



73,000 LUNGS OF PALGHAR

PAL MIYAWAKI FOREST, PALGHAR, MAHARASHTRA



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In 1981, **Sardar Ascharj Singh Ahuja**, established Pal Fashions Private Limited's textile processing unit at MIDC, Tarapur. He turned the vacant part of the land into a lush patch, by planting trees and setting up a kitchen garden, making fruits and vegetables available for the canteen.

From 1999 onwards, **Pal Fashions** expanded largely through green manufacturing like emerising, dew drop printing, garmenting, setting up the world's latest technology in schiffli and multihead embroidery, and are today pioneering waterless printing.

The company stopped using fossil fuel in 2008. Thermic fluid heater and steam boiler are successfully operating **ONLY** on renewable energy i.e. bio-waste briquettes since 10 years. The huge reduction in emission of Green House Gases makes **Pal Fashions** eligible for **Carbon Credits**.

Since 2013 major efforts and investments have been made in evolving the wet processes to reduce water consumption by over **30%** through recycling and reuse.

After shrinking their carbon footprint and reducing the environmental impact, **Pal Fashions** has embarked on their most ambitious **SUSTAINABILITY** mission, a massive drive to plant many native species and to develop a dense forest with 1000s of trees through the Japanese technique pioneered by Dr Akira Miyawaki.

On 5th November 2016, the birth anniversary of **Sardarni Kulwant Kaur Ahuja**, the company planted over 2,500 saplings on MIDC plot OS-20. Since then **Pal Fashions** planted over 22,500 saplings, excellent growth and unprecedented survival rate of over 95% has been achieved. This **OXYGEN BANK** has more than **25,000 SURVIVING TREES** today.

TARAPUR FIRST, India's **Best Industrial Environment** is being built by **Pal Fashions** in collaboration with Maharashtra Industrial Development Corporation (**MIDC**), Tarapur Industrial Manufacturers' Association (**TIMA**) and Tarapur Environment Protection Society (**TEPS**) with a target of achieving **100,000 Lungs of Tarapur** by 2019. Presently there are over **64,000** trees spread across **10 forests** in the Tarapur industrial area.



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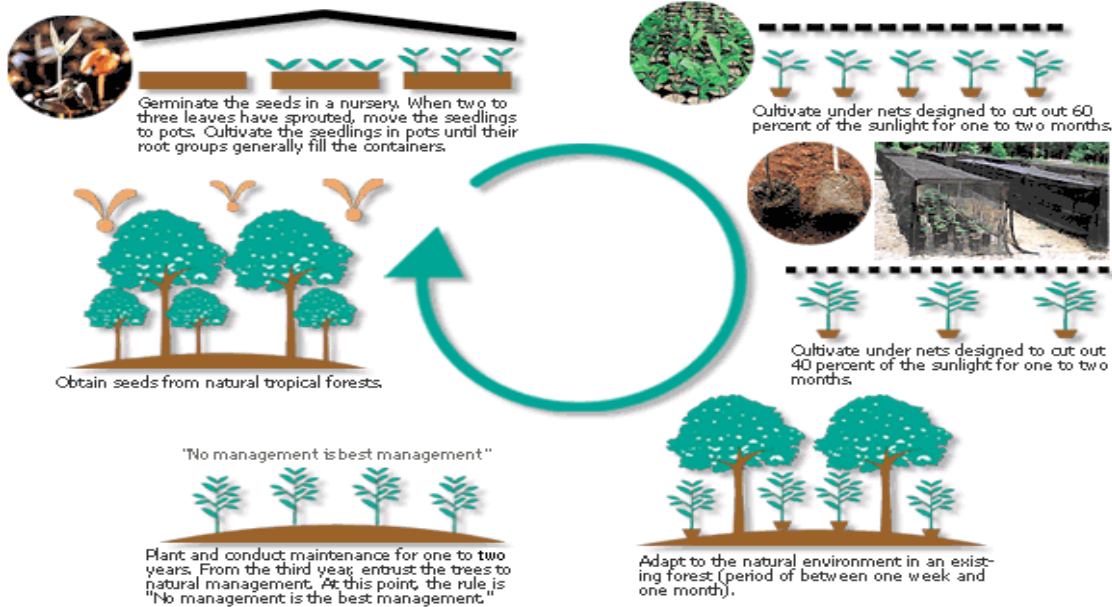
Dr Akira Miyawaki is a Japanese botanist and expert in plant ecology, specializing in seeds and the study of natural forests. He was active worldwide as a specialist in the restoration of natural vegetation on degraded land.

Seedlings or saplings with extensive root systems are randomly planted in densely mixed species that match natural forest systems. The trees reach four meters after 5 years, eight meters after 10 years and over 20 meters after 25 years.

Weeding and other human support for tree growth are required only for the first three years after planting.

The result is a diversified forest that is allowed to grow naturally after 3 years. According to Dr Miyawaki's theory of forest regeneration, the best forest management technique is no management at all.

The Miyawaki method for restoring tropical forests

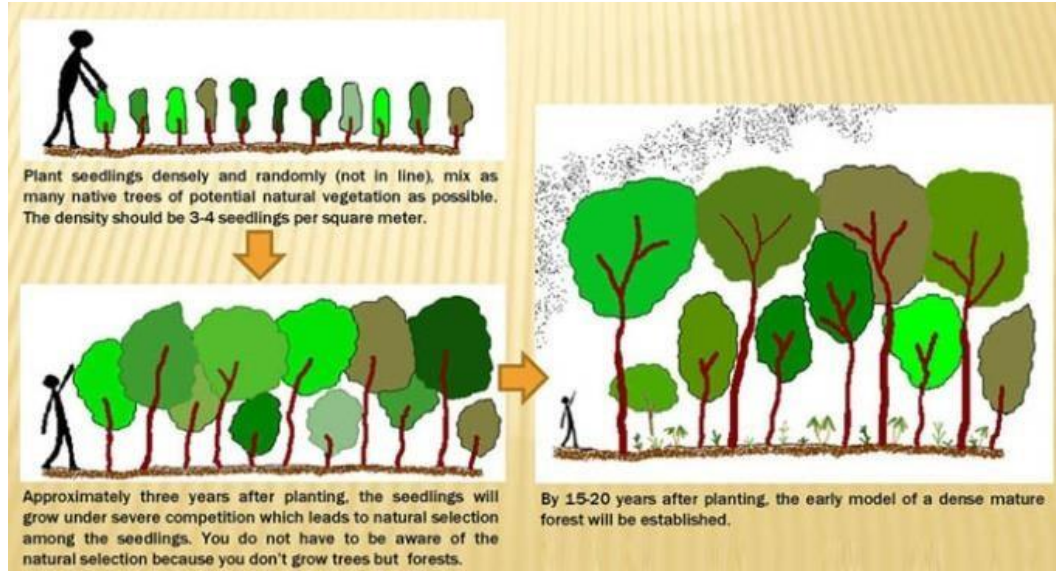


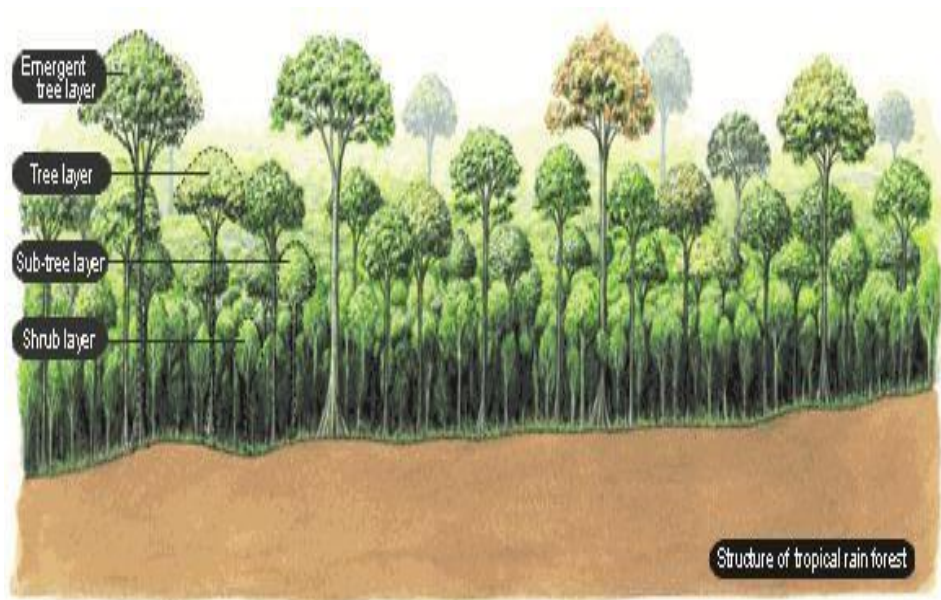
Miyawaki Method is a unique concept of Potential Natural Vegetation proven to work worldwide, irrespective of soil and climatic conditions. More than 4,000 forests have been successfully created worldwide using this method.

He has planted around 50 million trees all over the world, and in 2006 he won the Blue Planet Prize, equivalent to the Nobel Prize in the environmental field.

The main features of the **Miyawaki Method** are

- Upto thirty times more dense compared to conventional plantations.
- At least 50-100 different native species are planted in the same area.
- 30 times better noise and dust reduction.
- Upto 30 times better carbon-dioxide absorption as compared to a monoculture plantation.
- Guaranteed growth of atleast 1 meter every year.
- A completely maintenance-free, wild and native forest after the first 3 years.
- A completely chemical fertiliser free forest that sustains itself and supports local bio-diversity.





Miyawaki Method works in these six steps:

1. First, start with soil. To identify what nutrition the soil lacks.
2. Identify what species should be growing in this soil, depending on climate.
3. Then identify locally abundant biomass available in that region to give the soil whatever nourishment it needs. This is typically an agricultural or industrial byproduct, but it can be almost anything, it must come from within 50 kilometers of the site, which means we have to be flexible.
4. Once the soil is amended to a depth of one meter, plant saplings that are up to 80 centimeters high, packing them in very densely, 3 to 5 saplings per square meter.
5. The forest itself must cover a 100-square-meter minimum area. This grows into a forest so dense that after eight months, sunlight can't reach the ground. At this point, every drop of rain that falls is conserved, and every leaf that falls is converted into humus. The more the forest grows, the more it generates nutrients for itself, accelerating further growth. This density also means that individual trees begin competing for sunlight, another reason these forests grow so fast.
6. The forest needs to be watered and weeded for the first 2 or 3 years, at which point it becomes self-sustaining. After that, it's best to disturb the forest as little as possible to allow its ecosystem, including animals, to become established.



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Shubhendu Sharma, an experienced industrial engineer turned eco-entrepreneur, is the Founder & Director of **Afforestt**, a company which creates urban forests.

This journey started when he volunteered to assist Dr Akira Miyawaki, to cultivate a forest at the Toyota plant in Bangalore.

Using the unique Miyawaki Method to grow saplings, Afforestt converts any land into a self-sustainable forest in a couple of years. They have successfully created 111 forests in 7 years.

On 27th August 2017, he presented Enviro Creators Foundation's 1st Prize for Best Forest to Pal Miyawaki Forest.

The soil is amended before saplings are planted



A freshly planted sapling



A two-year-old forest



A bird visits Sharma's backyard forest





In April 2014, **Dipen Jain** and **Dr R K Nair** brought Shubhendu Sharma to Umargaon to create the 1st forest in Gujarat by using Miyawaki Method.

Since then, Dipen Jain and Dr R K Nair have planted over 320,000 trees. They formed the **Enviro Creators Foundation** which supports interested individuals and organizations to create forests in their neighbourhood.

Pal Fashions has received invaluable support from these highly committed environmentalists and shall carry out all plantation under their active guidance, to build India's largest man-made **OXYGEN BANK** in Palghar district of Maharashtra.



Miyawaki Method's 1st forest in the State of Gujarat



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PAL FORESTS TEAM AT WORK



उमरगावमना उद्योगपतिअे
5500 वृक्षोनुं रोपण कर्तुं
 तारापुर MIDC भाते वृक्षनुं रोपण कर्तुं
 भास्कर व्यूज | उमरगाव

गुजरातमां छकोडेन्डली मेन तरीके ज्ञशीता बनेवां उमरगाव अपेरल छन्डस्ट्रीयल असोशिएशनना प्रमुष अेवा उद्योगपति अने पर्यावरण प्रेमी राधा कुष्ण नायर द्वारा गुजरात भाद मडाराष्ट्र राज्यामां पण पोतानी सेवाभावी कामगीरीनुं सुकान वाण्युं छे.

सारा काम करवा छीय तो राज्याना सीमाडा नडतां नथी भूण दक्षिण भारतना वतनी अने उमरगावमां स्थाई थयेल राधा कुष्ण नायर द्वारा प्रजासत्ताक पर्व निमित्ते मडाराष्ट्र राज्याना तारापुर भाते ज्वाइडीसीमां आवेल 'पाल डेसन' नामक ज्ञशीती कंपनीनी अेक छिनउपयोगी जमीन ज्यां छन्डस्ट्रीयल वेस्ट नाभवामां आवतो छतो अे जमीन उपर त्रण दिवसमां 28 प्रजातिना विविध वृक्षना 5500 छोडोनुं जपनीस पद्धतिथी वृक्षारोपण करवामां आय्युं छतुं. आ निमित्ते 'पाल डेसन' कंपनीना अेम.डी. यरण आडुजा, स्टार्क, स्थानिक शाणाना 200 जेटला विद्यार्थीओ, स्थानिक आगेवानोअे डाजरी आपी वृक्षारोपण कार्यमां भाग लीधो छतो.

अवतीभवती

देशा
श्रमजीव

विरार, ता. ७ (बालमींदर) : 'ब्रमजीवी' ही सर्वे करणारी, माणसांवर संघटना आहे. संघटने प्रकारचा जातिभेद, धा नाही. ही संघटना व करणारी आहे. ज्या संघटना निर्माण केली संघटनेसाठी जे प्रयत्न त्या सर्वांना कुणजता माणसांवर प्रेम करीत देशाच्या उज्वल कर्तव्य होण्याचे आवा संघटनेच्या संस्थापक विद्युल्लता पंडित आणि विवेक पंडित यांनी केले.

श्रमजीवी संघटने वार्तापत्राविषयी कुण कायना सविधारी (ता पालघर, रायगड, मुंब नाशिक जिल्हातील ३०० हून अधिक पाठ्यांमध्ये साजरा करण या टिकटिकलण्या

बोईसर : 'पाल पॅशन' कारखाना परिसरात सुरू असलेली रोपांची लागवड.
 (छायाचित्र : मनोज पंडित)

बोईसर एमआयडीसीमधील 'पाल पॅशन'तर्फे रोपांची लागवड

बोईसर, ता. ७ (बालमींदर) : बोईसर एमआयडीसीमधील 'पाल पॅशन' या कारखान्याचे वरण आटुजा यांच्या मातोश्रींच्या वाढविवसांनिमित्त कारखान्याच्या परिसरात तीन हजार ५०० रोपे लागवडाला आली. या वृक्षारोपणाचे वैशिष्ट्य म्हणजे २४ वेगवेगळ्या जातींच्या रोपांची लागवड जपानी संजानामाे करणयात आली. या वेळी उमरगाव गावेंत असोशिएशनने आर.के. नायर हे उपस्थित होते. वेगवेगळ्या रीकतणी आकाराची लागवडल्या झाडांची संख्या ९० हजारोवर गेली जवळपावे 'पाल पॅशन' प्रशासनाने सांगितले.

वसई कॅथॉलिक सभेतर्फे गुणवंतांचा गौरव
 विरार, ता. ७ (बालमींदर) : गिरीज मेडॉल विरंगुळी केंद्रात वसई कॅथॉलिक सभेतर्फे वसईचे पदवीधर मुलगांचा गौरव करणयात

वसई पं
सभापती

PAL FORESTS TEAM AT WORK



PAL FORESTS TEAM AT WORK



SHRI AVINASH DHAKANE, DEPUTY CEO MIDC



BRAHMA KUMARIS BOISAR



SWAMI DR UMAKANTANAND SARASWATI JI
MAHARAJ OF JUNA AKHADA



ARCHITECT SHRI UJWAL BABRE OF
U A BABRE & ASSOCIATES



JOSEPH EBNOTER WORLD RENOWNED
PAINTER FROM SWITZERLAND



SHWETA CHAUDHARY MRS INDIA EARTH 2017



CSR ACTIVITY FOR 40 EXECUTIVES OF HSBC BANK ON 18TH NOVEMBER 2017 & 17TH NOVEMBER 2018



EXECUTIVES OF KPMG INDIA CSR ACTIVITY ON 2ND DECEMBER 2017



वृक्षवल्ली आम्हा सोयरी...

तारापूरमध्ये साकारले कृत्रिम वन ; चार एकरांवर २५ हजार रोपटी

नीज साजत : सकाळ सुचसेवा

पालघर, ता. ४ : प्रत्युष आणि औद्योगिक वसाहतीत कृत्रिम वन साकारण्याचा अभिनव प्रयोग हाती करण्यात आला आहे. औद्योगिक पट्ट्यात प्राणवायूचे प्रमाण वाढवण्याच्या आणि भूपर्यायील पाण्याची पातळी कायम राखण्यासाठी पहाटे चार एकरांवर एकूण २५ हजार कृत्रिम प्रजातीच्या रोपांची लागवड करण्यात आली आहे. अशा प्रकारचा राष्ट्रीय हा पहिलाच प्रयोग असल्याचे समजते. राज्य सरकारने 'वर्चुस पुरस्कार' देऊन या प्रयत्नाची सल्लो घेतली आहे.

तारापूर औद्योगिक वसाहतीमधील पडील जमिनीवर कचरा टाकण्यात येत असे. पालघर येथील रोपांच्या लागवडीसाठी ही जगा पेऊन कचरा, जूती घाती इतकी. या जमिनीला कुणम घालून त्याला मृतीचा स्वरूप टाकला. रोपांच्या लागवडीसाठी पहाटे आठवात कोकेशी, माहुळकाळ, भाताचा पेंचा टाकून पुस्त्याची केले. रोपांच्या लागवडीला सुरुवात नोव्हेंबर २०१६ मध्ये झाली ; मे २०१७ पर्यंत २५ हजार रोपांची लागवड करण्यात आली. रोपांचे कुठारापट सध्या संपल्यासाठी आणि पाण्याचे वापरीसून रोखण्यासाठी घुसा पेंचा अंधारण्यात आला. रोपांची लागवड करताना ५ ते ७ फुटांचे किमान अंतर टिकवण्याची प्रथा मोठ्या मनुष्य जंगमतील झाडांच्या घालीसारखे एक थोरस थोरस क्षेत्रात विचोपाच्या दोकांना तीन वेगवेगळी झाडे लागण्याचा प्रयोग करण्यात आला. रसायन झाडांची रोपे लागवडात आली. त्यामुळे रोपे जाग्याचे प्रमाण वाढते. सध्या घाली ही झाडे १० ते १५ फूट उंच झाली आहेत. या कृत्रिम वनात वेगवेगळे पक्षी वास्तव्यरत आहेत आहेत.

औद्योगिक वसाहतीमधील विषययामधून

काराडूधूर धूर निघत असताना 'पाल फॉरेस्ट' नावाच्या या कृत्रिम वनात पाटेडे आणि सायबेरीली घुसू होय ; सर्वेस सर्वसाधारण किलोमिटरातून प्रसन्न वातावरण असते. घाती येथील एन्व्हायरी क्रिएटर्स, सुबेकर शर्मा, दीपक जैन, आर. के. नाथर आदींचे मार्गदर्शन आणि प्रोत्साहनाने तारापूरमध्ये हा नवीन हातले पहा

साकारला आहे. राज्य सरकारने 'वर्चुस' पुरस्काराने सन्मानित केलेला हा उपक्रम पालघर जिल्हातून हात वेगवेगळ्यासाठी आदर्श किलोमिटरातून प्रसन्न वातावरण असते. घाती येथील एन्व्हायरी क्रिएटर्स, सुबेकर शर्मा, दीपक जैन, आर. के. नाथर आदींचे मार्गदर्शन आणि प्रोत्साहनाने तारापूरमध्ये हा नवीन हातले पहा

आहे. या अभिनव प्रजातीच्या लागवडीमुळे घातीची इजाबतीची वाढ होण्यासाठी हा उपक्रम स्वयंपूर्ण होण्यात मदत होईल. अनेक वनीयधी आणि दुर्मिळ वृक्ष असल्याने वनस्पतीशास्त्र आणि जीवशास्त्राच्या अभ्यासकांसाठी हे कृत्रिम वन उत्कृष्ट ठरेल. तारापूरमधील सामाजिक साह्यासाठी प्रक्रिया केलाच्या (सीईटीपी) परिषदात सुमारे ६००० रोपांची लागवड करण्यात येत आहे.

या रोपांची लागवड
जार्जवूड, गुलमोहर, नीम, आसोपालाख, कपफस, अर्जुन, जवारा, आंबा, जेजुर, केरलास, मूक, बांबू, कळस, पिवळ, चिंच, बाहुरी, संतल, साखर, शिरपण, मल्लतोरी, आरिंधा, सेरू, मोह, बारासील, शेवला, पेसू, काजोला, सांताफळ, कानू, पिवळा गुलमोहर, कडुलिंब, अशोक, पेंच.



SAU VIDYA VINOD ADHIKARI VIDYALAYA LALONDE
SECOND PHASE PLANTATION ON 26TH JANUARY 2017

साफ वातावरण का सृजन करें : संत सीचेवाल

अमर उजाला ब्यूरो
कपूरथला।

पद्मश्री व पर्यावरण प्रेमी संत बलबीर सिंह सीचेवाल ने मुंबई की सिख संगत को न्योता दिया कि वह 2019 में श्री गुरु नानक देव के 550वें प्रकाश पर्व में शामिल होने के लिए सुल्तानपुर लोधी पहुंचे।

सिख संगत के निमंत्रण पर मुंबई पहुंचे संत सीचेवाल ने धार्मिक, स्कूल और पर्यावरण से संबंधित समागमों में हिस्सा लिया।

दो दिवसीय दौरे के दौरान सबसे अधिक चर्चा पवित्र काली बेई की ऐतिहासिक और पर्यावरणीय पक्ष पर हुई। बांद्रा स्थित गुरुद्वारा श्री गुरु सिंह सभा में जुड़ी संगतों को संबोधित किया। उन्होंने बच्चों से अपील की कि वह साफ-सुथरा वातावरण का



मुंबई के जंगल में पौधरोपण करते संत बलबीर सिंह सीचेवाल। अमर उजाला

सृजन करें, इससे ही समाज तंदरुस्त हो सकता है। जुहू बीच पर एक धार्मिक समागम के दौरान संत

सीचेवाल ने कहा कि श्री गुरु नानक देव ने सबसे अधिक समय सुलतानपुर लोधी ही गुजारा था।



EXHIBITING AT MAGNETIC MAHARASHTRA 2018





PAL FUTURE FOREST AT MIDC BOISAR on 24.2.2018



PAL TEPS FOREST INITIATED ON 23.03.2018 INTERNATIONAL DAY OF FORESTS AT CETP MIDC BOISAR



VISIT OF SHUBHENDU SHARMA, AFFORESTT



VISIT OF PADMA SHRI BALBIR SINGH JI SEECHEWAL



NOVEMBER 2016



DECEMBER 2016



JANUARY 2017



FEBRUARY 2017



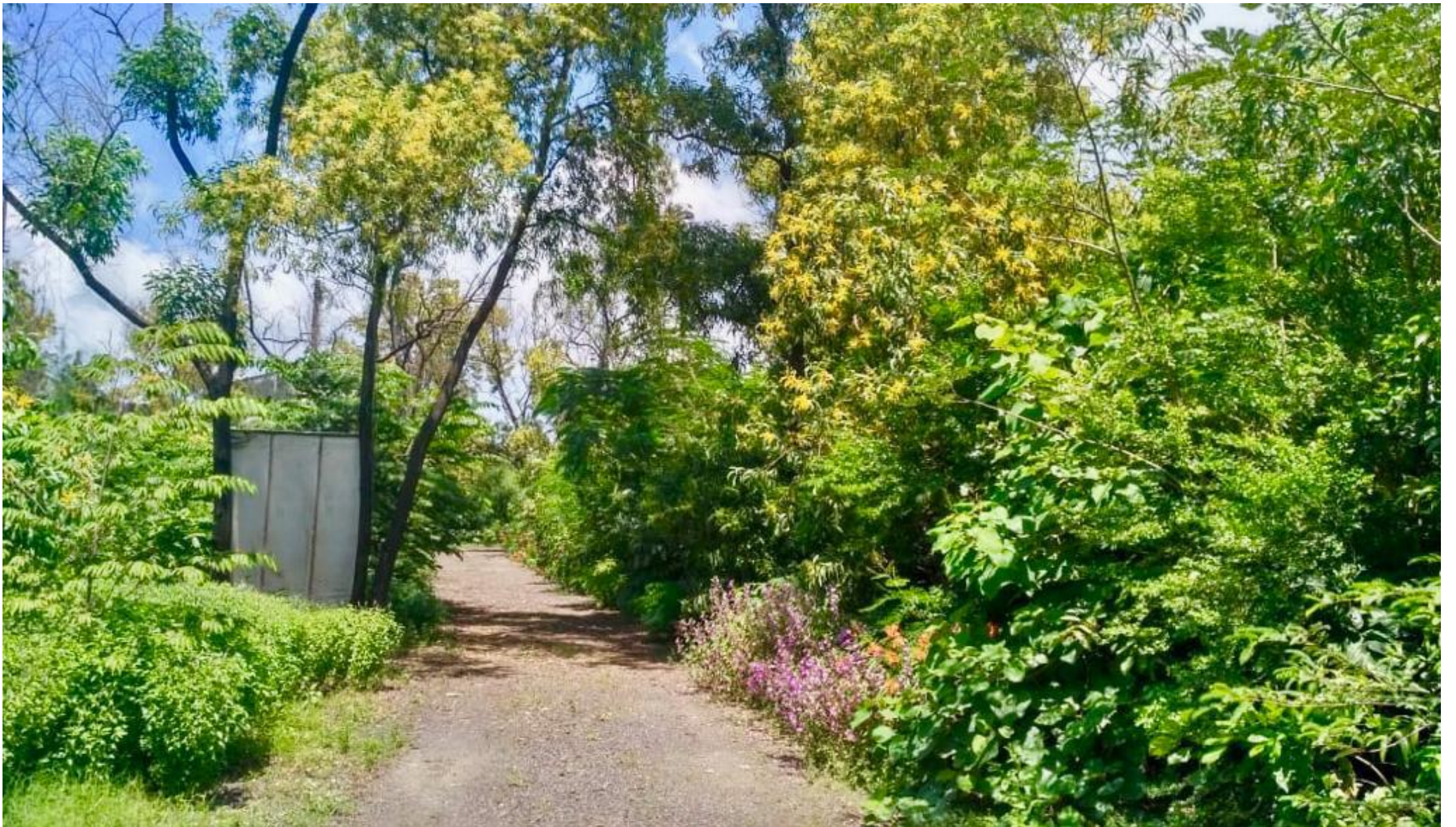
MARCH 2017



APRIL 2017



MAY 2017



PAL MIYAWAKI FOREST SEPTEMBER 2018



PAL MIYAWAKI FOREST BUILT IN MIDC INDUSTRIAL AREA



Forests are meant to give environmental benefits like absorption of green house gases and carbon dioxide thereby releasing oxygen, reducing noise and dust pollution, conserving soil as well as for recharging the ground water.



Miyawaki Methodology is to plant different species of native trees close together even on small plots of land. This enriches the green cover and reinforces soil conditions leading to a coexistence where each tree draws vital nutrients from the root systems of other trees around it.



More than 50 different native species can be planted in the same area without using any chemical fertilizers and still achieve over 95% survival.

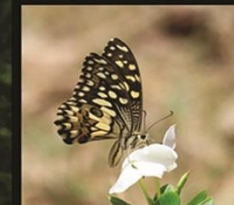
Thick layer of rice straw on the soil bed reduces evaporation and keeps the soil moist at all times.



In the first year, watering twice a day is required besides removing the weeds.

Maintenance is low in 2nd and 3rd year by which time the trees exceed 5 meters in height.

The forest no longer needs anyone to look after it. In 10 years it develops into a 100 year old forest.

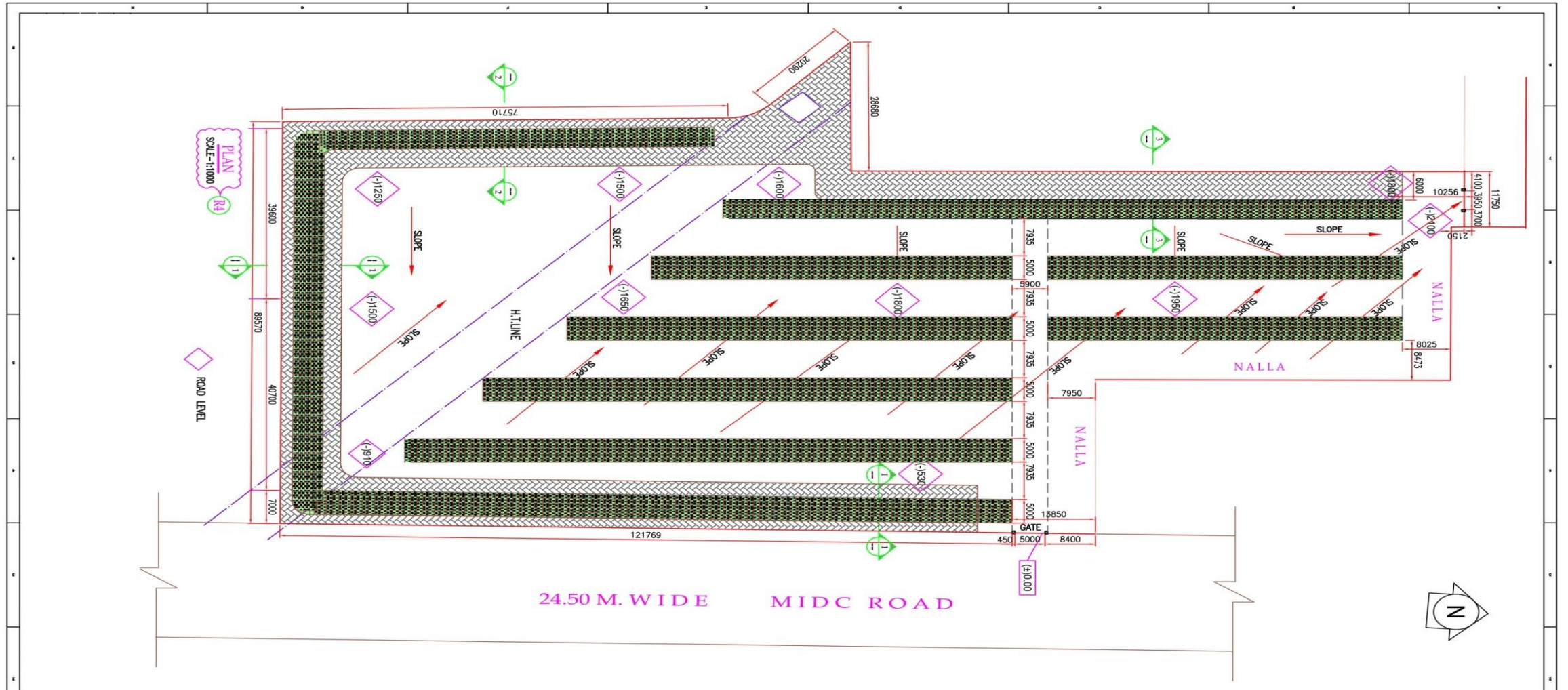


The growth rate is 10 times faster and 30 times denser than conventional plantations.

HENCE THE EFFECTIVE COST IS VERY LOW ... THE RESULTS ARE PHENOMENAL.



PLEASE VISIT OUR WEBSITE www.palforests.com FOR FURTHER QUERIES, KINDLY WRITE TO info@palforests.com
FOR COMPLETE TRAINING AND FREE ASSISTANCE IN SETTING UP A FOREST YOU CAN CONTACT 7045913394



	INITIALS	SIGNATURE	DATE	04	16/02/17	REVISED AS MARKED	RPP	MST	MST	CLIENT	PAL FASHIONS PVT. LTD.	U. A. BABRE & ASSOCIATES ARCHITECTS & CONSULTING ENGINEERS 1GR.FLOOR, SHEETAL, ROSHAN NAGAR, OFF.CHANDAVARKAR ROAD, BORIVALI (WEST), MUMBAI - 400 092. PHONE :- 2892 7548 E-mail:- uababre@gmail.com
DRAWN	RPP		19-01-17	03	16/02/17	REVISED AS MARKED	RPP	MST	MST	ADD.	PAL FOREST ON PLOT NO. OS-20 AT MIDC TARAPUR	
CHECKED	MST		19-01-17	02	06/02/17	REVISED AS MARKED	RPP	MST	MST			
SCALE				01	03/02/17	REVISED AS MARKED	RPP	MST	MST			
PROJECT NO UABA-511	DRAWING NO UABA-511-SDD-3003	REV 04	REV	DATE	REVISION	DRN	CHD	APP	TITLE	HORTICULTURE PLAN	<small>THIS DRAWING IS THE PROPERTY OF U.A.BABRE & ASSOCIATES IT SHALL NOT BE COPIED OR USED WITHOUT THEIR WRITTEN PERMISSION NOR MADE KNOWN TO A THIRD PARTY. THE INFORMATION IS ISSUED ON THE UNDERSTANDING THAT NO PART THEREOF SHALL BE DUPLICATED FOR THE PURPOSE OTHER THAN THE EXPRESSED PURPOSE.</small>	

Horticulture plan of OS-20



GOLDEN ORIOLE



BEE EATER



PURPLE RUMPED SUNBIRD



LAUGHING DOVE



RED VENTED BULBUL



JUNGLE SPARROW



GREATER COUCAL



BLACK DRONGO



ORIENTAL MAGPIE ROBIN



COPPERSMITH BARBET



SCALY BREASTED MUNIA



ASHY DRONGO

ACKNOWLEDGEMENTS

Pal Fashions is extremely grateful to the **MIDC** and to **Shri Avinash Dhakane**, Deputy CEO, for allotting open space OS-20 for tree plantation. This has become a model project for replicating across all MIDC areas and also around any industry in Maharashtra.

Dipen Jain & Dr R K Nair for their invaluable guidance in developing an abandoned land parcel into a dense plantation, which are now the **LUNGS OF TARAPUR**.

Architect Ujwal Babre of U A Babre & Associates for providing all architectural for site development on the plot.

Dhruv Construction, Tarapur for carrying out boundary wall construction and site development of the plot.

Pal Fashions Green Team which comprises of volunteers who have undertaken to devote their valuable time for the plantation and also the maintenance thereafter. The company expresses heartfelt gratitude to each of the Team members for contributing towards **SUSTAINABILITY**. With their support, **Pal Fashions** commits itself to achieve **CARBON NEUTRAL** status at the earliest.

The combined efforts of all contributors will ensure that **Pal Fashions** surpasses their ultimate goal to plant and maintain **1,00,000** trees in Tarapur, creating India's largest man-made **OXYGEN BANK** and achieve a permanent **CARBON NEGATIVE** status.



Pal Forests Team



25,000 TREES OF 33 SPECIES

SI.No.	SPECIES NAME	BOTANICAL NAME	QUANTITY
1	Jamun	Syzygium Cumini	1650
2	Bengali baba	Aegle marmelos	1450
3	Gulmohar	Delonix Regia	1450
4	Copper pod	Peltroporum	1500
5	Neem	Azadirachta Indica	1250
6	Asopalav	Polyalthia Longifolia	1000
7	Jackfruit	Artocarpus Heterophyllus	1000
8	Arjun Chejda	Terminalia	1000
9	Badam	Prunus Dulcis	950
10	Mango	Mangifera Indica	950
11	Karanj	Millettia Pinnata	950
12	Belva Patra	Aegle Marmelos	950
13	Saru	Casuarina	950
14	Bamboo	Bambusa Dendrocalmus	800
15	Panas pipla	Hesperia Populnea	800
16	Khatti amlı	Emblica Officinalis	700
17	Raintree	Samanea Saman	700
18	Mitti Amlı	Phyllanthus Emblica	700
19	Rakt Chandan	Peterocarpus Santalinus	600
20	Kadam	Anthocephalus	600
21	Sewar	Sewar	600
22	Shivan	Gmelina Arborea	600
23	Garmalo	Cassia Fistula Linn	500
24	Galfora	Galfora	500
25	Aritha	SapindusMukoross	500
26	Seru	Cleme ciliata	500
27	Moho	Madhuca Longifolia	450
28	Borasalli	Mimusops Elengi	300
29	Drumstick	Moringa Oliefera	300
30	Peru	Psidium Guajava	250
31	Kajolia	Kajolia	250
32	Sitaphal	Annona reticulata	150
33	Kaju	Anacardium occidentale	150



NAARI

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PAL FASHIONS SUPPLIES FABRICS TO CONVERTERS FOR THESE BRANDS



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On 5th June 2017, World Environment Day our Hon'ble Chief Minister Shri Devendra Fadnavis Ji presented the Vasundhara Special Appreciation Award for Tree Plantation to **Pal Fashions Private Limited**.