



**Heritage Tree
Census
Manchar Nagar
Panchayat
Dist. Pune
(Maharashtra)
Report 2024- 25**



**Prepared by
Prakrutiparv Green Private Limited Pune - 411038**

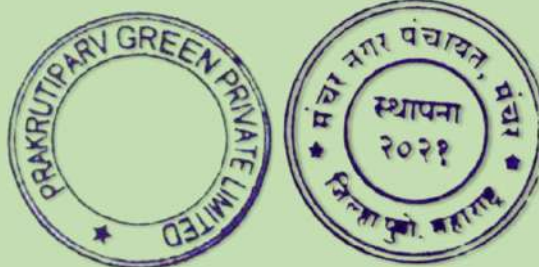
HERITAGE TREE CENSUS REPORT OF MANCHAR NAGAR PANCHAYAT 2024-25

Report prepared by:



Prakrutiparv Green Private Limited
Pune - 411038

"The legacy of our heritage trees lies not just in their past, but in the actions, we take today to ensure their survival."



PROJECT TEAM

Project Co-ordinator	Mr. Dnyanesh S. Rathod
Client Co-ordinator	Mr. Govind Jadhav (CEO)
Field Co-ordinator	Ms. Sayali Dhole
Plant Taxonomist	Mr. Akshay Onkar
Data Compilation	Mr. Aditya Redkar, Ms. Prajakta Dimble, Ms. Sayali Dhole & Mr. Dnyanesh Rathod
Data Analysis	Ms. Sayali Dhole & Mr. Dnyanesh Rathod
GIS Expert	Mr. Abhishek More
Software	Leaf Snap
Field Team Leaders	Mr. Amit Chore & Mr. Ashutosh Dhumal



Table of content

1. Summary
2. Introduction
3. Methodology
4. Observations
5. Result analysis of Heritage Tree census
6. Recommendation



1. SUMMARY

Heritage Tree Census of Manchar Nagar Panchayat was carried out during the month of August-September 2024 in 16 Wards of the city, spread over an area of 12 sq. km. Geo-coordinates of each tree were recorded using GPS instruments. The extensive field work resulted into count of 188 Heritage Trees. Total 33 tree species like Amba, Vad, Kaduneem, Umbar, Vavla, and Chinch were recorded in terms of heritage trees. For each tree, attributes like its Local name, Scientific name, GPS coordinates, Height, Age, Tree type (Native or Non-Native) and Health condition were recorded in field. Summary in tabular form is given below:

Sr. No	Component	Result and Description
1	Total number of Heritage Tress	188
2	Number of Tree species	33
3	Dominant Heritage Tree species	Kaduneem (<i>Azadirachta indica</i>) is found to be dominant Heritage Tree Species throughout the city.
4	Total Native Heritage Tree species	26
5	Total Non-Native Heritage Tree species	7
6	Maximum Heritage Trees in Ward	Ward no. 1 was recorded with highest i.e. 56 total heritage trees.



2. INTRODUCTION

The word “**Heritage**” has always been referred in context to Historical monument, culture or societal practices. But there is another kind of heritage i.e. the living heritage comprising trees in our towns and cities. These heritage trees can be found in a variety of urban spaces, such as along roads, in parks, alongside water bodies, amidst wooded groves, in religious spaces and even in private property. These heritage trees are important, of course, for their biological value, but so also for their cultural value. Heritage trees are historical artefacts, connecting urban residents to the past and providing a sense of belonging in cities that can otherwise be stressful places to live in.

What are heritage Trees?

There are a range of criteria that designate a tree as a heritage tree. These attributes, both material and non-material makes the tree stand out. The material attributes could be age or size of the tree. It could also be the result of the form or shape of the tree. Further, it could be that the tree is a rare species or a tree at risk of being lost. The non-material criteria relate to cultural and aesthetic aspects. It could be that the tree has a historical or cultural association either with a person, an event or a place. It could also be a tree associated with myth or folklore.

Under the proposed amendment by Maharashtra Government, a tree with an estimated age of 50 years or more shall be defined as a heritage tree.

It may belong to specific species, which will be notified from time to time. In addition to the age, tree’s rarity, its botanical, historical, religious, mythological and cultural importance is also considered in defining a heritage tree.

Why was the concept of heritage tree introduced?

A heritage tree will get special protection. Crucially, the tree's age will determine the number of trees to be planted as part of the compensatory plantation, that is anyone cutting a heritage tree will need to plant trees in the same numbers as the cut tree's age. According to the current Compensatory Plantation in the state, one sapling has to be planted for each tree that is cut.

In Mumbai, as per the Tree Authority set up in 1976, to help in regulating the felling of trees and providing for the planting of an adequate number of new trees through the Garden Department, the compensation ratios are 1:3. As per the amendment, the number of trees planted will be equal to the age of the heritage tree that is cut. The organization planting the compensation trees will also have to ensure the survival of the plantation for seven years and geo-tag the trees. Such plantations can be carried out either in the same plot or a common amenity plot. Through the introduction of a heritage tree, the state environment wants to discourage the cutting of heritage trees.



Why to protect Heritage Trees??

Heritage trees while valuable from an ecological perspective, are also living cultural artefacts that connect the city's past to the present. There is no better way to take civic pride in our cities than through heritage trees that are part of the history of the city itself. Heritage trees are also of value in tourism. Many nature lovers visit heritage trees in cities often taking part in tree walks, while a tourist may inadvertently visit the tree in a park taking away memories of the tree. Not just tourists, but local communities who live alongside heritage trees also attach cultural value to trees, along with aesthetic or ecological values such as shade. Heritage trees can play an important role in creating awareness about the importance of both heritage trees, as well as other trees in an urban landscape. Many of the heritage trees especially the Ficus are keystone species in the environment. The old trees serve as important roosting, nesting sites or as a food source for many species of wildlife. An ancient tree is also an invaluable gene bank of a tree species.



3. METHODOLOGY

The purpose of the project was to create a detailed inventory of Heritage Tree individuals and species known as the “Census”. In total, 15 sq. kms of the project area was surveyed and each tree was counted and was get tagged on a GPS device. The data collection was done from all the 16 wards separately in the Manchhar City. 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 counted. Data was collected from all wards using GPS etrex 30 instruments. Information like Scientific Name, Common name, Diameter, Height, Health condition, GPS location, ownership was recorded in field itself.

This data was fed into Microsoft Excel software. During the field work, the team noted down location, ownership, counted each individual tree, measured the diameter, 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, agricultural boundaries 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 and with the help of plant taxonomist. Data from all the instruments was collected and analysed using MS excel. Technology used GPS device along with the Google earth pro software was used to mark GPS positioning of each tree individuals.



4. OBSERVATION

Table 4.1: Tree Census was done in all 16 wards within the city limits. Count of all Heritage tree of all 16 wards are represented in following tables

Sr. No	Ward No	No. of Heritage Trees
1	Ward 1	56
2	Ward 2	12
3	Ward 3	12
4	Ward 4	5
5	Ward 5	6
6	Ward 6	8
7	Ward 7	1
8	Ward 8	4
9	Ward 9	6
10	Ward 10	21
11	Ward 11	20
12	Ward 12	12
13	Ward 13	3
14	Ward 14	9
15	Ward 15	13
16	Ward 16	0
	Total	188

Table 4.2: Tree Census was done in all 16 wards within the city limits. Count of each tree species of all the 16 wards are represented in following tables:

Sr. No	Species	<i>Scientific name</i>	Count
1	Amba	<i>Mangifera indica</i>	7
2	Bakul	<i>Mimusops Elengi</i>	4
3	Bhendi	<i>Thespesia Populnea</i>	2
4	Bor	<i>Ziziphus mauritiana</i>	2
5	Buch	<i>Millingtonia Hortensis</i>	2
6	Buffalo Thorn	<i>Ziziphus Mucronata</i>	1
7	Chinch	<i>Tamarindus indica</i>	22
8	Devababhul	<i>Vachellia Nilotica Subsp. Tomentosa</i>	1
9	Dhoop	<i>Parishia Insignis</i>	1
10	False Ashoka	<i>Monoon Longifolium</i>	1
11	Gavran babhul	<i>Vachellia nilotica</i>	2
12	Gulmohar	<i>Delonix regia</i>	3
13	Jambhul	<i>Syzygium Cumini</i>	2
14	Jambphal	<i>Syzygium Jambos</i>	4
15	Kaduneem	<i>Azadirachta indica</i>	40
16	Karanj	<i>Pongamia Pinnata</i>	8
17	Katesavar	<i>Bombax Ceiba</i>	1
18	Kavath	<i>Limonia Acidissima</i>	2
19	Mohagani	<i>Swietenia Macrophylla</i>	1

Heritage Tree Census of Manchar Nagar Panchayat 2024-25

20	Naral	<i>Cocos Nucifera</i>	3
21	Pimpal	<i>Ficus religiosa</i>	26
22	Rain Tree	<i>Samanea Saman</i>	4
23	Rumbad	<i>Baccaurea Motleyana</i>	1
24	Seeta Ashok	<i>Saraca Asoca</i>	1
25	Shisam	<i>Dalbergia Sissoo</i>	2
26	Silver Oak	<i>Grevillea Robusta</i>	1
27	Subabhul	<i>Leucaena Leucocephala</i>	3
28	Tarwad	<i>Senna Auriculata</i>	1
29	Umbar	<i>Ficus racemosa</i>	14
30	Vad	<i>Ficus benghalensis</i>	11
31	Vavla	<i>Holoptelea Integrifolia</i>	12
32	Vedi Babhul	<i>Vachellia Nilotica Subsp. Indica</i>	2
33	Vilayati chinch	<i>Pithecellobium Dulce</i>	1
		Total Count	188



Table 4.3: Tree Census was done in all 16 wards within the city limits. Details of each heritage tree of all the 16 wards are represented in following tables:

Sr. No.	Local Name	Scientific Name	Height (Ft.)	Girth (cm)	Age (Years)	Canopy cover (sq. m)	Locality	Tree Condition	Heritage	Ownership	Latitude	Longitude	Ward No.
1	Vad	Ficus Benghalensis	28	324	60	12	Native	Healthy	Yes	Open	19.00612	73.94229	Ward 1
2	Umbar	Ficus Racemosa	27	302	105	12	Native	Healthy	Yes	Open	19.00668	73.94281	Ward 1
3	Chinch	Tamarindus Indica	30	278	70	12	Non-Native	Healthy	Yes	Open	19.00767	73.94221	Ward 1
4	Karanj	Pongamia Pinnata	30	220	70	12	Native	Healthy	Yes	Open	19.00767	73.94221	Ward 1
5	Bhend	Thespesia Populnea	25	161	70	12	Native	Healthy	Yes	Open	19.00767	73.94221	Ward 1
6	Kaduneem	Azadirachta Indica	30	112	70	12	Native	Healthy	Yes	Open	19.00767	73.94221	Ward 1
7	Kaduneem	Azadirachta Indica	30	112	70	12	Native	Healthy	Yes	Open	19.00767	73.94221	Ward 1
8	Kaduneem	Azadirachta Indica	30	112	70	12	Native	Healthy	Yes	Open	19.00767	73.94221	Ward 1
9	Umbar	Ficus Racemosa	18	109	100	9	Native	Chopped	Yes	Private	19.00782	73.92501	Ward 1
10	Kaduneem	Azadirachta Indica	27	168	110	12	Native	Healthy	Yes	Private	19.00802	73.94191	Ward 1
11	Kaduneem	Azadirachta Indica	27	168	110	12	Native	Healthy	Yes	Private	19.00802	73.94191	Ward 1
12	Kaduneem	Azadirachta Indica	27	168	110	12	Native	Healthy	Yes	Private	19.00802	73.94191	Ward 1
13	Kaduneem	Azadirachta Indica	27	168	110	12	Native	Healthy	Yes	Private	19.00802	73.94191	Ward 1
14	Kaduneem	Azadirachta Indica	27	168	110	12	Native	Healthy	Yes	Private	19.00802	73.94191	Ward 1
15	Kaduneem	Azadirachta Indica	27	168	110	12	Native	Healthy	Yes	Private	19.00802	73.94191	Ward 1
16	Kaduneem	Azadirachta Indica	27	168	110	12	Native	Healthy	Yes	Private	19.00802	73.94191	Ward 1

Heritage Tree Census of Manchhar Nagar Panchayat 2024-25

17	Kadu neem	Azadirachta Indica	20	265	55	8	Native	Chopped	Yes	Open	19.00756	73.94165	Ward 1
18	Kadu neem	Azadirachta Indica	20	265	55	8	Native	Chopped	Yes	Open	19.00756	73.94165	Ward 1
19	Bor	Ziziphus Mauritiana	23	265	110	10	Native	Healthy	Yes	Open	19.00727	73.94157	Ward 1
20	Kadu neem	Azadirachta Indica	32	178	55	11	Native	Healthy	Yes	Open	19.00713	73.94149	Ward 1
21	Kadu neem	Azadirachta Indica	32	178	55	11	Native	Healthy	Yes	Open	19.00713	73.94149	Ward 1
22	Kadu neem	Azadirachta Indica	32	178	55	11	Native	Healthy	Yes	Open	19.00713	73.94149	Ward 1
23	Kadu neem	Azadirachta Indica	32	178	55	11	Native	Healthy	Yes	Open	19.00713	73.94149	Ward 1
24	Kadu neem	Azadirachta Indica	25	271	110	12	Native	Healthy	Yes	Open	19.00686	73.94134	Ward 1
25	Bhendhi	Thespesia Populnea	25	138	55	12	Native	Healthy	Yes	Open	19.00695	73.94104	Ward 1
26	Kadu neem	Azadirachta Indica	25	129	55	12	Native	Healthy	Yes	Open	19.00702	73.94089	Ward 1
27	Chinch	Tamarindus Indica	30	185	50	12	Non-Native	Healthy	No	Private	19.00724	73.94072	Ward 1
28	Kadu neem	Azadirachta Indica	30	226	70	12	Native	Healthy	Yes	Private	19.00724	73.94072	Ward 1
29	Kadu neem	Azadirachta Indica	30	200	60	14	Native	Healthy	Yes	Open	19.00661	73.94041	Ward 1
30	Jambhul	Syzygium Cumini	27	117	50	12	Native	Healthy	Yes	Private	19.00674	73.93991	Ward 1
31	Vavla	Holoptelea Integrifolia	45	298	55	14	Native	Healthy	No	Open	19.00709	73.93938	Ward 1
32	Vavla	Holoptelea Integrifolia	45	298	55	14	Native	Healthy	No	Open	19.00709	73.93938	Ward 1
33	Vavla	Holoptelea Integrifolia	45	298	55	14	Native	Healthy	No	Open	19.00709	73.93938	Ward 1
34	Vavla	Holoptelea Integrifolia	57	299	66	14	Native	Healthy	Yes	Open	19.00721	73.93913	Ward 1
35	Vavla	Holoptelea Integrifolia	57	299	66	14	Native	Healthy	Yes	Open	19.00721	73.93913	Ward 1
36	Vavla	Holoptelea Integrifolia	57	299	66	14	Native	Healthy	Yes	Open	19.00721	73.93913	Ward 1

Heritage Tree Census of Manchur Nagar Panchayat 2024-25

37	Vavla	Holoptelea Integrifolia	57	29 9	66	14	Nat ive	Heal thy	Yes	O pe n	19.00721	73.93913	Ward 1
38	Vavla	Holoptelea Integrifolia	57	29 9	66	14	Nat ive	Heal thy	Yes	O pe n	19.00721	73.93913	Ward 1
39	Vavla	Holoptelea Integrifolia	57	29 9	66	14	Nat ive	Heal thy	Yes	O pe n	19.00721	73.93913	Ward 1
40	Vavla	Holoptelea Integrifolia	57	29 9	66	14	Nat ive	Heal thy	Yes	O pe n	19.00721	73.93913	Ward 1
41	Kavat h	Limonia Acidissima	55	29 6	65	13	Nat ive	Heal thy	Yes	O pe n	19.00721	73.93913	Ward 1
42	Bor	Ziziphus Mauritiana	23	13 8	55	9	Nat ive	Heal thy	Yes	O pe n	19.00786	73.93803	Ward 1
43	Umb ar	Ficus Racemosa	32	26 8	65	11	Nat ive	Heal thy	Yes	Pri vat e	19.01027	73.94197	Ward 1
44	Chinc h	Tamarindus Indica	44	32 1	75	12	No n- Nat ive	Heal thy	Yes	O pe n	19.00962	73.94476	Ward 1
45	Umb ar	Ficus Racemosa	32	27 1	85	11	Nat ive	Heal thy	Yes	O pe n	19.00901	73.94409	Ward 1
46	Kavat h	Limonia Acidissima	50	22 5	55	13	Nat ive	Heal thy	Yes	O pe n	19.00944	73.94119	Ward 1
47	Umb ar	Ficus Racemosa	22	13 8	60	9	Nat ive	Heal thy	Yes	O pe n	19.00994	73.94189	Ward 1
48	Umb ar	Ficus Racemosa	18	12 2	12 0	8	Nat ive	Cho ppe d	Yes	O pe n	19.01137	73.93627	Ward 1
49	Chinc h	Tamarindus Indica	41	31 1	65	12	No n- Nat ive	Heal thy	No	O pe n	19.01326	73.94172	Ward 1
50	Chinc h	Tamarindus Indica	41	31 1	65	12	No n- Nat ive	Heal thy	No	O pe n	19.01326	73.94172	Ward 1
51	Chinc h	Tamarindus Indica	41	31 1	65	12	No n- Nat ive	Heal thy	No	O pe n	19.01326	73.94172	Ward 1
52	Kadu neem	Azadirachta Indica	30	34 2	65	12	Nat ive	Heal thy	Yes	O pe n	19.00558	73.94086	Ward 1
53	Kadu neem	Azadirachta Indica	25	31 2	55	12	Nat ive	Heal thy	Yes	O pe n	19.00583	73.94107	Ward 1
54	Pimp al	Ficus Religiosa	37	37 8	55	11	Nat ive	Dise ased	Yes	Pri vat e	19.00586	73.94117	Ward 1
55	Pimp al	Ficus Religiosa	37	31 4	50	14	Nat ive	Heal thy	No	O pe n	19.00575	73.94058	Ward 1

Heritage Tree Census of Manchar Nagar Panchayat 2024-25

56	Pimpal	Ficus Religiosa	48	371	60	13	Native	Heal thy	Yes	O pen	19.00592	73.94059	Ward 1
57	Shisam	Dalbergia Sissoo	55	230	60	20	Native	Heal thy	Yes	Pri vate	19.01625	73.94798	Ward 2
58	Dhoo p	Parishia Insignis	45	120	51	16	Native	Heal thy	Yes	Pri vate	19.01726	73.94853	Ward 2
59	Kadu neem	Azadirachta Indica	50	120	52	16	Native	Heal thy	Yes	Pri vate	19.01726	73.94853	Ward 2
60	Vad	Ficus Benghalensis	55	270	60	35	Native	Heal thy	Yes	In sti tut io nal	19.01199	73.9483	Ward 2
61	Kadu neem	Azadirachta Indica	42	360	60	29	Native	Heal thy	Yes	Pri vate	19.00705	73.94456	Ward 2
62	Chinch	Tamarindus Indica	48	290	120	28	No n-Nat ive	Heal thy	Yes	Pri vate	19.00863	73.94533	Ward 2
63	Aamba	Mangifera Indica	40	310	55	31	Native	Heal thy	Yes	Pri vate	19.00863	73.94533	Ward 2
64	Naral	Cocos Nucifera	43	125	80	12	Native	Heal thy	Yes	Pri vate	19.00863	73.94533	Ward 2
65	Chinch	Tamarindus Indica	32	196	55	18	No n-Nat ive	Heal thy	Yes	Pri vate	19.00975	73.94206	Ward 2
66	Chinch	Tamarindus Indica	35	210	52	19	No n-Nat ive	Heal thy	Yes	Pri vate	19.00975	73.94206	Ward 2
67	Tarwad	Senna Auriculata	55	230	60	20	Native	Heal thy	Yes	Pri vate	19.01309	73.94597	Ward 2
68	Shisam	Dalbergia Sissoo	55	230	60	20	Native	Heal thy	Yes	Pri vate	19.01291	73.9467	Ward 2
69	Chinch	Tamarindus Indica	41	267	52	15	No n-Nat ive	Heal thy	Yes	O pen	19.01163	73.95074	Ward 3
70	Kadu neem	Azadirachta Indica	48	290	120	28	Native	Heal thy	Yes	O pen	19.01119	73.95113	Ward 3
71	Vedi Babhul	Vachellia Nilotica Subsp. Indica	40	310	55	31	Native	Heal thy	Yes	O pen	19.01119	73.95113	Ward 3
72	Vedi Babhul	Vachellia Nilotica Subsp. Indica	43	125	80	15	Native	Heal thy	Yes	O pen	19.01119	73.95113	Ward 3
73	Pimpal	Ficus Religiosa	36	145	51	14	Native	Heal thy	Yes	Pri vate	19.00811	73.94801	Ward 3

Heritage Tree Census of Manchar Nagar Panchayat 2024-25

74	Mohagani	Swietenia Macrophylla	62	270	51	21	No n-Native	Healthy	Yes	Institutional	19.01266	73.95151	Ward 3
75	Gulmohar	Delonix Regia	40	196	65	20	No n-Native	Healthy	Yes	Institutional	19.01257	73.95152	Ward 3
76	Vad	Ficus Benghalensis	53	140	101	24	Native	Healthy	Yes	Institutional	19.01234	73.95125	Ward 3
77	Katesavar	Bombax Ceiba	55	256	56	14	Native	Healthy	Yes	Institutional	19.01238	73.95130	Ward 3
78	Vad	Ficus Benghalensis	55	236	123	26	Native	Healthy	Yes	Institutional	19.01230	73.95124	Ward 3
79	Vad	Ficus Benghalensis	55	236	123	26	Native	Healthy	Yes	Institutional	19.01230	73.95124	Ward 3
80	Subabhul	Leucaena Leucocephala	50	180	54	16	No n-Native	Healthy	Yes	Institutional	19.01145	73.95151	Ward 3
81	Jambphal	Syzygium Jambos	23	62	130	6	Native	Healthy	No	Private	19.01712	73.96213	Ward 4
82	Jambphal	Syzygium Jambos	23	62	130	6	Native	Healthy	No	Private	19.01712	73.96213	Ward 4
83	Jambphal	Syzygium Jambos	23	62	130	6	Native	Healthy	No	Private	19.01712	73.96213	Ward 4
84	Jambphal	Syzygium Jambos	24	62	130	6	Native	Healthy	No	Private	19.01753	73.96243	Ward 4
85	Chinch	Tamarindus Indica	60	316	75	20	No n-Native	Healthy	Yes	Open	19.02198	73.97194	Ward 4
86	Pimpal	Ficus Religiosa	62	210	55	14	Native	Healthy	Yes	Private	19.005651	73.94794	Ward 5

Heritage Tree Census of Manchar Nagar Panchayat 2024-25

87	Pimpal	Ficus Religiosa	39	220	58	15	Native	Healthy	Yes	Private	19.00584	73.94762	Ward 5
88	Rain Tree	Samanea Saman	42	243	53	18	Non-Native	Healthy	Yes	Private	19.00541	73.94723	Ward 5
89	Rain Tree	Samanea Saman	41	276	61	22	Non-Native	Healthy	Yes	Private	19.00521	73.94526	Ward 5
90	Vad	Ficus Benghalensis	42	250	75	18	Native	Chopped	Yes	Private	19.00482	73.94771	Ward 5
91	Pimpal	Ficus Religiosa	34	195	57	18	Native	Healthy	Yes	Private	19.00429	73.94951	Ward 5
92	Dev Babhul	Vachellia Nilotica Subsp. Tomentosa	35	112	51	15	Native	Healthy	Yes	Private	19.00377	73.94974	Ward 6
93	Rain Tree	Samanea Saman	25	35	62	4	Non-Native	Healthy	Yes	Private	19.00365	73.95958	Ward 6
94	Rain Tree	Samanea Saman	25	35	62	4	Non-Native	Healthy	Yes	Private	19.00419	73.94816	Ward 6
95	Pimpal	Ficus Religiosa	42	103	63	12	Native	Healthy	Yes	Private	19.00433	73.94785	Ward 6
96	Aamba	Mangifera indica	35	408	108	11	Native	Diseased	Yes	Private	19.00312	73.95061	Ward 6
97	Naral	Cocos Nucifera	35	408	100	11	Native	Healthy	Yes	Private	19.00331	73.95069	Ward 6
98	Aamba	Mangifera indica	35	408	108	11	Native	Diseased	Yes	Private	19.00312	73.95061	Ward 6
99	Naral	Cocos Nucifera	35	408	100	11	Native	Healthy	Yes	Private	19.00331	73.95069	Ward 6
100	Umbar	Ficus Racemosa	34	186	52	15	Native	Healthy	Yes	Private	19.00470	73.94484	Ward 7
101	Kaduneem	Azadirachta Indica	42	227	80	12	Native	Healthy	Yes	Private	19.00583	73.94319	Ward 8
102	Kaduneem	Azadirachta Indica	45	287	122	12	Native	Healthy	Yes	Private	19.00557	73.94309	Ward 8
103	Pimpal	Ficus Religiosa	50	335	62	20	Native	Healthy	Yes	Private	19.00512	73.94303	Ward 8
104	Kaduneem	Azadirachta Indica	52	189	60	15	Native	Healthy	Yes	Private	19.00512	73.94303	Ward 8
105	Kaduneem	Azadirachta Indica	35	408	108	11	Native	Healthy	Yes	Private	19.00436	73.94315	Ward 9

Heritage Tree Census of Manchar Nagar Panchayat 2024-25

106	Vilayati chinch	Pithecellobium Dulce	33	158	65	11	No n-Native	Healthy	Yes	Private	19.00456	73.94392	Ward 9
107	Gulmohar	Delonix Regia	28	193	65	11	No n-Native	Healthy	Yes	Private	19.00458	73.94374	Ward 9
108	Gulmohar	Delonix Regia	40	206	90	12	No n-Native	Healthy	Yes	Private	19.00493	73.94222	Ward 9
109	Buffalo Thorn	Ziziphus Mucronata	45	200	80	12	No n-Native	Healthy	Yes	Private	19.00435	73.94238	Ward 9
110	Pimpal	Ficus Religiosa	50	325	90	14	Native	Healthy	Yes	Private	19.00425	73.94251	Ward 9
111	Buch	Millingtonia Hortensis	54	222	60	13	Native	Healthy	Yes	Private	19.00278	73.94322	Ward 10
112	Pimpal	Ficus Religiosa	50	250	78	13	Native	Healthy	Yes	Private	19.00278	73.94322	Ward 10
113	Kadu neem	Azadirachta Indica	50	221	85	13	Native	Healthy	Yes	Private	19.00380	73.94428	Ward 10
114	Kadu neem	Azadirachta Indica	35	104	75	11	Native	Healthy	Yes	Private	19.00380	73.94428	Ward 10
115	Karanj	Pongamia Pinnata	42	145	80	12	Native	Healthy	Yes	Private	19.00380	73.94428	Ward 10
116	Bakul	Mimusops Elengi	45	202	115	14	Native	Healthy	Yes	Private	19.00380	73.94428	Ward 10
117	False Ashok	Monoon Longifolium	40	166	60	12	Native	Healthy	Yes	Private	19.00380	73.94428	Ward 10
118	Karanj	Pongamia Pinnata	45	155	60	12	Native	Healthy	Yes	Private	19.00380	73.94428	Ward 10
119	Bakul	Mimusops Elengi	50	240	120	18	Native	Healthy	Yes	Private	19.00374	73.94437	Ward 10
120	Pimpal	Ficus Religiosa	45	250	100	18	Native	Healthy	Yes	Private	19.00374	73.94437	Ward 10
121	Buch	Millingtonia Hortensis	54	222	60	13	Native	Healthy	Yes	Private	19.00382	73.94062	Ward 10
122	Pimpal	Ficus Religiosa	50	250	78	13	Native	Healthy	Yes	Private	19.00382	73.94062	Ward 10
123	Kadu neem	Azadirachta Indica	50	221	85	13	Native	Healthy	Yes	Private	19.00396	73.94119	Ward 10
124	Kadu neem	Azadirachta Indica	35	104	75	11	Native	Healthy	Yes	Private	19.0041	73.94112	Ward 10

Heritage Tree Census of Manchar Nagar Panchayat 2024-25

125	Karanj	Pongamia Pinnata	42	145	80	12	Native	Healthy	Yes	Private	19.0041	73.94112	Ward 10
126	Bakul	Mimusops Elengi	45	202	115	14	Native	Healthy	Yes	Private	19.0038	73.94192	Ward 10
127	Seeta Ashok	Saraca Asoca	40	166	60	12	Native	Healthy	Yes	Private	19.00387	73.94193	Ward 10
128	Karanj	Pongamia Pinnata	45	155	60	12	Native	Healthy	Yes	Private	19.00387	73.94193	Ward 10
129	Bakul	Mimusops Elengi	50	240	120	18	Native	Healthy	Yes	Private	19.00402	73.94184	Ward 10
130	Pimpal	Ficus Religiosa	45	250	100	18	Native	Healthy	Yes	Private	19.00397	73.94191	Ward 10
131	Pimpal	Ficus Religiosa	60	427	127	17	Native	Chopped	Yes	Private	19.00299	73.9416	Ward 10
132	Umbar	Ficus Racemosa	40	318	50	18	Native	Healthy	Yes	Agriculture	18.98461	73.92331	Ward 11
133	Vad	Ficus Benghalensis	43	416	150	24	Native	Healthy	Yes	Open	18.98348	73.91607	Ward 11
134	Umbar	Ficus Racemosa	38	381	80	16	Native	Healthy	No	Open	18.98391	73.91821	Ward 11
135	Vad	Ficus Benghalensis	55	360	75	21	Native	Healthy	Yes	Open	18.99766	73.93746	Ward 11
136	Pimpal	Ficus Religiosa	55	221	55	13	Native	Healthy	Yes	Open	18.99961	73.93888	Ward 11
137	Kaduneem	Azadirachta Indica	22	375	65	20	Native	Healthy	Yes	Open	18.99961	73.93888	Ward 11
138	Chinch	Tamarindus Indica	40	281	60	21	Non-Native	Healthy	Yes	Open	18.99334	73.94293	Ward 11
139	Chinch	Tamarindus Indica	50	231	60	13	Non-Native	Healthy	Yes	Open	19.00022	73.93654	Ward 11
140	Vad	Ficus Benghalensis	35	181	50	11	Native	Healthy	Yes	Agriculture	18.98844	73.92375	Ward 11
141	Chinch	Tamarindus Indica	48	278	70	17	Non-Native	Healthy	Yes	Open	18.98991	73.92409	Ward 11
142	Karanj	Pongamia Pinnata	46	255	65	17	Native	Healthy	Yes	Open	18.98991	73.92409	Ward 11

Heritage Tree Census of Manchar Nagar Panchayat 2024-25

143	Karanj	Pongamia Pinnata	46	255	65	17	Native	Healthy	Yes	Open	18.98991	73.92409	Ward 11
144	Pimpal	Ficus Religiosa	48	271	55	18	Native	Healthy	Yes	Agriculture	18.99134	73.92708	Ward 11
145	Aambaa	Mangifera indica	60	234	55	14	Native	Healthy	Yes	Agriculture	18.99825	73.93474	Ward 11
146	Chinch	Tamarindus Indica	52	218	50	13	Non-Native	Healthy	Yes	Agriculture	19.00133	73.93823	Ward 11
147	Chinch	Tamarindus Indica	37	189	60	14	Non-Native	Healthy	Yes	Open	18.98821	73.92266	Ward 11
148	Aambaa	Mangifera indica	40	178	50	12	Native	Healthy	Yes	Agriculture	18.98961	73.92479	Ward 11
149	Aambaa	Mangifera indica	40	178	50	12	Native	Healthy	Yes	Agriculture	18.98961	73.92479	Ward 11
150	Aambaa	Mangifera indica	40	178	50	12	Native	Healthy	Yes	Agriculture	18.98961	73.92479	Ward 11
151	Pimpal	Ficus Religiosa	55	392	140	20	Native	Healthy	Yes	Open	18.98556	73.92092	Ward 11
152	Pimpal	Ficus Religiosa	50	250	78	13	Native	Healthy	Yes	Private	18.99088	73.94092	Ward 12
153	Pimpal	Ficus Religiosa	50	250	78	13	Native	Healthy	Yes	Private	18.99838	73.94208	Ward 12
154	Subabhul	Leucaena Leucocephala	35	408	108	11	Non-Native	Healthy	Yes	Private	18.99802	73.942	Ward 12
155	Pimpal	Ficus Religiosa	48	386	60	18	Native	Healthy	Yes	Private	19.00108	73.94083	Ward 12
156	Umbar	Ficus Racemosa	45	224	57	12	Native	Healthy	Yes	Private	19.00101	73.94206	Ward 12
157	Jambhul	Syzygium Cumini	38	244	75	11	Native	Healthy	Yes	Private	19.00122	73.94205	Ward 12

Heritage Tree Census of Manchar Nagar Panchayat 2024-25

158	Pimpal	Ficus Religiosa	50	250	78	13	Native	Healthy	Yes	Private	18.99088	73.94092	Ward 12
159	Pimpal	Ficus Religiosa	50	250	78	13	Native	Healthy	Yes	Private	18.99838	73.94208	Ward 12
160	Kaduneem	Azadirachta Indica	35	267	78	15	Native	Healthy	Yes	Private	19.00272	73.94959	Ward 12
161	Kaduneem	Azadirachta Indica	43	245	60	12	Native	Healthy	Yes	Private	19.00093	73.94331	Ward 12
162	Pimpal	Ficus Religiosa	65	520	89	25	Native	Risky	Yes	Private	19.00098	73.94288	Ward 12
163	Subabhul	Leucaena Leucocephala	35	408	108	11	Non-Native	Healthy	Yes	Private	18.99802	73.942	Ward 12
164	Vad	Ficus Benghalensis	45	368	60	20	Native	Healthy	Yes	Open	19.00272	73.94334	Ward 13
165	Pimpal	Ficus Religiosa	55	384	70	26	Native	Healthy	Yes	Open	19.00324	73.94334	Ward 13
166	Kaduneem	Azadirachta Indica	33	194	80	11	Native	Healthy	Yes	Private	19.00348	73.94304	Ward 13
167	Gavran Babhul	Vachellia Nilotica	53	118	55	17	Native	Healthy	Yes	Private	19.00023	73.94499	Ward 14
168	Chinch	Tamarindus Indica	48	290	120	28	Non-Native	Healthy	Yes	Private	19.0019	73.94337	Ward 14
169	Umbar	Ficus Racemosa	50	110	51	14	Native	Healthy	Yes	Private	18.9989	73.94419	Ward 14
170	Rumbad	Baccaurea Motleyana	40	130	64	18	Native	Healthy	Yes	Private	18.9989	73.94419	Ward 14
171	Silver Oak	Grevillea Robusta	58	110	52	14	Non-Native	Healthy	Yes	Private	18.99987	73.94336	Ward 14
172	Chinch	Tamarindus Indica	40	310	55	31	Non-Native	Healthy	Yes	Private	18.99785	73.94325	Ward 14
173	Gavran Babhul	Vachellia Nilotica	32	180	60	22	Native	Healthy	Yes	Private	18.99841	73.94335	Ward 14
174	Karanj	Pongamia Pinnata	37	96	52	14	Native	Healthy	Yes	Private	18.99728	73.9451	Ward 14
175	Chinch	Tamarindus Indica	43	125	80	15	Non-Native	Healthy	Yes	Private	18.99728	73.9451	Ward 14

Heritage Tree Census of Manchar Nagar Panchayat 2024-25

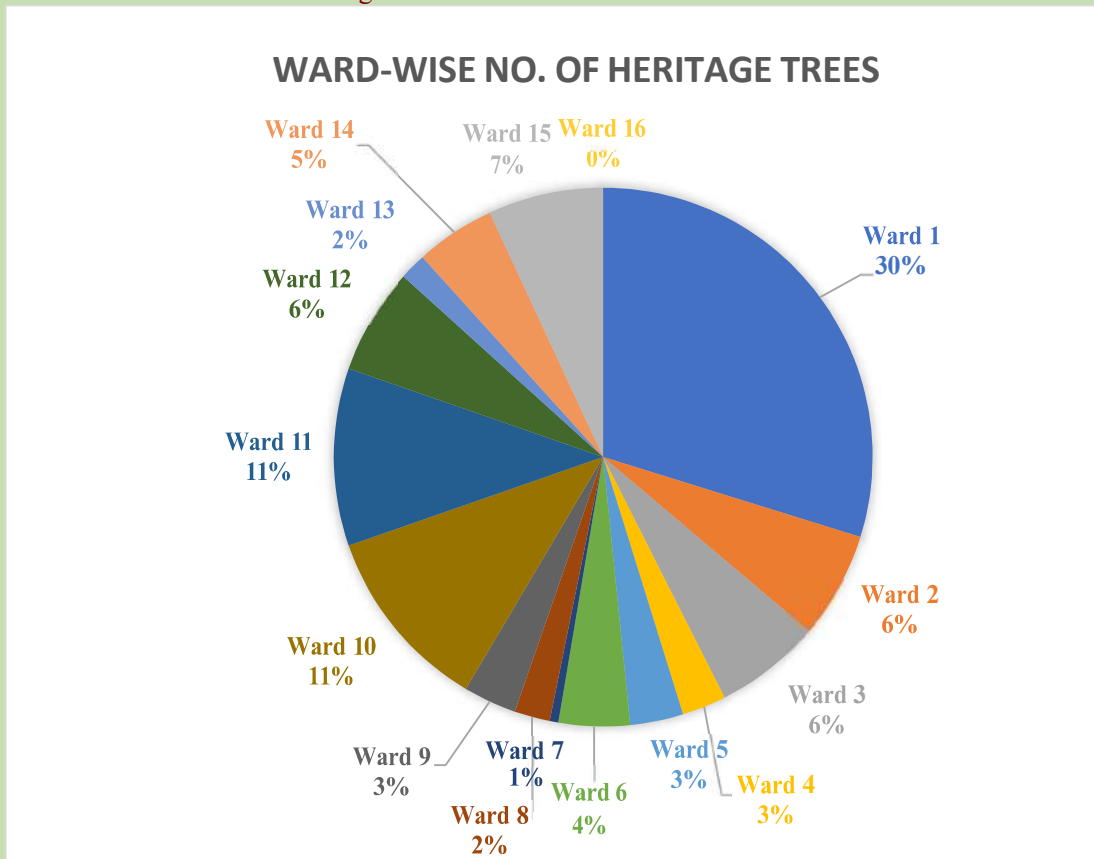
176	Umb ar	Ficus Racemosa	27	27 1	70	18	Nat ive	Heal thy	Yes	Pri vat e	18.98584	73.94619	Ward 15
177	Umb ar	Ficus Racemosa	47	24 5	70	15	Nat ive	Heal thy	Yes	Pri vat e	18.98467	73.94578	Ward 15
178	Umb ar	Ficus Racemosa	32	13 4	55	14	Nat ive	Heal thy	Yes	Pri vat e	18.99303	73.94817	Ward 15
179	Kadu neem	Azadirachta Indica	45	21 8	55	12	Nat ive	Risk y	Yes	O pe n	18.98409	73.94469	Ward 15
180	Kadu neem	Azadirachta Indica	40	23 8	55	12	Nat ive	Risk y	Yes	O pe n	18.98409	73.94469	Ward 15
181	Vad	Ficus Benghalensis	33	24 5	50	11	Nat ive	Cho ppe d	Yes	O pe n	18.99002	73.94271	Ward 15
182	Chinc h	Tamarindus Indica	38	31 2	55	18	No n- Nat ive	Heal thy	Yes	O pe n	18.99547	73.94303	Ward 15
183	Chinc h	Tamarindus Indica	38	31 2	55	18	No n- Nat ive	Heal thy	Yes	O pe n	18.99547	73.94303	Ward 15
184	Chinc h	Tamarindus Indica	40	27 1	55	18	No n- Nat ive	Heal thy	Yes	O pe n	18.99746	73.94351	Ward 15
185	Vavla	Holoptelea Integrifolia	40	21 0	50	14	Nat ive	Heal thy	Yes	Pri vat e	18.99604	73.94331	Ward 15
186	Vavla	Holoptelea Integrifolia	40	21 0	50	14	Nat ive	Heal thy	Yes	Pri vat e	18.99604	73.94331	Ward 15
187	Pimp al	Ficus Religiosa	35	28 9	65	19	Nat ive	Heal thy	Yes	O pe n	18.99403	73.94788	Ward 15
188	Kadu neem	Azadirachta Indica	43	38 1	11 5	18	Nat ive	Heal thy	Yes	O pe n	18.98583	73.94521	Ward 15



5. RESULT ANALYSIS OF HERITAGE TREES

- ✚ Ward no. 1 has the highest number of heritage trees, with 30% coverage. Followed by Ward no. 10 and Ward no. 11.
- ✚ The majority of the heritage trees are native species.
- ✚ A significant count of the heritage trees was found near religious sites and agricultural fields, said they were planted by past generations.

Fig 5.1 – Ward wise amount of Heritage Trees.



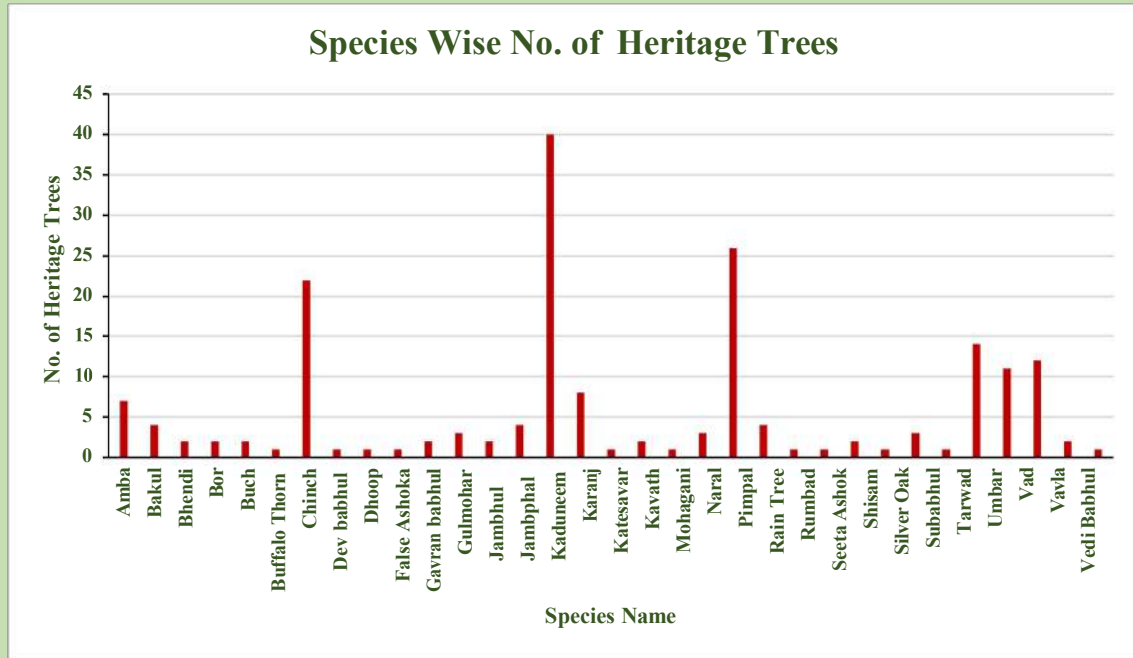


Fig 5.2 - Species wise amount of Heritage Trees.

- ❖ Among all the 33 Heritage tree species, Kaduneem (*Azadirachta indica*) was found to be most dominant species with a total count of 40 trees, followed by Pimpal (*Ficus religiosa*) with a count of 26 and later followed by Chinch (*Tamarindus indica*) with a count of 22 trees.
- ❖ These three dominant species, along with all the other heritage trees, hold significant ecological, cultural, economic, and medicinal value for the community.



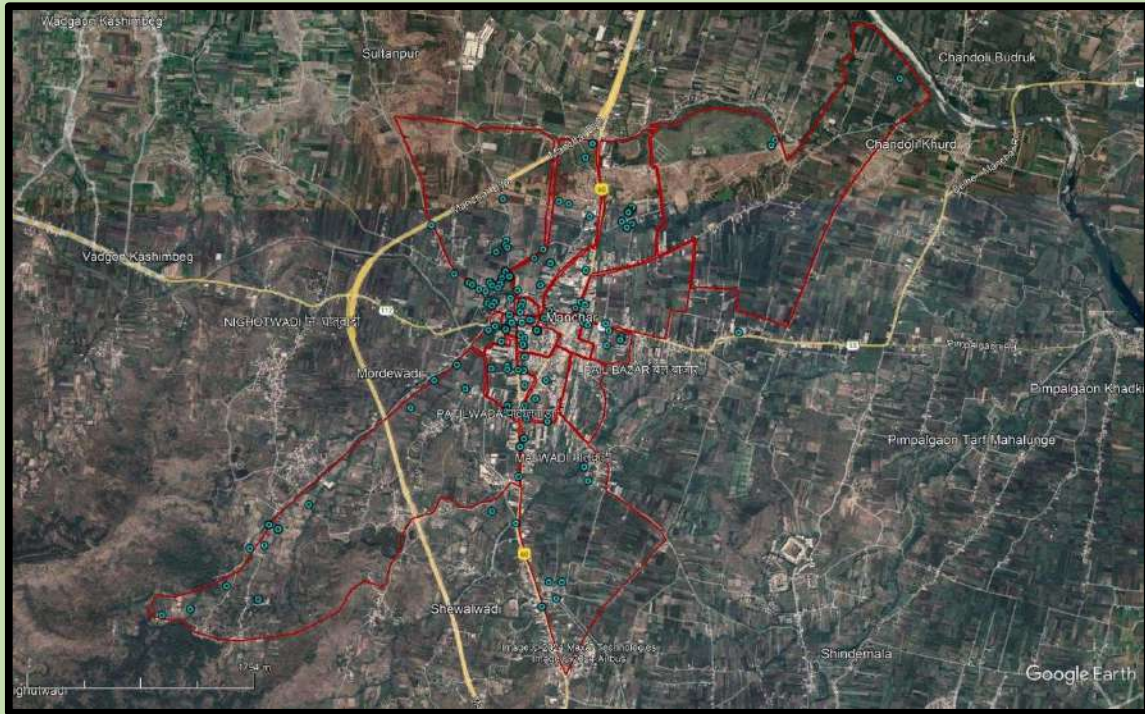


Fig 5.3 – Location wise heritage Trees marked in blue icon.

- a) Most of the heritage trees are situated in centric part of the city, mainly represented by religious places like Mandir and Dargah.
- b) Few trees located on outer parts are the one seen in agricultural fields or nearby villages.
- c) Few wards are large in size but were found to have no or less heritage trees as compared to their size. As asked to locals, many old trees were been cleared due to agricultural expansion or some other developmental projects.
- d) Presence of heritage trees near Mandir and Dargah are symbol of people's faith and connection with their nature since ages. Maintaining this faith will surely lead to conservation of existing trees. And many new trees will get added very year.

6. RECOMMENDATION

1. City has good population of healthy trees, but special attention should be given to heritage trees as they are old and are prone to diseases.
2. More focus needs to be given on Indigenous species, especially plantations done in and near Government owned property like Government buildings, road side space, river side space, play grounds and gardens.
3. Removal and clearing non-indigenous patches; plantation of indigenous fruiting and flowering species to support local birds and other faunal species.
4. Ensuring high success rate by proper protection of newly planted saplings till they grow.
5. Involvement of locals by conducting various programs under “Majhi Vasundhara Abhiyan” to sensitize people regarding Heritage Trees and its protection.
6. Community participation program to create awareness among locals.
7. Involvement of schools and colleges through Tree adoption program.



[Signature]
मुख्याधिकारी
मंचर नगर पंचायत, मंचर



A Few Photos from Heritage Tree Census:

