road	Good	Governme nt	Good
64	W416411 93812836- I6VSj	Samanea saman	Monkey pod tree	18.11919	74.51205	69	34.5	55.2	24.15	Good	karkhan road	Good	Governme nt	Good
65	W416411 94190981- I6VSj	Samanea saman	Monkey pod tree	18.12482	74.513	75	37.5	60	26.25	Good	karkhana road	Good	Governme nt	Good
66	W416411 94416973- I6VSj	Samanea saman	Monkey pod tree	18.12478	74.51299	73	36.5	58.4	25.55	Good	karkhna road	Good	Governme nt	Good
67	W516412 22526293- egukl	Azadirachta indica	Neem Tree	18.135	74.52377	80	40	64	28	Good	Ward 5	Good	Private	Good
68	W516412 25642716- I6VSj	Samanea saman	Monkey pod tree	18.13467	74.5141	68	34	54.4	23.8	Good	nira baramati road	Good	Governme nt	Good
69	W516412 25652631- I6VSj	Samanea saman	Monkey pod tree	18.13445	74.51587	67	33.5	53.6	23.45	Good	nira baramati road	Good	Governme nt	Good
70	W516412 25726063- I6VSj	Samanea saman	Monkey pod tree	18.13358	74.53441	88	44	70.4	30.8	Good	nira baramati road	Good	Governme nt	Good
71	W516412 25732409- I6VSj	Samanea saman	Monkey pod tree	18.13362	74.53527	75	37.5	60	26.25	Good	nira baramati road	Good	Governme nt	Good
72	W516412 25856573- I6VSj	Tamarindus indica	Tamarind	18.1343	74.5145	78	39	62.4	27.3	Good	nira baramati road	Good	Governme nt	Good
73	W516412 25871974- I6VSj	Tamarindus indica	Tamarind	18.13552	74.52249	76	38	60.8	26.6	Good	nira baramati road	Good	Governme nt	Good
74	W516412 25875912- I6VSj	Tamarindus indica	Tamarind	18.13544	74.52369	72	36	57.6	25.2	Good	nira baramati road	Good	Governme nt	Good
75	W516412 26080644- I6VSj	Azadirachta indica	Neem Tree	18.13547	74.52315	70	35	56	24.5	Good	nira baramati road	Good	Governme nt	Good
76	W516412 26090682- I6VSj	Azadirachta indica	Neem Tree	18.13468	74.52732	68	34	54.4	23.8	Good	nira baramati road	Good	Governme nt	Good
77	W116411 88813274- I6VSj	Tamarindus indica	Tamarind	18.12941	74.51191	78	39	62.4	27.3	Good	sathe nagar	Good	Private	Good
78	W216412 22737140- egukl	Samanea saman	Monkey pod tree	18.1346	74.51075	67	33.5	53.6	23.45	Good	ward 2	Good	Governme nt	Good
79	W316412 23048457- egukl	Azadirachta indica	Neem Tree	18.13373	74.51196	76	38	60.8	26.6	Good	ward 3	Good	Governme nt	Good
80	W416411 88968644- I6VSj	Tamarindus indica	Tamarind	18.12941	74.51191	82	41	65.6	28.7	Good	sathe nagar	Good	Private	Good
81	W416411 89257433- I6VSj	Tamarindus indica	Tamarind	18.12837	74.51141	67	33.5	53.6	23.45	Good	sathe nagar	Good	Private	Good
82	W416411 89860136- I6VSj	Mangifera indica	Mango	18.13289	74.51099	77	38.5	61.6	26.95	Good	karkahna road	Good	Private	Good
83	W416411 90130253- I6VSj	Mangifera indica	Mango	18.12908	74.51282	81	40.5	64.8	28.35	Good	karkhna road	Good	Private	Good
84	W416411 90473068- I6VSj	Ficus religiosa	Sacred fig	18.12638	74.51179	71	35.5	56.8	24.85	Good	karkhana road	Good	Private	Good
85	W416411 91609238- I6VSj	Samanea saman	Monkey pod tree	18.113	74.51219	65	32.5	52	22.75	Good	karkhan	Good	Private	Good

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86	W416411 91748880- I6VSj	Samanea saman	Monkey pod tree	18.11301	74.51242	75	37.5	60	26.25	Good	karkhana	Good	Private	Good
87	W416411 91862808- I6VSj	Samanea saman	Monkey pod tree	18.11304	74.51265	77	38.5	61.6	26.95	Good	karkhna	Good	Private	Good
88	W416411 93333268- I6VSj	Samanea saman	Monkey pod tree	18.10973	74.50831	71	35.5	56.8	24.85	Good	karkhan road	Good	Governme nt	Good
89	W416411 93516744- I6VSj	Samanea saman	Monkey pod tree	18.1157	74.51279	72	36	57.6	25.2	Good	karkhana road	Good	Governme nt	Good
90	W416411 93693389- I6VSj	Samanea saman	Monkey pod tree	18.11672	74.51286	70	35	56	24.5	Good	karkhana road	Good	Governme nt	Good
91	W416411 93812836- I6VSj	Samanea saman	Monkey pod tree	18.11919	74.51205	69	34.5	55.2	24.15	Good	karkhan road	Good	Governme nt	Good
92	W416411 94190981- I6VSj	Samanea saman	Monkey pod tree	18.12482	74.513	75	37.5	60	26.25	Good	karkhana road	Good	Governme nt	Good
93	W416411 94416973- I6VSj	Samanea saman	Monkey pod tree	18.12478	74.51299	73	36.5	58.4	25.55	Good	karkhna road	Good	Governme nt	Good
94	W516412 22526293- egukl	Azadirachta indica	Neem Tree	18.135	74.52377	80	40	64	28	Good	Ward 5	Good	Private	Good
95	W516412 25642716- I6VSj	Samanea saman	Monkey pod tree	18.13467	74.5141	68	34	54.4	23.8	Good	nira baramati road	Good	Governme nt	Good
96	W516412 25652631- I6VSj	Samanea saman	Monkey pod tree	18.13445	74.51587	67	33.5	53.6	23.45	Good	nira baramati road	Good	Governme nt	Good
97	W516412 25726063- I6VSj	Samanea saman	Monkey pod tree	18.13358	74.53441	88	44	70.4	30.8	Good	nira baramati road	Good	Governme nt	Good
98	W516412 25732409- I6VSj	Samanea saman	Monkey pod tree	18.13362	74.53527	75	37.5	60	26.25	Good	nira baramati road	Good	Governme nt	Good
99	W516412 25856573- I6VSj	Tamarind us indica	Tamarind	18.1343	74.5145	78	39	62.4	27.3	Good	nira baramati road	Good	Governme nt	Good
100	W516412 25871974- I6VSj	Tamarind us indica	Tamarind	18.13552	74.52249	76	38	60.8	26.6	Good	nira baramati road	Good	Governme nt	Good
101	W516412 25875912- I6VSj	Tamarind us indica	Tamarind	18.13544	74.52369	72	36	57.6	25.2	Good	nira baramati road	Good	Governme nt	Good
102	W516412 26080644- I6VSj	Azadirachta indica	Neem Tree	18.13547	74.52315	70	35	56	24.5	Good	nira baramati road	Good	Governme nt	Good
103	W516412 26080644- I6VSj	Azadirachta indica	Neem Tree	18.13547	74.52315	70	35	56	24.5	Good	nira baramati road	Good	Governme nt	Good
104	W516412 26090682- I6VSj	Azadirachta indica	Neem Tree	18.13468	74.52732	68	34	54.4	23.8	Good	nira baramati road	Good	Governme nt	Good

RECOMMENDATIONS

Plantation

- Tree count in park and industrial premises is very low. These two areas have good scope of new plantations.
- Prabhags ... and ... have large open space and should be consider for new plantations.
- Invasive tree population is high and hence preference should be given to native flora.
- Species diversity of native flora is good and thus city supports native vegetation.
- Tree species belonging to Fig family like Vad, Pimpal, Umbar, etc which are native trees should give preference for new plantation. This will not only increase green cover but also supports many other life forms like Birds, Arboreal Mammals, insects, etc.
- Plantations, Conservation and maintenance of Endangered and Vulnerable species should be done to enhance city's tree diversity.

Removals:

- Subabhul which is consider as major invasive tree species in India should not be further planted and removal of them is recommended.

Maintenance:

- City has good population of healthy trees, but special attention should be given to diseased and dangerous trees.
- Young population of trees in city is high and thus requires protection from getting cut.
- Regular maintenance and pruning of mature trees will lessen the nuisances created by tree felling.

BIBLIOGRAPHY

Almeida, M.R. (1996). Flora of Maharashtra—Vol. 1. Blatter Herbarium, St. Xavier's College, Mumbai.

Almeida, M.R. (1998). Flora of Maharashtra—Vol. 2. Blatter Herbarium, St. Xavier's College, Mumbai.

Almeida, M.R. (2001). Flora of Maharashtra—Vol. 3 a & b. Blatter Herbarium, St. Xavier's College, Mumbai.

Almeida, M.R. (2003). Flora of Maharashtra—Vol. 4a. Blatter Herbarium, St. Xavier's College, Mumbai.

Almeida, M.R. (2009). Flora of Maharashtra—Vol. 5a & b. Blatter Herbarium, St. Xavier's College, Mumbai. IUCN (2014). IUCN red list categories and criteria, ver. 2.—IUCN Species Survival Commission.

Kaplan, Rachel and Stephen. 1989. The Experience of Nature: A Psychological Perspective. Cambridge: Cambridge University Press.

Lakshmi Narasimhan, P. (1996). Flora of Maharashtra, Monocotyledons—Series 2. Botanical Survey of India, Kolkata, pp. 28, 139.

Singh N.P & S. Karthikeyan (eds.) (2000). Flora of Maharashtra—Vol. I. Series 2. Botanical Survey of India, Kolkata, pp. 771, 826, 976.

Singh N. P & S. Karthikeyan (eds.) (2001). Flora of Maharashtra—Vol. II. Series 2. Botanical Survey of India, Kolkata, pp. 31, 205, 245, 490, 581, 722, 780.

Ulrich, Roger S. 1986. Human Responses to Vegetation and Landscapes. Landscape and Urban Planning, 13, 29-44.

Wolf, K. L. (2007). The Environmental Psychology of Trees. International Council of Shopping Centres Research Review. 14, 3:39-43.

Websites:

<http://www.theplantlist.org/>

<http://www.ipni.org/>

<http://www.tropicos.org/>

<http://www.treesforcities.org/about-us/>

<http://www.iucnredlist.org/>

<http://www.invasivespecies.net/database/welcome/>