



MAJHI VASUNDHARA (MY EARTH)
Environment and Climate Change Department
Government of Maharashtra



MAJHI VASUNDHARA (MY) | MY ASPIRAN | MY PLEDGE | MY PARTNER | MY CORPORATES | MY NON PROFIT | MY CURRICULUM

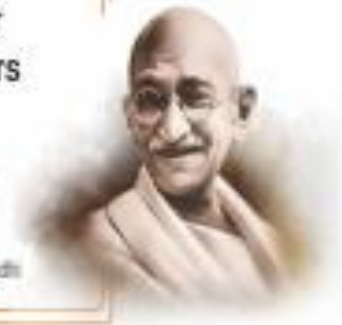
#Epledge



“ The earth, the air, the land and the water
are not an inheritance from our forefathers
but on loan from our children.

So, we have to handover to them at least
as it was handed over to us. ”

- Mahatma Gandhi



Majhi Vasundhara Baramati Campaign



Tree Counting Report **Baramati Municipal Council** **and** **Tuljaram Chaturchand Arts,** **Science and Commerce** **College, Baramati**

NSS, NCC and Other students volunteers

Introduction

India is a developing country, Maharashtra is a one of the leading state in this developing transformation. Considering the available population and their needs, various projects are underway to maintain optimal infrastructure to balance the demand and supply of daily needs, including construction of new roads or railways or widening of existing corridors, while various projects are underway to balance the environment also. As a part of it, the Department of Environment and Climate Change of the Government of Maharashtra is implementing an initiative called 'My Earth'.

The scheme is being implemented in Maharashtra with the aim of enabling the citizens to make conscious efforts for the betterment of the environment by educating the citizens about the effects of climate change and environmental problems and to enable them to make conscious efforts to improve the environment.

As a part of this, with Baramati municipal council Tuljaram Chaturrachand Arts, Science and Commerce College's ,National Service Scheme, National Cadet Corps and other student volunteers of the college carried out tree counting campaign in '19 wards of Baramati Municipal council from 24th February 2020 to 21st March 2022..

Current Status:

According to the World Bank report, and as per government report the forest in India covers, the tree cover of the country is slightly increased. (2.85 percent) in 2017. More over As per report published by Government of India the total forest cover in India as per 2019 assessment In Maharashtra state all tree stands with canopy density over 10% [1]. To validate current status of Trees located in the premises of Baramati Municipal Council, Baramati the Tree counting with Geo tagging campaign is carried out. To execute such campaign very first understand the definition of tree.

“Definition of tree under the maharashtra (urban areas) tree preservation act ,1975 as follows -Trees whose census is to be carried out should have min 10 cm girth and 3m height respectively”

Moreover, those person who are going to count tree must be identify tree's classification and Categories. With this consideration, there is need to make Identification chart of trees.

Resources:

To execute tree counting campaign following resource collect.

1. Prepare an Identification chart of tree with the help of expert of Botany Department.
2. Conduct Physical training program of tree counting and geo tagging with the Environmental Science and Geography Department.
3. Baramati municipal Council arranged Measuring Tapes and other sources like Geo-tagging camera application etc for respective field work of tree census.

Limitation:

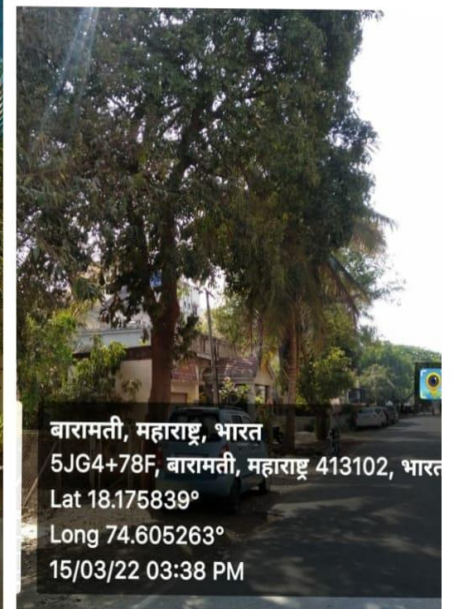
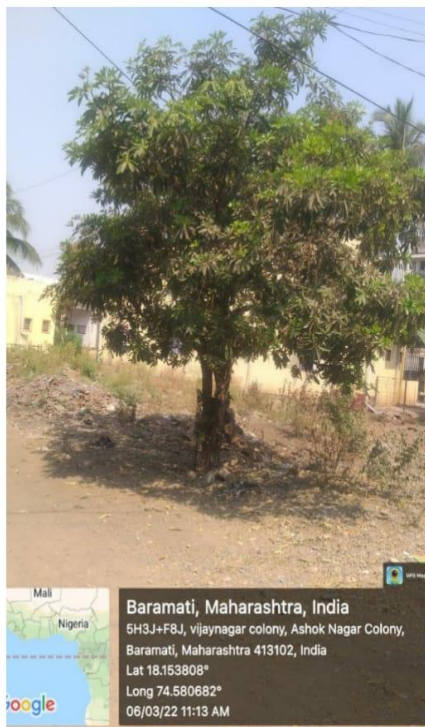
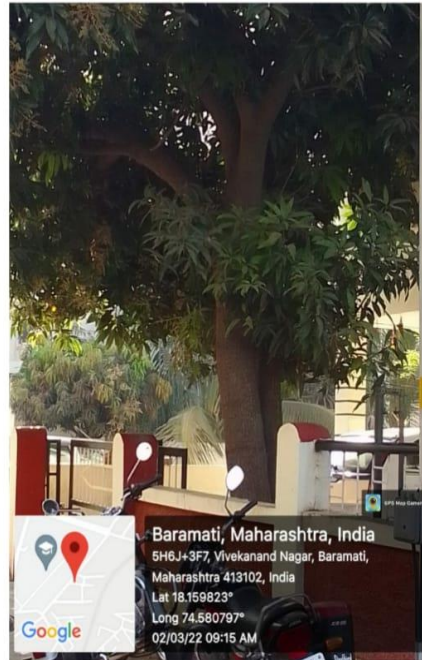
While conducting the campaign we faced following limitations-

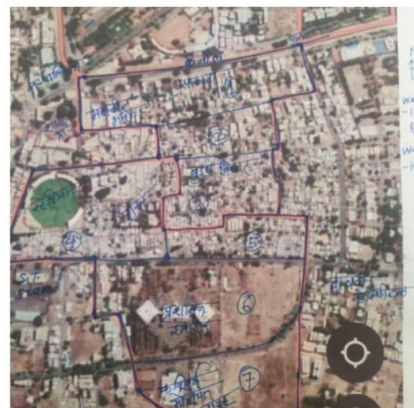
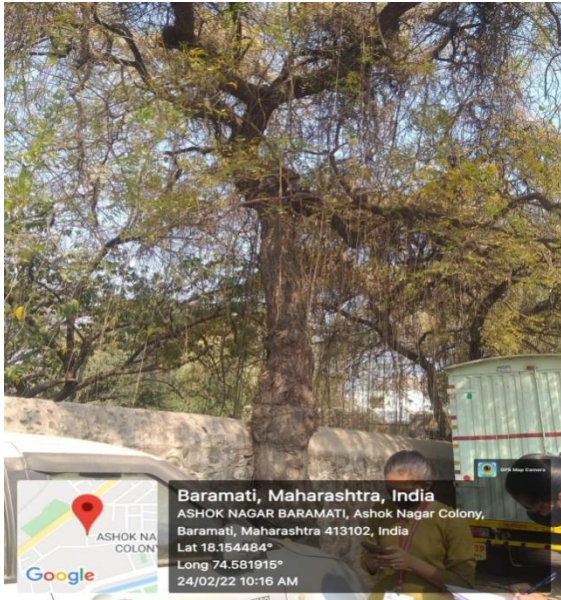
1. To measure the height of tree is a difficult task.
2. To store geo- tagging picture with google drive is a tremendous bulky task.
3. As per the definition of Tree ,only that plant which are planted before 5-10 year and having min 10 cm girth and 3 m height respectively are measured and counted as a Tree. So, here we mention that plant which are planted in last 5 year are considered as plant. So in a report we have considered plants separately.

Method:

Physically (26) groups in which each group have 4 volunteers. so total (104) volunteers worked on field within the limit of 19 wards of baramati municipal council area whose wardwise map and locations are provided by town planning department of BMC.

Process to Implementation





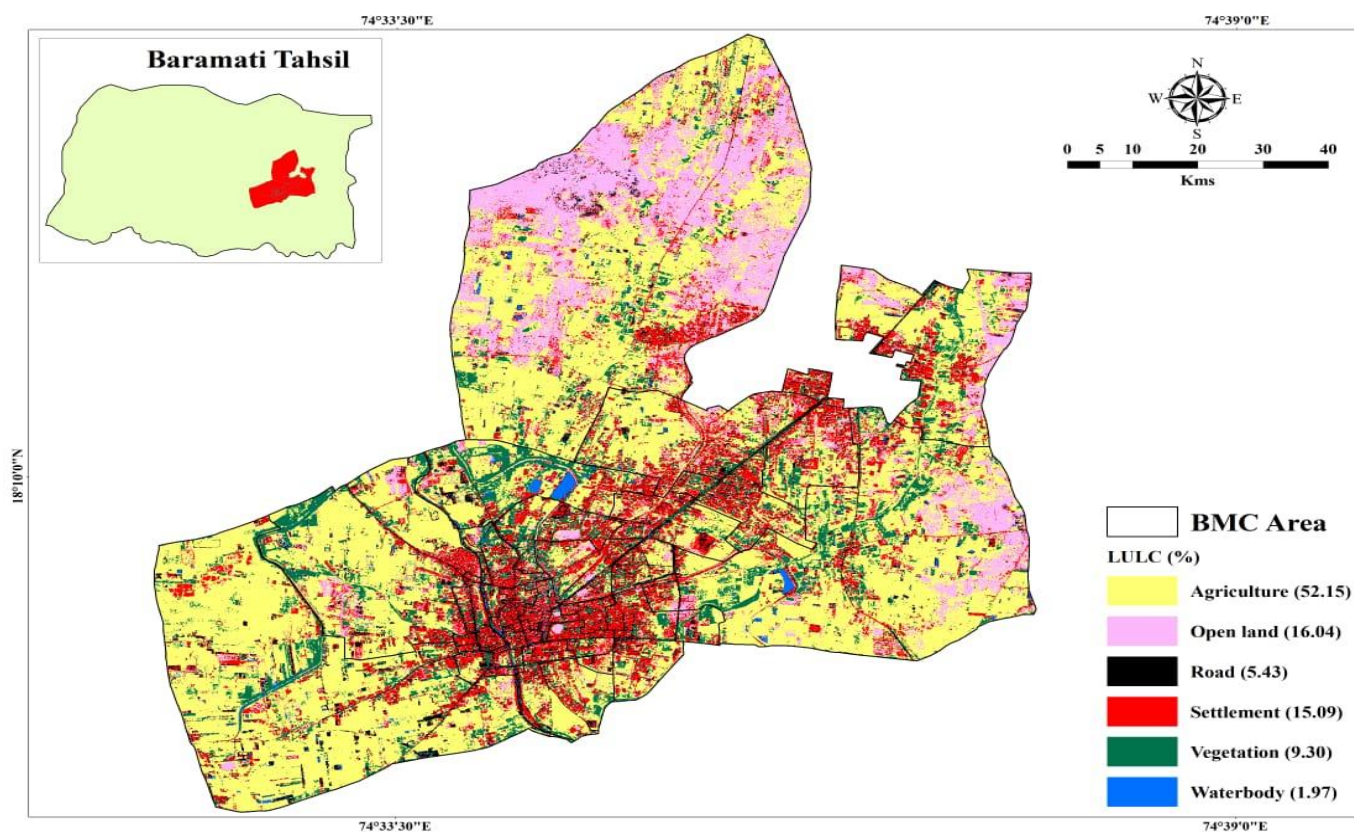
Data collection:

Sr.no.	Ward no	Tree Count	Plant Count	Total	Team Leader Name
1	1	240	733	973	AniketGangawane
					OmkarKhade
2	2	1034	962	1996	ShubhamSapkal
					Sachin Gade
3	3	560	234	794	Saurabh Shende
					Karan Gaikwad
4	4	1620	700	2320	SahilLimbhore
					TusharZede
5	5	530	1263	1793	AniketPawar
					DevendraPawar
6	6	2066	112	2178	Prasad Gawade
					Pravin Kashid
7	7	1156	217	1373	Pravin Bhosale
					PritamGulamkar
8	8	1678	2012	3690	SaifKazi
					Ajay Pomane
9	9	780	316	1096	Aditya More
					AbhijeetPhalake
10	10	1186	874	2060	Ajay Raskar
					Aman Shaikh
11	11	804	57	669	Sushant Bagade
					AvinashAtole
12	12	193	122	315	TejashDobale
					SanketPawar
13	13	1689	1203	2892	Shruti Mane
					Pratiksha L.Raut
14	14	2026	1030	3056	VaibhaiShelake
					WagmodePaneti
15	15	1519	1247	2766	Nisha Hole
					PrajaktaShigade
16	16	319	357	676	Vasima Sheikh
					PrartikshaGargade
17	17	1060	716	1776	Nikita Shinde
					Prasiksha S. Raut
18	18	137	278	415	Sonali Borate
					PrajaktaJawanjal
19	19	1120	368	1488	Madura Gonjari
					KaveriSutar
		19717	12801	32518	

Under Supervision of

Shri. Sachin Khore
(BMC)Dr. Vilas Kardile
(NSS)Prof Vivek Bale
(NCC)Dr.Mahadev Kanade
(Botany)

Data Analysis :



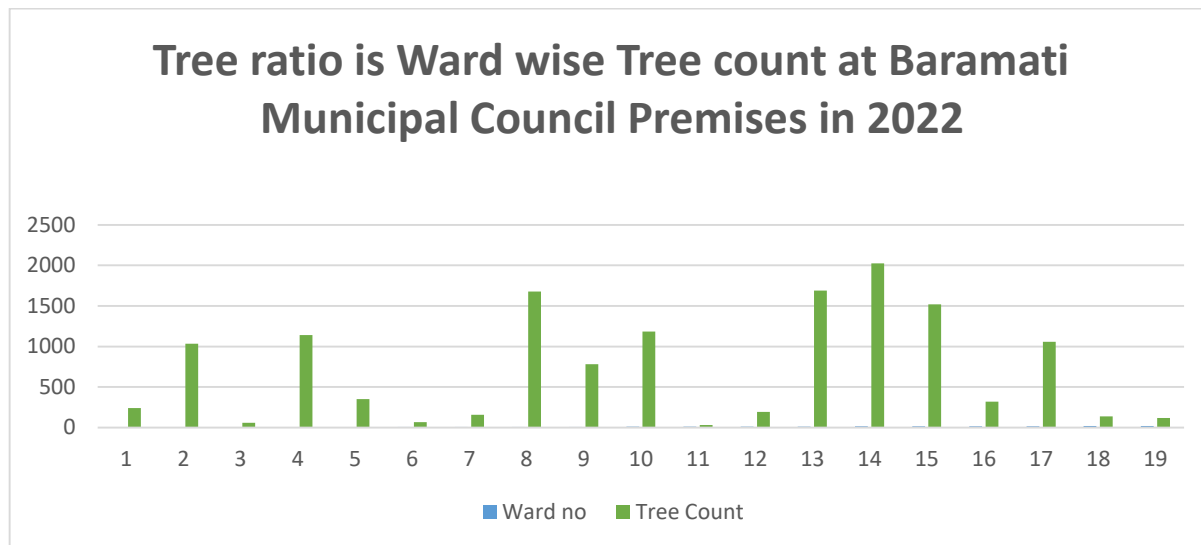
Tree Census of Baramati Municipal Council was carried out during 22 February 2022 to 21st March 2022 in all Wards of city spread over an area of about 55 sq. Km. Geo coordinates of each tree were recorded using GPS camera. The extensive field work resulted in a count of near about 19,717 trees (trees and plants -32,518) in Municipal Council area. For each tree attributes like its local name, scientific name, height, girth, health condition, ownership and GPS coordinates were recorded in the field. Summary of the respective survey in tabular form is as given below –

Sr No	Components	Result and Description
1	Number of Tree species	Total about 51 species
2	Number of individual trees	19,717
3	Dominant tree species	Gulmohar ,Nilgiri.Shirish
4	Total wards covered	19
5	Healthy tree population	Near about 90 %
6	Number of Native species	95 %
7	Native population	Near about 90 %
8	Maximum trees in ownership	Government / public

Total Population of Baramti (approximately) as per BMC : 16,0000

Tree ratio per population: **0.0.70767831** means near about **Tree: Population (1:7)**

There is need to rich (1:3) means 33



Reference :

[1] Indian State of forest report 2019 (isfr-2019-vol-ii-maharashtra)

[2] Indian Express 21 march 2022 (<https://indianexpress.com/article/cities/pune/outbreak-set-to-stall-tree-plantation-in-maharashtra-6459296/>)



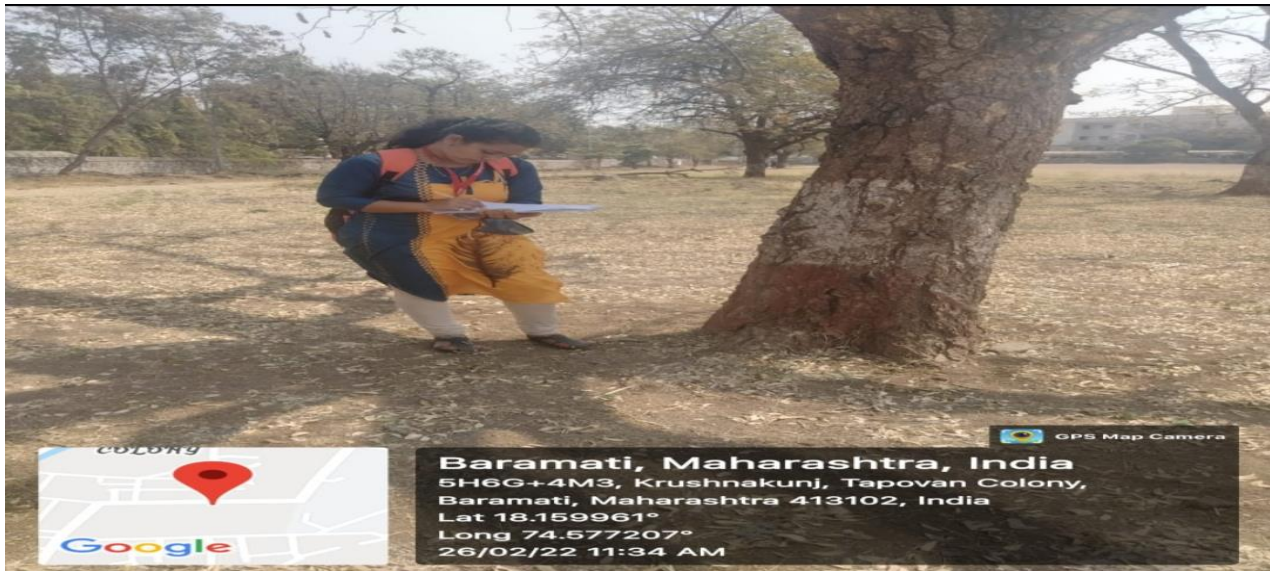
Principal
Tuljaram Chaturchand College
Baramati



Dr. Vilas Kardile and Dr. Ajit Telave giving information to students for survey of tree counting



M. Sc II Botany Students taking measurements and details of trees



M. Sc II Botany Student Prajka Gadhave noting details of observation of trees



Distribution of Certificates to Dr. Ajit Telave for active participation in Survey by auspicious hands of Mahesh Rokade, Chief officer Baramati Municipal Council



Distribution of Certificates to Sourabh Chandankar for active participation in Survey by auspicious hands of Mahesh Rokade, Chief officer Baramati Municipal Council



Distribution of Certificates to Dr. Mahadev Kanade for active participation in Survey by auspicious hands of Mahesh Rokade, Chief officer Baramati Municipal Council