

EXISTING ENVIRONMENTAL AUDIT REPORT

सह वीर्यम् करवावहे



Address:

IDEAS – Institute of Design Education & Architectural Studies
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<https://www.ideasnagpur.edu.in>



Environmental Audit Conducted and Submitted by

gotmare and associates

Architects, Environmental Architects, Green Building Consultants, Interior Designers, Government Valuers

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CONTENTS

Sr.no	Contents	Page no.
1.	Table of contents	3
2.	Acknowledgement	4
3.	Certificate	5
4.	Disclaimer	6
5.	Executive Summary	7
6.	Mission; Vision; Goals	8
7.	Environmental Audit;	9
8.	Objectives of the Audit: Target Areas Of Environmental Auditing	10
9.	Methodology adopted	11
10.	Campus Area & College Building Area	12
11.	NAAC Grading in Assessments	13
12.	Environmental Policy of IDEAS college	14
13.	Green Initiatives on the Campus	15-16
14.	Energy: 1. Energy Efficiency 2. Renewable Energy Utilization	17-26
15.	Water Efficiency: Water Footprint	27-29
16.	On-Site Sewage Water Treatment System	30-31
17.	Rainwater Harvesting System	32-33
18.	Metering & Monitoring	34
19.	Water Quality Test Report	35
20.	Maintaining Good IAQ	36-37
21.	Solid Waste Management	39-42
22.	Environmental Awareness	43-44
23.	Native Trees; Flora And Fauna In Campus	45-80
24.	Routine Green Practices	81
25.	Conclusion	82

ENVIRONMENTAL AUDIT CERTIFICATE

Project name – ideas-Institute of Design Education & Architecture Studies

Location: Nagpur

This is to certify that Environmental Audit is done for ideas - Institute of Design Education & Architecture Studies, Nagpur and the team ideas has been conducted to assess the institute's environmental policies and objectives, and the effects the institute has on the environment which included waste management, water management, energy management, flora management and fauna as well, and policies and facilities in the institution.



Ar. Manisha Gotmare

Environmental Architect, Green Building consultant, Simulation Expert, IGBC AP, GRIHA EB project in 2019 Auditor

Email id: manisha.gotmare@gmail.com

Phone no. 9822739072

Date – 18-05-2023



DISCLAIMER

The environmental architect's team has prepared the report of the environmental audit of ideas college, Nagpur, on the primary data collected from the different areas of college. All the reasonable care has been taken in its preparation; the details contained in this report have been compiled in good faith based on the information gathered.

Prepared by

Ar. Manisha Gotmare

Environmental Architect

Gotmare And Associates



EXECUTIVE SUMMARY

In the current context of rapid changes that are taking place in our country, all activities directed towards advancements are required to be addressed with utmost care. In this effort It is also imperative to prepare architects who can contribute to and manage the needs of society with equanimity of mind and an attitude of social responsibility.

IDEAS is rated amongst the top Architecture colleges in the country. Our students top the RTMNU examinations almost every semester. year after year. The college runs B. Arch. undergraduate and M. Arch. post-graduate programs affiliated to RTMNU and recognized by the Council of Architecture.

At IDEAS all faculty are committed to maintaining an academically rich and professionally competent environment by enhancing the creative attitudes as well as technical skills of students. Our teacher mentors play a vital role in the overall development of our students and the institute with the firm belief that in the current era, creativity and innovation are the basis of sustenance. We keep constantly creating new learning opportunities for our students, which the university curriculum cannot otherwise provide.

In a very short span IDEAS have come a long way and have made their impact felt not only in the city. but also, the country. Our students have outperformed professionally in the local and global scenario and in the universities in India and abroad as they pursue their higher education Today, IDEAS is one of the most sought-after institutes for fresh aspiring architecture students. We are sure that the best in infrastructure, a highly qualified faculty, and our motivated group of students coupled with the vibrant environment will continue to drive the growth of IDEAS as a great institution. We firmly believe that we shall be counted amongst the best at the national level in the years to come.

In all our efforts we seek the path of virtue, courage, and wisdom. May we be the catalyst in all our efforts to make better architects and human beings, who can make a positive impact on our society and help build our nation in these ever-changing and challenging times.

MISSION

To generate effective synchronization of academicians, professionals, technocrats, and students to achieve “meaningful architecture” for the development of society.

To sensitize and train the students to develop a sense of commitment, professionalism and inculcate aspiration for continuous update of knowledge to serve the local & global community.

VISION

Establishing a center of excellence in the entire spectrum of Design Education and Application from Product Design to Architecture and from Applied Arts to Fashion Design to serve humanity.

GOALS

The school aims at establishing an Advanced Center of Learning, turning out creative & technical manpower to play a substantial role in nation-building.

The IDEAS- Institute of Design Education and Architecture Studies shall strive to build its image in a way that it acts as a platform of excellent learning at the national level having expertise to mold the students to cater to the needs of the society in various areas of human habitat, technology, leadership, culture, administration while maintaining ethical, moral and social values.



Environmental Audit

Environmental audit aims to help protect the environment and minimize the risks of business activities to the environment and human safety and health. Areas examined may include environmental policies and procedures. Then, the audit team can use the results to determine what changes need to be made for compliance.

Ar. Manisha Gotmare

Environmental Architects, Green Building Consultants, Nagpur

OBJECTIVES OF ENVIRONMENTAL AUDIT

The objective of this environmental audit is to assess the environmental quality and the management strategies being implemented at IDEAS college, Nagpur.

To assess the quality of the water and its management in college campus

To monitor the energy consumption pattern of the college

To quantify the liquid and solid waste generation and management plans in the campus.

To assess whether the measures implemented by ideas College have helped to reduce the Carbon Footprint.

To impart environment management plans to the college

To assess whether extracurricular activities of the Institution support the collection, recovery, reuse, and recycling of solid wastes.

To identify the gap areas and suggest recommendations to improve the Green Campus status of the ideas College.

TARGET AREAS OF ENVIRONMENTAL AUDITING

Environmental audit forms part of a resource management process. Although they are individual events, the real value of green audit is the fact that they are carried out, at defined intervals, and their results can illustrate improvement or change over time. Eco-campus concept mainly focuses on the efficient use of energy and water; minimize waste generation or pollution and economic efficiency.

METHODOLOGY ADOPTED

The methodology adopted to conduct the Environmental Audit of the Institution had the following components.

Onsite Visit : Four day field visit was conducted by the Environmental Audit Team . The key focus of the visit was on assessing the status of the green cover of the Institution, their waste management practices and energy conservation strategies etc. The sample collection of water was carried out during the visits.

Focus Group Discussion: The Focus Group discussions were held with the environmental committee members. The discussion was focused on identifying the attitudes and awareness towards environmental issues at the institutional and local level.

Energy, waste management and water management analysis survey with the help of the environmental committee members and audit team has assessed the energy consumption pattern and waste generation, disposal, and treatment facilities of the college.

CAMPUS AREA & COLLEGE BUILDING AREA

	CATEGORIES OF LAND USE	AREA (M ²)
1.	Landscaped /Plantation Area	3998.24 M²
2.	Built Up Area (Include roads)	Ground floor built up = 2545.55 sqm. First floor built up = 2449.82 sqm.
3.	Total Area	8164.76 M²



Google image of ideas college campus

NAAC GRADING IN ASSESSMENTS



ENVIRONMENTAL POLICY OF IDEAS COLLEGE

The Institute of Design Education and Architectural Studies. Nagpur {IDEAS} understands its responsibility to protect the environment from the impact of its operations and activities. It endeavors to influence its members and the wider community to minimize their impact through its actions, teaching and research. The Institute is committed to meeting the requirements of all relevant environmental guidance and to continually improving its environmental performance.

Sr. No.	Category	Designation	Name
1	Presiding Officer	Chairperson	Prof. Ajay Thomare, Programme Coordinator (Environmental Architecture)
2	Faculty Members	Member Secretary Member	Prof. Rukhsana Badar (Associate Professor) Prof. Ankita Giripunje (Assistant Professor)
3	Students Nominees	Member	1. Mr. Subhodh Awari 2. Ms. Divyashree Jain 3. Ms. Tanvi Koche 4. Mr. Siddharth Deshbharatar

GREEN INITIATIVES ON THE CAMPUS

Since its inception IDEAS has been conscious about respecting the environment and conserving natural resources. The campus has been designed with a series of courtyards to provide enough light and ventilation to all spaces and the construction uses appropriate materials where possible to minimize the carbon footprint. The courtyards and surrounding areas are landscaped with preference of indigenous plants.



When it comes to water and waste management the institute believes in reducing use and recycling. A DEWAT system has been constructed on site to handle sewage water from toilets and kitchen. The treated water is reused.

Bio-degradable waste from the canteen and falling leaves are recycled through the process of Composting. Compost thus generated is used in the landscaped areas. A rainwater harvesting system has also been initiated to conserve water for reuse.

The campus is self-reliant when it comes to energy needs, generating surplus Solar Power.

An important part of the green initiatives is about spreading Awareness among all the members of the institute and inculcating good habits when it comes to reducing use and recycling.

A Green Audit had been carried out to determine the strengths and lacunas in achieving a green campus.

The **NADEP method** of organic composting has been initiated on the campus using falling leaves from the landscaped areas. The Nadep method of making miracle compost was first invented by a farmer named N.D. Pandharipande (also popularly known as “Nadepkaka”) living in Maharashtra (India). The process basically involves placing select layers of different types of compostable materials in a simple, mud-sealed structure designed with brick and mud water. It delivers large amounts of compost with minimum human effort. The first batch of compost was extracted and used on the campus.



The team of Architect from Gotmare and Associates are thankful to the in-house team of ideas for cooperation, furnishing required data, and support offered during our visit.

ENERGY

Intent: Building efficiency is key to cutting energy consumption. Improving energy performance in existing buildings

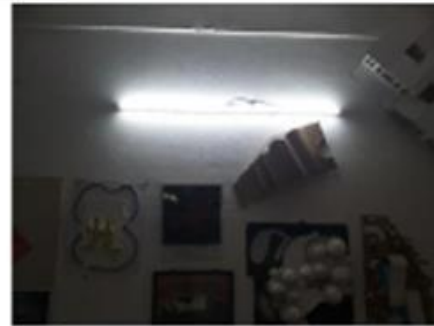
1. Energy Efficiency

Intent: To enable the project to reduce their energy consumption by adoption of energy efficient strategies.

- a) **Install energy efficient lighting fixtures** – Light-Emitting Diode (LED) tubes and light, 54% of lighting on campus is LED



LED lights in Administration



LED lights in Office



LED lights in staffroom



LED lights in Director's Office



LED lights in Principal's Office



LED lights in Computer room



LED lights in conference room



Swargiya Jagannath Jattewar Shikshan Sanstha , Nagpur
institute of design education & architectural studies , Nagpur
 ENVIRONMENTAL AUDIT REPORT 2022-23

GSTIN : 27AHVPP2910Q1ZH
 Subject to Nagpur Jurisdiction
TAX INVOICE
CASH / CREDIT MEMO
SE SAGAR ELECTRONICS
 Electronic Market, Telipura, Sitabuldi, Nagpur.
 Invoice No.: 049 Date: 10/12/22
 Name: Institute of Design Education & Architectural Studies, Nagpur
 Address: Sitabuldi, Nagpur
 State: Maharashtra
 GSTIN: 27AHVPP2910Q1ZH

Particulars	Qty	Rate	Amount
BrockLight	150k	130/-	31500
Total			31500

Rs. in Words: Three Thousand One Hundred and Fifty Rupees only
 Bank Name: Nagpur Nagpank Sahakar Bank Ltd.
 Account No.: 00401110003191
 Branch: Sitabuldi, Nagpur
 IFSC Code: NGSB0000004
 Declaration: We declare that this invoice shows actual price of the goods described and that all particulars are true and correct.
 Receiver's Signatory: [Signature]

Tax Invoice

Original for Recipient
 Duplicate for Transporter
 Triplicate for Supplier

G K ENTERPRISES
 535,SHIVA FULWALE HOUSE,JAGNATH BUDHWARI,NAGPUR
 Phone no. : 8668784944 Email: gkenterprises2434@gmail.com
 GSTIN: 27IHUPK1801A1ZG, State: 27-Maharashtra

Bill To: **IDEAS COLLEGE**
 Ring road,Pipla,Nagpur

Invoice No.: 1485
 Date: 02-03-2023

#	Item name	HSN/ SAC	Quantity	Unit	Price/ Unit	Taxable amount	CGST	SGST	Amount
1	Polycab frameless pannel		3	Nos	₹ 499.15	₹ 1,497.46	₹ 134.77 (9.0%)	₹ 134.77 (9.0%)	₹ 1,767.00
Total						3	₹ 1,497.46	₹ 134.77	₹ 1,767.00

Tax type	Taxable amount	Rate	Tax amount	Amounts:
SGST	₹ 1,497.46	9.0%	₹ 134.77	Sub Total ₹ 1,767.00
CGST	₹ 1,497.46	9.0%	₹ 134.77	Total ₹ 1,767.00

Invoice Amount In Words
 One Thousand Seven Hundred and Sixty Seven Rupees only

Terms and conditions:
 1. Goods once sold will not be taken back
 2. Subject to nagpur jurisdiction only
 3. Cheque bouncing charge rs. 500

Bank details:
 Bank Name: AXIS BANK, GANDHIBAGH
 Bank Account No. : 919020076281069
 Bank IFSC code: UTIB0001674
 Account Holder's Name: G K ENTERPRISES

For, G K ENTERPRISES
 [Signature]
 Authorized Signatory

Tax Invoice

Original for Recipient
 Duplicate for Transporter
 Triplicate for Supplier

G K ENTERPRISES
 535,SHIVA FULWALE HOUSE,JAGNATH BUDHWARI,NAGPUR
 Phone no. : 8668784944 Email: gkenterprises2434@gmail.com
 GSTIN: 27IHUPK1801A1ZG, State: 27-Maharashtra

Bill To: **IDEAS COLLEGE**
 Ring road,Pipla,Nagpur
 State: 27-Maharashtra

Transportation Details
 Delivery Date:
 Destination:

Place of supply: 27-Maharashtra
 Invoice No. : 1513
 Date : 29-04-2023

#	Item name	HSN/ SAC	Quantity	Unit	Price/ Unit	Taxable amount	CGST	SGST	Amount
1	BATTEN-NEO-T5-20W		20	Nos	₹ 152.54	₹ 3,050.80	₹ 274.57 (9%)	₹ 274.57 (9%)	₹ 3,599.9
Total						20	₹ 3,050.80	₹ 274.57	₹ 3,599.9

Tax type	Taxable amount	Rate	Tax amount	Amounts:
SGST	₹ 3,050.80	9%	₹ 274.57	Sub Total ₹ 3,599.9
CGST	₹ 3,050.80	9%	₹ 274.57	Round off ₹ 0.0
Total				₹ 3,600.0

Invoice Amount In Words
 Three Thousand Six Hundred Rupees only

Terms and Conditions
 1. Goods once sold will not be taken back
 2. Subject to nagpur jurisdiction only
 3. Cheque bouncing charge rs 500

Bank details:
 Bank Name : AXIS BANK, GANDHIBAGH
 Bank Account No. : 919020076281069
 Bank IFSC code : UTIB0001674
 Account holder's name : G K ENTERPRISES

For, G K ENTERPRISES
 [Signature]
 Authorized Signatory

LED lights in Auditorium



LED lights added/replaced in 2022-23

LIST OF LIGHTS IN CAMPUS 2023									
ROOMS	Tubelights			LED Tubelights			LED		
	NOS.	WATTS	TOTAL WATTS	NOS.	WATT S	TOTAL WATTS	NOS.	W A T T S	TOTAL WATT S
STUDIO 1	21	36	756	3	20	60			0
STUDIO 2	10	36	360	2	20	40			0
STUDIO 3	11	36	396			0			0



ENVIRONMENTAL AUDIT REPORT 2022-23

STUDIO 4	12	36	432	1	20	20			0
STUDIO 5	10	36	360	1	20	20			0
STUDIO 6	4	36	144	0		0			0
STUDIO 8	23	36	828	2	20	40			0
STUDIO 9	13	36	468	1	20	20			0
STUDIO10	11	36	396	2	20	40			0
STUDIO 11	12	36	432			0			0
STUDIO 12	12	36	432	8	20	160			0
STUDIO 13	12	36	432			0			0
AV ROOM 1	0	0	0	4	9	36	8	9	72
AV ROOM 2	2	36	72	2	20	40			0
AV ROOM 3	4	36	144			0			0
AV ROOM 4	3	36	108			0			0
AV ROOM 5	3	36	108	2	20	40			0
Auditorium							24	2	48
							26	8	208
							12	1 2	144
WORKSHOP	6	36	216			0	3	1 2	36
SURVEY Lab	0	0	0	36	20	720	12	2	24
			0	18	2	36			0
GIRLS COMMON ROOM	4	36	144			0			0



GIRLS WASHROOM	2	36	72			0			0
BOYS WASHROOM	1	36	36			0			0
FACULTY LOUNGE	5	36	180	2	20	40			0
M.ARCH 1	0	0	0				8	1 2	96
M.ARCH 2	0	0	0				12	1 2	144
M ARCH STUDIO 1	7	36	252	6	20	120			0
Ground floor corridor	17	36	612	1	20	20	11	8	88
First floor corridor	21	36	756	0		0			0
STAFFROOM 1	0	0	0	6	18	108	4	9	36
STAFFROOM 2	10	36	360			0			0
STAFFROOM 3	7	36	252			0			0
STAFFROOM 4	6	36	216			0			0
COMPUTER ROOM	0	0	0	12	10	120			0
LIBRARY	0	0	0	8	9	72	5	9	45
OFFICE	0	0	0	5	20	100	7	9	63
M.K.G.'s CABIN	3	36	108	0		0	2	9	18
A. V. P.'s CABIN	0	0	0	1	20	20	2	3 6	72
							4	9	36
U. C.G.'s CABIN	0	0	0	1	20	20	2	3 6	72

ENVIRONMENTAL AUDIT REPORT 2022-23

ENTRANC LOBBY	0	0	0	4	45	180			0
O. A.T.	0	0	0	10	9	90			0
PORCH	3	36	108	1	20	20			0
NAAC ROOM	0	0	0	0	0	0	19	1 2	228
IST FLOOR WASHROOM	0	0	0	6	12	72			0
CANTEEN KITCHEN	3	36	108						
CANTEEN SITTING	4	36	144	2	20	40			
Tuck Shop	2	36	72						
Gard Room				1	20	20	2	9	18
Campus	1	36	36	1	20	20	2	4 0	80
							2	2 0	40
	265		3290	149		2334	167		1568
TOTAL LIGHTING POWER REQUIREMENT IN WATTS per HR						7192			
TOTAL LIGHTING POWER REQUIREMENT MET THROUGH LED IN WATTS per HR						3902			
Percentage of lightening met through LED						54%			

b) Install energy efficient cooling system and appliances- BEE star rated.

Sr.no	Location of air conditioners installed	No. of Air conditioners installed
1.	Principal’s Cabin	1
2.	Director’s Cabin	1
3.	Computer Lab	2
4.	G.F. Staff room	2
5.	Auditorium	3
6.	AV rooms	5
7.	NAAC room	2
8.	1 st floor Staff room	2
9.	Total	18

<p>Staff room 1</p>		
<p>Staff room 1</p>		

<p>Lecture Room 2</p>		
<p>Lecture Room 4</p>		
<p>Lecture Room 5</p>		

<p>Lecture Room 5</p>		
<p>Faculty Room 1st floor</p>		
<p>Faculty Room 1st floor</p>		



2. Renewable Energy Utilization

Intent: To promote the use of renewable energy technologies and enable energy generation on site.

The Institute generates and uses 100% renewable energy (solar energy) and sends excess energy to the grid.

CURRENT CONSUMPTION DETAILS						
Reading Date	KWH	KVAH	RKVAH (LAG)	RKVAH (LEAD)	KW (MD)	KVA (MD)
Current 31/01/2023	71494.40	72475.20	5755.80	14756.00	8.72	8.74
Previous 31/12/2022	70558.00	71536.80	5747.80	14484.00	14.00	14.02
Difference	936.40	938.40	8.00	272.00		
Multiplying Factor	1.00	1.00	1.00	1.00	1.00	1.00
Consumption	936.40	938.00	8.00	272.00	8.72	8.74
Add if L. T. Metering	0.00	0.00	0.00	0.00	0.00	0.00
Assessed Consumption	936.40	938.00	8.00	272.00	8.72	8.74
Adjustment	0.00	0.00	0.00	0.00	0.00	0.00
Total Consumption	237.00	938.00	8.00	272.00	9.00	9.00

BILLING DETAILS				Amount in Rs.	
Billed Demand (KVA)	12	@ Rs.	427.00		
Assessed P.F.	0.0000	Avg. P.F.	0.9580		
Billed P.R	0.9580	L.F.	0		
Consumption Type	Units	Rate	Charges Rs.		
Industrial	0.00	0.00	0.00		
Residential	0.00	0.00	0.00		
Commercial	237.00	10.79	2557.23		
E.D. on (Rs.)	Rate %		Amount Rs.		
0.00	0.00		0.00		
0.00	0.00		0.00		
0.00	0.00		0.00		
TOD Tariffs	Rate % (Rs/Units)	Units	Demand	Charges Rs.	
0600 Hrs-0600 Hrs & 2200 Hrs-2400 Hrs	5.0000	0	5	0.60	
0600 Hrs-0900 Hrs & 1200 Hrs-1800 Hrs	0.0000	0	0	0.00	
0900 Hrs-1200 Hrs	0.8000	0	4	0.00	
1800 Hrs-2200 Hrs	1.0000	237	5	260.70	
Amount In Words					
EIGHT THOUSAND SEVEN HUNDRED FIFTY ONLY					

Demand Charges	5124.00
Wheeling Charges	319.95
Energy Charges	2667.23
TOD Tariff EC	260.70
FAC @ 2.15 Ps/U	609.56
Electricity Duty	0.00
Other Charges	0.00
Tax on Sale @ 19.04 Ps/U	45.12
P.F. Penal Charges / P.F.Incentive	-43.86
Charges For Excess Demand	0.00
Debit Bill Adjustment	0.00
TOTAL CURRENT BILL	8772.69
Current Interest	0.00
Principal Arrears 06/02/2023	-22.35
Interest Arrears	0.00
Total Bill Amount (Rounded) Rs.	8750.00
Delayed Payment Charges Rs.	109.66
Amount (Rounded) Payable After (Amount Rounded to Nearest Rs. 10/-)	8860.00
	02/03/2023

SOLAR NET METER CONSUMPTION DETAILS									
SOLAR TARIFF	IMPORT			EXPORT			GENERATION		
	CURRENT READING	PREVIOUS READING	Units	CURRENT READING	PREVIOUS READING	Units	CURRENT READING	PREVIOUS READING	Units
0100 Hrs - 0600 Hrs & 2200 Hrs - 2400 Hrs	17776.80	17342.20	435.00	4.20	4.20	0.00	1945.20	1944.90	0.00
0600 Hrs - 0900 Hrs & 1200 Hrs - 1800 Hrs	35132.80	34881.80	251.00	4030.00	5070.00	999.00	506.00	508.00	1801.00
0900 Hrs - 1200 Hrs	8156.20	8141.90	14.00	41109.20	41109.20	18.40	5011.20	5011.40	1052.00
1800 Hrs - 2200 Hrs	10429.60	10192.40	237.00	41.20	41.20	0.00	1411.00	1411.40	0.00
TOTAL	71494.40	70558.00	938.00	1019.40	10019.80	1740.00	1962.40	1965.70	2853.00
Offset	700.00								
Previous Balance	2064.00								
Current Balance									237.00


CONDITIONS	
1.	The total bill amount of the bill may be remitted by a Crossed Demand Draft/Cheque drawn in favor of "Maharashtra State Electricity Distribution Co. Ltd." Whenever Security Deposit is demanded separate Cheque/Bank Draft should be sent.
2.	The current bill is payable within fifteen days from the date of issue of the bill. Even if there is any discrepancy in the bill or any other clarification needed, consumers are requested to pay the billed amount in full provisionally or under protest subject to review and subsequent adjustment, so that payment of delayed payment charges is avoided.
3.	This bill is issued subject to the provision of the "Conditions and Miscellaneous charges for supply of Electrical Energy" of the company.
4.	Please quote the Consumer Number on the back of the Cheque. The payment of this bill should be made at Company's office only.
5.	If the cheque is sent by post the same should be posted three clear days in advance of the due date.
6.	In case of payment made through RTGS/NEFT/Cheque/DD/Pay order, the date of amount credited to MSEDCL's account will be treated as receipt date.

Mar 2023

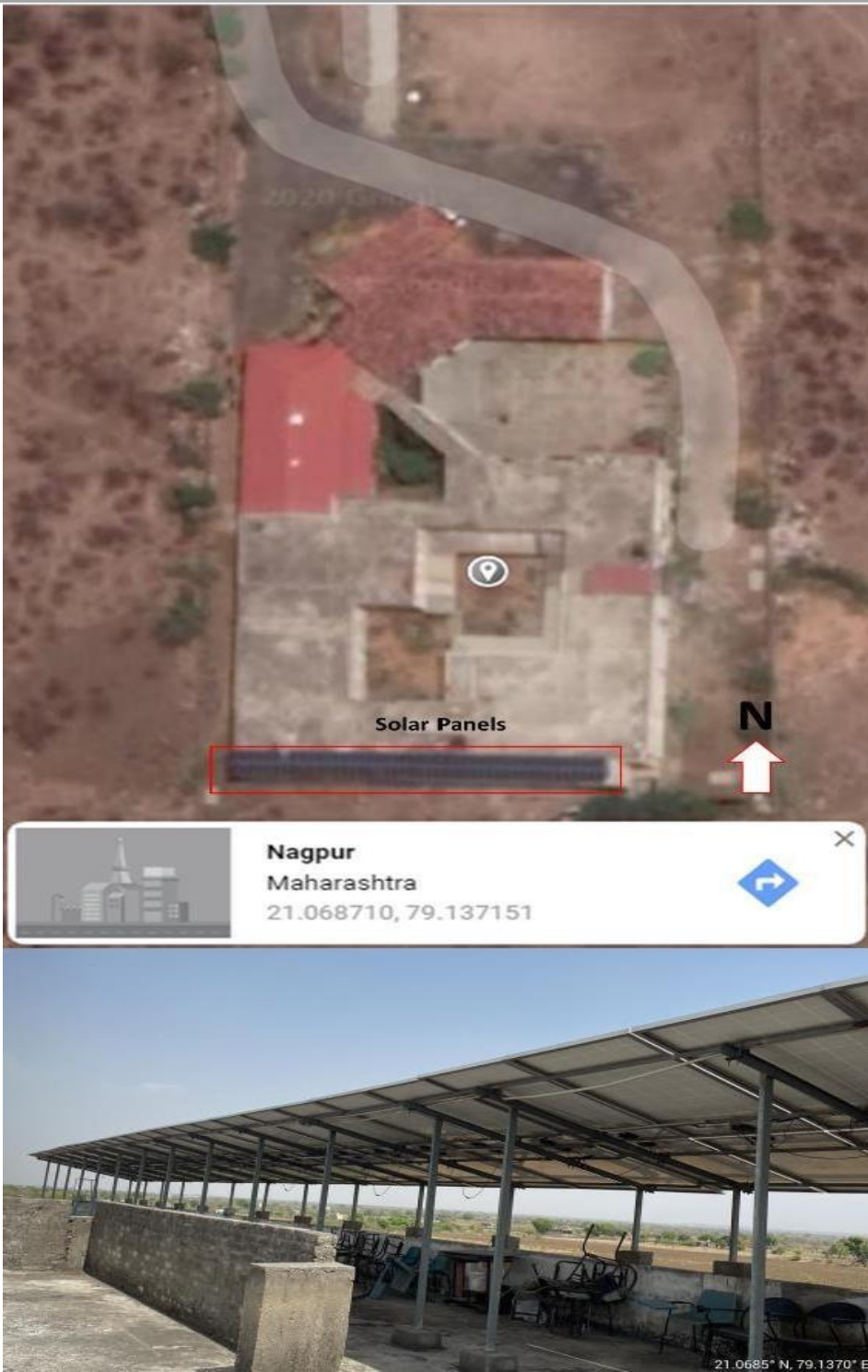
Collection Hours : 10-30 to 16-00 Hours (Except on Bank Holidays, Sundays & Saturdays)



TAX INVOICE

R. R. ENTERPRISES Plot No. 03, Giddoba Nagar, Near Gopal Krushna layout, Nagpur-08. GSTIN/UIN: 27 CJRPR5181B 1ZU Contact : 8329786934		Invoice No. 20/2022-2023	Dated 08-Oct-22		
Buyer Ideas Collage of architecture At Post Hudkeshwar , Outer Ring Road , Hudkeshwar Road, Nagpur- Maharashtra 440037 Mo.no-Ravi Todkar,9423628721		Delivery Date 03/10/2022	Mode/Terms of Payment		
		Supplier's Ref 0	Others Reference(s) 19/09/2022		
		Buyer's Order No 0	Dated 19/09/2022		
		Despach Doc. No	Delivery Note Date 20/09/2022		
		Despatched through	Destination Nagpur		
Sr. No	Description of Goods	HSN/SAC	Qty	Rate	Amount-Rs.
1	Solar System Service Charge Maintenance Visit 2 Day	9954	2	700.00	1400.00
2	Solar System Service Charge Maintenance Visit 3 Day	9954	3	1000	3000.00
3	Solar System Service Charge Maintenance Visit 1 Day	9954	1	2000	2000.00
4	DC MC-4 Connector	8541	10	45	450.00
5	Cable Tai 250 mm	8541	150	2	300
6	15 Amp DC Fuse	8541	125	2	250
<i>Solar Inverter working fine from 27-sep-22 to 12-10-22</i>				Total Rs.	7400.00
				CGST 9%	666.00
				SGST 9%	666.00
				IGST 18%	0.00
				Total Rs.	8732.00
Total Amount				8732.00	
Total Amount (in word): Indian Rupees Eight Thousand Seven Hundred and thirty two Only					
Company's Bank Details Bank Name: State Bank of India Current A/c A/c No. : 37856999195 Branch : Kharbi, Nagpur Ifsc Code : SBIN0018096			For R. R. Enterprises 22-23  Authorised Signatory		

SUBJECT TO NAGPUR JURISDICTION
 This is computer generated invoice



Location and photos of solar photovoltaic panels installed on terrace of institute.

WATER EFFICIENCY

Intent: Reduction in the consumption of potable water supplied by municipal local body through improved practices. It further focusses on implementation of no/low-cost water conservation measures and recycling and reuse of water for overall improvement in the water performance.

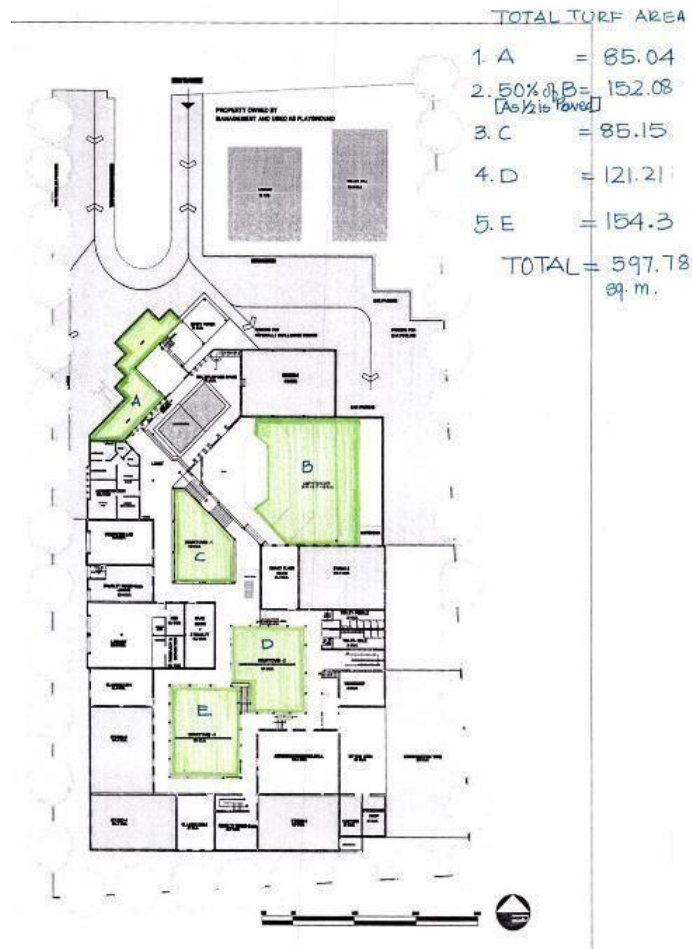
1. WATER FOOTPRINT

Intent: To measure water consumption and identify potential areas to optimize water consumption in the project boundary.

- a) **Reducing Landscape Water Demand** – Minimizing lawn area and restricting it to 25% of the total landscaped area.

Total landscape area of the Institute = 4702 sqm

Total turf area = 597.78 sqm. (13%)





Lawn area inside the campus

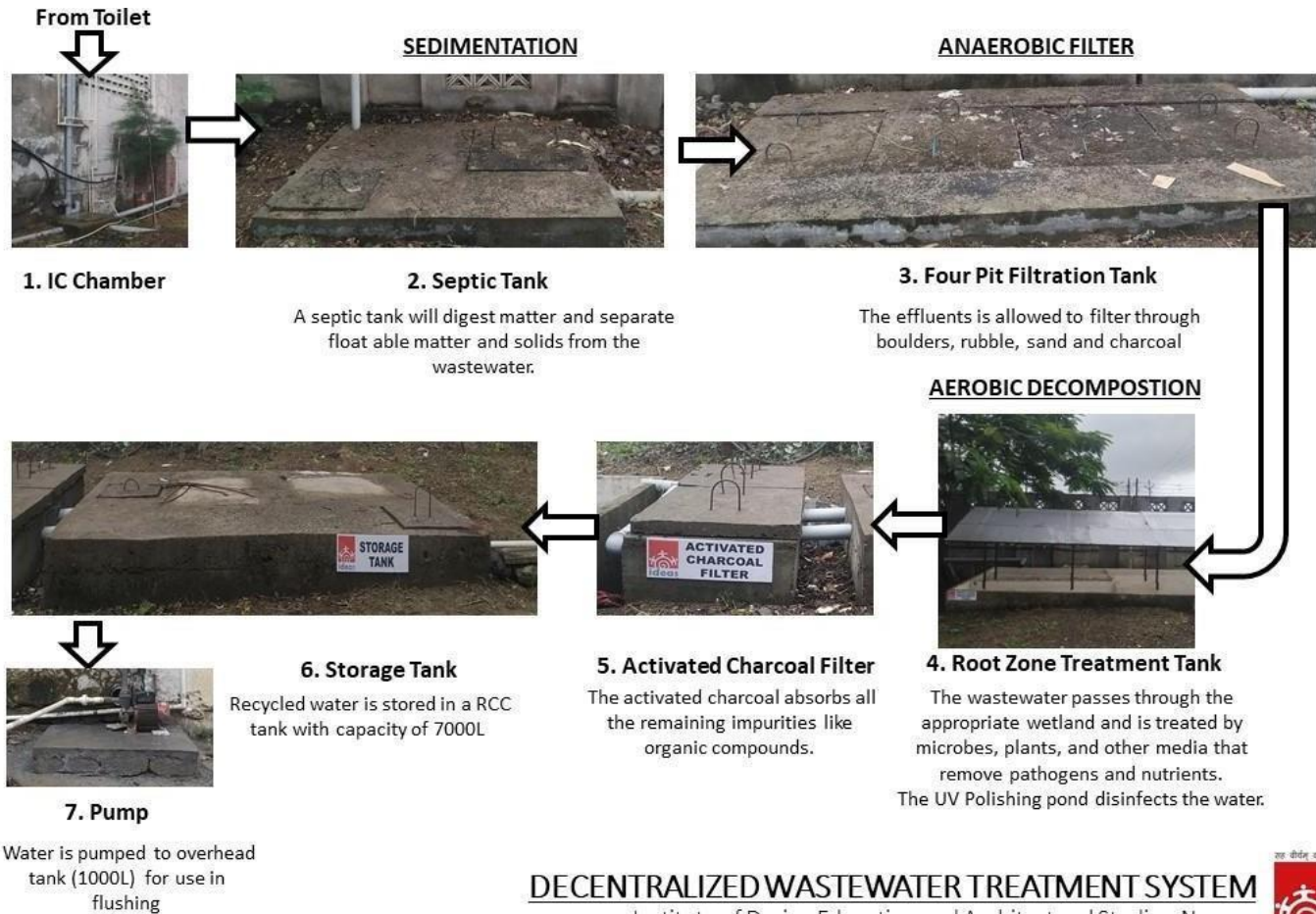
Use Of Water-Efficient Irrigation Systems to Reduce the Water Requirement.
Sprinklers at lawn area inside the campus



b) Reduction In Building Water Consumption By 30% Below the Base Case Through Water Efficient Fixtures.



c) Provision Of On-Site Sewage Water Treatment System: 100 % of grey water treatment on site



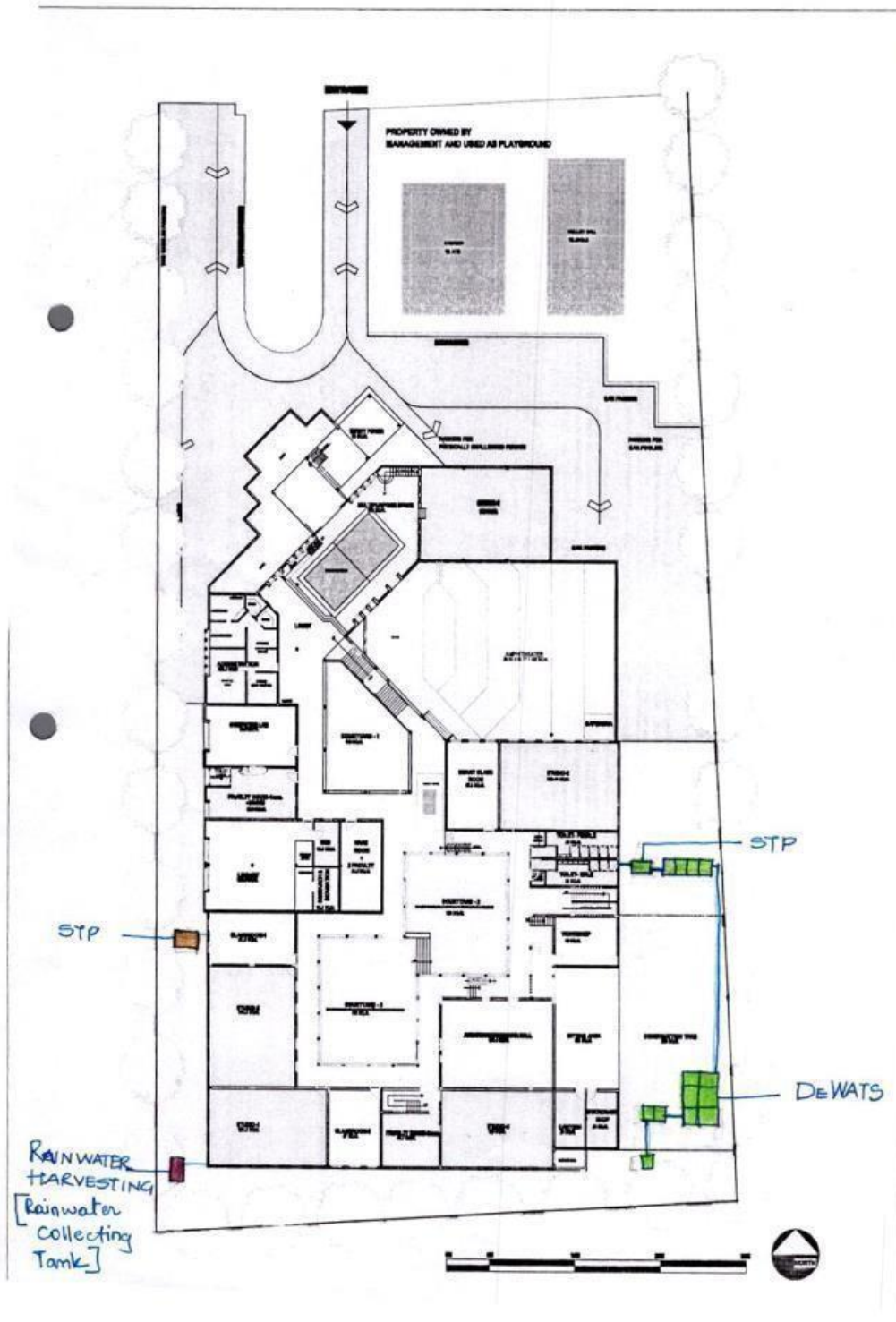
DECENTRALIZED WASTEWATER TREATMENT SYSTEM
 Institute of Design Education and Architectural Studies, Nagpur



Filter and Storage tank



Overhead Storage tank



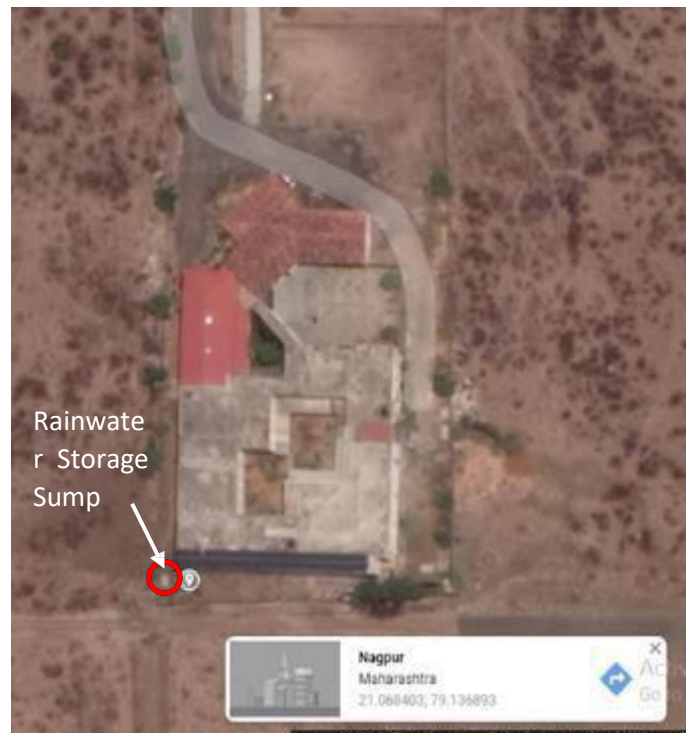
Plan showing position of STP & different chambers of the DEWATS system

e) Provision Of Rainwater Harvesting System:

Only roof rainwater harvesting.

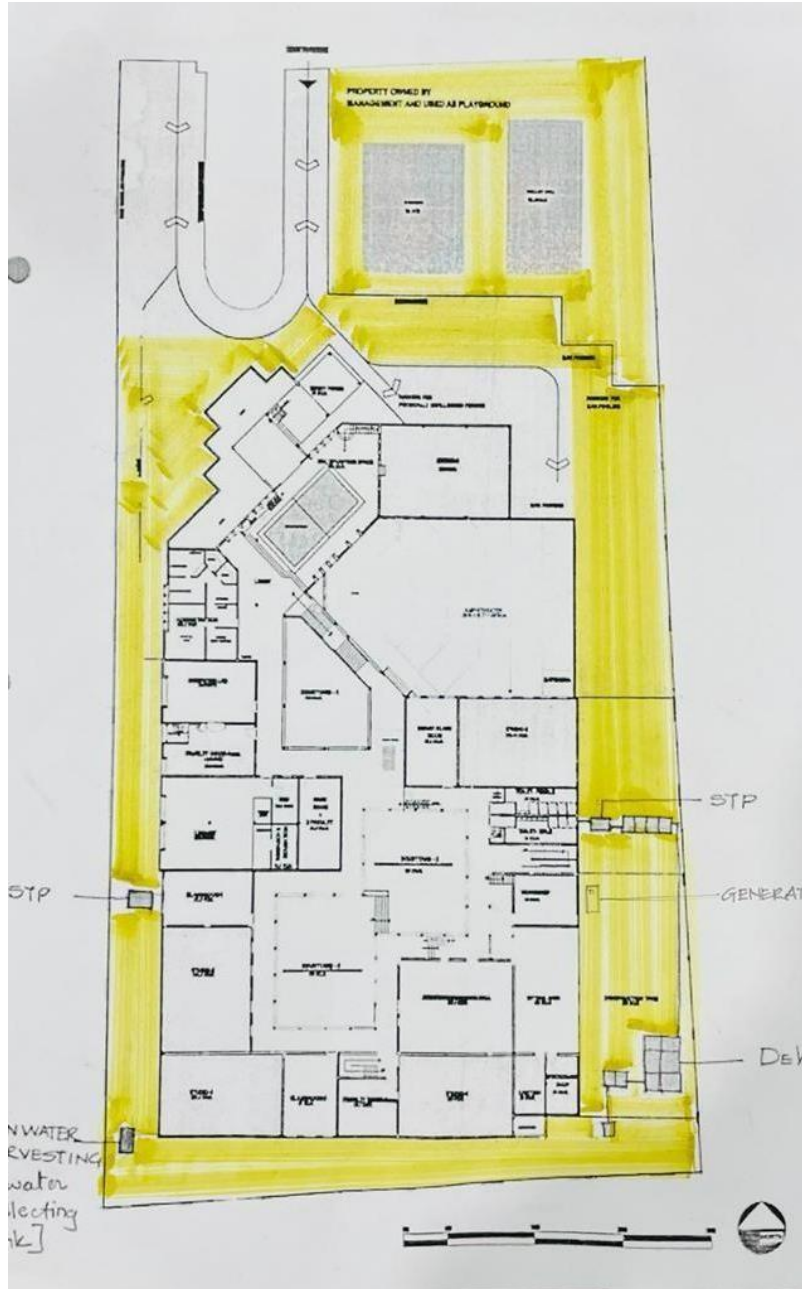
Spouts and rainwater pipes allow the rainwater from the terrace to fall into the courtyard where it is soaked into the ground. Benefits derived through this system are: i) tube well recharging and ii) rise in water table. The institute draws water from the tube well for daily use.

At present a sump tank of capacity 4100 liters is constructed at south west corner of the campus to store rainwater for reuse in watering plants and cleaning. The institute has planned to increase the system in phases.



ii) 100% rainwater harvesting of catchment area.

The maximum area around the periphery of the building is softscape i.e 92% and the rest 8% is hardscape(roads) which helps in ground infiltration of ground water.

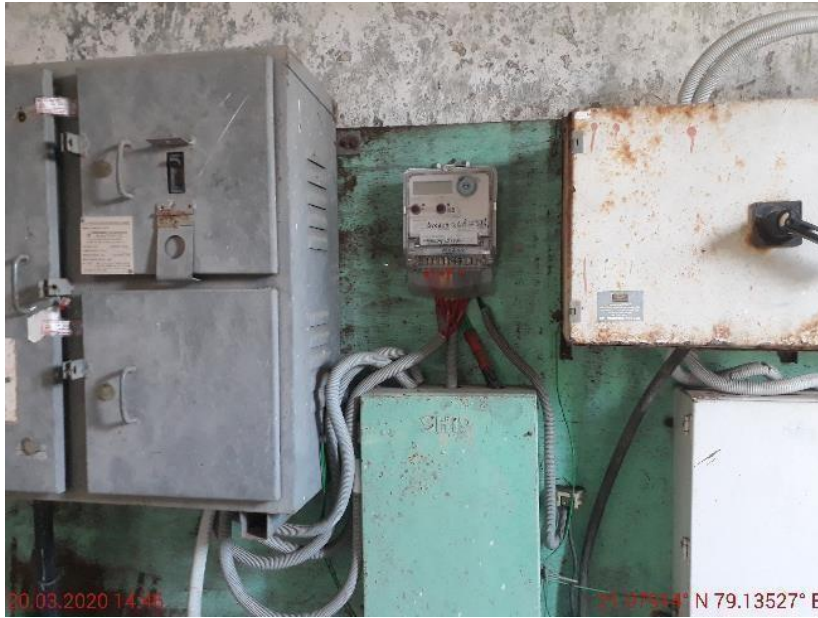


Plan showing campus softscape in yellow

METERING & MONITORING

Intent : To promote metering of energy and water consumption of the building to monitor and analyze the performance of the habitat

a) Installed energy meter at building level to monitor the energy consumption.




b) Install water meter at building level to monitor the water



consumption.



c) **Conduct water quality test report as per CPCB /BIS Standards.**
 The Water Quality Test report in 2023.



Anacon Laboratories

Anacon Laboratories Pvt. Ltd. Nagpur Lab
 ♣ FP-34, 35, Food Park, Five Star Industrial Estate,
 MIDC Butibori, Nagpur, Maharashtra, India - 441 122
 ☎ + 91 8045685558 ✉ Email : info@anacon.in
 🌐 https://www.anaconlaboratories.com

Test Report


Page 1 of 1

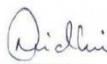
Test Report No.: ALPL/29052024/03-1 dated 29.05.2023


Issued To : M/s Ideas- Institute Of Design Education & Architectural Studies Hudkeshwar Road- Outer Ring Road, Post- Pipla, Nagpur- 440037, India Kind Attention: Mrs. Anlia Ingale Contact No.: 950366448	Sample Inward No. ALPL/25052024/EW-16/1-1 Inward Date 25.05.2024 Reference ALPL/2023-24/Proposal/W-24052024-2; 24.05.2024 Inv. No. TICLO/2405/16	Analysis Start 27.05.2023 Analysis End 29.05.2023 Sample Category Water
Sample Name/ As provided By Client Drinking Water	Sample Particulars / Details/ As provided By Client Not Mentioned	Purpose of Analysis Drinking
Sample Collected By M/s Ideas- Institute Of Design Education & Architectural Studies		Quantity Received 1 Ltr
Sampling Date : 25.05.202 Sampling Time : 05:23 PM		Sampling Location Not Mentioned
Tests Required: Coliform, pH, Colour, Odour, Turbidity, Total dissolved solids, Sulphate, Nitrate, Chloride, Calcium, Fluoride, Magnesium, Total hardness, Iron.		

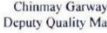
S.N.	Test Parameter	Measurement Unit	Test Method	Requirement as per IS 10500 : 2012 (Drinking Water Specifications) Including Amendment No. 4		Test Result
				Acceptable Limit	Permissible Limit *	
I Biological Testing						
I. Water						
1	Total coliform	Per 100 ml	IS 15185 : 2016	Absent	Absent	Absent
II Chemical Testing						
I. Water						
2	pH	-	IS 3025 (Part 11) : 2022	6.5 to 8.5	No relaxation	7.32
3	Colour	Hazen units	IS 3025 (Part 4) : 2021	5	15	BDL(DL- 1)
4	Odour	-	IS 3025 (Part 5) : 2018	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	IS 3025 (Part 10) : 2023	1	5	BDL(DL- 0.1)
6	Total dissolved solids	mg/l	IS 3025 (Part 16) : 2023	500	2000	106
7	Sulphate (as SO ₄)	mg/l	IS 3025 (Part 24) : 2022	200	400	4.27
8	Nitrate (as NO ₃)	mg/l	APHA 23 rd Edition:2017	45	No relaxation	3.28
9	Chloride (as Cl)	mg/l	IS 3025 (Part 32) : 1988	250	1000	22.17
10	Calcium (as Ca)	mg/l	IS 3025 (Part 40) : 1991	75	200	9.6
11	Fluoride (as F)	mg/l	IS 3025 (Part 60) : 2008	1.0	1.5	BDL(DL- 0.1)
12	Magnesium (as Mg)	mg/l	IS 3025 (Part 46) : 1994	30	100	3.40
13	Total hardness (as CaCO ₃)	mg/l	IS 3025 (Part 21) : 2009	200	600	38
III 2. Residues in Water						
14	Iron (as Fe)	mg/l	IS 3025 (Part 2) : 2019	1.0	No relaxation	0.04

NOTES: * Please see watermark "Original Test Report" to confirm the authenticity of this report. * Results shall be referred to tested sample(s) and applicable to tested parameters only. * Test report shall not be reproduced except in full without prior written approval of Anacon Labs. * Liability of Anacon Labs is limited to invoiced amount only. * Non-persakable and persakable sample(s) shall be disposed of after 30 days and 15 days respectively from the date of issue of Test Report, unless specified otherwise. * mg/l is equivalent to ppm. * BDL- Below detection limit * DL- Indicates detection limit of instrument/method and shall be considered as 'absent'.
 REMARKS: As requested by the client, sample was tested for above parameters only. The submitted sample complies with requirements as per IS 10500 : 2012, for tested parameters only.



 Verified By
 Snehal Raut
 Technical Manager


 Nidhi Dubey
 Dy. Technical Manager


 Authorized Signatories
 Pooja Khatke
 Technical Manager


 Chinmay Garway
 Deputy Quality Manager

-----END OF REPORT-----



Thank you for instilling your trust and faith in our services. We cherish our relationship with you, and we put in a lot of hard work in making sure that you get a seamless experience at every stage of your interaction with us. In our constant endeavor towards ensuring that your next experience will be significantly better than the current one, we welcome your feedback on feedback@anacon.in.



Swargiya Jagannath Jattewar Shikshan Sanstha , Nagpur
institute of design education & architectural Studies , Nagpur
 ENVIRONMENTAL AUDIT REPORT 2022-23

TAX INVOICE

(ORIGINAL FOR RECEIPT)



ANACON LABORATORIES PVT LTD
 FP-34/35, Butibori Food Park,
 MIDC Butibori, Five-star Industrial Estate,
 Nagpur
 Ph. No.: 9326960081
 Maharashtra - 441122, India
 GSTIN/UIN: 27AADCA0435B1ZE
 State Name : Maharashtra, Code : 27
 E-Mail : accounts@anacon.in

Invoice No. **TICLW/2405/16**
 Dated **28-May-2023**
 Mode/Terms of Payment
 Reference No. & Date. Other References
ALPL/25052024/EW-16/1 25.05.24
 Buyer's Order No. Dated
ALPL/2023-24/Proposal/W-24052024-2 24-May-2023
 Terms of Delivery
Ticket No: #65705

Buyer (Bill to)

IDEAS-Institute of Design Education and Architectural Studies
 Hudkeshwar Road - Outer Ring Road, Post - Pipla,
 Nagpur 440037 Maharashtra India, Kind Attn:Mrs
 Anita Ingale, Phone: 9503666448, Email: Admin@ideasnagpur.Edu.in
 Maharashtra - India
 State Name : Maharashtra, Code : 27
 Place of Supply : Maharashtra
 Contact : 9503666448

SI No.	Description of Services	HSN/SAC	Quantity	Rate	per	Amount
1	Water Testing Testing of Water Sample	998346	1 Nos.	2,200.00	Nos.	2,200.00
2	Priority Testing Charges	998346	1 Nos.	550.00	Nos.	550.00
						2,750.00
				9 %		247.50
				9 %		247.50
						CGST
						SGST
						Total
			2 Nos.			₹ 3,245.00
						E. & O.E

Amount Chargeable (in words)

INR Three Thousand Two Hundred Forty Five Only

HSN/SAC	Taxable Value	Rate	CGST		SGST/UTGST		Total Tax Amount
			Amount	Rate	Amount	Rate	
998346	2,750.00	9%	247.50	9%	247.50	495.00	
Total	2,750.00		247.50		247.50	495.00	

Tax Amount (in words) : **INR Four Hundred Ninety Five Only**

Company's PAN : **AADCA0435B**

Declaration
 We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct

Company's Bank Details
 Bank Name : **ICICI Bank Ltd. A/c 01894**
 A/c No. : **624205501894**
 Branch & IFS Code : **Ramdaspath, Nagpur & ICIC0005142**
 for ANACON LABORATORIES PVT LTD

Note :- We earnestly request you to send the Payment advice & Deduction details, if any for systematic Bank reconciliation at your end and as well as our end.



SUBJECT TO NAGPUR JURISDICTION

This is a Computer Generated Invoice

MAINTAINING GOOD IAQ

Intent: To ensure good indoor air quality and quantity (IAQ) for all occupants inside the building

- a) **Smoking must be banned/ prohibited within the building premises.**



No Smoking Sign Located at Entrance.

b) Make use of environment-friendly cleaning and for housekeeping materials

Environmentally friendly products are used for cleaning to avoid toxins that are present in other cleaning products.



SOLID WASTE MANAGEMENT

Intent: to promote the occupants to manage the solid waste at site level sustainably.

a) Garbage Segregation, Collection and Disposal

Wet waste from the kitchen is composted and the manure that it yields is used in landscape areas.

Dry leaves are composted using Nadep method.

Dry waste from classrooms, staff rooms and offices are segregated.

Paper and sheets are sold to identified agencies for recycling.

Single side paper is used for rough work.

The rest of dry waste is sent to landfill.

Sanitary napkins are disposed of in an incinerator.



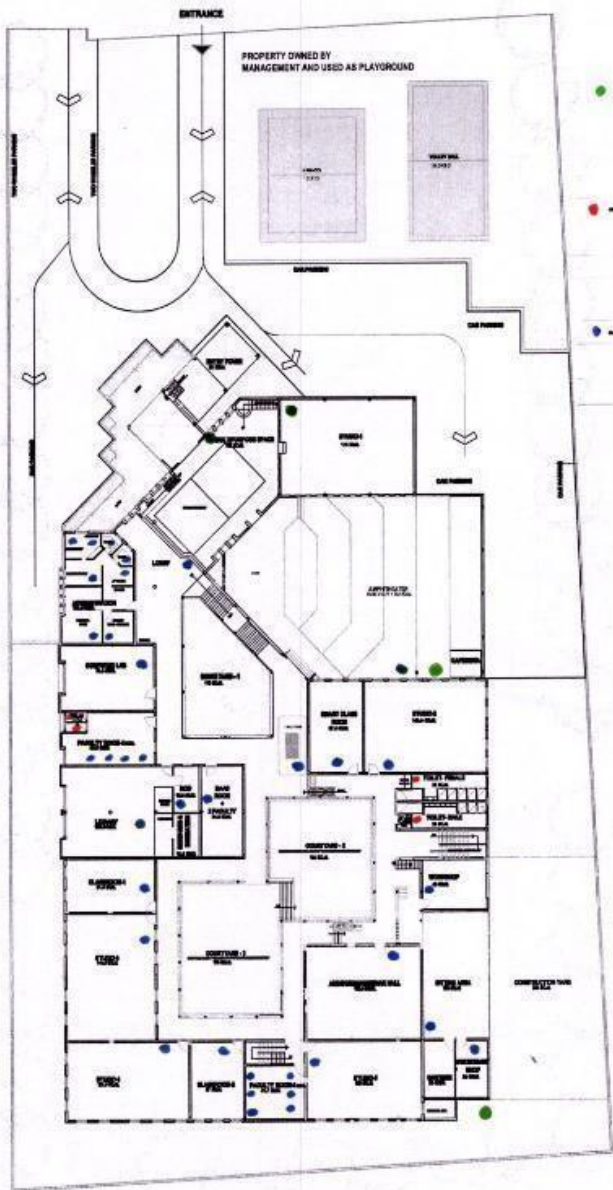
using the Nadep method in a two chamber pit



An Incinerator At Girl's Toilet

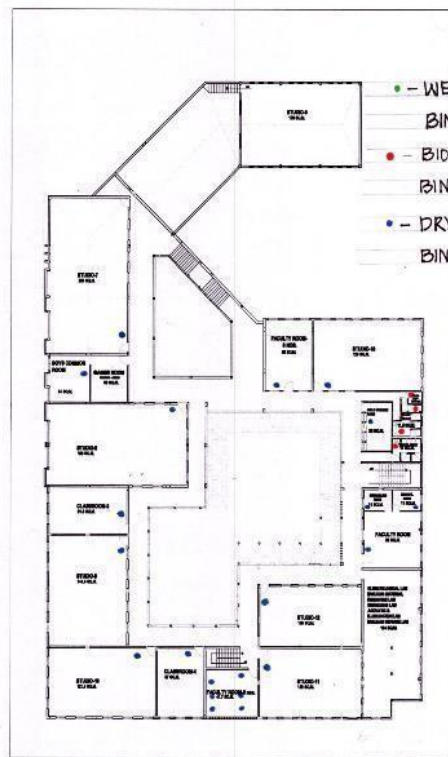
Used Paper Sent For Recycling

a) Provide (multi-colored dustbins/different garbage chutes) to building occupants to ensure segregation of waste at source



- - WET WASTE BINS
- - BIO-WASTE BINS
- - DRY WASTE BINS

GROUND FLOOR PLAN SHOWING WASTE BINS



- - WET WASTE BINS
- - BIO WASTE BINS
- - DRY WASTE BINS

1st FLOOR PLAN SHOWING WASTE BINS



Multi-Coloured Bins At Each Floor To Segregate Waste At Site

b) Treat organic waste on site

Intent: To promote recycling and reuse of organic waste on site.



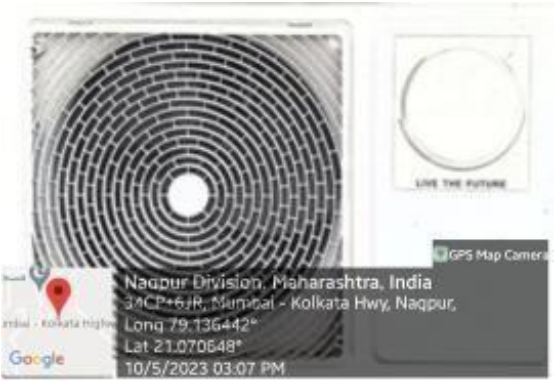



composting pit for organic waste or organic waste composter on site.

ENVIRONMENTAL AWARENESS

Intent: To increase environmental awareness amongst the building users and visitors.

a) HVAC and other cooling equipment in the building are CFC-free, with low ozone depleting potential.

1	Computer Lab		<table border="1"> <thead> <tr> <th colspan="2">SPLIT AIR CONDITIONER</th> </tr> </thead> <tbody> <tr> <td>Model</td> <td>FLS19A3C</td> </tr> <tr> <td>Refrigerant</td> <td>R22/1300g</td> </tr> <tr> <td>Excessive Operating Pressure</td> <td>Discharge 2.45MPa Suction 0.7MPa</td> </tr> <tr> <td>Weight (Outdoor)</td> <td>38kg</td> </tr> <tr> <td>Power Source</td> <td>230V/50-Hz</td> </tr> <tr> <td>Rated Current</td> <td>13.0A</td> </tr> <tr> <td>Rated Input</td> <td>2400W</td> </tr> </tbody> </table> 	SPLIT AIR CONDITIONER		Model	FLS19A3C	Refrigerant	R22/1300g	Excessive Operating Pressure	Discharge 2.45MPa Suction 0.7MPa	Weight (Outdoor)	38kg	Power Source	230V/50-Hz	Rated Current	13.0A	Rated Input	2400W						
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<p>3a</p>	<p>Principal's office</p>		<table border="1"> <thead> <tr> <th colspan="2">SPLIT TYPE AIR CONDITIONER</th> </tr> </thead> <tbody> <tr> <td>MODEL</td> <td>FLS23AAA</td> </tr> <tr> <td>INDOOR MODEL</td> <td>FLS23AAA</td> </tr> <tr> <td>OUTDOOR MODEL</td> <td>FLS23AAA</td> </tr> <tr> <td>COOLING CAPACITY</td> <td>23100Btu/h</td> </tr> <tr> <td>HEATING CAPACITY</td> <td>---</td> </tr> <tr> <td>EXCESSIVE OPERATING PRESSURE</td> <td>DISCHARGE 2.6MPa SUCTION 1.0MPa</td> </tr> <tr> <td>WEIGHT(INDOOR)</td> <td>14.5kg</td> </tr> <tr> <td>POWER SOURCE</td> <td>220-240V~ 50Hz 1Ph</td> </tr> <tr> <td rowspan="2">STANDARD RATING CONDITIONS</td> <td>COOLING CURRENT 16.5A</td> </tr> <tr> <td>INPUT 225W</td> </tr> <tr> <td rowspan="2">HEATING CURRENT</td> <td>INPUT ---</td> </tr> <tr> <td>INPUT ---</td> </tr> <tr> <td>RATED CURRENT</td> <td>16.0A</td> </tr> <tr> <td>RATED INPUT</td> <td>3000W</td> </tr> </tbody> </table> <p>LLOYD</p>	SPLIT TYPE AIR CONDITIONER		MODEL	FLS23AAA	INDOOR MODEL	FLS23AAA	OUTDOOR MODEL	FLS23AAA	COOLING CAPACITY	23100Btu/h	HEATING CAPACITY	---	EXCESSIVE OPERATING PRESSURE	DISCHARGE 2.6MPa SUCTION 1.0MPa	WEIGHT(INDOOR)	14.5kg	POWER SOURCE	220-240V~ 50Hz 1Ph	STANDARD RATING CONDITIONS	COOLING CURRENT 16.5A	INPUT 225W	HEATING CURRENT	INPUT ---	INPUT ---	RATED CURRENT	16.0A	RATED INPUT	3000W
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b) Plant native trees on site at the proportion of 1 mature tree per 80sqm of the plot area.

Total area of Institute = 8172 sqm.

No. of trees required @ 1 mature tree per 80sqm = 102 trees

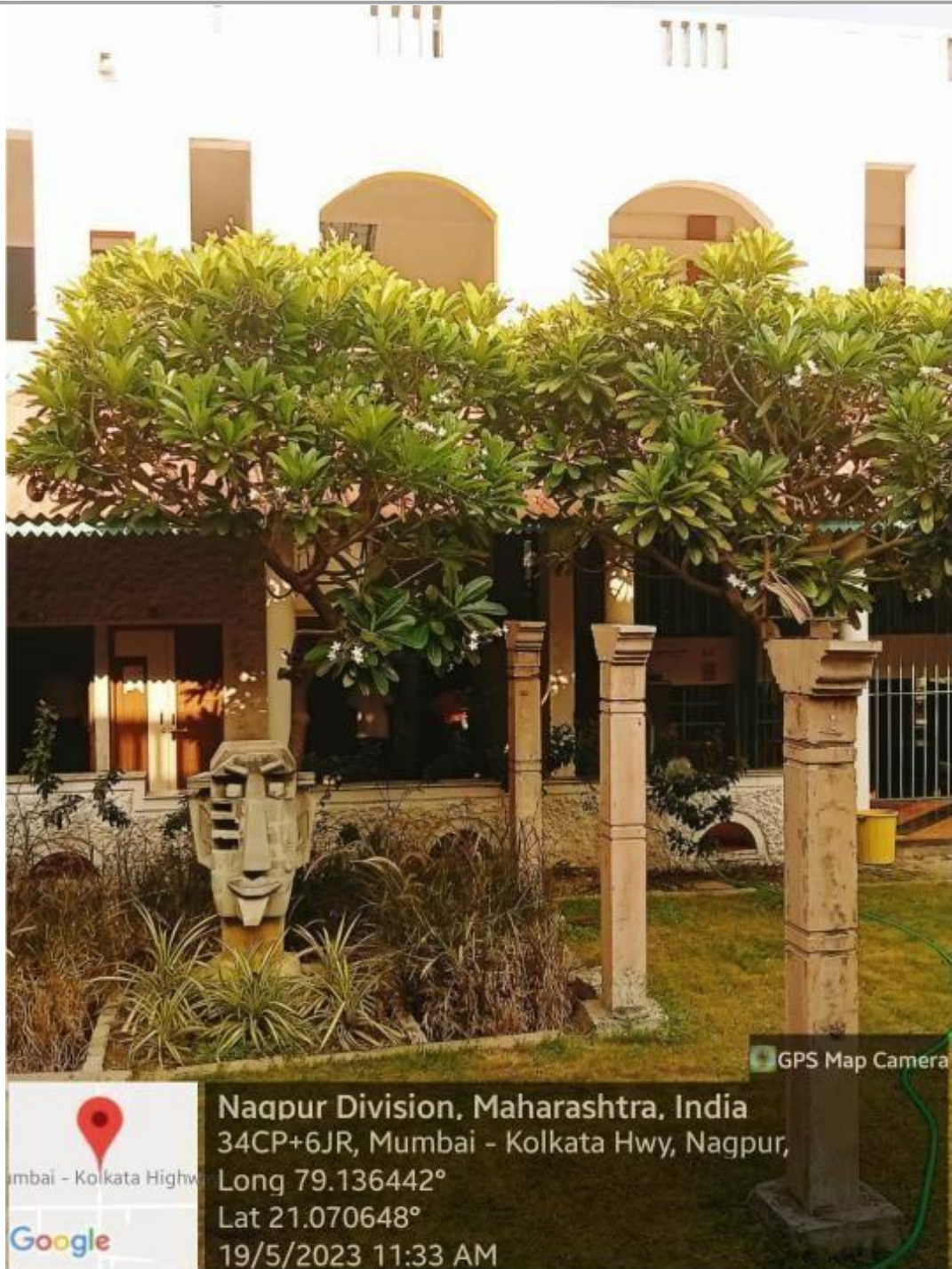
The college has 300 trees.



Photos showing trees on the campus.

FLORA AND FAUNA IN COLLEGE CAMPUS





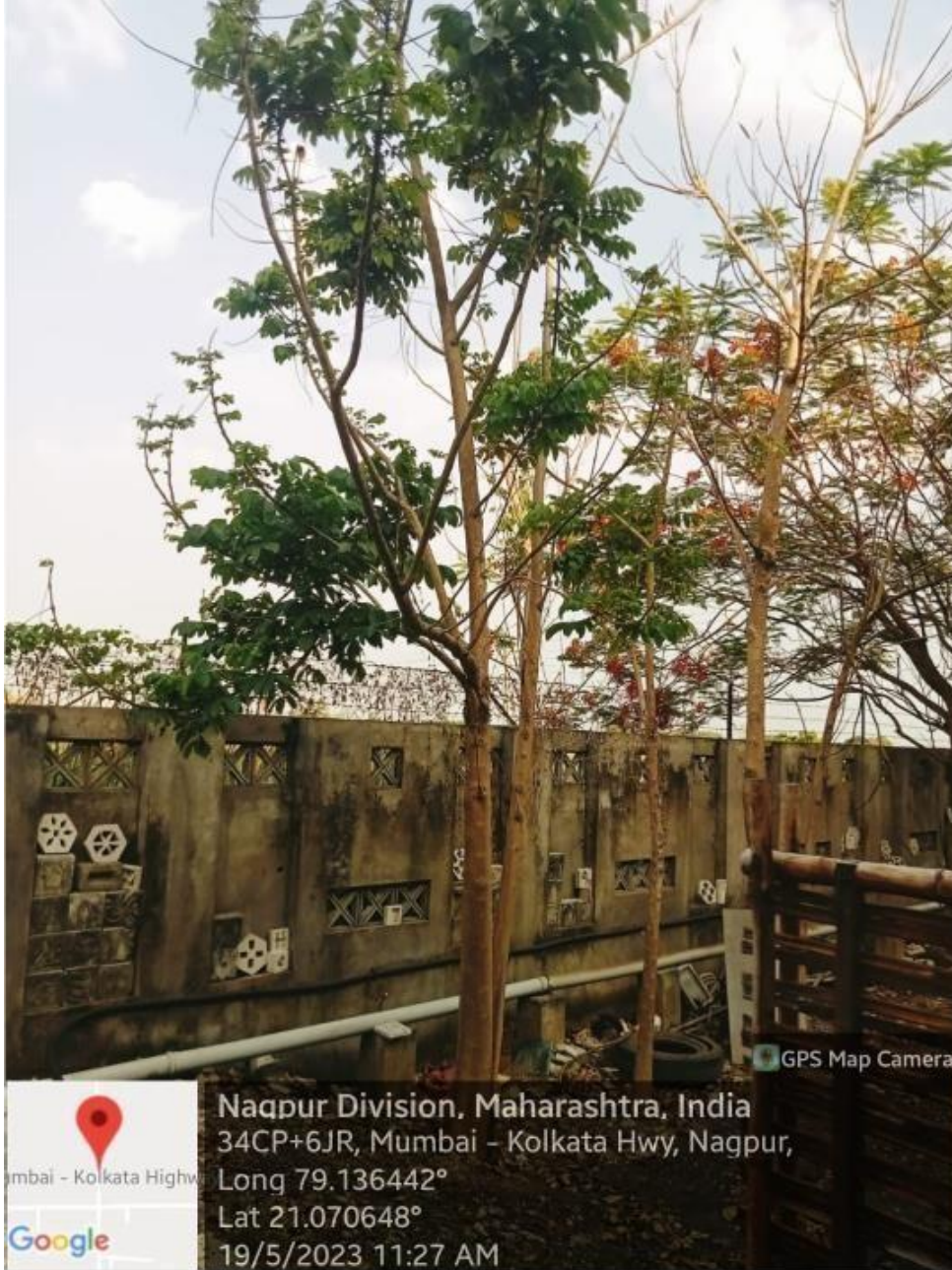
Common name	Botanical name	No. of trees
Champa	Plumeria alba	18



Common name	Botanical name	No. of trees
Kadamb	<i>Anthrocephalus kadamba</i>	3



Common name	Botanical name	No. of trees
Golden Bamboo	Bambusa vulgaris	150



Common name	Botanical name	No. of trees
spathodia	Spathodia campanulata	2



Nagpur Division, Maharashtra, India
 34CP+6JR, Mumbai - Kolkata Hwy, Nagpur,
 Long 79.136442°
 Lat 21.070648°
 19/5/2023 11:27 AM

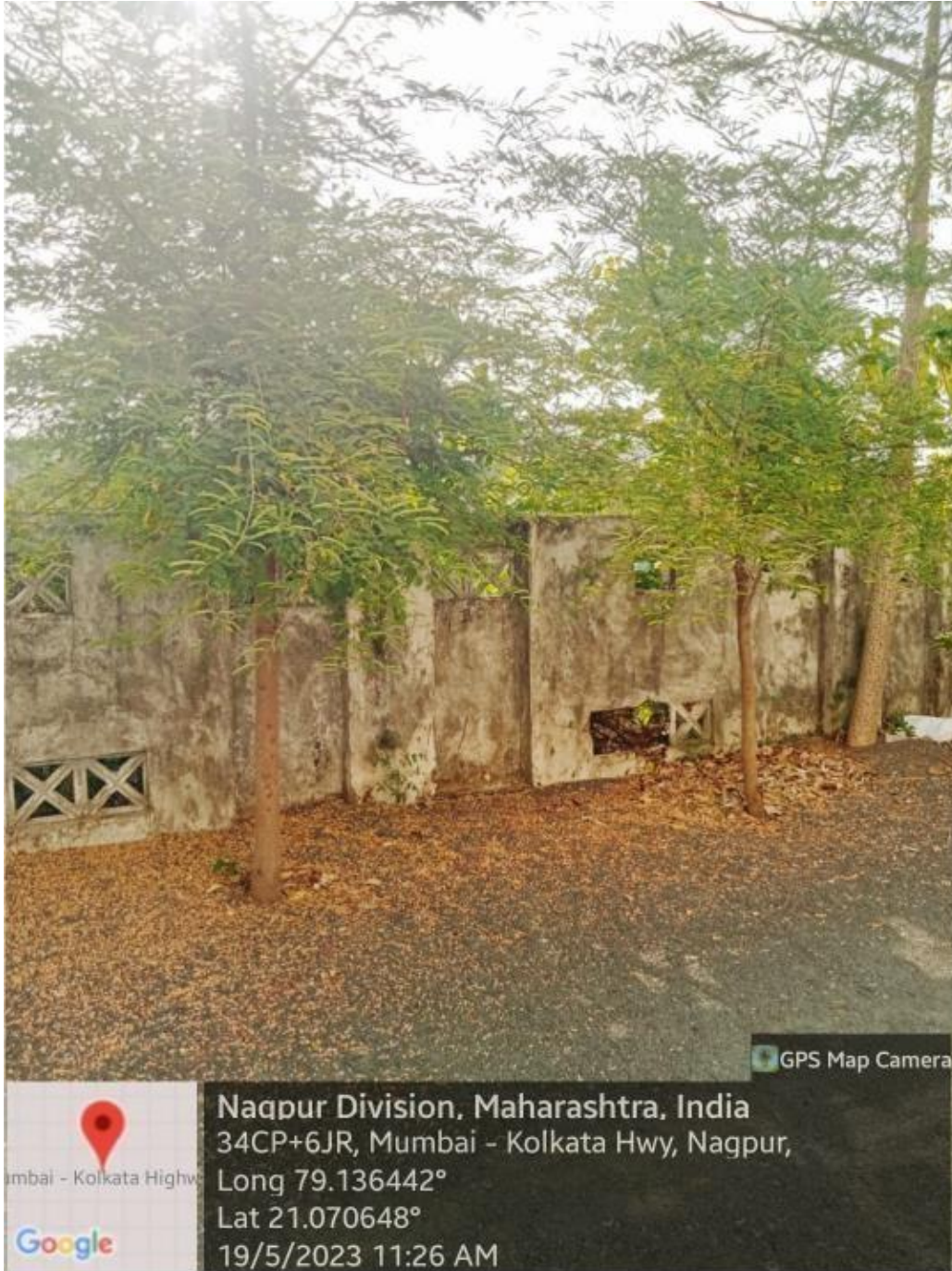
Common name	Botanical name	No. of trees
Gulmohar/ flame tree	Delonix regia	24



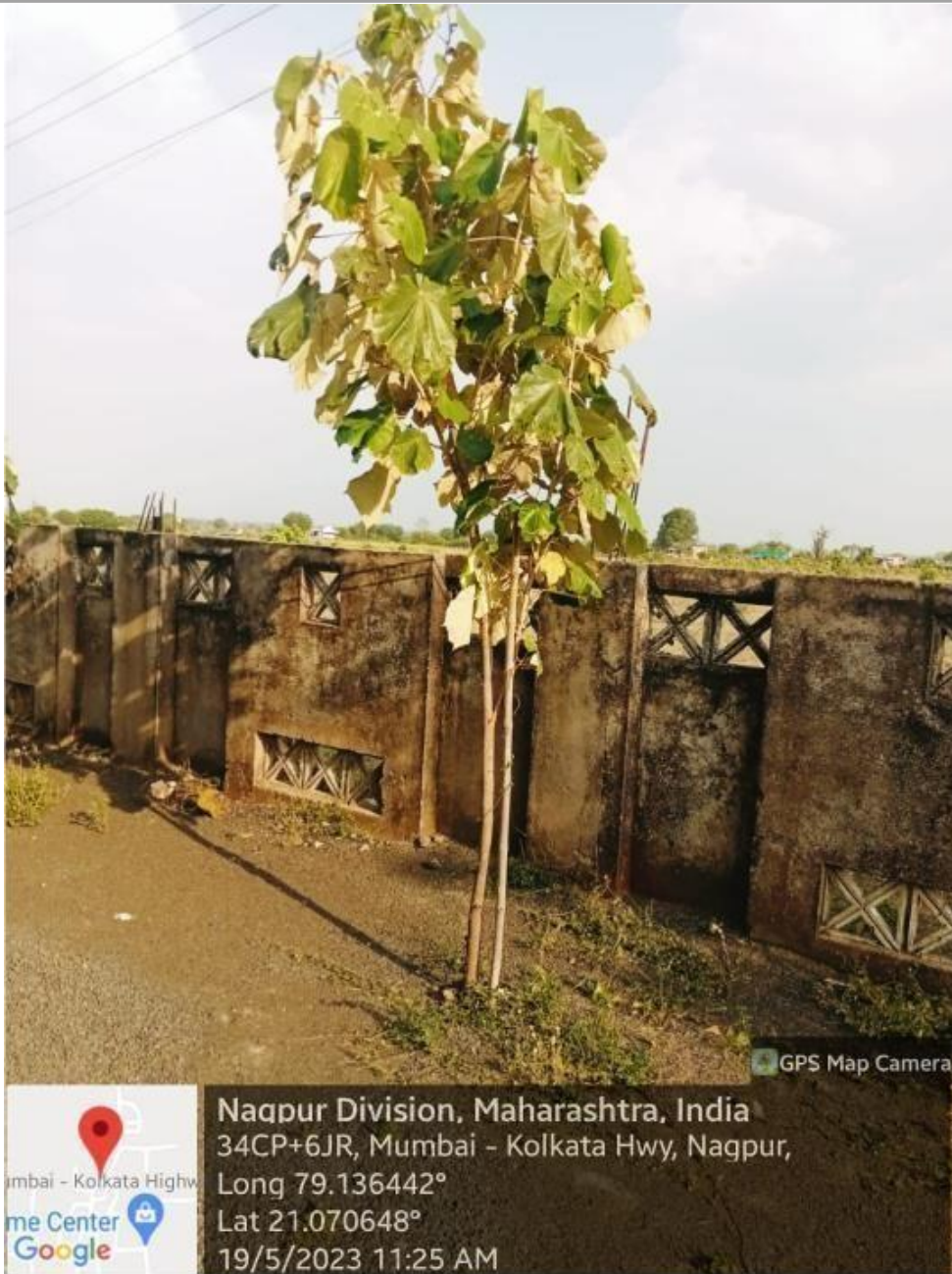
Common name	Botanical name	No. of trees
Mahuaa	Madhuca longifolia	4



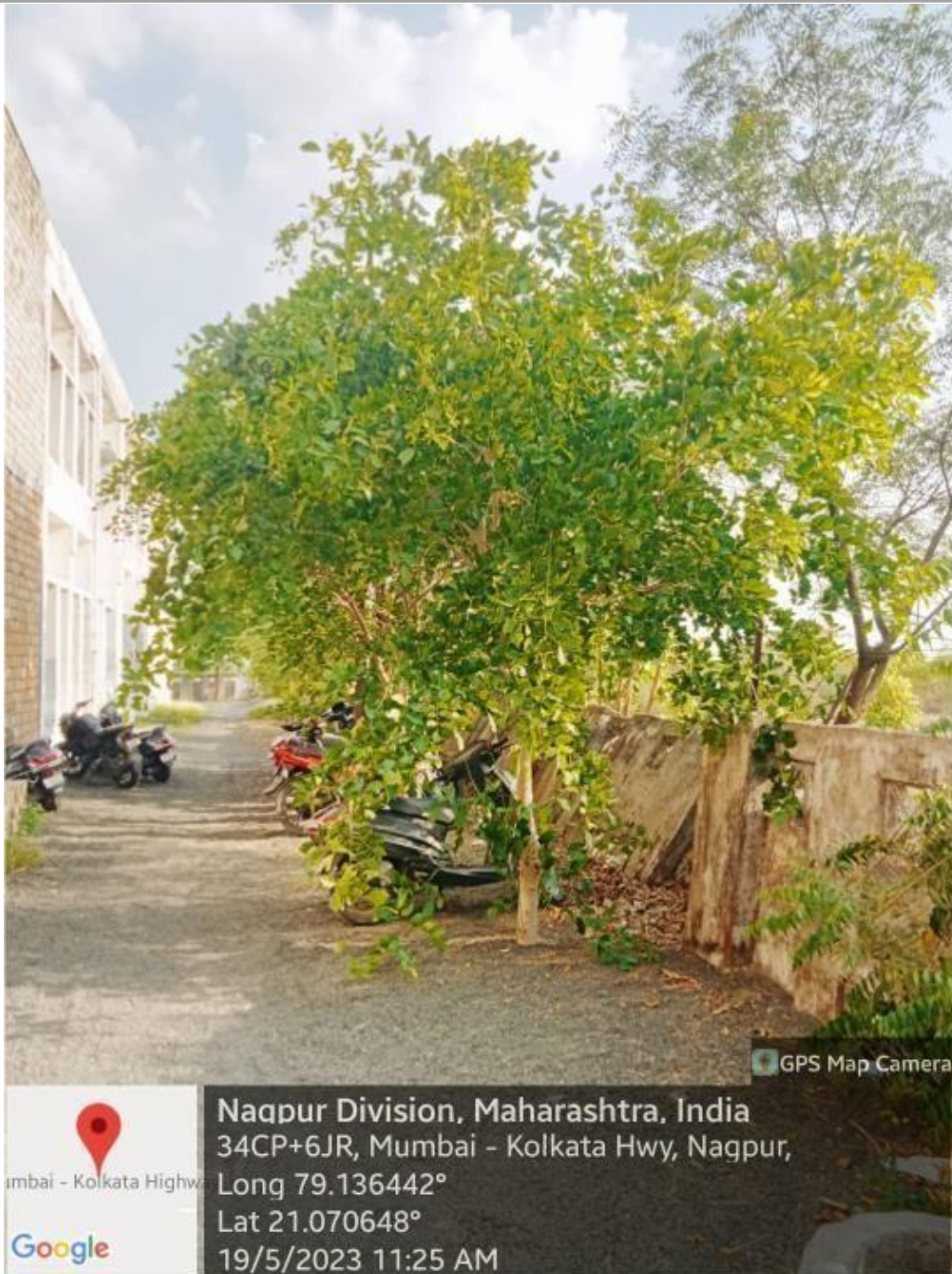
Common name	Botanical name	No. of trees
Nimbu	Citrus limon (Nimbuka)	4



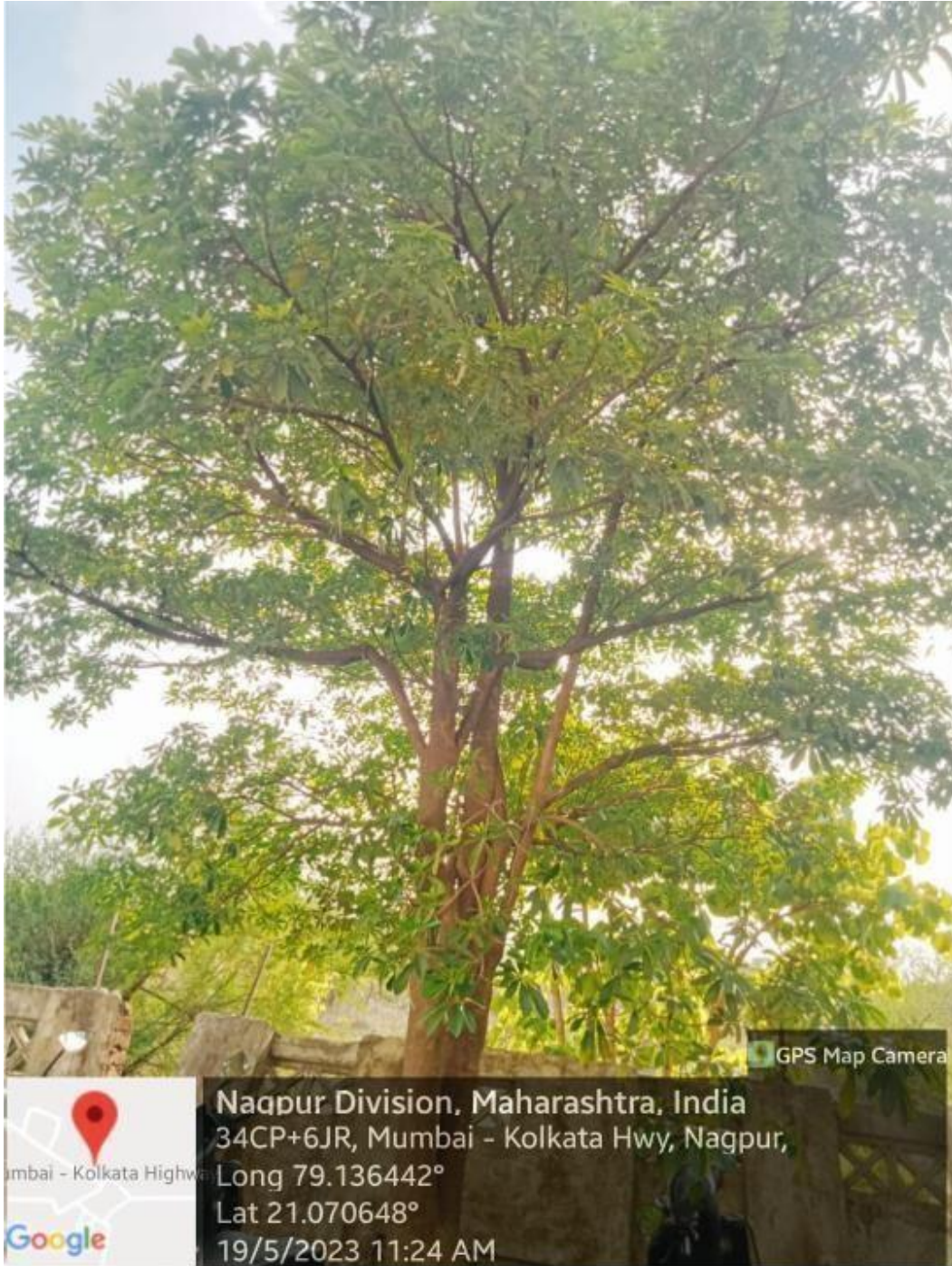
Common name	Botanical name	No. of trees
Chinch / Tamarind	Tamarindus indica	4



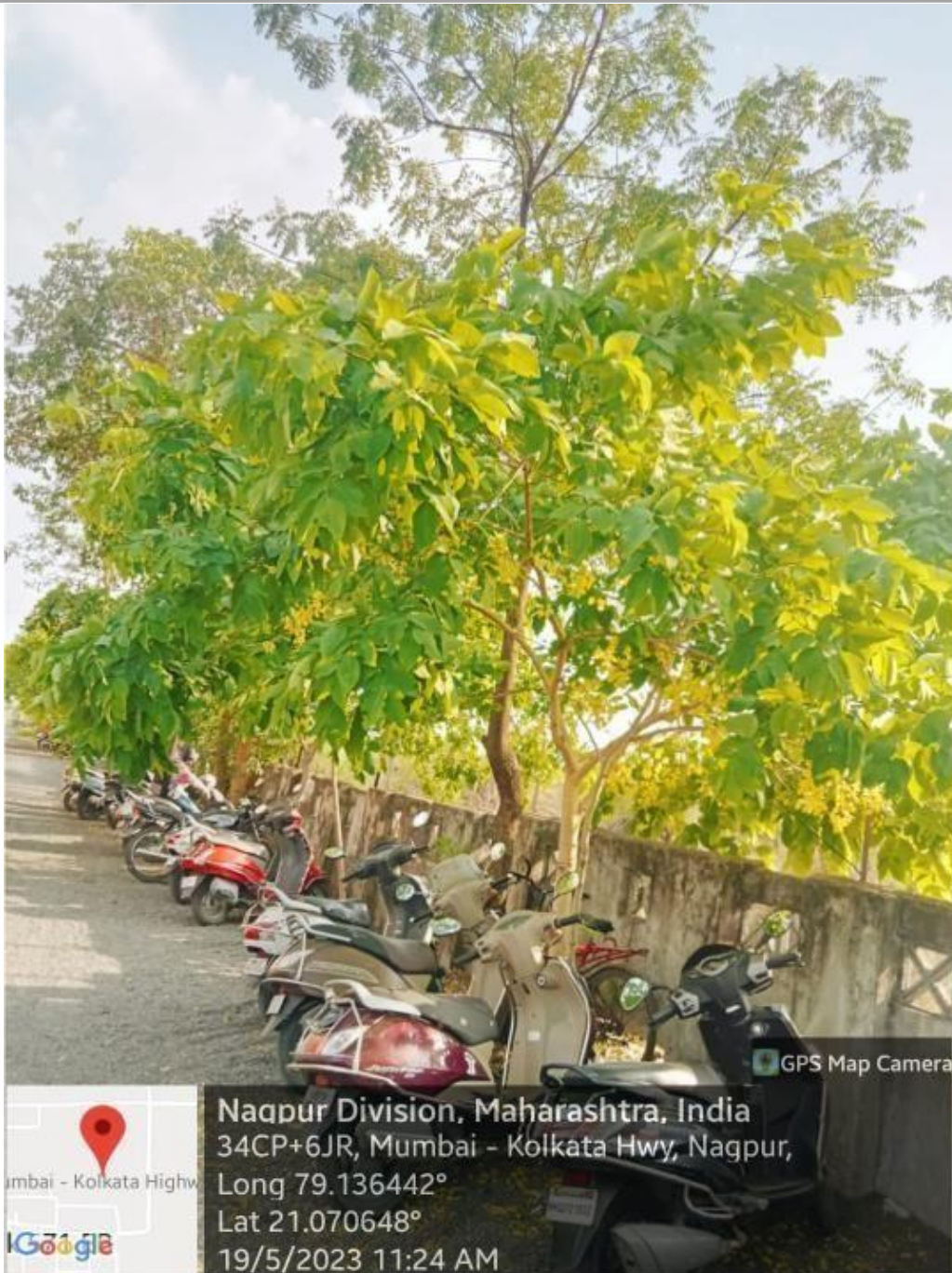
Common name	Botanical name	No. of trees
Kanak Chafa	Pterospermum acerifolium	10



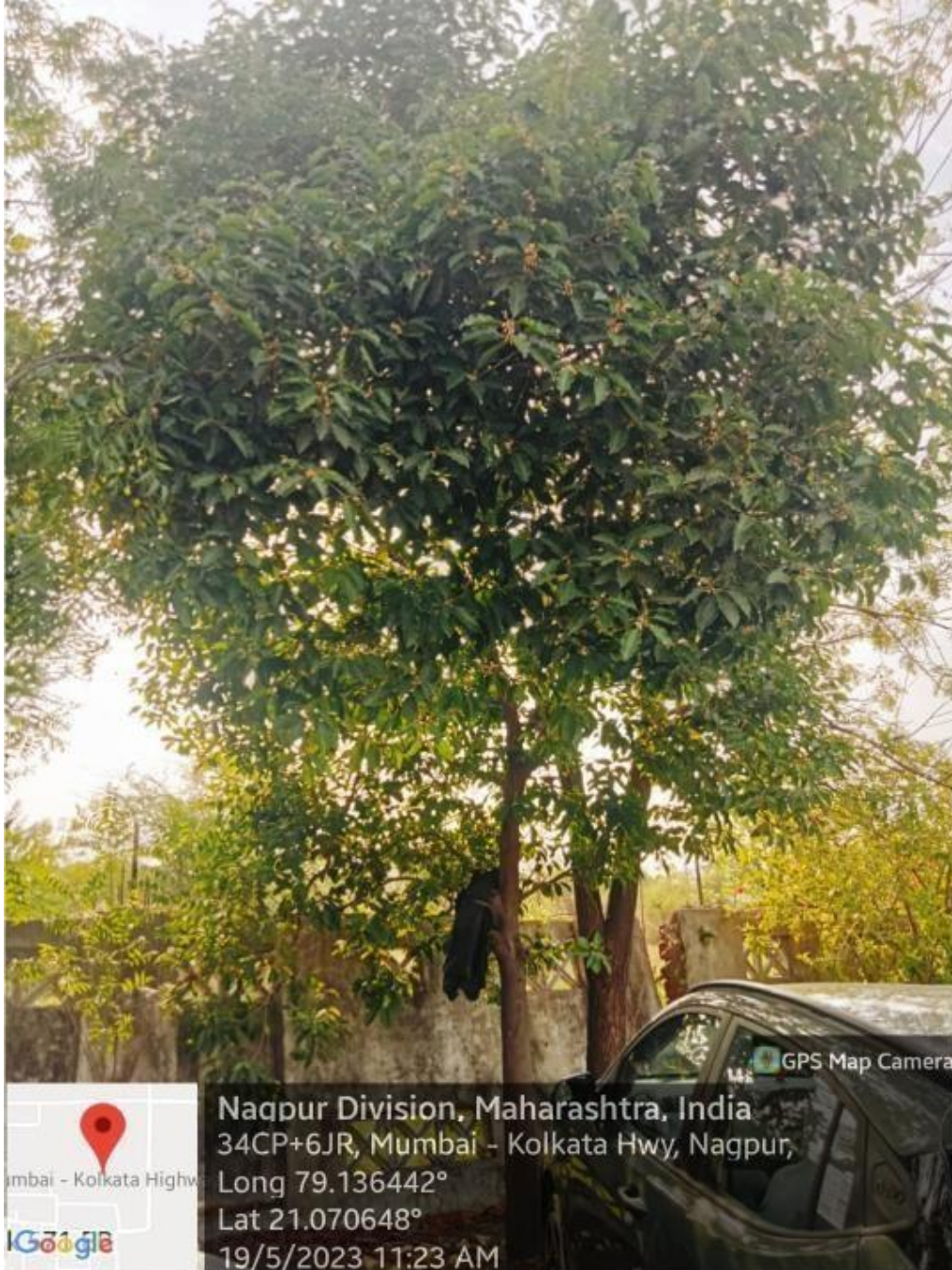
Common name	Botanical name	No. of trees
Karanja	Millettia Pinnata	20



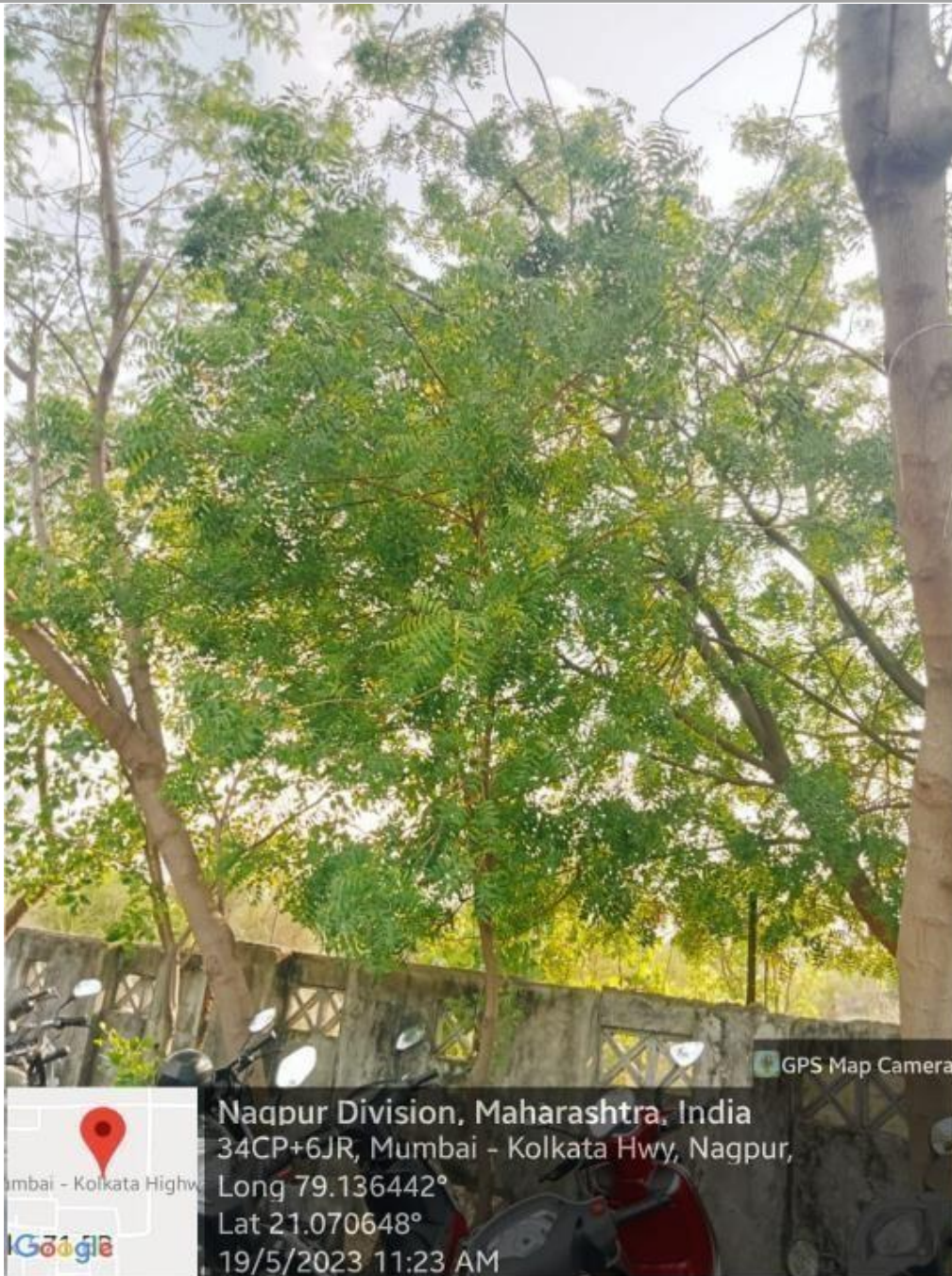
Common name	Botanical name	No. of trees
Saptaparni	Alstonia scholaris	4



Common name	Botanical name	No. of trees
Amaltas	Cassia fistula	20



Common name	Botanical name	No. of trees
Bakul	Mimusops elengi	4



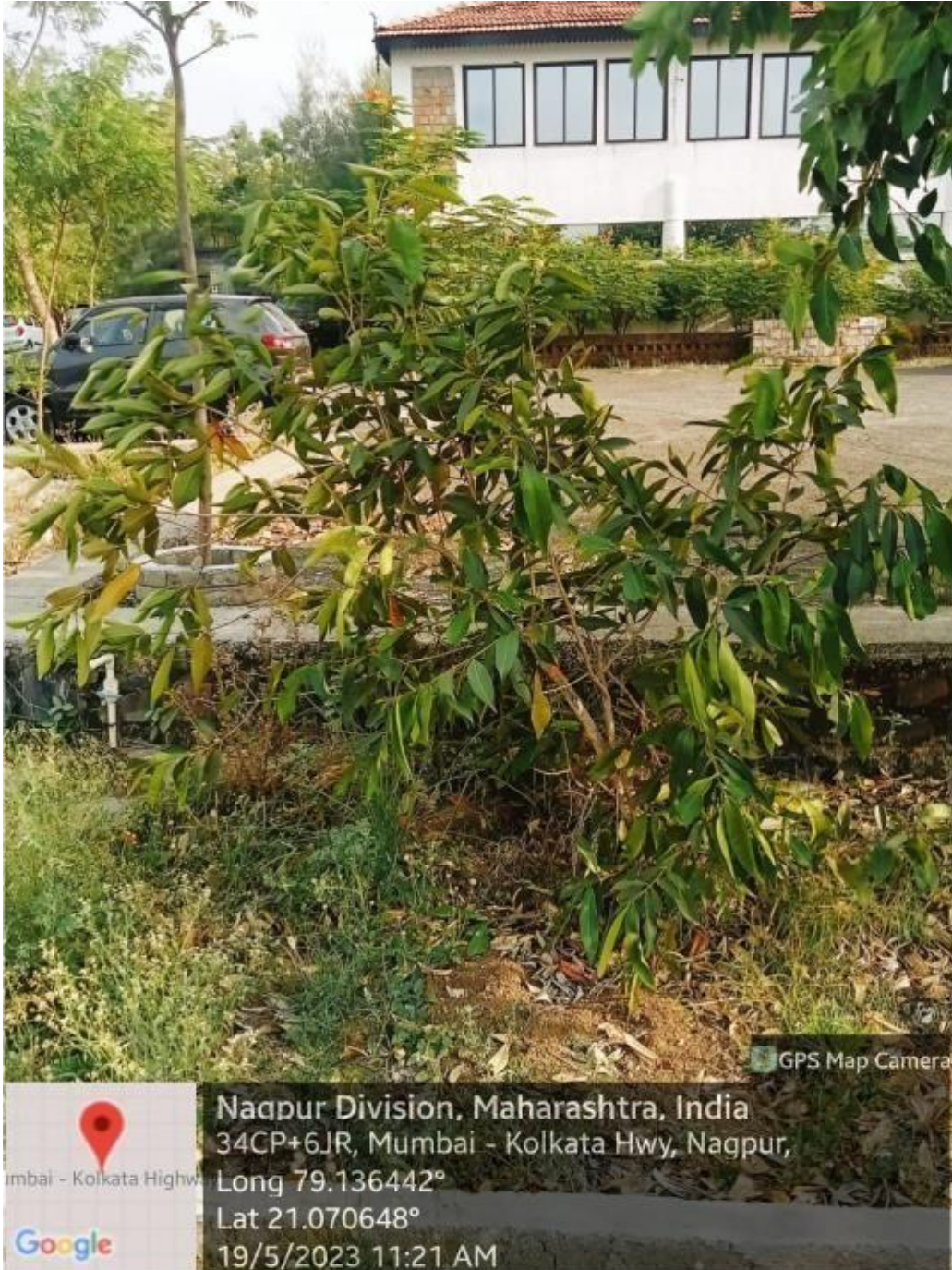
Common name	Botanical name	No. of trees
Neem	Azadirachta indica	10



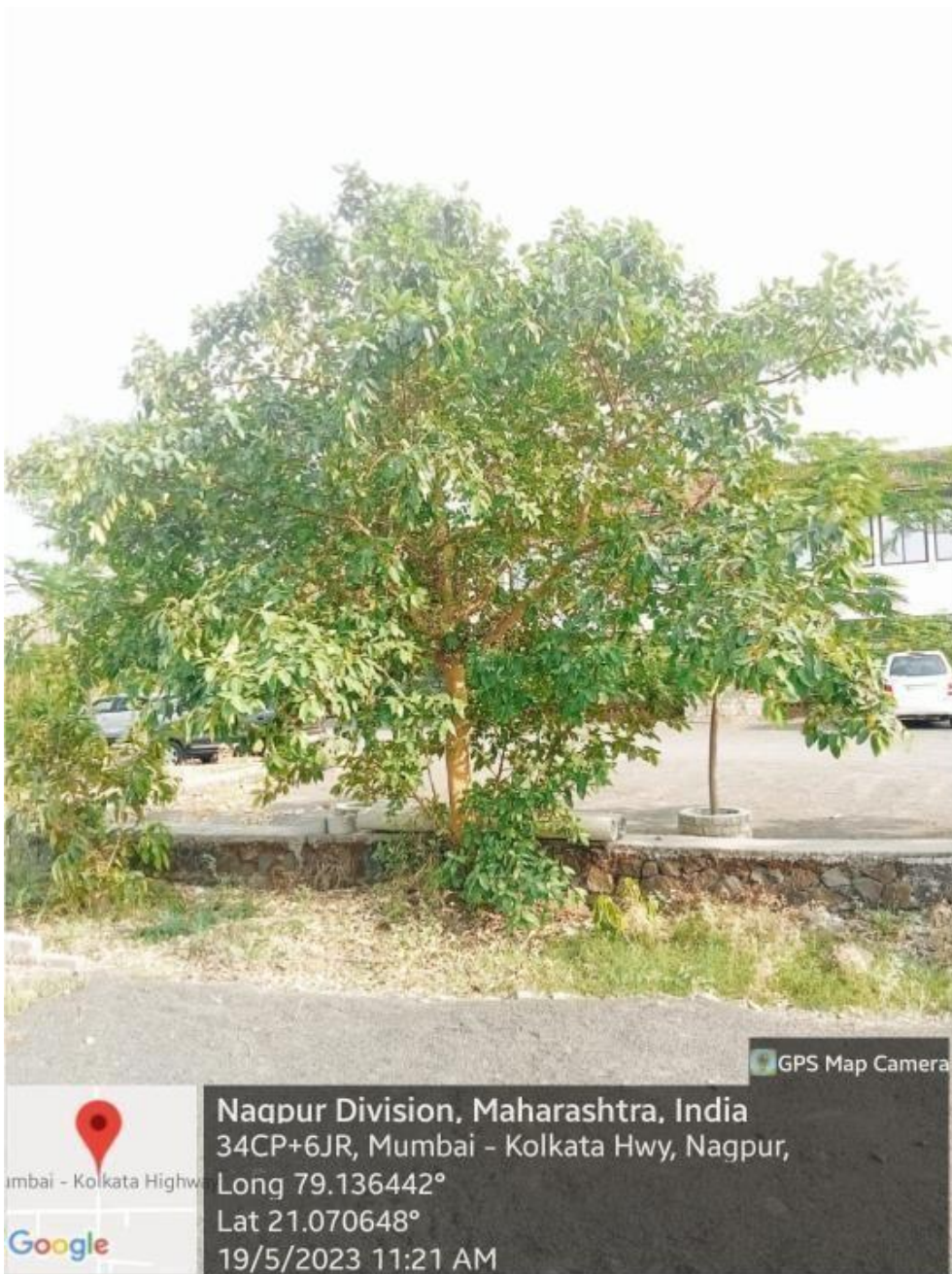
Common name	Botanical name	No. of trees
Saru	Casuarina Equisetifolia	10



Common name	Botanical name	No. of trees
Mango	Mangifera indica	2



Common name	Botanical name	No. of trees
Jamun	Syzygium cumini	2

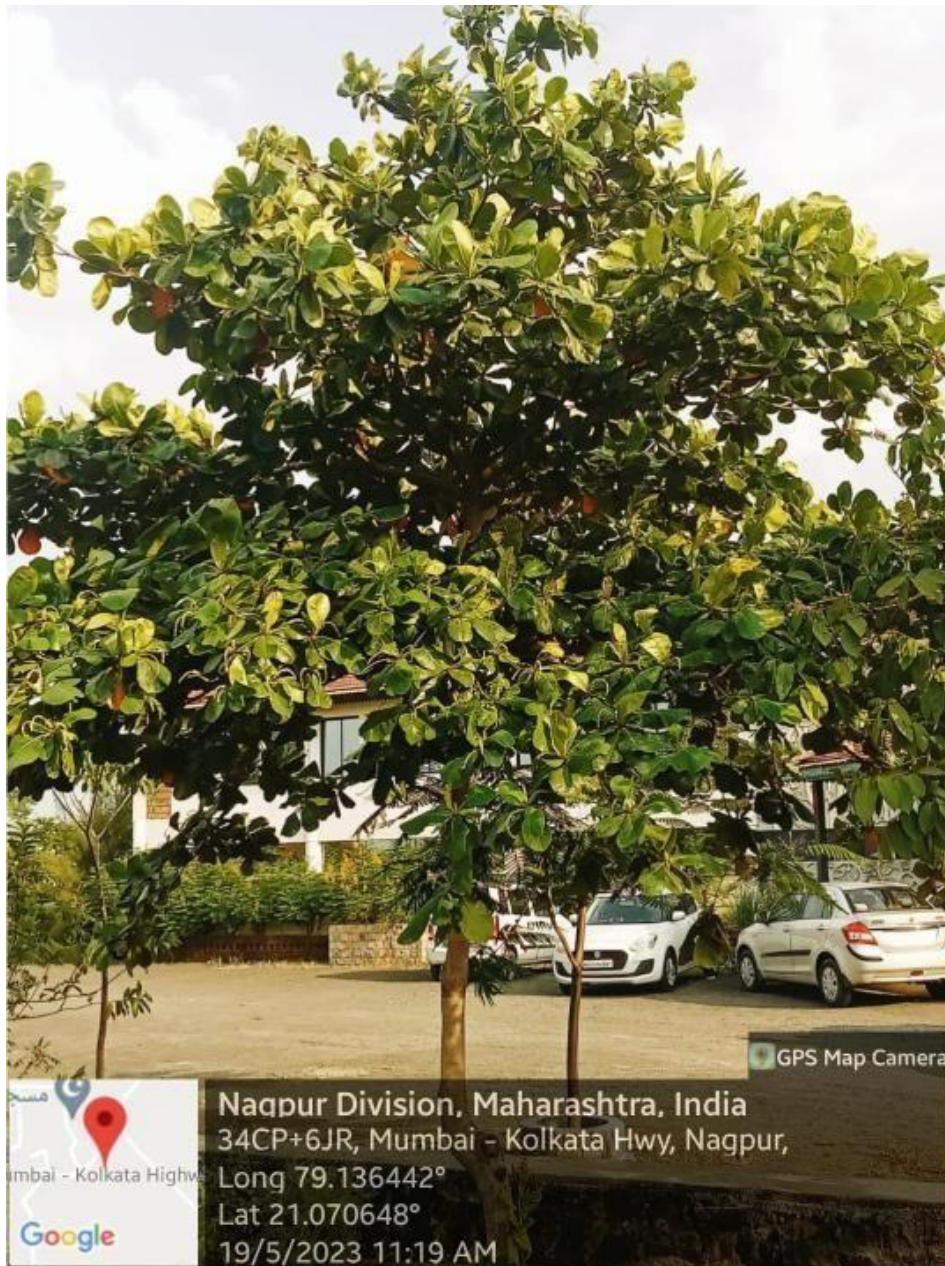


Common name	Botanical name	No. of trees
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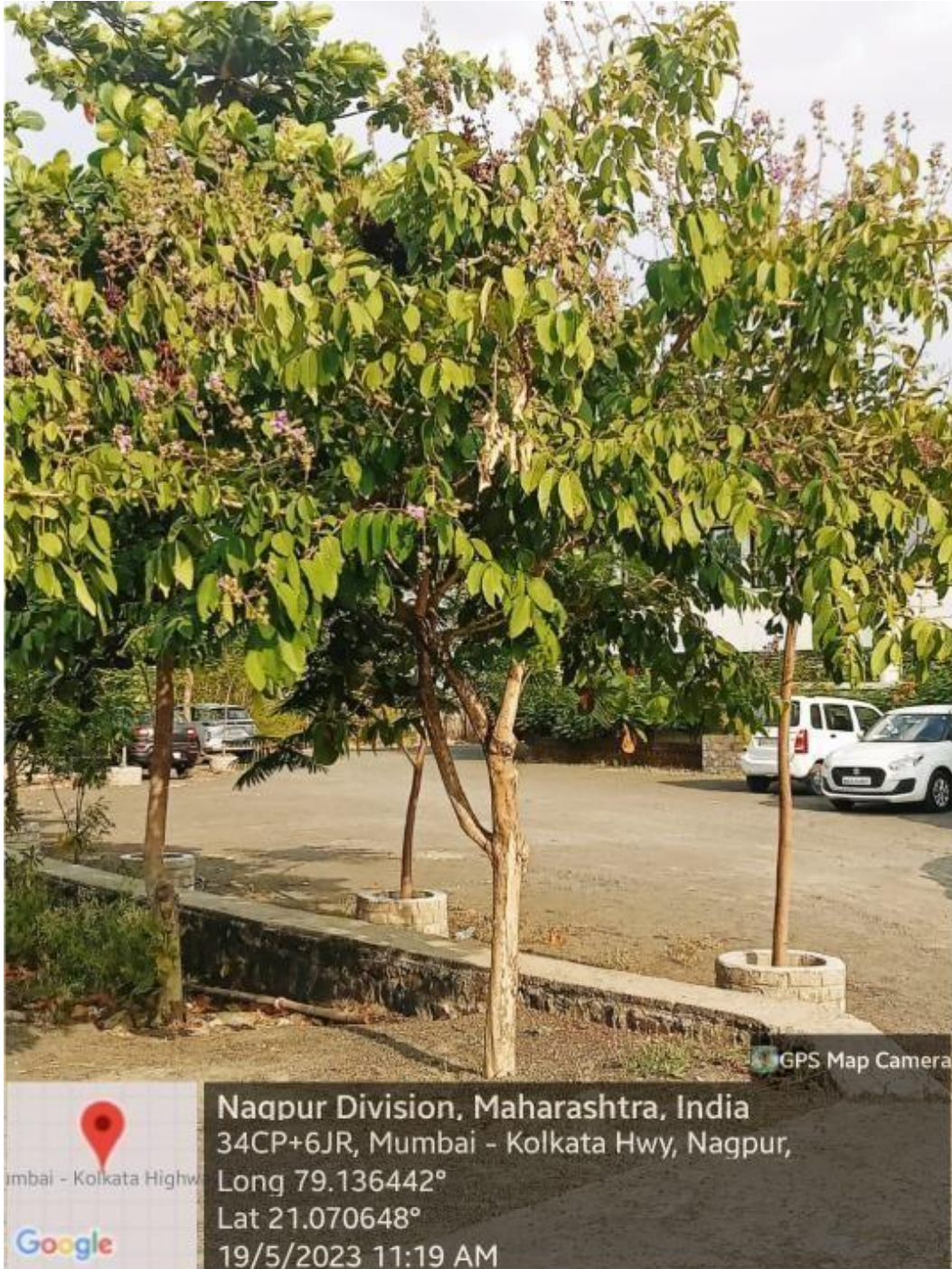
Umbar	Ficus infectoria	2
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Common name	Botanical name	No. of trees
Peru/Guava	Psidium guajava	12



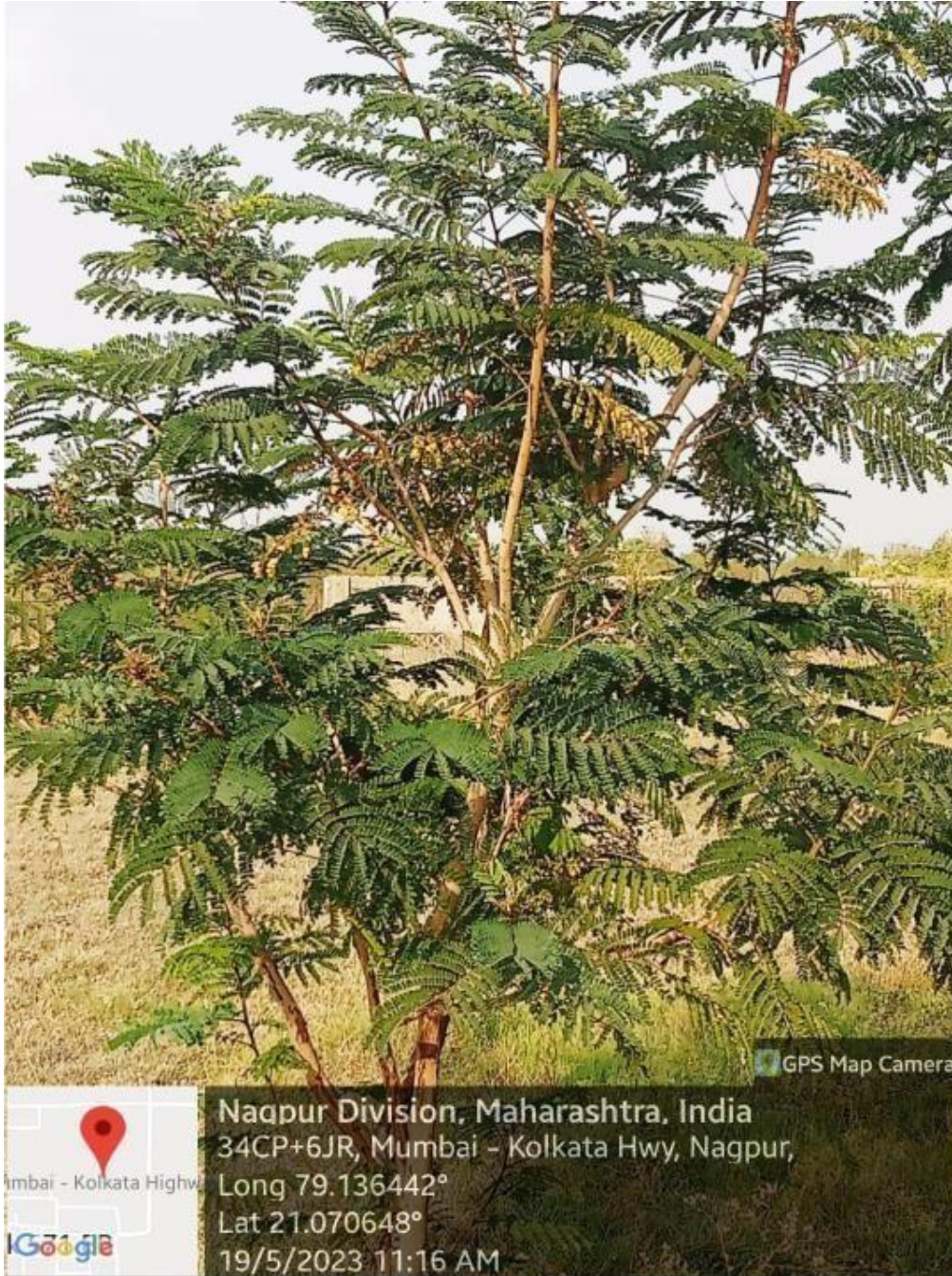
Common name	Botanical name	No. of trees
Badam	Prunus dulcis	2



Common name	Botanical name	No. of trees
Pride of India	Lagerstroemia speciosa	2



Common name	Botanical name	No. of trees
Bauhinia	Bauhinia variegata	4



Common name	Botanical name	No. of trees
Pelto forrum	Pelto ferrugeniun	9



Common name	Scientific name
Snake	Naja naja



Common name	Scientific name
House Lizard	Hemidactylus frenatus



Common name	Scientific name
Scorpion	Scorpiones



Common name	Scientific name
chameleon	Chamaeleonidae



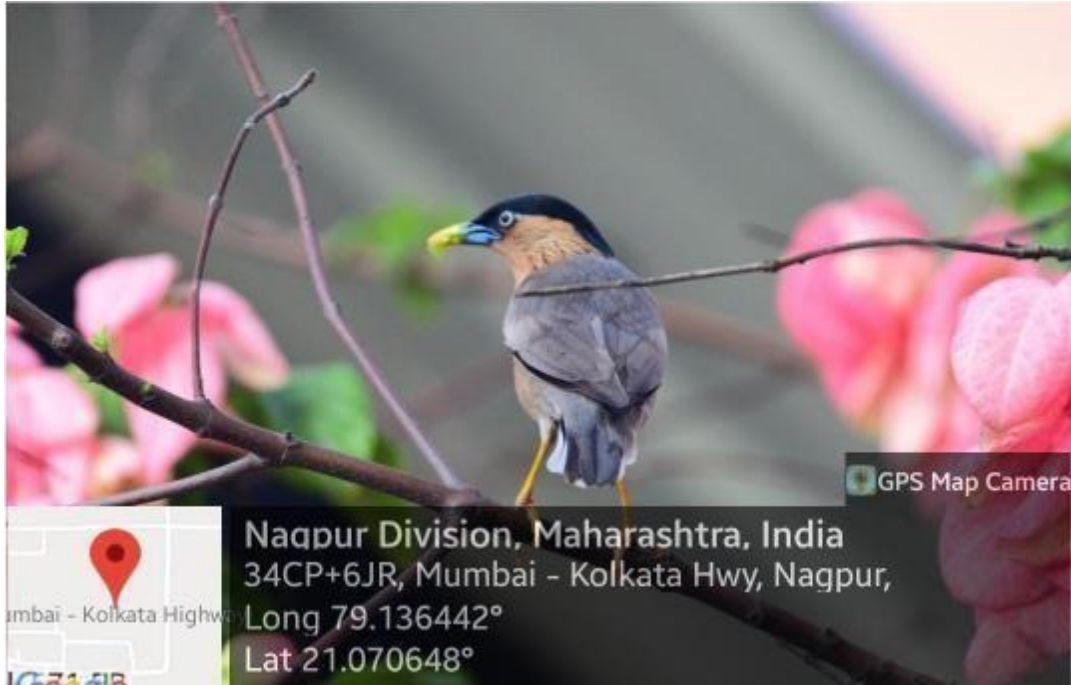
Common name	Scientific name
Yellow Sunbird	Cinnyris jugularis



Common name	Scientific name
House crow	Corvus splendens



Common name	Scientific name
Toad	Bufo melanostictus



Common name	Scientific name
Brahminy starling	<i>Sturnia pagodarum</i>



Common name	Scientific name
Squirrel	<i>Funambulus palmarum</i>



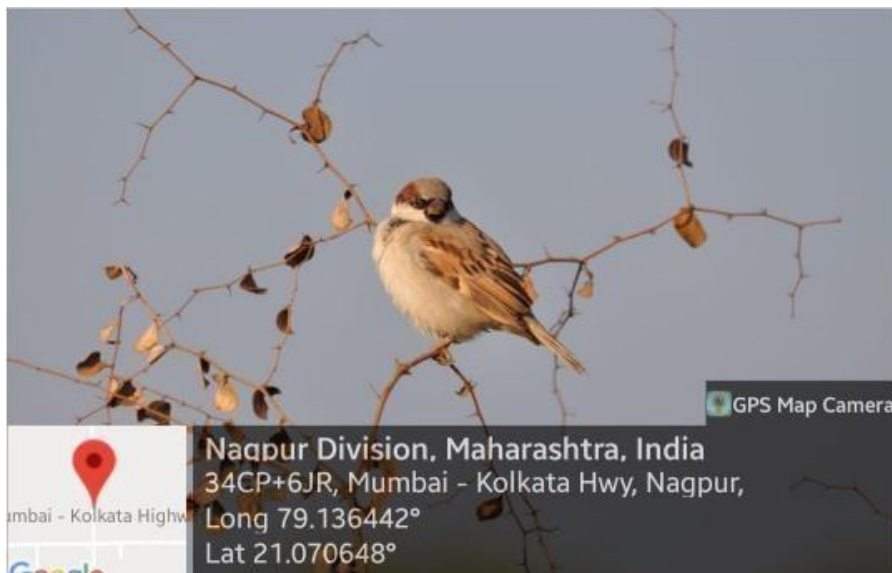
Common name	Scientific name
Yellow footed green pigeon	Treron phoenicopterus



Common name	Scientific name
purple-rumped sunbird	Leptocoma zeylonica



Common name	Scientific name
Mayna	Acridotheres tristis



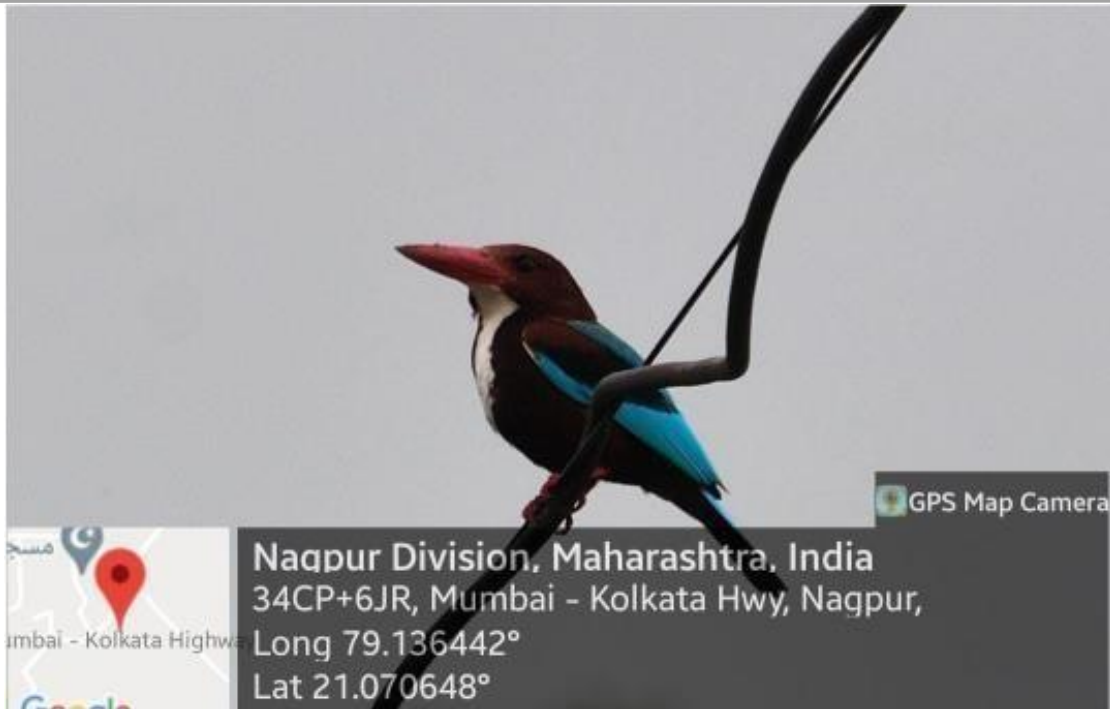
Common name	Scientific name
Sparrow	Passer domesticus



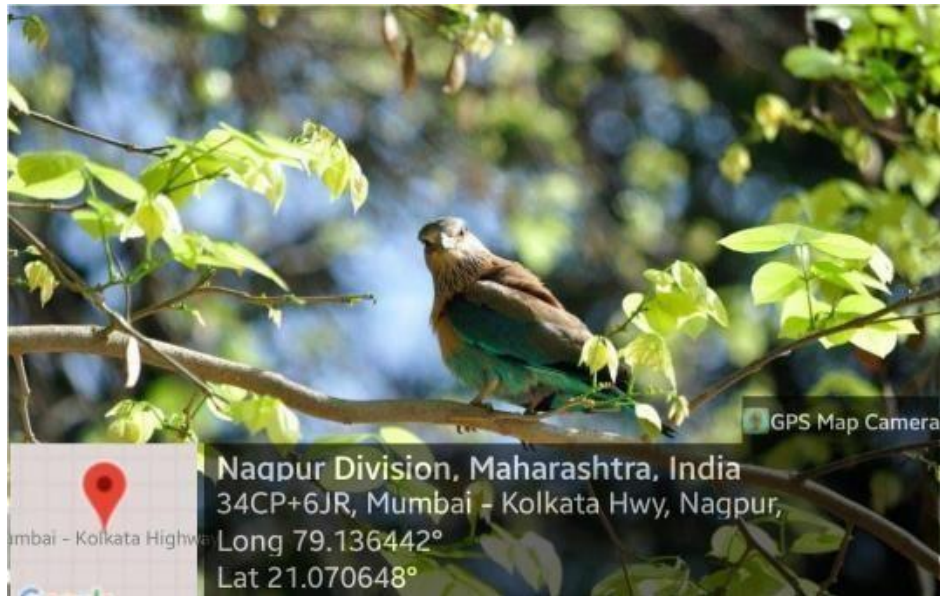
Common name	Scientific name
shikara	Accipiter badius



Common name	Scientific name
Robin	Saxicoloides fulicatus



Common name	Scientific name
King fisher	Alcedo atthis



Common name	Scientific name
Babbler	Timaliidae



Common name	Scientific name
Parrot	Psittacula krameri



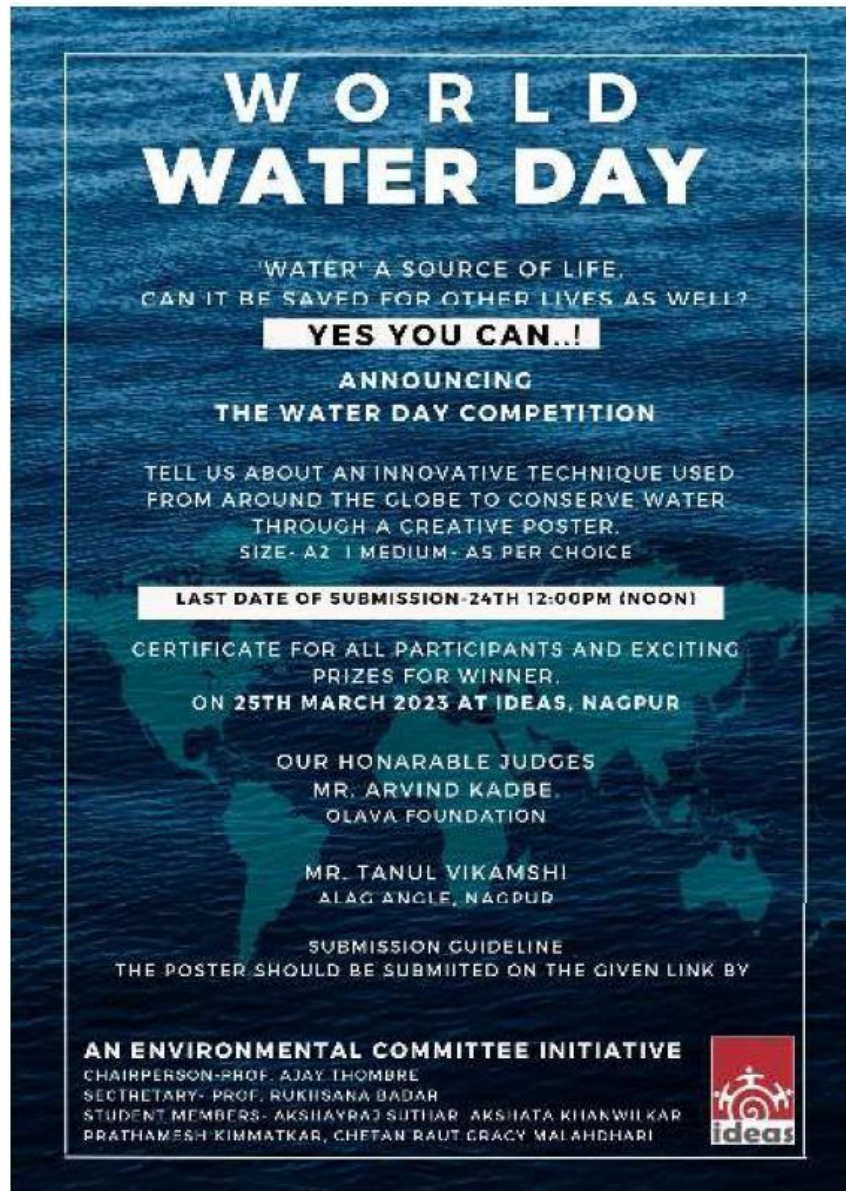
Common name	Scientific name
Indian Spotted dove	Streptopelia chinensis



Common name	Scientific name
Owlet	Strigiformes

ROUTINE GREEN PRACTICES

Every year the college celebrates World Environment Day, World Water Day, and Ozone Day in the campus. The focus of these programs was to provide awareness to the students about the importance of the environment, its conservation and sustainable use of environmental resources. The programs are conducted through seminars, poster presentation, quiz competition debates etc.



WORLD WATER DAY

'WATER' A SOURCE OF LIFE.
CAN IT BE SAVED FOR OTHER LIVES AS WELL?

YES YOU CAN..!

**ANNOUNCING
THE WATER DAY COMPETITION**

TELL US ABOUT AN INNOVATIVE TECHNIQUE USED
FROM AROUND THE GLOBE TO CONSERVE WATER
THROUGH A CREATIVE POSTER.
SIZE- A2 | MEDIUM- A5 PER CHOICE

LAST DATE OF SUBMISSION- 24TH 12:00PM (NOON)


CERTIFICATE FOR ALL PARTICIPANTS AND EXCITING
PRIZES FOR WINNER.
ON 25TH MARCH 2023 AT IDEAS, NAGPUR

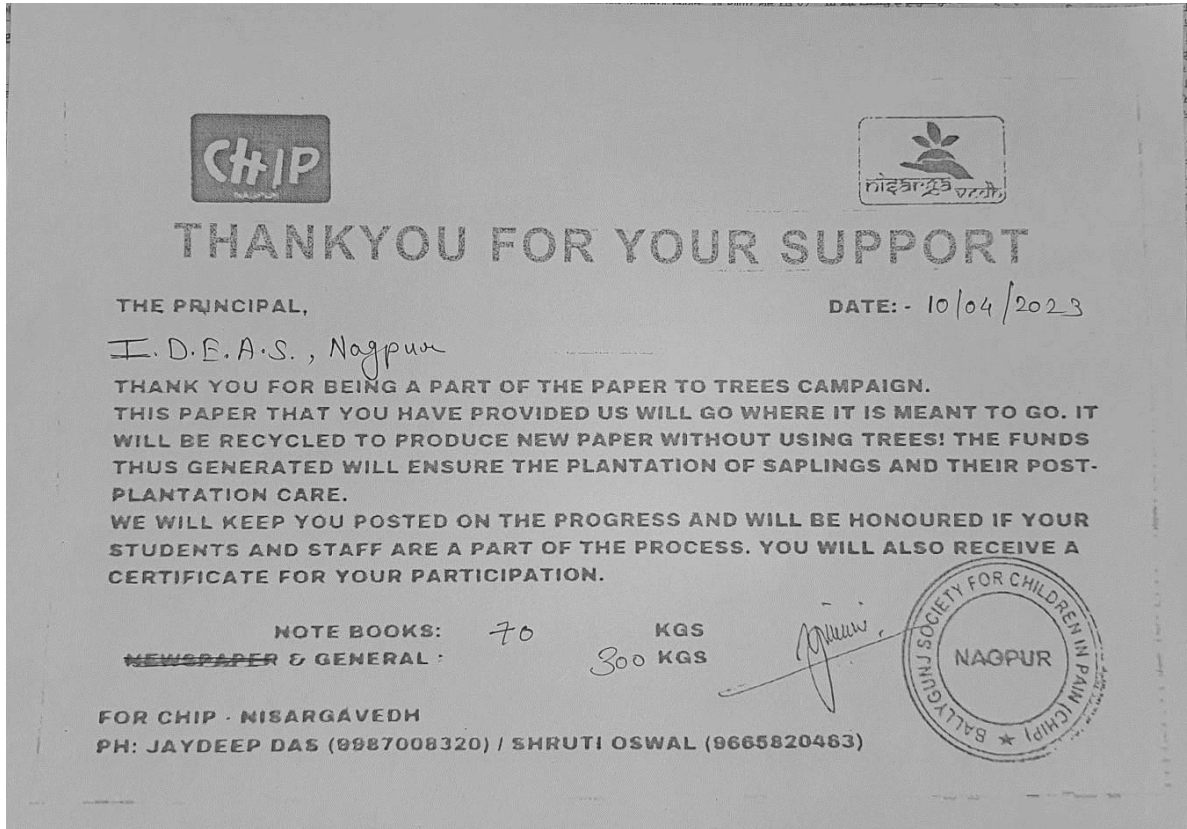
OUR HONORABLE JUDGES
MR. ARVIND KADBE,
OLAVA FOUNDATION

MR. TANUL VIKAMSHI
ALAG ANGLE, NAGPUR

SUBMISSION GUIDELINE
THE POSTER SHOULD BE SUBMITTED ON THE GIVEN LINK BY

AN ENVIRONMENTAL COMMITTEE INITIATIVE
CHAIRPERSON- PROF. AJAY THOMBRE
SECRETARY- PROF. RUKHSANA BADAR
STUDENT MEMBERS- AKSHAYRAJ SUTHAR, AKSHATA KHANWILKAR,
PRATHAMESH KIMMATKAR, CHETAN RAUT GRACY MALAHDHARI





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CONCLUSION

This audit involved extensive consultation with all the environmental college team, interactions with key personnel on wide range of issues related to Environmental aspects. The audit has identified several observations for making the campus premises more environmentally friendly. The audit team opines that the overall site is maintained well from an environmental perspective. There is no major observations but a few things that are important to initiate urgently are phaseout air conditioners with eco-friendly refrigerants and periodic inspection of buildings housekeeping and environment policy.