# MALEGAON BK NAGARPANCHAYAT

## **Baramati Pune**

### **ULB CODE 900752**



**REPORT 2022-23** 

# 33% GREEN COVER DEVELOP ACTION PLAN MAJHI VASUNDHARA 3.0





#### ACKNOWLEDGEMENT

Thank you for all your wonderful contributions during our recent project work. It was really helpful to have your input, I really appreciate your guidance and I especially appreciate all of the time you've taken away from your own work to guide us and to ensure the work is completed in time.

Thus, we are grateful to **Smita Kale (Hon. Chief Officer)** for leading the passionate team. The important role played by **Mr. Vivek Hake (Nodal Officer)** in executing Tree Census project was essential and inputs received from him on various occasion was helpful, and thus we are thankful to him. We would also like to **thank Mr. Suresh Sawant (Supervisor)** & **Prof. R. B. Deshmukh (Tree Authority committee member)** for their regular inputs & support.

The project would not have been successful without sincere and dedicated field work carried out by all technical team including field officers. We place on record our sincere appreciation for all of them. We also thanked administrative team for supporting the project throughout its duration.

Thanking you,

For,

**OM Enterprises** 

#### **INTRODUCTION**

The Glasgow Financial Alliance for Net Zero (GFANZ) was launched in April 2021 by Mark Carney, UN Special Envoy for Climate Action and Finance and UK Prime Minister Johnson's Finance Adviser for COP26, and the COP26 Private Finance Hub in partnership with the UNFCCC Climate Action Champions, the Race to Zero campaign and the COP26 Presidency. It mobilizes a coalition of leading net zero initiatives, representing 1,049 cities, 67 regions, 5,227 businesses, 441 of the biggest investors, and 1,039 Higher Education Institutions. These 'real economy' actors join 120 countries in the largest ever alliance committed to achieving net zero carbon emissions by 2050 at the latest.

The Paris Agreement is an international treaty signed by almost all countries in the world at COP21 in Paris in 2015. The Paris Agreement has a 'bottom-up' approach where countries themselves decide by how much they will reduce their emissions by a certain year. They communicate these targets to the UNFCCC in the form of 'nationally determined contributions', or 'NDCs'.

India is the world's fourth biggest emitter of carbon dioxide after China, the US and the EU. India emitted 1.9 tons of CO2 per head of population in 2019, compared with 15.5 tones for the US and 12.5 tones for Russia that year. India has promised to cut its emissions to net zero by 2070 - missing a key goal of the COP26 summit for countries to commit to reach that target by 2050.

Prime Minister Narendra Modi made the pledge, the first time India has set a net zero target, at the Glasgow summit. Net zero, or becoming carbon neutral, means not adding to the amount of greenhouse gases in the atmosphere. The Indian leader is one of more than 120 leaders to have gathered in Glasgow for the two-week conference.

In Maharashtra, Through the Majhi Vasundhara Abhiyan, we built a culture of climate action amongst citizens, and at all levels of the government. By leveraging this collaborative culture, we are working with partners at the global level to further expedite the climate action agenda.

Through the participation in the race to zero campaign Malegaon Bk Nagar panchayat targeted to implementation of increasing our green area with increasing tree plantation. The main motive for tree planning is to neutralize carbon emission in atmosphere, trees are currently the most cost-effective and best technology for carbon removal and storage. Healthy forests also improve air and water quality, provide wildlife habitat, stabilize soils, provide opportunities for recreation and stimulate local economies. Hence, natural climate solutions have been overlooked by many NGO's, Public contributions, Industries, and social a forestation.

#### **History of Malegaon Bk**

Malegaon Budruk village in Baramati taluka of Pune district is the stronghold of Shambhu Singh Dhan Singh Jadhav Rao of Maratha dynasty Sardar Sindkhedkar Jadhav. Malegaon Budruk village is 11 km from Baramati town on Baramati-Nira road. When you enter the village, you get dressed. After entering, you reach "Shambhu Singh Maharaj High School" which means you come to the fort. The former is just the entrance, the rest is the entire school. There is a Shiva temple in front of the vese and in front of it are the tombs of members of the Jadhav family, including the tomb of Shambhu Singh Jadhav Rao. Behind the temple is Barav. A new palace has been built in Amarbag area of the village. The construction of this castle was done a hundred years ago during the British period. There are 2 full stone mansions. There is a temple in the middle of the castle. These are palaces with very handsome constructions. The feat of Dhanajirao of Raja Sindkhedkar Jadhavrao family is a golden page in the history of Marathas. After the death of Dhanaji Jadhavrao, his younger son Shambhu Singh was succeeded in AD. Got Mutaliki in 1710 under elder brother Chandrasen. Chandrasen was Shahu Maharaj's general after Dhanaji Jadhav Rao. Later, due to a rift between Chandrasen and Balaji Vishwanath, he went to Tararani's side. Shambhu Singh was offered the post of general by Ch. Shahuraj; But they rejected it. His halfbrother Srijan Singh alias Santaji Mandve accepted it. They were not particularly powerful. He was stripped of that position because of his luxury. Later it got to Man Singh More. And later Khanderao Dabhade became the general of Shahu Maharaj. The first Shambhu Singh made a special effort to settle the civil strife between Ch. Sambhaji Raje and Ch. Shahu Maharaj of Kolhapur. A.D. He played the role of a mediator in bringing about the Treaty of Warna in 1731. For the campaign in 1733-34, Sripati Rao representatives, Fattesingh Bhosale and Shambhu Singh Jadhavrao were appointed. There are records of Shahuraj praising him for his performance in this campaign. The charters granting them vassalage have also been published. A.D. In 1738-39 Shambhu Singh crushed the rebellion of a Karnataka chieftain named Virappa. Shambhu Singh was in Chimaji Appa's expedition to Vasai. A.D. In 1740 in Siroja near Bhopal, two brothers namely Chandrasen Jadhav on behalf of Nizam and Shambhu Singh Jadhav on behalf of Marathas faced each other in the war between Marathas and Nizam. Chandrasena was defeated. Shambhusinga made a special effort while fighting the fort of Trichanapalli. A.D. Shambhu Singh died in 1761.

#### Geography and Climate

Malegaon Bu. It is located at 18.47°N 74.6°E, about 514 meters (1,686 ft) above sea level on the west coast of the Deccan Plateau. Located at 9,000 meters (2,000 ft) above Baramati, the town is mostly flat terrain. Indian Meteorological Department Malegaon Bu. The climate is generally hot and dry with little rainfall in the area.

#### Economy

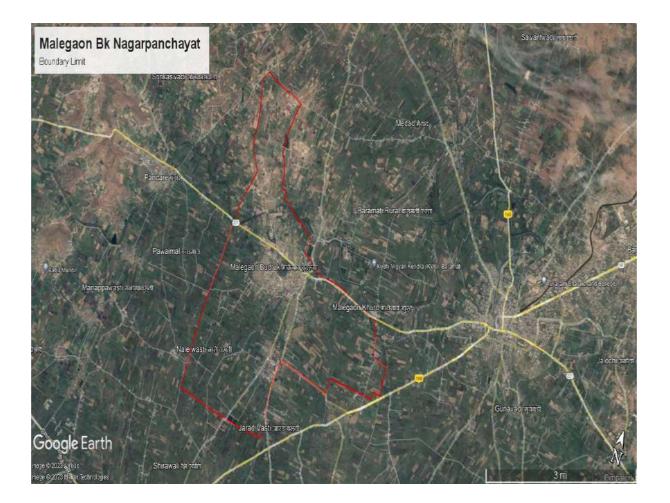
Primary crops include sugarcane. Malegaon Bk. has a large working class and the primary occupation is agriculture. People get employment from Baramati MIDC. Malegaon Bk. Co-operative sugarcane factory is developing as a center of industries. Engineering College, Pharm C College, ITI College, English Medium School Malegaon Bu. Educational development has taken place.

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# Malegaon Bk Nagar panchayat Map



#### **33% GREEN COVER ACTION PLAN**

To achieved the 33% mandatory forest cover, how many saplings needed to be planted in the state?

Maharashtra geographical area is 3.07 sq./km. 33% green cover means 1.02 Lakh of green cover. Presently the forest area is 1.02 Lakh sq./km and an addition of 0.40 lakh sq./km is needed. This calls for bringing the non-forest area under the green cover. The number of saplings is determined by the local eco-geographical factors. The 50-crore plantation mission is a novel step in this direction. Given the wide range of variation in terms of the type of soil water availability and the usage pattern of the land, it would not be possible to forecast the number of saplings needed.

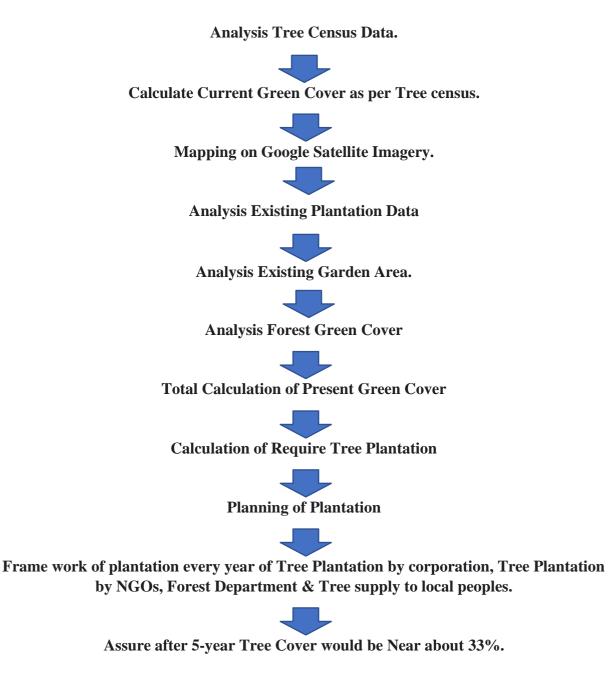
Increasing the green cover in the capital from 16.505 per cent to 33 %, in accordance with India's National Forest Policy & Majhi Vasundhara Mission 2.0.

Sufficiently large and protected greenspaces reduce the impact of human activities on climate. The ecosystem services provided by the urban greenspaces help the city in general and its citizens to adapt to the adverse effects of climate change and disasters

Description: To what extent is the city developing and increasing its green cover. Green Cover, defined as natural or planted vegetation covering a certain area of terrain, functioning as protection against soil erosion, protecting the fauna, and balancing the temperature. For the purpose of this indicator, green areas are defined as man-made city level and zonal/ district level greens; and reserved/ protected areas as per MoHUA's Urban Green Guidelines, 2014 and protected areas under the Wildlife Protection Act, 1972.

#### **METHODOLOGY**

Data available on area of urban greens can be analyzed from satellite imagery. Recent imagery can be procured from the state or National Remote Sensing Centre (NRSC). Baseline year: 2019. Comparative analysis using the formula given below on a yearly basis will help to understand the increase/decrease over time. This data is also being reported by cities for the Ease of Living Index and may be sourced from there.



#### **TREE CENSUS & GREEN COVER**

#### WARDWISE - OWNERSHIP WISE TREE COUNT

## Agro Diamond

Baramati, Pune 413102

Date-31/03 /2022

#### CERTIFICATE

This is to certify that we have conducted Tree Census at all Malegaon Bk Nagarpanchayat Area limit.

#### Normal trees

Sr.NO	Ward No	Total Tree	Geo Tag
1	1	9207	yes
2	2	9138	yes
3	3	2834	yes
4	4	8562	yes
5	5	25670	yes
6	6	24255	yes
	Total	79,666	

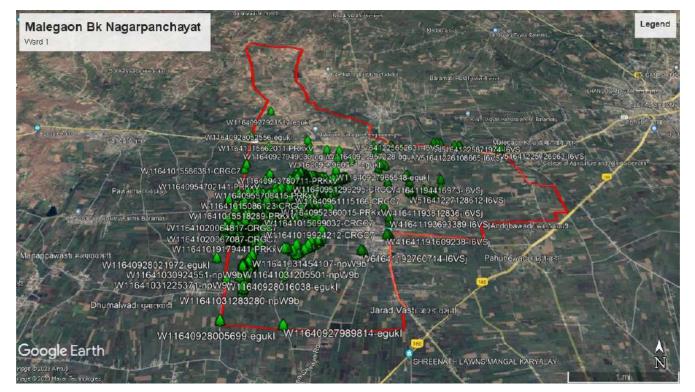
#### **Heritage Trees**

Sr.no	Ward no.	Total Trees	Geo tag	
1 to 6	1 to 6	49	yes	

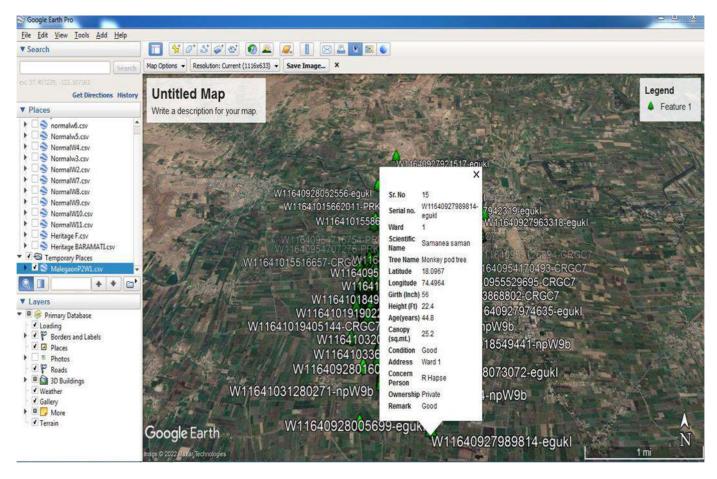
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For , Agro Diamond , Baramati, Pin 413102

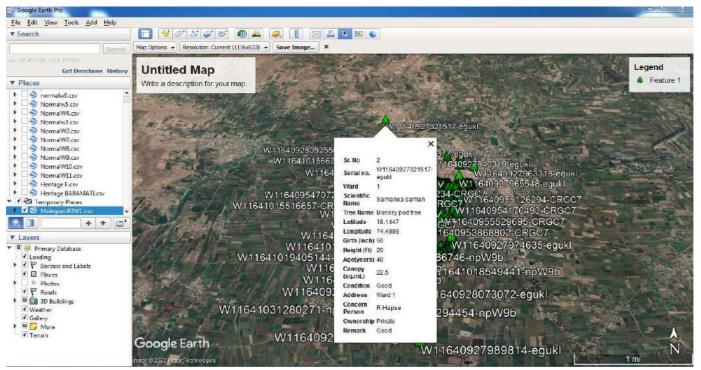
### Ward No. 1



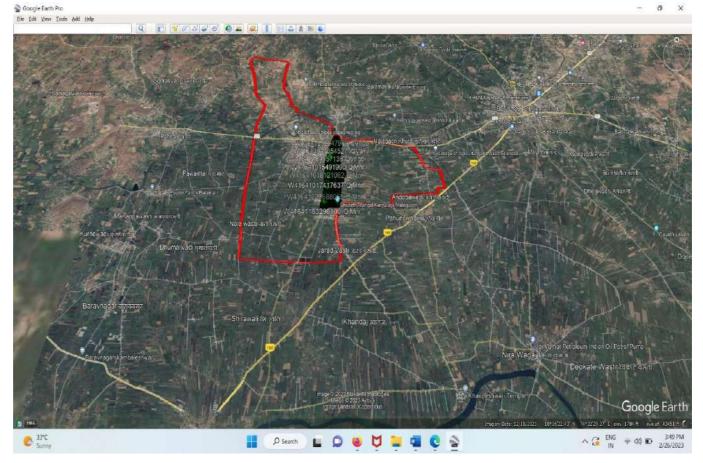
## Ward No 2

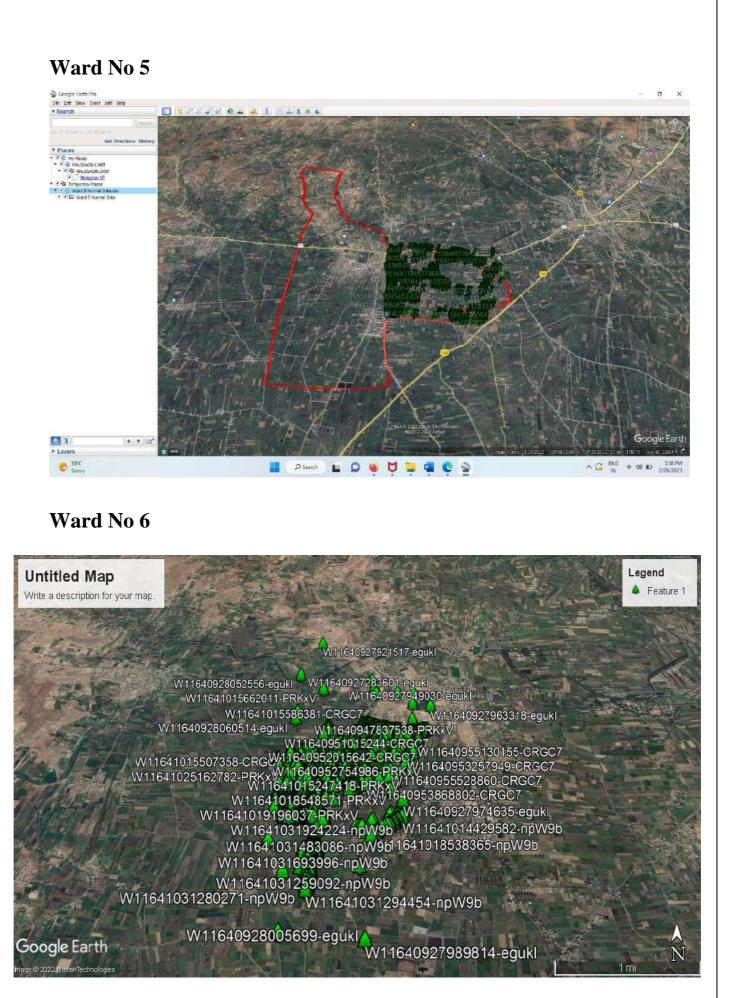


### Ward No 3

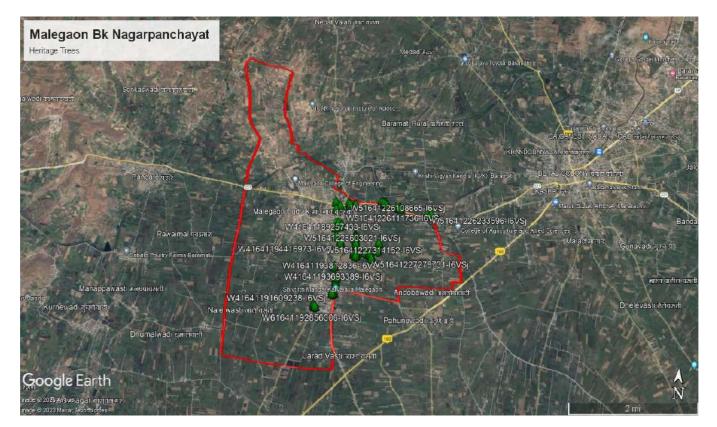


#### Ward No 4





## Heritage Tree



# Agro Diamond

Baramati, Pune 413102

Date-31/03 /2022

### CERTIFICATE

This is to certify that we have conducted Tree Census at all Malegaon Bk Nagarpanchayat Area limit. Green cover area Malegaon Bk Nagarpanchayat 38% means 7,04,520 sq. meter.

Total Area Sq Mt 18,54,000.

Sr.NO	Ward No	Total Trees	Canopy (Sq mt)
1	1	9207	6225547.37
2	2	9138	80779.92
3	3	2834	25052.56
4	4	8562	75688.08
5	5	25670	226922.8
6	6	24255	214414.2
	Total	79,666	7,04,520

#### Normal trees

#### **Heritage Trees**

Sr.no	Ward no.	Total Trees	Canopy (Sq mt)	
1 to 6	1 to 6	49	539	

Agro Dia

For , Agro Diamond , Baramati, Pin 413102

## CALCULATION OF TREES GREEN COVER WITH IN CITY

### Tree Census Data 2021-22

### What is Tree Census?

A **census** is the procedure of systematically enumerating, and acquiring and recording information about the Number of Trees in particular area. The census is a list that keeps track of all Trees for example tree name, girth, height, age, health condition, ownership etc.

### Why Tree Census is Important?

A tree census also helps in future environmental planning. The census is also aimed at encouraging community awareness of the need for tree conservation, regulating pruning and felling and increasing green cover with people's participation.

Once completed, the tree census may become a regular feature that can be repeated every five years and serve as a potential platform for an environmental education programme that would help spread awareness about the need for clean air, recharging of ground water, maintenance of biodiversity, reduction of noise pollution and so on.

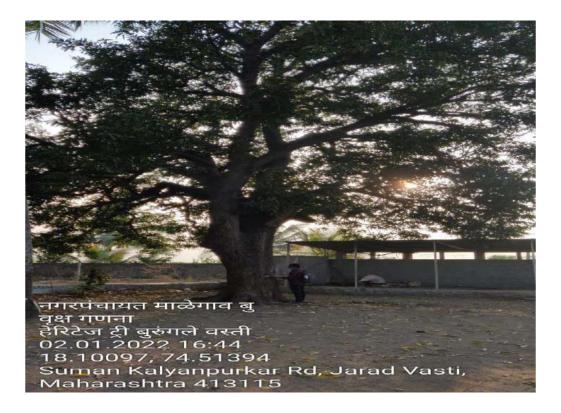
Sr. No	Description	Area cover
1	Malegaon Bk City Area Sq./Km	18.54 Sq./Km
2	Total All Tree Count as per Tree Census	79,715 Trees
	Note – Average Tree Canopy 16 Sq./Meter	
3	Tree Canopy Green Cover	7.4 Sq./Km

#### How many Trees are needed to produce enough oxygen for one person?

You'll hear a range of numbers and ways of presenting them because the amount of oxygen produced by a tree depends on the species of tree, its age, its health, and also on the tree's surroundings. The bigger the tree the more total oxygen it produces and more is its own requirement for oxygen for survival. Yes, a 59-year-old Neem tree produces more oxygen than a 1-year-old Neem Tree. According to the Arbor Day Foundation, "a mature leafy tree produces as much oxygen in a season as 10 people inhale in a year."A single mature tree can absorb carbon dioxide at a rate of 48 lbs./year and release enough oxygen back into the atmosphere to support 2 human beings."

"One acre of trees annually consumes the amount of carbon dioxide equivalent to that produced by driving an average car for 26,000 miles. That same acre of trees also produces enough oxygen for 18 people to breathe for a year."" A 100-ft tree, 18" diameter at its base, produces 6,000 pounds of oxygen." "On average, one tree produces nearly 260 pounds of oxygen each year. Two mature trees can provide enough oxygen for a family of four."

#### **Conclusion-** We need at least 2 Trees to make enough oxygen for 1 person.









### **EXISTING PLANTATION DATA**

Malegaon Bk Nagar panchayat involved in this initiative from a long time. Treeplanting is the process of transplanting tree seedlings, generally for forestry, land reclamation, or landscaping purpose. It differs from the transplantation of larger trees in arboriculture, and from the lower cost but slower and less reliable distribution of tree seeds. Trees contribute to their environment over long periods of time by providing oxygen, improving air quality, climate amelioration, conserving water, preserving soil, and supporting wildlife. During the process of photosynthesis, trees take in carbon dioxide and produce the oxygen we breathe.

Sr. No.	Year of Plantation	Total	Description
		Plantation	
1	2021	2200	Tree Plantation, Provide to
			Local Peoples.
2	2022	6200	Tree Plantation
3	2023	6100	Tree Plantation
	Total	14,500	

#### **Malegaon City Corporation Tree Plantation**

#### **Existing Tree Plantation Green Cover**

Sr. No.	Description	Area
1	Total Tree plantation Last 2 year	14500
2	Mortality Rate 10%	1450
3	Existing present Trees	79715
4	Total Tree Cover (Average Tree Canopy 3	7.4 sq/km
	Meter)	_

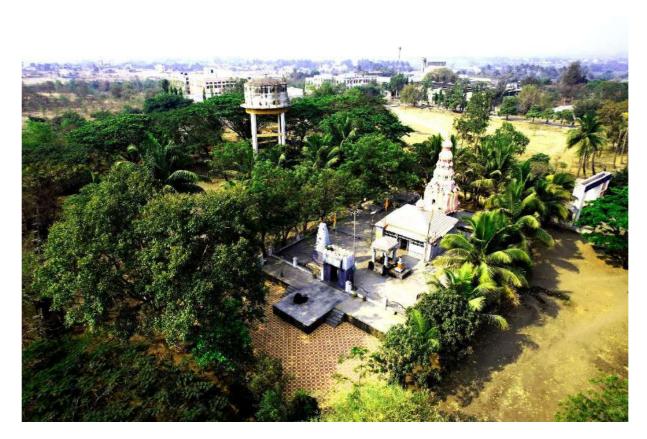
## **Green Area Photo**

## 1) Shivanagar Vidya Prasarak Mandal



2) Government Industrial Training Institute





3) Nageshawar Mandir

# 4) Nanadan Dairy





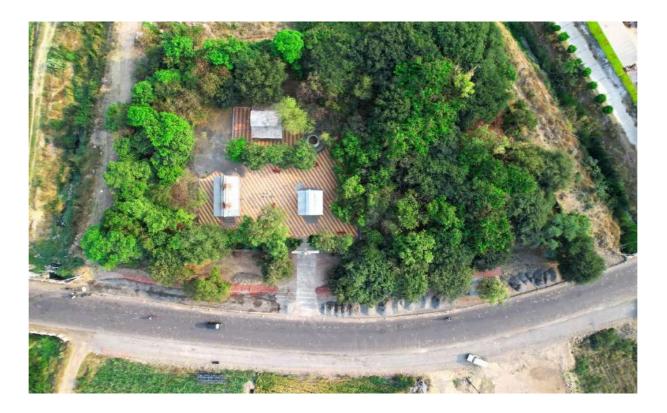
5) Near Police Station Area

# 6)Malegaon Sugar Factory Area





7) Shardabai Pawar Mahila Arts, Commerce & Science College Area



8) Cemetery Malegaon Bk

#### **EXISTING GARDEN GREEN COVER**

garden and landscape design, the development and decorative planting of gardens, yards, grounds, parks, and other types of areas. Garden and landscape design is used to enhance the settings for buildings and public areas and in recreational areas and parks. It is one of the decorative arts and is allied to architecture, city planning, and horticulture.

Efforts to design gardens and to preserve and develop green open space in and around cities are efforts to maintain contact with the original pastoral, rural landscape. Gardens and designed landscapes, by filling the open areas in cities, create a continuity in space between structural urban landscapes and the open rural landscapes beyond. Moreover, gardens and designed landscapes have a special type of continuity in time. Buildings, paintings, and sculpture may survive longer than specific plants, but the constant cyclical growth and change in plants provide a continuous time dimension that static structures and sculpture can never achieve.

Sr.no	Name of the park
1	Shivnagar Vidya Parasak mandal's Engineering College
2	Government Industrial Training Institute
3	Nageshwar Mandir
4	Nandan Dairy & Pashukhadya Malegaon bk
5	Near Police Station Area
6	Malegaon Sugar Factory
7	Amar sigh Garden Malegaon Bk
8	Shardabai Pawar Mahila Arts, Commerce & Science College
9	Cemetery Malegaon Bk

# **Garden Area Green Cover**

Sr. No.	Description	Area
1	Total Garden Area	5926 Sq./M
2	Total Garden Green Cover Area	5.9 Sq./Km

1) **Nandan Dairy Garden** has developed by Nandan Dairy Management, and This is largest garden in Malegaon Bk Pune district by area and here more than 5000 Tree, climber, herb, bamboo species has been planted.

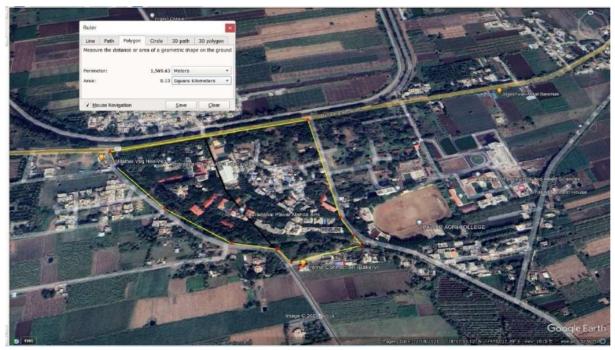


Total Area covered – 0.13 Sq./Km

2) Government Industrial Training Institute Garden has developed by Malegaon Bk Nagarpanchyat and Government Industrial Training Institute Malegaon Bk, This is largest garden in Malegaon Bk Pune districtby area and here more than 5500 Tree, climber, herb, bamboo species has been planted.



3) Agricultural Development Trust's Shardabai Pawar Mahila Arts, Commerce & Science College Garden has developed by Agricultural Development Trust's Shardabai Pawar Mahila Arts, Commerce & Science College. This is largest garden in Malegaon Bk, Pune district by area and here more than 4500 Tree, climber, herb, bamboo species has been planted.



Total Area covered – 0.13 Sq./Km

4) The Malegaon Sahakari Sakhar Karkhana Ltd. Garden has developed by The Malegaon Sahakari Sakhar Karkhana Ltd., Malegaon Bk, Pune. This is largest garden in Pune districtby area and here more than 4500 Tree, climber, herb, bamboo species has been planted.



Total Area covered – 0.55 Sq./Km

**Daphan Bhumi Garden** Area has developed by Malegaon Bk Nagar panchayat and Muslim Social Group and This is garden in Malegaon Bk area and here more than 25000 Tree, climber, herb, bamboo species has been planted.



Total Area covered – 0.23 Sq./Km

**Shivnagar Vidya Prasarak Mandal**, Shivnagar Garden has developed by Shivnagar Vidya Prasarak Mandal, Shivnagar, and This is garden in Pune districtby area and here more than 3500 Tree, climber, herb, bamboo species has been planted.



Total Area covered – 0.23 Sq./Km

#### CALCULATION OF TOTAL GREEN COVER AREA PRESENT

Due to the fact that part of the Malegaon Bk Nagar panchayat area, there is a lot of trees here. There is a lot of vegetation in the outskirts of the area but not much in the center of the city and in the densely populated areas. it is also necessary to increase the green area in the urban areas due to the high level of pollution.

Sr. No.	Description	Area
1	Tree Census Green Cover	7.4 Sq./Km
2	Existing Plantation	0.25 Sq./Km
4	Forest area (Excluding)	0 Sq./Km
5	Green Cover Area	7.65 Sq./Km
6	Total Area of City	18.54 Sq./Km
7	33 % Green Cover Require Area	7.3 Sq./Km
	Conclusion	
Mal	egaon Bk Nagar panchayat achieve 33	% Green Cover Goal

## Action Plan to More than 33 % Green Cover

Sr. No	Description	Area / Count
1	Require Develop Green Cover Area	0.99 Sq./Km
2	Distance of Planting Trees	5 Meter
3	Total Tree Require	55,00,00 Trees

## Tree plantation Requirement as per Area

## **Next Five-Year Plantation Plan**

Sr. No	Year	Tree Plantation	Remark
1	2022-23	6500	Nagar panchayat , Ngo's
2	2023-24	7000	Nagar panchayat, Ngo's, Company,Forest Dpt.
3	2024-25	10000	Nagar panchayat, Ngo's, Company,Forest Dpt.
4	2025-26	10000	Nagar panchayat, Ngo's, Company,Forest Dpt.
5	2026-27	22000	Nagar panchayat, Ngo's, Company,Forest Dpt.

#### **NEW TREE PLANTATION**

Malegaon Bk Nagar panchayat involved in this initiative from a long time. Tree-planting is the process of transplanting tree seedlings, generally for forestry, land reclamation, or landscaping purpose. It differs from the transplantation of larger trees in arboriculture, and from the lower cost but slower and less reliable distribution of tree seeds. Trees contribute to their environment over long periods of time by providing oxygen, improving air quality, climate amelioration, conserving water, preserving soil, and supporting wildlife. During the process of photosynthesis, trees take in carbon dioxide and produce the oxygen we breathe.

अ.क्र.	नाव	गट न.	ओपन स्पेस
01	प्रफुल भिमदेव तावरे	643	1776 m <sup>2</sup>
02	निलेश दिलिप जगताप व इतर 2	672 पै.	900 m <sup>2</sup>
03	शिवाजी गुलाबराव तावरे	229 पै.	801.34 m <sup>2</sup>
04	जयकुमार छगनलाल मुथा	662 पै.	4800 m <sup>2</sup>
05	जयकुमार छगनलान मुथा	662 पै.	5688.14 m <sup>2</sup>
06	राजे वसुंधरा अमरसिंह जाधवराव	691,692,694,695,696,697	3920 m <sup>2</sup>
		,698,702	
07	सचिन रघुनाथ भोसले	215 पै.	910.12 m <sup>2</sup>
08	चेअरमन बारामती ता. स.दुध उत्पादक संघ	1107 (जुना) 551/2, 551/3	2420 m <sup>2</sup>
09	श्रीमती विमल देव	15 पै.	770 m <sup>2</sup>
10	विमल यशवंत तावरे	15 पै.	839.97 m <sup>2</sup>
11	दत्तात्रय दिनकर देवकाते	690 पै.	1370 m <sup>2</sup>
12	सिताराम विठ्ठल कारंडे	16/1	450.56 m <sup>2</sup>
13	विरेंद्रसिंह मानसिंहराव जाधवराव	698	$1626.44 \text{ m}^2$
14	सचिदानंद दत्तात्रय माळवदकर	240 पै.	$400 \text{ m}^2$
15	आबासाहेब महादेव कोंढाळकर	166	400 m <sup>2</sup>
16	संतोष ज्ञानदेव चाचर	560	252 m <sup>2</sup>
17	रविंद्र दिलिप धुमाळ	559 पै.	250 m <sup>2</sup>
18	अनुजा राजेंद्रकुमार गायकवाड	643	1776 m <sup>2</sup>
19	मोहनराव नाथबुवा जगताप	446/4	646 m <sup>2</sup>
20	निनाद भिमराव माने	570/12 पै.	380.10 m <sup>2</sup>

### **Open Space within City**

# **Open Space Plantation**

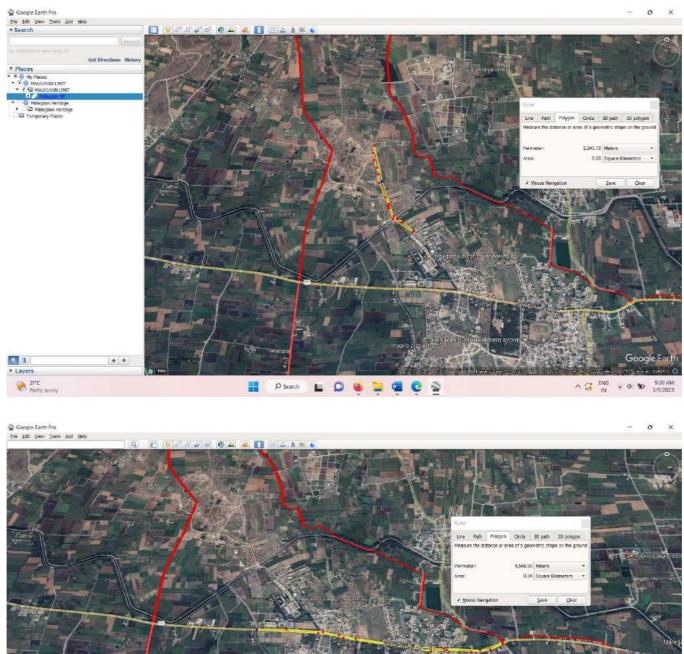
Sr. No.	<b>Total Area</b>	<b>Proposed Plantation</b>	<b>Distance of Plantation</b>
1	0.99 Sq./Km	55000Trees	5 Meter

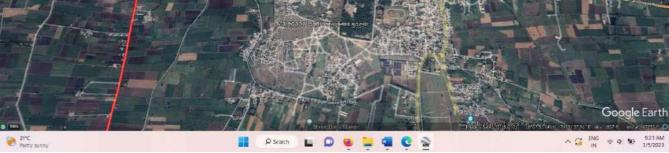
# Five Year Plan ULB Target

Sr. No	Year	Plantation Target
1	2022	7000 Trees
2	2023	7000 Trees
3	2024	7000 Trees
4	2025	7000 Trees
5	2026	7000 Trees

# **Proposed Plantation**

Proposed Road Plantation





## **Road Plantation**

Sr. No.	Total Area	Proposed Plantation
1	Approx. 3 Kilometer Road	2500 Trees

## **Five Year Plan**

Sr. No	Year	Plantation Target
1	2022	500 Trees
2	2023	500 Trees
3	2024	500 Trees
4	2025	500 Trees
5	2026	500 Trees

#### **ROAD PLATATION PHOTO**



### TREE PLANTATION AWARENESS PROGRAME

Planting trees is the ideal approach to support nature. It additionally helps other living species, including people, in many ways. Trees give us oxygen, food, shelter, and many more. They are natural air filters and noise safeguards. Trees are the earth's life supportive network. They support and are essential for life on earth. Aside from giving oxygen, trees additionally work as common safeguards of noise pollution.

The forests do develop naturally. Be that as it may, today, forests are chopped down at a rate more noteworthy than they could develop. This causes a sort of irregularity, wherein relatively few trees are left to meet our oxygen supply and different requirements.

Trees are a source of shelter and nourishment for many species, reptiles, and birds. Any place a tree is planted it gives another lease of life to these species. Trees additionally cause rain and prevent floods. Rajendra Academy for Teachers' Education, Durgapur inspires students and staff to plant more and more saplings so that they can easily make

One of the recognized purposes behind tree plantation is forestry. Forests are quickly diminishing from the surface of the earth since people are cutting trees for business purposes. Despite the way that forests develop normally, there is a need to regrow them at a more noteworthy rate than the rate at which they are destroyed. Aside from improving the biodiversity, trees additionally add to the natural beauty of a spot.

Trees planted by the streets and in the parks add to the scenic beauty of the spot. A tree will be there for ages profiting everyone in its specific manner. If you plant a tree today, at that point, you're coming ages will be profited by it— one of the best future investments to make for your youngsters.

Plantations of trees are important as they improve the life and fulfil essential needs of mankind. During photosynthesis, the trees breakdown food materials and consume carbon dioxide. Resultantly with the help of sunlight, the trees produce carbohydrates. Honorable Chief Officer, Smita Kale Ma'am inspires and encourages all students and staff to take care of the environment by planting more and more trees. Tree plantation is one of the most important and eco-friendly activities all over the world which is taking place. Development of Nursery

### NURSERY DEVELOPMENT

A vegetable or fruit nursery is a place where plants are cared for during the early stage of growth, providing optimum conditions for germination and subsequent growth until they are strong to be planted out in their permanent place. A nursery can be as simple as a raised bed in an open field or a sophisticated green house with micro sprinklers and controlled atmospheric systems. Nursery management and plant propagation are considered same. They are different but inter-related.

In fact, mass multiplication of quality planting materials is the center theme of nursery management is a trade oriented dynamic process, which refer to efficient utilization of resources for economic returns. Nursery management is team effort to reach the desired goal.

#### Nursery management

The main phases of nursery management are-

- Planning demand for planting material, provision of mother blocks, requirement of land area, water supply, working tools, growing structures and input availability.
- Implementation land treatment, protection against biotic interference and soil erosion, proper layout, input supply, etc.
- Monitoring and evaluation physical presence, rapid response, critical analysis, incentive to workers, etc
- Feedback for further refinement

### **Requirement of nursery**

Young plant whether propagated from seed or vegetative reproduction require lots of care particularly during the early stages of growth. They have to be protected from adverse temperature, heavy rain, drought, wind and varieties of pest and disease. If small seeds of vegetables are direct sown in field, germination is often poor and the young plant grow very slowly and require lots of time to mature. Also, there may be limitations in terms of available season for full development in the field. To overcome these problems, vegetable crops are grown in nursery before being transplanted in the field.

## **PEOPLES BIODIVERSITY RESISTER**

Malegaon Bk Nagar panchayat has created People Bio-Diversity Register (PBR). This PBR contains information about availability & knowledge of local biological resources, their medicinal use or any other traditional knowledge related to it.

This PBR is approved by Biodiversity Management Committee. Malegaon Bk Nagar panchayat has published this PBR in newspaper, on Instagram, twitter, Facebook & made available on Official website of Malegaon Bk Nagar panchayat .

Expert is appointed to prepare biodiversity registers. This expert includes Botany, Biology, Agriculture, Forest officials as well as local experts.

Knowledge about agriculture, methods of cultivation and special properties of crops are collected from the farmers by visiting the places where agriculture takes place.

Contact the physicians who have been working in your department for many years and get information about the plants for which they are used.

Locals are contacted and their living conditions, working habits, pets etc. are known.

Visit places in your area where biodiversity is high and collect details of flora, fauna, soil and other information.

To get information about the natural resources of the city by meeting prominent people in the city / village, for example agriculture, forest experts and knowledgeable people. Visiting the markets in the city and studying the local goods sold there.

To study the flora, fauna, micro-organisms, birds and other elements found in the city.

By visiting all the above places and collecting information, a People's Biodiversity Register is also prepared.

#### HERITAGE TREE CONSERVATION

#### What are heritage trees?

Under the proposed amendment, 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. Experts believe that in addition to the age, the state climate change department (which will be implementing the Tree Act), should also consider a tree's rarity, its botanical, historical, religious, mythological and cultural importance in defining a heritage tree. The local Tree Authority will have to ensure tree census to be carried out every five years along with counting of heritage trees

#### How is the age of the tree determined?

The most common method of determining the age of the tree is Dendrochronology – or tree-ring dating also called growth rings. Each year, roughly a tree adds to its girth, the new growth is called a tree ring. By counting the rings of a tree, the age can be determined. However, the process is invasive. To analyse the rings, core samples are extracted using a borer that's screwed into the tree and pulled out, bringing with it a straw-size sample of wood. The hole in the tree is then sealed to prevent disease. The environment department, in consultation with the forest department, will issue guidelines to determine the age of the tree

### Why was the concept of heritage tree introduced?

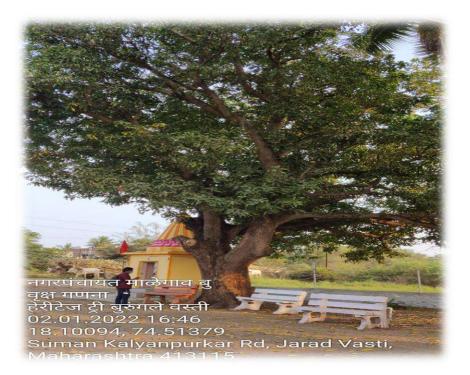
A heritage tree will get special protection. Crucially, the tree's age will determine the number of trees to be planted as part of the compensatory plantation – that is anyone cutting a heritage tree will need to plant trees in the same numbers as the cut tree's age. According to the current Compensatory 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. For instance, if a 52-year-old tree is to be felled, then the party felling the tree will have to plant 52 trees in compensation, with each compensatory tree at least 6-8 ft in height at the time of planting. 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

## What is the economic value of the tree?

In case compensatory plantation is not possible, the tree feller has to pay compensation for the economic valuation of the trees being felled. While the state government has not defined the economic value of the tree, experts say that the amount of oxygen that a tree releases into the environment should determine its economic value.

The Supreme Court, in March this year, addressed the issue of the value of trees, beyond the wood/timber cost. In a matter about the felling of trees of ages up to 150 years for Road Over Bridges and road-widening projects in West Bengal, the SC ordered setting up a seven-member expert committee to "prescribe a mechanism for assessment of both intrinsic and instrumental value of the trees...". To calculate "just and fair compensation...for felling of trees...it is...imperative to make a realistic assessment of the economic value of a tree, which may be permitted to fell, concerning its value to the environment and its longevity, about factors such as the production of oxygen and carbon sequestration, soil conservation, protection of flora/fauna, its role in habitat and ecosystem integrity and any other ecologically relevant factor, distinct from timber/wood," the court said.

The amendment also has the fine for illegal felling of trees from a maximum of Rs 5,000 to Rs 1 lakh per tree.





## **Encourage to local Peoples for Plantation**

There is a lot of open space available in Malegaon Bk Nagar panchayat area but due to low rainfall in the area, it is not possible to take care of the trees properly. If the citizens themselves plant trees in the vicinity of their homes and in their own space, then those trees will be well cared for and green belts will develop as soon as possible. We have planned for the next 5 years that the Nagar panchayat distributes small trees among the citizens in the month of June every year.

Sr. No	Year	Plantation Target
1	2022	2,000 Trees
2	2023	3,000 Trees
3	2024	3,000 Trees
4	2025	5,000 Trees
5	2026	5,000 Trees

## **Encourage to NGOs for Plantation**

There are some NGOs working in the field of environment in Malegaon Bk Nagar panchayat area. These organizations are involved in planting and cultivating trees. The Malegaon Bk Nagar panchayat will encourage such organizations to plant trees and provide them space which will help in developing green belts within the Nagar panchayat boundaries.

Sr. No	Year	Plantation Target
1	2023	2,000 Trees
2	2024	3,000 Trees
3	2025	5,000 Trees
4	2026	5,000 Trees

### NGO's

1) Yuva Chetna Birds Home

## Encourage to Local Companies, Hospital, Bank, Government Offices for Plantation

Malegaon Bk Nagar panchayat will encourage local level organizations, hospitals, banks and government offices to plant trees and will include them in my Vasundhara Mohim. All these institutes have ample space available so they can plant trees and take good care of them.

Sr. No	Year	Plantation Target
1	2023	1,000 Trees
2	2024	2,000 Trees
3	2025	2,000 Trees
4	2026	2,000 Trees

### **Local Companies**

- 1. Malegaon Sugar Factory Malegaon Bk.
- 2. Nandan Dairy Malegaon Bk.

## NATIVE TREE SPECIES PLANTATION

### HOW DOES PLANTING NATIVE TREES HELP THE ENVIRONMENT?

When you plant local trees, you help local wildlife live and thrive. Animals like birds and butterflies have looked to native plants for years for food and shelter. When there aren't enough native trees around, these populations can quickly decline. That's why native trees are important—they help support our local ecosystems.

## WHAT ARE THE ADVANTAGES OF PLANTING NATIVE TREES?

There are so many great reasons to plant a native tree. They don't just benefit the wildlife we share space with, but native trees can actually help us, humans, too. Here's how:

- Many insects, birds, and animals depend on native trees for food and shelter. They'll thank you for planting them!
- Living somewhere with blisteringly cold or awfully hot seasons? Native trees are well-adapted to the local climate, which means they'll have the best chance at survival.
- While non-native trees might not do well up against local pests, native trees often don't have as many pest problems.

## ARE THERE ANY DISADVANTAGES FOR PLANTING NATIVE TREES?

Yes, native trees can come with a few drawbacks. For starters, they're sometimes hard to track down. Not all local tree nurseries prioritize native plants, so you may have to do some digging to find what you're looking for.

Secondly, native trees aren't always foolproof. Just because a tree originated in your region, doesn't mean it's meant to grow in your yard. For example, a tree native to your state might grow best in sandy, well-drained soil, but maybe your yard's soil is typically clayey and over-saturated. Or, a native tree that thrives in full sun won't do well if you have a particularly shady landscape.

All that said, when you plant with the specific species' needs in mind, such as climate, space, and soil environment, you have a good chance of growing a happy, healthy tree.

## **NATIVE TREE PLANTATION**

Sr. No.	Botanical Name	Common Name
1	Acacia catechu	Khair
2	Aegle marmelos	Bel
3	Balanties aegyptiaca	Hingan, Ingudi
4	Butea monosperma	Palash
5	Cassia fistula	Indian Labernum
6	Dalbergia	Shisham
7	Mangifera Indica (Country variety)	Mango
8	Mimusopselengi	Bakul
9	Oroxylon indicum	Tetu
10	Pongamia pinnata	Karanj
11	Pterocarpus santalinus	Rakta Chandan
12	Santalum album	Chandan
13	Saraca asoca	Sita Ashok
14	Semecarpus anacardium	Biba
15	Syzygium cumini	Jamun
16	Tecomella undulata	Marwar Teak, Rohitak
17	Terminalia arjuna	Arjun
18	Terminalia belerica	Behada
19	Azadirachta indica	Kaduneem
20	Albizia lebbeck	Shirish
21	Ficus benghalensis	Vad
22	Ficus religiosa	Pimpal



Terminalia elliptica



Bombax ceiba



Dalbergia sissoo



Acacia catechu



Ficus benghalensis



Syzygium cumini



Mangifera indica



Tamarindus indica

## **RECAPITULATION COST FOR GREEN COVER**

## Name of Work : Detailed Project Report under Majhi Vasundhara Abhiyan Malegaon Bk Nagar panchayat for the year 2022-23

Sr.No	Description	Amount
1	Tree plantation to increase Green Cover In Malegaon City	3873421.10
2	Nursery Development work for Malegaon Bk Nagar panchayat	1874811.93
	Total Amount	
	Rounded off	5748233

## Name of Work - Tree plantation to increase Green Cover of city for Malegaon Bk Nagar panchayat

RECAPITULATION SHEET								
Cost of So	Cost of Softscope			3424170	430012			
	Tota	ıl Rs.	Rs.	3424170				
G S T on Wor	k Portion	12%	Rs.	3835070.4				
1% Labour	Insurance	1%	Rs.	3873421.10				
	r	Гotal Rs.						
			Say As	3873421	/-			

## Name of Work - Tree plantation to increase Green Cover of city for Malegaon Bk Nagar panchayat

	Abstract									
Sr. No	Particulture	Qty	Rate	Unit	Total					
1	Plantation: TreesPlanting large flowering / shady trees( Ht.2 mtr.)Digging pit with size 0.9 X 0.9m X 0.9 m removingand conveying unwanted stuff to a required distanceas directed. Filling the pit with approved distance asdirected Filling the pit with approved height of0.60m. with fresh garden soil & manure in 3:1proportion Mixing soil & manure thoroughly well.leveling, as directed watering previous night,planting two to three years old minimum 2.0 mtr.height healthy tree sapling as per specifications.maintaining till well established by watering,weeding, stirring of soil replacing of casualties etccomplete. PWD Garden DSR 2016-17	2200	842.79	Nos	1854138					
2	Providing Fixing 6 feet height M.S tree Guard With 2 feet dia with excavation etc. complete ( As per GeM rate	1200	1200	Nos	1440000					
3	Boring/drilling bore well of 300mm dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipment's, tools, plants & machinery required for the job, all complete as per direction of Engineer in charge, up to 90m depth below ground level. PWD SSR 2021-22 Item No.48.48 (60 m x 39 spots=2340 Rmt)	1100	432	Rmt	475200					
4	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well- casing pipe of 150mm dia, conforming to IS:12818, including required hire and labor charges, fittings & accessories etc. all complete, for all depths, as per the direction of Engineer in charge.PWD SSR 2021-22 Item	220	499	Rmt	109780					
5	Supplying and erecting submersible pump set of 3.75 KW/5 HP with 415 V, 50 c/s AC supply suitable for 100 mm dia. borewell suitable for 85 to 170 LPM discharge at 110 to 46 m head & (max. efficiency at 83 m head & 130 lpm) discharge & delivery pipe of Size-65 mm diameter with a necessary H type clamps as per specification no.	10	36162	Nos	361620					

## Name of Work - Tree plantation to increase Green Cover of city for Malegaon Bk Nagar panchayat

Particulture viding and Supplying Blue MDPE pipes ning to ISO 4427:1996 manufactured from resin PE 80 Food grade compounded Raw rial having Blue Colour only with quality re certificate from quality agencies like WRC India) / DVGM / KIWA / SPGN etc. for usage in Drinking Water system. g and errecting Drip irrigation pipe of 16 mm ass I - 8 Years Life Drip Pipe 0.72mm wall g and errecting 4.5 Mm Online Dripper, For Drip nce for Three year of planted of trees by ces including farm yard/ manure, pesticides	Qty 1200 6100 6100	Rate         191         24         2.4	Unit Rmt Rmt Lum	Total           229200           146400
ning to ISO 4427:1996 manufactured from resin PE 80 Food grade compounded Raw rial having Blue Colour only with quality re certificate from quality agencies like WRC India) / DVGM / KIWA / SPGN etc. for usage in Drinking Water system. gand errecting Drip irrigation pipe of 16 mm ass I - 8 Years Life Drip Pipe 0.72mm wall g and errecting 4.5 Mm Online Dripper, For Drip nce for Three year of planted of trees by	6100	24	Rmt Lum	
ass I - 8 Years Life Drip Pipe 0.72mm wall g and errecting 4.5 Mm Online Dripper, For Drip nce for Three year of planted of trees by			Lum	146400
Drip nce for Three year of planted of trees by	6100	2.4		
			Sum	14640
etc.complete AS per RA	3	303979	per tree	911937.6
3 Mali For Maintance for 3 years	2808	592	man days	1662336
Total amt.				2964514
required for maintenace of tree planted= 1% of			Lum sum	2994159
Total Amount				2994159
Rounded Amount				29,94,158
	Total amt. required for maintenace of tree planted= 1% of Total Amount	Total amt. required for maintenace of tree planted= 1% of Total Amount	Total amt.       required for maintenace of tree planted= 1% of       Total Amount	3 Main For Maintance for 3 years       2808       592       days         Total amt.         required for maintenace of tree planted= 1% of       Lum sum         Total Amount

## Name of Work - Tree plantation to increase Green Cover of city for Malegaon Bk Nagar panchayat

	Rate Analysis for Softsco	ope			
Sr. No.	Description of Item	% of	Basic Rate	Rate component	Unit
1	Planting large flowering / shady trees( Ht.2 mtr.) Digging pit with size 0.9 X 0.9 m X 0.9 m removing and conveying unwanted stuff to a required distance as directed. Filling the pit with approved distance as directed Filling the pit with approved height of 0.60m. with fresh garden soil & manure in 3:1 proportion Mixing soil & manure thoroughly well. leveling, as directed watering previous night, planting two to three years old minimum 2.0 mtr. height healthy tree sapling as per specifications. maintaining till well established by watering, weeding, stirring of soil replacing of casualties etc complete. PWD Horti. DSR 2016-17				
	Rate as per PWD Horti. DSR 2016-17	1.00	811.00	811.00	
	Deduct For labour amenities & cess 2%	0.02		16.22	-
	Net rate			794.78	-
	Add 4% Malegaon Bk Nagar panchayat charges	0.04		31.79	
	Add for Labor amenities and cess			16.22	-
	Completed Rate			842.79	Per Tree
2	Providing Fixing 6 feet height M.S tree Guard With 2 feet dia with				
	excavation etc. complete (As per rate Quotation)	1.00	4 000 00	4 200 00	
	As Per Gem Quotation	1.00	1,200.00	1,200.00	
	Completed Rate			1200.00	Per Item
3	Boring/drilling bore well of 300mm dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ borelog, including hire & running charges of all equipment's, tools, plants & machinery required for the job, all complete as per direction of Engineer in charge, up to 90m depth below ground level. PWD SSR2021-22 Item No.48.48				
	Rate as per SSR 2021-22/48.48	1.00		416.00	
	Deduct For labor amenities & cess 2%	0.02		8.32	-
	Net rate			407.68	-
	Add 4% Malegaon Bk Nagar panchayat charges	0.04		16.31	
	Add for Labour amenities and cess			8.32	-
	Completed Rate			432.31	Rmt
4	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well-casing pipe of 150mm dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per the direction of Engineer in charge.PWD SSR 2021-22 Item No.48.49				
	Rate as per SSR 2021-22/48.49	1.00		480.00	
	Deduct For labour amenities & cess 2%	0.02		9.60	-
	Net rate			470.40	-
	Add 4% Malegaon Bk Nagar panchayat charges	0.04		18.82	
	Add for Labour aminities and cess			9.60	-
	Completed Rate			498.82	Rmt

## Name of Work - Tree plantation to increase Green Cover of city for Malegaon Bk Nagar panchayat

### **Rate Analysis for Softscope**

Sr. No.	Description of Item	% of	Basic Rate	Rate component	Unit
5	Supplying and erecting submersible pumpset of 3.75 KW/5 HP with 415 V, 50				
	c/s AC supply suitable for 100 mm dia. borewell suitable for 85 to 170 LPM discharge				
	at 110 to 46 m head & (max. efficiency at 83 m head & 130 lpm) discharge & delivery pipe of Size-65 mm diameter with a necessary H type clamps as per specification no.				
	WP-SMP				
	Rate as per PWD Elec. SSR 2021-22/12-2-70 (Page No. 216)	1.00		34,473.00	
	Deduct For labour amenities & cess 2%	0.02		689.46	-
	Net rate			33,783.54	-
	Add 5% Malegaon Bk Nagar panchayat charges	0.05		1,689.18	
	Add for Labour aminities and cess			689.46	-
	Completed Rate			36162.18	Nos
6	Providing and Supplying Blue MDPE pipes conforming to ISO				
	4427:1996 manufactured from virgin resin PE 80 Food grade				
	compounded Raw Material having Blue Colour only with quality				
	assurance certificate from quality agencies like WRC / CIPET (India) /				
	DVGM / KIWA / SPGN etc. for usage in Drinking Water system. The				
	cost shall include testing of all materials, Inspection charges,				
	transportation up to store, transit insurance, loading, as specified and				
	directed, unloading, stacking excluding GST levied by GOI & GOM in all				
	respect, etc. complete as specified and directed. 63 mm				
	r r r r r r r r r r r r r r r r r r r				
	Rate as per MJP SSR 2021-22 ( Page No. 118 )	1.00		184.00	
	Deduct For labour amenities & cess 2%	0.02		3.68	-
	Net rate			180.32	-
	Add 4% Malegaon Bk Nagar panchayat charges	0.04		7.21	
	Add for Labour aminities and cess			3.68	-
	Completed Rate			191.21	Rmt
7	providing and errecting Drip irrigation pipe of 16 mm with Class I - 8				
	Years Life Drip Pipe 0.72mm wall thickness				
	Rate as per market rate	1.00		24.00	
	Completed Rate			24.00	Rmt
8	www.idiu.co.o.d.owe.ctiv.c.4.5.Mer.Online.Drive.ov.For.Drive.Leviewtier.				
	providing and errecting 4.5 Mm Online Dripper, For Drip Irrigation				
	with all necessary fitting e.g bent, coupler etc completed	1.00		2.40	
	10% of pipe cost	1.00		2.40	lumsun
	Completed Rate				

Nagar panchayat								
	Measurem	ent						
I.No	Item	Nos	L	W	Н	Total	Unit	
1	Planting large flowering / shady trees( Ht.2 mtr.) Digging pit with size 0.9 X 0.9m X 0.9 m removing and conveying unwanted stuff to a required distance as directed. Filling the pit with approved distance as directed Filling the pit with approved height o	2200				5462	Nos	
2	Providing Fixing 6 feet height M.S tree Guard With 2 feet dia with excavation etc. complete ( As per rate Quotation)	1200				2000	Nos	
3	Boring/drilling bore well of 300mm dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of a	1100	60			2340	Rmt	
4	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well- casing pipe of 150mm dia, conforming to IS:12818, including required hire and labor charges, fittings & accessories etc. all complete, for all dep	220	25			975	Rmt	
5	Supplying and erecting submersible pump set of 3.75 KW/5 HP with 415 V, 50 c/s AC supply suitable for 100 mm dia. borewell suitable for 85 to 170 LPM discharge at 110 to 46 m head & (max. efficiency at 83 m head & 130 lpm) discharge & delivery pipe of Size	10				29	Nos	
6	Providing and Supplying Blue MDPE pipes conforming to ISO 4427:1996 manufactured from virgin resin PE 80 Food grade compounded Raw Material having Blue Colour only with quality assurance certificate from quality agencies like WRC / CIPET (India) / DVGM /	1200				2418	Rmt	
7	providing and erecting Drip irrigation pipe of 16 mm with Class I - 8 Years Life Drip Pipe 0.72mm wall thickness (Total No. tree x 3 m) spacing	6100	6000			6000	Rmt	
8	providing and erecting 4.5 Mm Online Dripper, For Drip Irrigation with all necessary fitting e.g bent, coupler etc completed 10% of pipe cost	6100	6000			6000	Lumsui	
9	Maintenance for Three year of planted of trees by open spaces including farm yard/ manure, pesticides watering etc. Complete AS per RA	3				3	Years	
10	3 Mali For Maintained for 3 years (3 mali for 3 years=312 days x 3 years x 3 nos. )=2808 days	2808	3	6		2808	Days	

Malegaon Bk Nagar panchayat							
Name of Work - Tree plantation to increase Green Cover of city for Malegaon Bk Nagar panchayat							
Measurement							
11 Material required for maintenace of tree planted= 1% of total cost	1			1	Lumsum		
Tree Officer							

## Name of Work - Tree plantation to increase Green Cover of city for Malegaon Bk Nagar panchayat

Rate analysis for Tanker water supply

Maintenance for one year of planting of trees by road side and open spaces including farm yard/ manure, pesticides watering etc. complete.

The Rate Analysis for maintaining the 1000 trees

A) Watering-

Water Tanker 9000 Liter (PWD SSR 2021-22)

Hire charges ot tanker per day

i) Tanker Charges Rs. 844.95/Hr. (PWD SSR 2021-22)

Rs. 844.95 x 4 (Hours) = 3380/ Day

II) Labor Charges Rs. 579 /day (PWD SSR 2021-22)

1 x 579 = 579

i) + ii) = 3380 +579 =3959 per day

for 9 month x 1 trips in day 2 week x per trip =

9 x 1 x 2 x 3959 =71,262......(A)

#### B) Farm Yard Manure

After 6 month

1 x 500 x 0.1 = 50 cum

50 x 775 = 38750/-.... (B)

PWD Horti DSR 2016-17

C) Pesticides and Fertilizer, Mulching, old fixed tree guard maintenance, Tree pruning

Lum sump 9 month x Rs. 2000/ month = 18000/-For 9 month ......(C)

i.e Rate for maintenance, watering, farm yard manure, pesticides for 9 month for 1000 tress

A + B +C = 71262+38750+18000

128012

128012 for 1000 tress/ 9 month

128012/9/1000

14.22/ tree/month

For number of trees watering by Tankers

840

For 1 Year =12\*840\*14.22

143337.6

For three Years = 3 x 12 x 840 x 14.22

Name of Work - Tree plantation to increase Green Cover of city for Malegaon Bk Nagar panchayat

#### Rate analysis for Tanker water supply

430012.8

Maintenance Of all trees for Three Years-

430012.8

RECAPITULATION SHEET							
Cost of Softsco	pe	Rs.	1650078.56				
T	otal Rs.	Rs.	1650078.56				
G S T on Work Portion	12%	Rs.	198009.43				
Royalty Charges		Rs.	6833.16				
Testing Charges		Rs.	3390.00				
1% labor Insurance	1%	Rs.	16500.79				
	Total Rs		1874811.93				
	Say	y As	1874812	/-			
	I						

### Name of Work - Nursery Development work for Malegaon Bk Nagar panchayat

### Abstract

Sr. no	Description of Item	Quantity	Rate	Unit	Total Amount in Rs.
1	Providing and fabricating structural steel work in rolled sections like joists, channels, angles, tees etc. as per detailed design and drawings or as directed including cutting, fabricating, hoisting, erecting, fixing in position making riveted / bolted /welded connections without connecting plates, braces etc. and including one coat of anticorrosive paint and over it two coats of oil painting of approved quality and shade etc. complete. SSR 2021- 22 Item No.23.01	3.03	92,676.90	M.T.	2,80,968.54
2	Providing and fixing crimped with G.I. mesh and size 20 mm x 20mm 10 gauge to iron angle frame including welding crimp mesh to angle frame and steel flat, fixing the frame in its original position and oil painting etc. complete ( excluding cost of structural steel) SSR 2021-22 Item No.44.21	107.20	648.46	Sqm.	69,515.00
3	Providing and fixing Argo shed net of green texture with light filtration capacity of 75% including all as directed by engineerin charge etc. complete. Rate As per Gem Portal	168.00	50.00	Sqm.	8,400.00
4	Providing and fixing mild steel grill gate as per the detailed drawing including hinges, locking arrangements and painting in three coats of oil paint of approved color and shade etc. complete.(weight 18 Kilogram. to 20 Kilogram. Per Sq.m.) Spec.Number: As directed by Engineer- in-charge.	6.00	1,992.15	Sqm.	11,952.88
5	Excavation for foundation in earth, soils of all types, sand, gravel, soft murum including shoring and strutting, dewatering as necessary and disposing off excavated stuff as directed etc. complete. (By/manual Means) a) Up to 1.50m lift Normal Rate	59.40	233.82	Cum	13,888.91
6	Providing dry/ trap/ granite/ quartzite/ gneiss rubble stone soling 15 cm to 20 cm thick including hand packing and compacting etc. complete	11.39	1,685.41	Cum	19,188.45

### Name of Work - Nursery Development work for Malegaon Bk Nagar panchayat

### Abstract

Sr. no	Description of Item	Quantity	Rate	Unit	Total Amount in Rs.
7	Providing and laying Cast in situ/Ready Mix cement concrete in M- 10 of trap/granite/quartzite/gneiss metal for foundation and bedding including bailing out water, Steel centering, formwork, laying/pumping, compacting, roughening them if special finish is to be provided, finishing if required and curing complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	4.95	6,166.08	Cum	30,522.09
8	Providing and laying Cast in situ/Ready Mix cement concrete M- 20 of trap / granite/ quartzite/gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed including steel centering, formwork, cover blocks, laying/ pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel). with fully automatic micro process or based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	37.32	7,135.16	Cum	2,66,305.40
9	Providing and laying Cast in situ/Ready Mix cement concrete M- 20 of trap / granite/ quartzite/gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed including steel centering, formwork, cover blocks, laying/ pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel). with fully automatic micro process or based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	0.54	14,016.74	Cum	7,569.04
10	Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete	0.39	74,591.70	Cum	29,336.91

	Name of Work Nursony Development work for Malegaan Dr Nager pershavet									
	Name of Work - Nursery Development work for Malegaon Bk Nagar panchayat									
	Abstract									
Sr. no	Description of Item	Quantity	Rate	Unit	Total Amoun in Rs.					
	Labor and maintenance cost									
11	4 Mali For Maintained for 1 years (4 mali for 1 years=365 days x 1 year's x 4 nos. )=1460 days PWD SSR 2021-22/62-P.No-387	1460	611	Days	892060					
	Total Amount				16,29,707.2					
12	Material required for maintenance of tree planted= 1.25% of total cost	1.25%	16,29,707.22	Lum sum	20371.34					
	Total Amount				16,50,078.5					
13	Royalty				6833.16					
	Total Royalty				16,56,911.7					
		II		<u> </u>						
	Tree Officer									

	Name of	Work - N	ursery De	evelopmen	ıt work for	Malegaon	Bk Nagar	panchayat
				Measu	irement			
1	Item No-1							
	Providing and fab as per detailed d erecting, fixing in braces etc. and in approved quality	esign and position n cluding on	drawings naking rive e coat of an	or as direc ted / bolted tticorrosive	ted includin /welded se paint and ov	ng cutting, f ctions with ver it two co	abricating, l out connect	noisting, ing plates,
	Shed size							
	Sheu Size	20 m	х	15 m				
		20 m	<u>A</u>	Nos	L/H	Total Qty	Unit	
	Main Support			1105	2/11	Total Qty	ome	
	Short Side							
	Side A			5	4	20	Rmt	
	Side B	<u> </u>		5	4	20	Rmt	
	Long Side				· ·	_~		<u> </u>
	Side C			5	4	20	Rmt	
	Side D			5	4	20	Rmt	
	Top Support			5	-	20	Tunt	
	Short Side							
	Side A			7	15	105	Rmt	
	Long Side			,	15	105	Riffe	
	Side C			5	20	100	Rmt	
	Middle Support			5	20	100	Kille	
	Long Side			2	20	40	Rmt	
	Short Side			2	15	30	Rmt	
	Short Side				15	50	Killt	
					Total Qty	355	Rmt	
	Square Pipe weig	ht per run	ning meter					
	60 mm x 60 mm x	x 5 mm		8.54	kg/m			
					TOTAL WE	IGHT	3031.7	0
							3.03	МТ
2	Item No-2							
	Providing and fixing including welding position and oil No.44.21	g crimp me	sh to angle	frame and	steel flat, fix	ing the fran	ne in its oi	riginal
		l		1	20	1.6	32	Sqm
				1	17	1.6	27.2	Sqm
				2	15	1.6	48	Sqm
						Total Qty	107.2	Sqm

			Меа	asurement	t		
	Item No- 3						
3	Providing and fixing directed by engineer	•	-	-		pacity of 75	5% including all a
			2	20	2.4	96	Sqm
			2	15	2.4	72	Sqm
					Total Qty	<sup>7</sup> 168	Sqm
_							
4	Item No- 4 Providing and fixing						
	arrangements and pa complete.(weight 18 charge.	-	Kilogram.	Per Sq.m.) S	pec.Number: A	As directed	by Engineer- in-
5	Gate Item No- 5		1	3	2	6	Sqm
	shed footing						
		20	1.5	1.5	1.2	54	Cum
	gate footing		1.0	1.5	1.2	51	Guin
		2	1.5	1.5	1.2	5.4	Cum
					Total	59.4	Cum
6	Item No- 6						
	Providing dry/ trap/ hand packing and cor	0 / 1	, 0	rubble ston	e soling 15 cm	to 20 cm th	nick including
	Shed footing	20	1.5	1.5	0.23	10.35	Cum
	gate footing					+	
		2	1.5	1.5	0.23	1.035	Cum
					Total	11.385	Cum
						-	
7	Item No- 7	0	1.10				
7	Item No- 7 Providing and laying gneiss metal for foun laying/pumping, com and curing complete, Drum Type mixer/co sand VSI Grade)	dation and bed pacting, rough with fully auto	ding includi ening them matic micro	ing bailing o if special fin processor l	out water, Stee hish is to be pr based PLC wit	l centering, ovided, finis h SCADA en	formwork, shing if required abled reversible
7	Providing and laying gneiss metal for foun laying/pumping, com and curing complete, Drum Type mixer/co	dation and bed pacting, rough with fully auto	ding includi ening them matic micro	ing bailing o if special fin processor l	out water, Stee hish is to be pr based PLC wit	l centering, ovided, finis h SCADA en	formwork, shing if required abled reversible
7	Providing and laying gneiss metal for foun laying/pumping, com and curing complete, Drum Type mixer/co sand VSI Grade)	dation and bed pacting, rough with fully auto ncrete Batch m	ding includi ening them matic micro ix plant (Pa	ing bailing o if special fin processor l n mixer) etc	ut water, Stee hish is to be pr based PLC wit c. complete. W	l centering, ovided, finis h SCADA en ith fine aggi	formwork, shing if required abled reversible regate (Crushed

				Mea	surement			-
				_				
3	Item No- 8			1 14		·		
	Providing and la granite/quartzit		,	-				a in also din a
	bailing out water finish is to be pro Cement Mortar 1 laid concrete sha allowed.), with fi mixer/ concrete Grade)	r, Steel cent ovided, finis 1:3 plaster i all be covere ally automa	ering, forr shing unev s consider ed by gunr ttic micro j	nwork, lay ven and hou ed for rend ny bag, plas processor l	ing/ pumpin neycombed s dering uneve stic, tarpaulin based PLC w	g, compacti surface and n and hone n etc. (Wood ith SCADA e	ng, roughenin curing etc. co y combed sun den centering enabled rever	ng them if spec omplete. The face only. New will not be sible Drum Ty
	ah ad faating			1.3		0.87		Gun
	ISHEA IAAHAO		170	113	115	$\Pi \Lambda /$	133.93	IUIIM
	shed footing		20	_	1.5		33.93	Cum
	gate footing		20	1.3	1.5	0.87	3.393	Cum
				_				
€		olumns as blocks, lay fficient min ovided and	2 situ/Read per detaile ing/ pump imum thic curing etc	1.3 ly Mix cem ed designs a bing, compa kness to gi . complete.	1.5 ent concrete and drawing action finish ve a smooth (Excluding 1	0.87 Total e M-20 of tra or as directing the form and even sure reinforcement	3.393 37.323 ap / granite/ ted including ned surfaces y urface or roug ent and struct	Cum Cum quartzite/gnei steel centering with cement ghening if spec cural steel). wit
9	gate footing Item No- 9 Providing and la metal for R.C.C. of formwork, cover mortar 1:3 of sub finish is to be pro-	olumns as blocks, lay fficient min ovided and nicro proce	2 situ/Read per detaile ing/ pump imum thic curing etc ss or base	1.3 ly Mix cem ed designs a bing, compa kness to gi . complete. d PLC with	1.5 ent concrete and drawing action finishi ve a smooth (Excluding i SCADA enab	0.87 Total e M-20 of tra or as direct ing the form and even su reinforceme oled reversi	3.393 37.323 ap / granite/ ted including ned surfaces y urface or roug ent and struct ble Drum Typ	Cum Cum quartzite/gnei steel centering with cement ghening if spec cural steel). wit be mixer/
9	gate footing Item No- 9 Providing and la metal for R.C.C. of formwork, cover mortar 1:3 of suf finish is to be pro- fully automatic r	olumns as blocks, lay fficient min ovided and nicro proce	2 situ/Read per detaile ing/ pump imum thic curing etc ss or base	1.3 ly Mix cem ed designs a bing, compa kness to gi . complete. d PLC with	1.5 ent concrete and drawing action finishi ve a smooth (Excluding i SCADA enab	0.87 Total e M-20 of tra or as direct ing the form and even su reinforceme oled reversi	3.393 37.323 ap / granite/ ted including ned surfaces y urface or roug ent and struct ble Drum Typ	Cum Cum quartzite/gnei steel centering with cement ghening if spec cural steel). wit be mixer/
_	gate footing Item No- 9 Providing and la metal for R.C.C. of formwork, cover mortar 1:3 of sub finish is to be pro- fully automatic r concrete Batch m gate Column	olumns as blocks, lay fficient min ovided and nicro proce	2 situ/Read per detaile ing/ pump imum thic curing etc ss or base an mixer)	1.3 dy Mix cem ed designs a bing, compa kness to gi . complete. d PLC with etc. comple	1.5 ent concrete and drawing action finish ve a smooth . (Excluding r SCADA enab ete. With fine	0.87 Total e M-20 of tra or as direct ing the form and even su reinforceme oled reversi e aggregate	3.393 37.323 ap / granite/ ted including ned surfaces v urface or roug ent and struct ble Drum Typ (Crushed sar	Cum Cum quartzite/gnei steel centering with cement ghening if spec cural steel). wit be mixer/ nd VSI Grade)
_	gate footing Item No- 9 Providing and la metal for R.C.C. of formwork, cover mortar 1:3 of suf- finish is to be pro- fully automatic ri- concrete Batch ri- gate Column Item No- 10	olumns as blocks, lay fficient min ovided and nicro proce nix plant (P	2 situ/Read per detaile ing/ pump imum thic curing etc ss or base an mixer)	1.3 ly Mix cem ed designs a bing, compa kness to gi complete. d PLC with etc. complet 0.45	1.5 ent concrete and drawing action finishive a smooth (Excluding r SCADA enable ete. With fine	0.87 Total PM-20 of tra or as direct ing the form and even sur- reinforcement oled reversi e aggregate 2 2	3.393 37.323 ap / granite/ ted including ned surfaces v urface or roug ent and struct ble Drum Typ (Crushed sar 0.54	Cum Cum quartzite/gnei steel centering with cement ghening if spec cural steel). wit be mixer/ nd VSI Grade)
9	gate footing Item No- 9 Providing and la metal for R.C.C. of formwork, cover mortar 1:3 of sub finish is to be pro- fully automatic r concrete Batch m gate Column	olumns as j blocks, lay fficient min ovided and nicro proce nix plant (P king in posi undations, hes etc. as j	2 situ/Read per detaile ing/ pump imum thic curing etc ss or base an mixer) 2 2 tion TMT - slabs, beau per detaile	1.3 ly Mix cem ed designs a bing, compa kness to gi complete. d PLC with etc. complet 0.45 FE - 500 b ms column d designs,	1.5 ent concrete and drawing action finishive a smooth (Excluding r SCADA enable ete. With fine 0.3 0.3 oar reinforce s, canopies, s drawings an	0.87 Total PM-20 of tra or as direct ing the form and even sur- reinforcement oled reversi e aggregate 2 2 ment of var- staircase, ner- d schedules	3.393 37.323 ap / granite/ ted including ned surfaces v urface or roug ent and struct ble Drum Typ (Crushed sar 0.54 ious diamete ewels, chajjas s. including cu	Cum Cum quartzite/gnei steel centering with cement ghening if spec cural steel). with be mixer/ nd VSI Grade) Cum cum s for R.C.C. pill , lintels pardis, utting, bending
_	gate footing Item No- 9 Providing and la metal for R.C.C. of formwork, cover mortar 1:3 of suf finish is to be pro- fully automatic r concrete Batch r gate Column Item No- 10 Providing and fix caps, footings, foo copings, fins, arc hooking the bars	olumns as j blocks, lay fficient min ovided and nicro proce nix plant (P king in posi undations, hes etc. as j	2 situ/Read per detaile ing/ pump imum thic curing etc ss or base an mixer) 2 2 tion TMT - slabs, beau per detaile ith wires of	1.3         ly Mix cemed         ed designs and the second	1.5 ent concrete and drawing action finishive a smooth (Excluding r SCADA enable ete. With fine 0.3 0.3 0.3 0.3	0.87 Total PM-20 of tra or as direct ing the form and even sur- reinforcement oled reversi e aggregate 2 2 ment of var- staircase, ner- d schedules	3.393 37.323 ap / granite/ ted including ned surfaces we urface or roug ent and struct ble Drum Typ (Crushed sar 0.54 ious diamete ewels, chajjas s. including cur required com	Cum Cum quartzite/gnei steel centering with cement ghening if spec cural steel). with be mixer/ nd VSI Grade) Cum cum s for R.C.C. pill , lintels pardis, utting, bending
_	gate footing Item No- 9 Providing and la metal for R.C.C. of formwork, cover mortar 1:3 of suf- finish is to be pro- fully automatic r concrete Batch m gate Column Item No- 10 Providing and fiz- caps, footings, foo- copings, fins, arc hooking the bars	olumns as j blocks, lay fficient min ovided and nicro proce nix plant (P king in posi undations, hes etc. as j	2 situ/Read per detaile ing/ pump imum thic curing etc ss or base an mixer) 2 2 tion TMT - slabs, bean per detaile ith wires of 3.393	1.3         ly Mix cem         ed designs a         bing, compare         kness to gi         complete.         d PLC with         etc. complete.         0.45         FE - 500 b         ns column         d designs, or tack wel         100	1.5         Image: lent concrete and drawing action finishing and support of the second seco	0.87 Total PM-20 of tra or as direct ing the form and even sur- reinforcement oled reversi e aggregate 2 2 ment of var- staircase, ner- d schedules	3.393 37.323 ap / granite/ ted including ned surfaces warfaces warface or rougent and struct ble Drum Typ (Crushed sar 0.54 0.54 ious diamete ewels, chajjas s. including cur required com	Cum Cum quartzite/gnei steel centering with cement ghening if spec cural steel). with be mixer/ nd VSI Grade) Cum cum s for R.C.C. pill , lintels pardis, utting, bending
_	gate footing Item No- 9 Providing and la metal for R.C.C. of formwork, cover mortar 1:3 of suf finish is to be pro- fully automatic r concrete Batch m gate Column Item No- 10 Providing and fix caps, footings, foo copings, fins, arco hooking the bars	olumns as j blocks, lay fficient min ovided and nicro proce nix plant (P king in posi undations, hes etc. as j	2 situ/Read per detaile ing/ pump imum thic curing etc ss or base an mixer) 2 2 tion TMT - slabs, beau per detaile ith wires of	1.3         ly Mix cemed         ed designs and the second	1.5 ent concrete and drawing action finishive a smooth (Excluding r SCADA enable ete. With fine 0.3 0.3 0.3 0.3	0.87 Total PM-20 of tra or as direct ing the form and even sur- reinforcement oled reversi e aggregate 2 2 ment of var- staircase, ner- d schedules	3.393 37.323 ap / granite/ ted including ned surfaces we urface or roug ent and struct ble Drum Typ (Crushed sar 0.54 ious diamete ewels, chajjas s. including cur required com	Cum Cum quartzite/gnei steel centering with cement ghening if spec cural steel). with be mixer/ nd VSI Grade) Cum cum s for R.C.C. pill , lintels pardis, utting, bending

	Rate Analysis for Nursary / Malegaon Bl	k Nagai	<sup>r</sup> panchaya	at	
ltem No.	Description of Item	% of	Basic Rate	Rate component	Unit
	Providing and <b>fabricating structural steel work</b> in rolled sections like joists, channels, angles, tees etc. as per detailed design and drawings or as directed including cutting, fabricating, hoisting, erecting, fixing in position making riveted / bolted /welded connections without connecting plates, braces etc. and including one coat of anticorrosive paint and over it two coats of oil painting of approved quality and shade etc. complete. SSR 2021-22 Item No.23.01 Rate as per SSR 2021-22 Deduct For labor amenities & cess 2% Net rate	1.00	97 207 20	89,181.00 1,783.62 87,397.38	
	Add 4% Nagar panchayat charges Add for Labor amenities' and cess	0.04	87,397.38	3,495.90 1,783.62	
	Completed Rate			92676.90	М.Т.
2	Providing and fixing crimped with <b>G.I. mesh and size 20 mm x</b> <b>20mm 10 gauge to iron angle fram</b> e including welding crimp mesh to angle frame and steel flat, fixing the frame in its original position and oil painting etc. Complete ( excluding cost of structural steel) SSR 2021-22 Item No.44.21				
	Rate as per SSR 2021-22	1.00		624.00	
	Deduct For labor amenities & cess 2%	0.02		12.48	
	Net rate			611.52	
	Add 4% Nagar panchayat charges	0.04	611.52	24.46	
	Add for labor amenities' and cess			12.48	
	Completed Rate			648.46	M.T.
	Prov <b>iding and fixing Argo shed</b> net of green texture with light filtration capacity of 75% including all as directed by engineer incharge etc. complete				
	Gem Rate per Sqm. (Material)	1.00		50.00	
4	<b>Completed Rate</b> Providing and fixing mild steel grill gate as per the detailed drawing including hinges, locking arrangements and painting in three coats of oil paint of approved color and shade etc. complete.(weight 18 Kilogram. to 20 Kilogram. Per Sq.m.) Spec.Number: As directed by Engineer- in-charge.			50.00	Sqm.
	Rate as per SSR 2021-22/23.09	1.00		1,917.00	
	Deduct For labour amenities & cess 2%	0.02		38.34	
	Net rate			1,878.66	
	Add 4% Nagar panchayat charges	0.04	1,878.66	75.15	
	Add for Labour amenities' and cess			38.34	
	Completed Rate			1992.15	Sqm.
	Excavation for foundation in earth, soils of all types, sand, gravel, soft murum including shoring and strutting, dewatering as necessary and disposing off excavated stuff as directed etc. complete. (By/manaual Means) a) Upto 1.50m lift Normal Rate				
	Rate as per SSR 2021-22/12.02	1.00		225.00	

ltem No.	Description of Item	% of	Basic Rate	Rate component	Unit
110.				component	
	Deduct For labor amenities & cess 2%	0.02		4.50	
	Net rate			220.50	
	Add 4% Nagar panchayat charges	0.04	220.50	8.82	
	Add for Labor amenities and cess	0.01		4.50	
	Completed Rate			233.82	Cum
	Providing dry/ trap/ granite/ quartzite/ gneiss rubble stone				
6	soling 15 cm to 20 cm thick including hand packing and				
-	compacting etc. complete				
	Rate as per SSR 2021-22/21.38	1.00		1,294.00	
	Deduct For labor amenities & cess 2%	0.02		25.88	
	Net rate	0.02		1,268.12	
	Add lead for Metal =1x340.69			340.69	
	Add 4% Nagar panchayat charges	0.04	1,268.12	50.72	
	Add for Labor amenities and cess	0.04	1,200.12	25.88	
	Completed Rate			1685.41	Cum
	Providing and laying Cast in situ/Ready Mix cement concrete in			1005.41	Cull
	M-10 of trap/ granite/ quartzite/ gneiss metal for foundation				
	and bedding including bailing out water, Steel centering,				
	formwork, laying/ pumping, compacting, roughening them if				
	special finish is to be provided, finishing if required and curing				
'	complete, with fully automatic micro processor based PLC with				
	SCADA enabled reversible Drum Type mixer/concrete Batch mix				
	plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)				
	,	1.00		E E 28 00	
	Rate as per SSR 2021-22/24.01 Deduct For labor amenities & cess 2%	1.00 0.02		5,538.00	
		0.02		110.76	
	Net rate			5,427.24	
	Add lead for Metal =0.2x355.50 Add lead for sand =0.47x723.17			71.10	
		0.04	F 407 04	339.89	
	Add 4% Nagar panchayat charges	0.04	5,427.24	217.09	
	Add for Labor amenities' and cess			110.76	0
	Completed Rate			6166.08	Cum
	Providing and laying Cast in situ/Ready Mix cement concrete in				
	M20 of trap/ granite/quartzite /gneiss metal for bed blocks,				
	foundation blocks and such other items including bailing out				
	water, Steel centering, formwork, laying/ pumping, compacting,				
	roughening them if special finish is to be provided, finishing				
	uneven and honeycombed surface and curing etc. complete.				
8	The Cement Mortar 1:3 plaster is considered for rendering				
_	uneven and honey combed surface only. Newly laid concrete				
	shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden				
	centering will not be allowed.), with fully automatic micro				
	processor based PLC with SCADA enabled reversible Drum Type				
	mixer/ concrete Batch mix plant (Pan mixer) etc. complete.				
	With fine aggregate (Crushed sand VSI Grade)				
	Rate as per SSR 2021-22/24.06	1.00		6 265 00	<u> </u>
	Deduct For labor amenities & cess 2%			6,365.00 127.30	
	Deduct Ful Iabul alleliitles & Less Z%	0.02		127.30	
	Net rate			6,237.70	

ltem No.	Description of Item	% of	Basic Rate	Rate component	Unit
	Add lead for sand =0.425x723.17			307.35	
	Add 4% Nagar panchayat	0.04	6,237.70	249.51	
	Add for labor amenities and cess			127.30	
	Completed Rate			7135.16	Cur
	Providing and laying Cast in situ/Ready Mix cement concrete M-				
	20 of trap / granite/ quartzite/gneiss metal for R.C.C. columns				
	as per detailed designs and drawing or as directed including				
	steel centering, formwork, cover blocks, laying/ pumping,				
	compaction finishing the formed surfaces with cement mortar				
•	1:3 of sufficient minimum thickness to give a smooth and even				
9	surface or roughening if special finish is to be provided and				
	curing etc. complete. (Excluding reinforcement and structural				
	steel). with fully automatic micro process or based PLC with				
	SCADA enabled reversible Drum Type mixer/ concrete Batch				
	mix plant (Pan mixer) etc. complete. With fine aggregate				
	(Crushed sand VSI Grade)				
	Rate as per SSR 2021-22/25.31	1.00		12,987.00	
	Deduct For labor amenities & cess 2%	0.02		259.74	
	Net rate			12,727.26	
	Add lead for Metal =0.6x355.50			213.30	
	Add lead for sand =0.425x723.17			307.35	
	Add 4% Nagar panchayat charges	0.04	12,727.26	509.09	
	Add for labor amenities' and cess			259.74	
	Completed Rate			14016.74	Cur
	Providing and fixing in position TMT - FE - 500 bar				
	reinforcement of various diameters for R.C.C. pile caps,				
	footings, foundations, slabs, beams columns, canopies,				
10	staircase, newels, chajjas, lintels pardis, copings, fins, arches				
	etc. as per detailed designs, drawings and schedules. including				
	cutting, bending, hooking the bars, binding with wires or tack				
	welding and supporting as required complete				
	Rate as per SSR 2021-22/26.33	1.00		71,778.00	
	Deduct For labor amenities & cess 2%	0.02		1,435.56	
	Net rate			70,342.44	
	Add 4% Nagar panchayat charges	0.04	70,342.44	2,813.70	
	Add for labor amenities' and cess			1,435.56	
	Completed Rate			74591.70	Cur

## Name of Work - Nursery Development work for Malegaon Bk Nagar panchayat

#### LEAD CHARGE

## Malegaon Bk Nagar panchayat

### PWD S S R 2021-22

Sr. No.	Description	Murum	Rubble	Crush Metal	Sand
1 1	2	4	5	6	7
1	Avg. lead as per Quarry chart	5.00	15.00	15.00	45.00
2	Lead Charges	220.06	340.69	355.5	723.17
3	Extra lead charge	220.06	340.69	355.50	723.17

						Tota	al	
Sr. No.	Item in Brief	Quantity	Factor	UNIT	Murrum	Stone	Sand	Crush Metal
					Cum	Cum	Cum	Cum
1	2	4	5	6	7	8	9	10
1	Rubble Stone Soling	11.385	1.00			11.39		
2	M 20 Grade Concrete	37.323+0.5	54					
	Sand	37.863	0.425				16.092	
	Metal	37.863	0.60					22.718
3	P.C.C. M 10 with Natural Sand							
	Sand	4.95	0.47				2.327	
	Metal	4.95	0.20					0.99
			То	tal	0.00	11.39	18.42	23.71
					Murrum	Stone	Sand	Crush Metal
	Roya	Ity Cha	rt					
S.No	Material	Quantity	Rate Rs	Unit	Total Ro	oyalty		
1	Murrum	0.00	216.18	Cum	0.0	0		
2	Stone	11.39	216.18	Cum	2461	.21		
3	Sand	18.42	237.37	Cum	4371	.95		
	Total Royalty	29.80			6833.16			
	i otal i to jailij							

#### Name of Work - Nursery Development work for Malegaon Bk Nagar panchayat

Laboratory testing Charges required for material testing on the basis of testing frequency and charges fixed by Vigilance and quality control circle, or Govt or Collage Engineering for the current year

S. No	Particular Kind of Material	Qty	Unit	Name of Test	Frequency	No. of Test Req,	30% Test to be Taken in Lab	Rate	Amount	
1	Prov. C. C. M-20	0	Cum	Compressive	One Set of 3	3	0.9	600	540	
	Cement Cubes			Strength	Cubes Per 50 Cum					
2	Metal		Cum	1 a) Sieve Analysis, b) Water Absorption, c)Specific Gravity, d) Impact Value, e) Crushing Value		2	1	2300	1380	
				2 a) Flakiness Index / b)Elongation Index		1	1	750	750	
3	Sand		Cum	1) Fineness Modulus, (Sieve Analysis), 2) Slit Content		2	1	1200	720	
						Total Testing Charges 3390				
Tree officer										

## **OPEN SPACE LIST**

अ.क्र.	नाव	गट न.	ओपन स्पेस
01	प्रफुल भिमदेव तावरे	643	$1776 \text{ m}^2$
02	निलेश दिलिप जगताप व इतर 2	672 पै.	900 m <sup>2</sup>
03	शिवाजी गुलाबराव तावरे	229 पै.	801.34 m <sup>2</sup>
04	जयकुमार छगनलाल मुथा	662 पै.	$4800 \text{ m}^2$
05	जयकुमार छगनलान मुथा	662 पै.	5688.14 m <sup>2</sup>
06	राजे वसुंधरा अमरसिंह जाधवराव	691,692,694,695,696,697	3920 m <sup>2</sup>
		,698,702	
07	सचिन रघुनाथ भोसले	215 पै.	910.12 m <sup>2</sup>
08	चेअरमन बारामती ता. स.दुध उत्पादक संघ	1107 (जुना) 551/2, 551/3	$2420 \text{ m}^2$
09	श्रीमती विमल देव	15 पै.	$770 \text{ m}^2$
10	विमल यशवंत तावरे	15 पै.	839.97 m <sup>2</sup>
11	दत्तात्रय दिनकर देवकाते	690 पै.	$1370 \text{ m}^2$
12	सिताराम विठ्ठल कारंडे	16/1	450.56 m <sup>2</sup>
13	विरेंद्रसिंह मानसिंहराव जाधवराव	698	$1626.44 \text{ m}^2$
14	सचिदानंद दत्तात्रय माळवदकर	240 पै.	$400 \text{ m}^2$
15	आबासाहेब महादेव कोंढाळकर	166	$400 \text{ m}^2$
16	संतोष ज्ञानदेव चाचर	560	$252 \text{ m}^2$
17	रविंद्र दिलिप धुमाळ	559 पै.	$250 \text{ m}^2$
18	अनुजा राजेंद्रकुमार गायकवाड	643	$1776 \text{ m}^2$
19	मोहनराव नाथबुवा जगताप	446/4	646 m <sup>2</sup>
20	निनाद भिमराव माने	570/12 पै.	380.10 m <sup>2</sup>