

COLLEGE OF ENGINEERING PUNE

GREEN AUDIT REPORT FOR 1st CYCLE OF ACCREDITATION

Wellesley Road, Shivaji Nagar, Pune-411 005.
Maharashtra, INDIA.

www.coep.org.in

Submitted To
NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL
BANGALORE
2021-22





Dr. D. Y. Patil Unitech Society's
DR. D. Y. PATIL ARTS, COMMERCE & SCIENCE COLLEGE
 AKURDI, PUNE - 411044.

Affiliated to Savitribai Phule Pune University (ID No. PU/PN/ACS/144/2001)
 Recognised by Govt. of Maharashtra | AISHE CODE C-41955

Recipient of the 'Best College Award' of Student Development Dept. Savitribai Phule Pune University	Accredited by NAAC with 'B' ++ Grade (CGPA 2.84)	ISO 9001:2015 and 14001:2015 Certified	
Dr. P. D. Patil Chairman	Dr. Bhagyashree Patil Vice Chairperson	Dr. Somnath Patil Secretary	Dr. Mohan Waman Principal

Ref. No. : DYPACSA/2022-23/08

Date : 23/06/2022

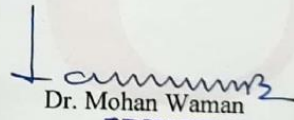
CERTIFICATE

This is to certify that we have conducted a **Green Audit** for '**College of Engineering Pune**' employing all scientific methods for the period of AY 2020-21. Based on a baseline study, primary data generated, and secondary data obtained a detailed report on various components with a summary is submitted for your kind perusal.

We have covered the area of environmental setup with respect to habitat, biodiversity, and Resources (Water, Electricity, Waste management and awareness). All necessary data is provided by the institute and the analysis is enclosed in the report. The aim of conducting green audit is to check the demand on non-renewable resources, check the utilization efficiency of these resources when in use, and check reuse, recycling, and utilization of renewable resources.

While the baseline is good, there are many ways to exceed and achieve maximum standards, thereby achieving greater efficiency of the environmental factors which are clearly mentioned in the Report.





We wish you best for environmentally sensitive endeavors.


 Dr. Mohan Waman

PRINCIPAL

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GREEN AUDIT 2021-2022 COEP

Name of Higher Education Institute: College of Engineering Pune, Wellesly Road, Shivajinagar, Pune	
Year of establishment : 1854	
Name of Director : Dr.M.S.Sutaone, Officiating Director	
Email ID: director@coep.ac.in	
Name of Internal Coordinator: Dr.Parag Sadgir, Professor in Civil Engineering Department Dr. Mahesh Shindikar, Asst.Professor in Applied Science Department	
Email ID: pas.civil@coep.ac.in and smh.appscience@coep.ac.in	
Programs :37 UG: 10 PG: 24 PG Diploma:03 Ph.D. : all branches	
Area	194487.28 Sq.m
Extended campus, Chikhali	27.72 acre
Green Space	7772Sq.m
No of trees	2211
laboratory	145
Students	4231
Male	2935
Female	1296
Faculty	237 (136 Ph.D. degree)
Hostel	15 Blocks
Hostel capacity	1928
Male	1178
Female	800

INTRODUCTION :-

Green Audit can be defined as systematic identification, quantification, recording, reporting and analysis of components of environmental diversity. This can acronymically called as “Global Readiness in Ensuring Ecological Neutrality” (GREEN). The ‘Green Audit’ aims to explore environmental practices within and outside the college campus, which will have an impact on the Eco-friendly Ambience. It was introduced with the motive of inspecting the work conducted within the organizations whose exercises can cause risk to the health of inhabitants and the environment. Through Green Audit, one acquires a direction as how to improve the condition of environment and there are countless factors that have determined the growth of carrying out Green Audit.

Ellington (1990) is the first scientist that provides comprehensive guide to the use of environmental audits. In 2008 Porter, Simon & Hatchery is the first who clearly mention exactly what is the Green Audit? And after his explanation about the green audit these concept of auditing

accepted worldwide. He defined as the concept „Green audit“ as “Environment management system (EMS) that is continuous increase in environment and communication of the results of the EMS activity with organization“s directors.(Ionciu, 2009). In 2008 Adeniji is the first who primarily concerned with environmental audit of the companies to the growing importance of green issues. The components of environmental diversity are analyzed , reported, recorded, identified systematically in Green audit. The environmental practices with in the campus and its implication on the eco-friendly ambience is also analyzed in Green audit.



Layout of COEP



Hostel Campus Layout

ABOUT THE COLLEGE :-

College of Engineering Pune (COEP), is an autonomous institute of the Government of Maharashtra, situated in Pune, Maharashtra, India. The institution was started on July 1854, as the "Poona Engineering and Mechanical School", It is the 2nd oldest engineering college in India, after IIT Roorkee (1847). Henry Coke was given the charge of the institute. Institute has achieved superlative reputation in the field of high-quality technical education, not only in the country, but at global level and has served the nation for over 157 years by producing alumni like Bharat Ratna Sir M. Visvesvarayya, Padma Bhushan Prof. Thomas Kailath and many other eminent personalities have walked through the portal of their ‘Alma Mater’. The students and alumni are colloquially referred to as COEPians.

Later on, in the year 1865, the school was renamed to "Poona Civil Engineering College". The foundation stone of the new college was laid by the Governor of Bombay, Sir Bartle Frere, who was to become the Vice-Chancellor of the University, on 5 August 1865. In 1879 two new classes, an Agricultural class and a Forest class , were added to the college , and the name of the college was changed from "The Poona Civil Engineering College " to "The College of Science".

In 1909, the LCE was converted into the BE degree and the first batch of students passed out in 1912. All non-engineering courses were stopped by 1911, transferring the Bachelor of Science degree to the "Science Institute of Bombay" and subsequently in the year 1911, the name was

changed to the "Government College of Engineering, Poona". In 2003, the institute was granted complete autonomy by the State Government of Maharashtra, thus giving it the freedom to set its own curriculum and manage its own finances. The institute was renamed "Pune Institute of Engineering and Technology". This was soon changed to present "College of Engineering, Pune" in 2006.

In a bid to boost research in engineering and postdoctoral research, the College of Engineering Pune (CoEP) was granted an additional campus on government land located in Nigdi (Chikhali). This extended campus is having area of 40 acres

The campus of COEP is spread over 36 acres. The campus is divided into four parts North Campus, South Campus, Hostel campus and Playground, due to roadways in between.

The main building is the present day administrative building of the College.



The college is spread on the banks on MULA river, the beautiful river front is main attraction for students and visitors. The College organizes tree plantation program annually. The Institute has started practices like vermicomposting and solid waste management. As per the syllabus of SPPU, Pune, environment awareness program is a compulsory subject student. Students and staff members are made aware of pollution caused by use of vehicles. The college makes special efforts like "JAL MAITRI", and "JAL DINDI" to inspire environmental awareness amongst students with the belief that environmental awareness will lead to sustainable development. For developing ecological consciousness amongst students, a wide range of activities such as organizing campaigns, poster exhibitions, street plays, film screenings, field visits, workshops and seminars are undertaken by the college. Efforts are also made to institutionalize some of the environmentally sustainable practices in college.

The hostel is situated 600m from the college campus. There are ten buildings in the hostel campus. Boy's blocks are named as Purandar, Shivneri, Panhalgad, Torna, Raigad, Pratapgad, Sajjangad and Vishalgad. For girls, there are two blocks namely Jijao and Kondhana. 'Kondhana' and 'Pratapgad' buildings are two-storied, Vishalgad & Jijao buildings are four storied, and remaining buildings are three storied. The hostel campus houses about 1064 boys & 422 girl

students. Further it comprises of hostel office, security room, guest house of three rooms, Nine rectors' quarters and Director's residence. Student messes are run on co-operative basis.

OBJECTIVE:-

The main objectives of the green audit are to promote the environment management and conservation in the college campus. The purpose of the audit is to identify, quantify, describe and prioritize framework of environment sustainability in compliance with the applicable regulations, policies and standards. The main objectives of carrying out green audit are

1. To introduce and make aware students to real concerns of environment and its sustainability.
2. To secure the environment and cut down the threats posed to human health by analysing the pattern and extent of resource use on the campus.
3. To establish a baseline data to assess future sustainability by avoiding the interruptions in environment that are more difficult to handle and their corrections requires high cost.
4. To bring out a present status report on environmental compliance.

METHODOLOGY:-

In order to perform green audit, the methodology included different tools such as preparation of physical inspection of the campus, observation and appraisal of the documentation and data analysis, measurements and recommendations.

Activities organized to create greenery and its conservation at college campus is as follows-

1. Water quality assessment, consumption, and management.
2. Sanitation
3. Solid Waste Management.
4. E-waste management.
5. Biodiversity status of the campus and Green Area Management.
6. Electrical Energy Consumption and management

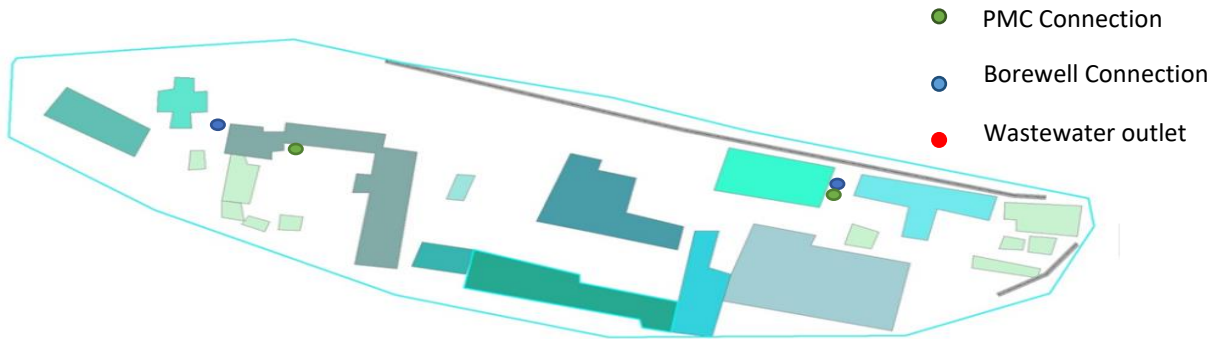
GREEN AUDIT 2021-2022 COEP



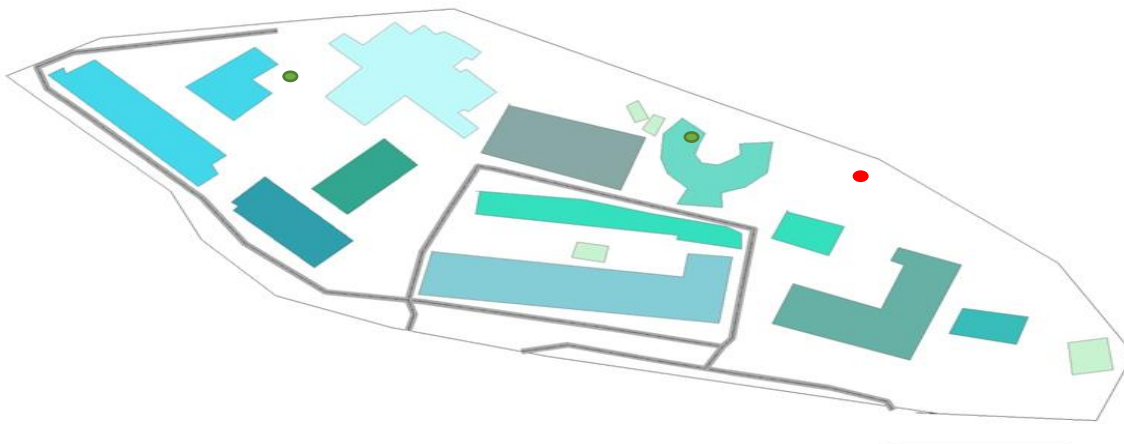
1. WATER QUALITY ASSESMENT, CONSUMPTION and MANAGEMENT:-

Identification of sources

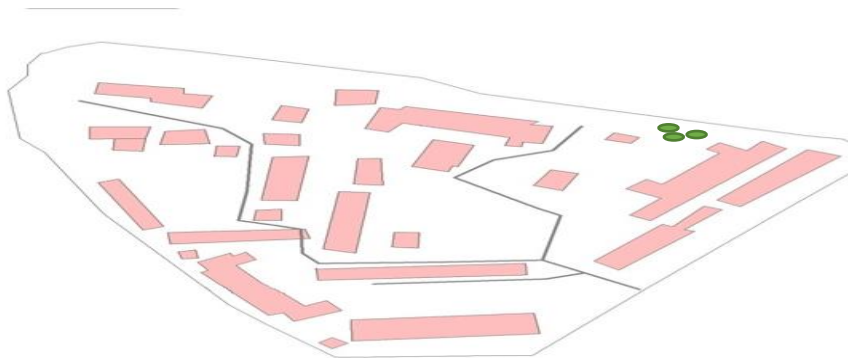
There are two bore wells in south campus which fulfill the water needs of the institutions. The PMC connections are also available in north as well as south campus to fill the water deficit.



Connections in North Campus



Connections in South Campus



Connections in Hostel Campus

Ultrasonic Water Flow meter

Ultrasonic water flow meter use ultrasound to measure flow. A transit-time ultrasonic meter sends one signal downstream and another upstream. Then the meter compares the travel time for both signals to find the flow velocity. Finally, it uses this calculation to find the volumetric flow rate. You can also measure energy and temperature using the differences between the hot and cold legs. Clamp-on ultrasonic meters measure water from outside the pipe by sending signals through the pipe walls. This feature makes them ideal for measuring flow in large pipes and a wide range of other processes.

The transducers come with two types, one is clamp-on type, the other is wetted type. The wetted type can be further categorized into insertion type and flow cell (or spool piece) type.

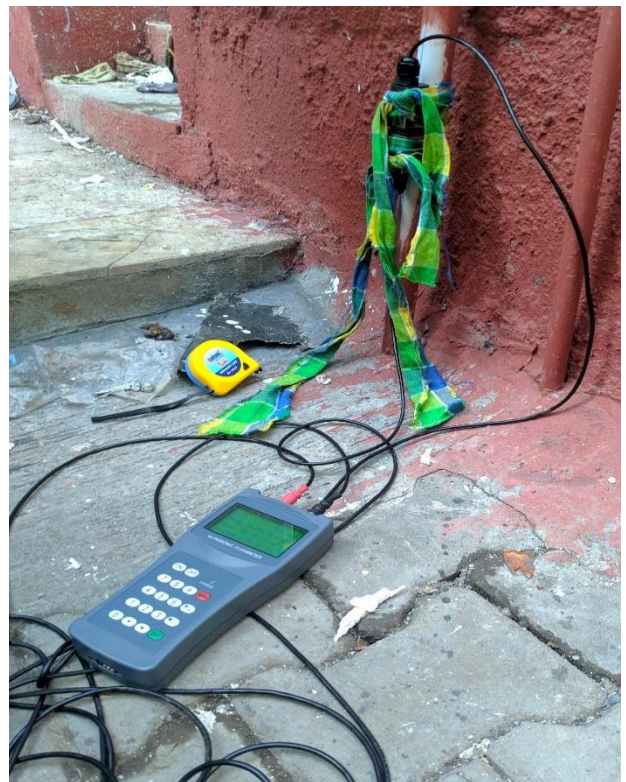
Taking reading in Campus

There are water meters installed on the incoming connections. the PMC has its own meters on which the billing is done and for the rest of the connections we have installed water meter installed by college administration. The readings give the total volume of water intake by the system. Water from PMC connection is either stored in tanks in some of the cases or directly pumped to the overhead tanks of the departments.

We used ultrasonic flowmeter for the measurement of flow through pipes.



Ultrasonic Flowmeter



Measurement using flowmeter

Source : Pune Municipal Corporation 11 water supply connection :

4 “ for south campus, 2 “ and ¾” and ½ “ (2) connection for north campus, 2”, 1.5”, 1” and 1/2” connection for Hostel, ½ “ connection for play ground, ¾ “ connection for staff quarters and bore wells (total 4 no.) 2 no. south cam pus, 1 no north campus and 01 no. hostel

Distribution : 30 Overhead Water Tanks and 03 sumps

available for each building. 03 sumps are available at academic complex building, heritage building and instrumentation building. Cleaning is carried out once in a month.

Water cooler : 91 number. (39 number in academic complex and 52 water coolers in hostel campus). Cleaning on daily basis and repair work as and when required.

Water purifiers : Cleaning is carried out once in six months. a specialist repairing agency periodically check and repair purifiers.

LOCALITY	SUPPLY (L/DAY)	USE (L/DAY)	WASTE (L/DAY)	% OF SUPPLY WASTE	REMARK
N campus	1,79,639	174900	4739	2.64	4,739 litres of water wasted per day
S campus	114639	108610	6029	5.26	6,029 litres of water wasted per day
Hostel	337328.5	400295	-62966.6	-18.67	Insufficient supply of water in hostel
Total	631606.5	683805	-52198.6	-8.26	-

North side campus of college has per day water demand of 1,74,900 liters, water supplied to the Northern side is 1,79,639 liters per day. Hence, 4739 liters of water is wasted.

South side campus of college has per day water demand of 1,08,610 Litres, water supplied to the Southern side is 1,14,639 litres per day. Hence, 6029 litres of water is wasted.

Hostel faces a different problem. It faces acute water scarcity. Demand in hostel is 4,00,295 litres per day, Supply to the hostel is 3,37,328.5 litres per day which results in 62,966.6 litre per day Water Deficit

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Water Audit Data						
Location(N/S)	Department	Name of Building	Number of tanks	Capacity	Type of tank	Inlet connection
South campus	Electrical	Electrical substation	2	1)1 x 1000 L 2) 1 x 500 L	1) 1 x PVC 2) 1 x PVC	Bore connection
		Electrical building	5	1)1x 5000 L 2)1 x 1000 L 3)3 x 500 L	1) 1 x PVC 2) 1 x RCC tank 3)3 x PVC	PMC connection
		K. R. NATU building	1	1) 10000 L	1) RCC tank	PMC connection
	Production	Production and industrial engineering	2	1) 2 x 2000 L	1) 2 x PVC	Bore + PMC connection
	General	Main auditorium	3	1) 10000 L 2) 2 x 5000 L	1) 1x sump 2) 2 x PVC	Bore + PMC connection
	Metallurgy	Metallurgy engineering	5	1) 3 x 3000 L 2) 2 x 2000 L	1) 3x PVC (other use) 2) 2x PVC (on ground)	PMC connection
	General	Geology canteen	2	1) 2 x 5000 L	1) 2 x PVC (On ground)	PMC connection
	Geology	Geology museum	0	SBI bore well water connection	SBI bore well water connection	Bore connection
	Civil	Civil engineering	10	1)4x2000 L 2)4x2000 L 3)2 x 1000 L	1) 7 x PVC 2) 3 x PVC (general toilet)	PMC connection
	General	Main building	3	1) 2 x 2000L 2) 1 x 15000 L	1) 2 x PVC 2) 1 x sump tank	PMC connection
General	staff quarters	7	1) 1 x 5000 L 2)6 X 2000 L	1) 7 x PVC	PMC connection	
North campus	Mathematics	Mathematics department	1	1) 1 x 2000 L	1) 1 x PVC	Bore connection
	Civil	Engineering mechanics	4	1) 2 x 1000 L 2) 2 x 2000 L	1) 4 x PVC	Bore connection
	General	Boat club canteen	3	1) 3 x 1000 L	1) 3 x PVC (Toilets)	Bore connection
	General	BHAU	1	1) 10000 L	1) sump tank	PMC connection
	Applied mechanics	AC complex	2	1)1 x 10000 L 2) 30000 L	1) 1 x PVC 2) Sump tank	PMC connection
	Instrumentation	Instrumentation Engineering	3	1) 1 x 2000 L 2) 2 X 5000 L	1) 2 x PVC 2) 1X sump	PMC connection
	E & TC	E & TC Engineering	5	1) 3 x 2000 L 2) 2 X 1000 L	1) 5 x PVC	PMC connection
	E & TC Extension	E & TC Extension	1	1) 1 x 1000 L	1) 1 x PVC	PMC connection

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	Computer	Computer & IT Engineering	3	1) 1 x 1000 L 2) 2 X 2000 L	1) 2 x sump 2) 1 x PVC	PMC connection
	Mechanical	Mechanical Engineering	2	1)1x 100000 L 2)1 x 10000 L	1) 1 x sump 2) 1 x PVC	Bore connection
	Mechanical	MDH	2	1) 2 x 1000 L	1) 2 x PVC	Bore connection
		A block	2	1) 1 x 2000 L 2) 1 x 500L	1) 1 x PVC 2) 1 x PVC (water cooler)	PMC connection
		B block	3	1) 2 x 2000 L 2) 1 x 500L	1) 2 x PVC 2) 1 x PVC (water cooler)	PMC connection
		GHB	2	1) 1 x 5000 L 2)1 x 500000 L 3) 1 x 250000 L	1) 1 x RCC tank 2)1 x sump tank 3) 1 x sump tank	PMC connection
Hostel	General	C block	5	1) 3 x 2000 L 2) 1 X 4000 L 3) 1 x 500 L	1) 3 x PVC 2) 1 X PVC (STP) 3) 1 x PVC (water cooler)	PMC connection
		D block	4	1) 3 x 2000 L 2) 1 X 500 L	1) 3 x PVC 2) 1 X PVC(water cooler)	PMC connection
		E block	3	1) 2 x 2000 L 2) 1 x 500 L	1) 2 x PVC 2) 1 x PVC (water cooler)	PMC connection
		F block	3	1) 2 x 2000 L 2) 1 x 500 L	1) 2 x PVC 2) 1 x PVC (water cooler)	PMC connection
		G block	3	1) 2 x 2000 L 2) 1 x 500 L	1) 2 x PVC 2) 1 x PVC (water cooler)	PMC connection
		H block	3	1) 2 x 5000 L 2) 1 x 500 L	1) 2 x RCC tank 2) 1 x PVC (water cooler)	PMC connection
		I block	3	1) 2 x 5000 L 2) 1 x 500 L	1) 2 x RCC tank 2) 1 x PVC (water cooler)	PMC connection
		J block	3	1) 2 x 1000 L 2) 1 x 500 L	1) 2 x PVC 2) 1 x PVC (water cooler)	PMC connection
		Rectors	16	1) 16 x 1000 L	1) 16 x 1000 L	PMC connection

WATER DEMAND STATUS

Electrical Department

- i. Electrical Building : Total of 466 people includes 29 faculty, 10 support staff, 320 B.Tech students, 107 M.Tech students

Demand = $466 \times 45 = 20970$ lpd

WC: 11 required and 12 provided.

Urinals: 14 required but 12 provided.

- i. Electrical Substation : 5 people

Demand = $5 \times 45 = 225$ lpd

Civil Department

Total of 565 people includes 29 faculty, 327 B.Tech students, 209 M.Tech students

Demand = $565 \times 45 = 25425$ lpd

WC: 14 required

Urinals: 16 required

Production Department

Total of 412 people includes 24 faculty, 289 B.Tech students, 99 M.Tech students

Demand = $412 \times 45 = 18540$ lpd

WC: 10 required and 6 provided

Urinals: 14 required and 6 provided

Metallurgy Department

Total of 367 people includes 18 faculty, 290 B.Tech students, 59 M.Tech students

Demand = $367 \times 45 = 16515$ lpd

WC: 9 required and 12 provided

Urinals: 13 required and 15 provided

WATER SUPPLY STATUS

Electrical Department

- i. Electrical Building
No. of tanks: 6 (3 x 500L, 2 x 20000, 1 x 1000)
- i. K.R. Natu Building
No. of tanks: 1 (10000L)
- i. Electrical Substation
No. of tanks: 2 (1000L and 500L)

As the tanks are filled daily therefore the supply is 91.07 lpc

Civil Department

No. of tanks: 3 (3 x 1000L)
(Tanks filled daily, supply 5.03 lpcd)

General Toilet

No. of tanks: 2 (2 x 1000L)
(Tanks filled twice a day)

Main Building

No. of tanks: 3 (2 x 2000L)
1 sump (25000L)
(Tanks filled everyday)

Production Department

No. of tanks: 2 (2 x 2000L)
(Tanks filled daily, supply is 9.7lpcd)

Metallurgy Department

No. of tanks: 6 (2 x 2000L) on ground
4 x 2000L
1 x 1000L
(Tanks filled daily, supply is 19.07 lpcd)

Canteen

No. of tanks: 2 (2 x 5000L)

2. SANITATION

Toilet : 135 number toilet. (70 number academic campus and 65 hostel). Regular cleaning of toilets in both the academic institution and the hostels. Maintenance of fittings and fixtures in academic and residential blocks on daily basis.

Drainage :

Repair as and when required within twenty four hours after report. Maintenance of drain pipes and sewage mains as and when required. Drainage lines cleaned by housekeeping agency as a part of regular work . Repair as and when required within twenty four hours after report.

Drainage lines cleaned by housekeeping agency as a part of regular work . Repair as and when required within twenty four hours after report.

Discharge :

Connected internal drains to main municipal drain.

COEP's New Green Initiative under Na WaTech DST Supported Project Total Hostel Water Recycling Solution :



COEP's New Green Initiative under Na WaTech DST Supported Project Total Hostel Water Recycling Solution :

First campus in India Natural Water Treatment Technologies to cope with water shortages in Urbanized India.

It is a project Under European Commission's 7th Framework Programme and is funded by Department of Science and Technology, Government of India.

Decentralized anaerobic systems for primary treatment and vertical constructed wetland for post-treatment of water have been designed.

The anaerobic system is a gravity flow system which does not require any pumping.

The vertical flow wetland uses plant varieties which will add to the aesthetic value along with treatment of wastewater. The treated water is used for gardening and flushing in the hostel blocks. The treatment system treat a total of 140m³ of wastewater per day.

Advantages: User friendly & low-cost operation & maintenance .

Consistency in treatment performance . No skilled operators required

No chemicals required Very less/no electricity required. Optimal use of land.

3. Solid Waste Management:-

Solid waste generation and management is a burning issue. Unscientific handling of solid waste can create threats to everyone. The survey focused on volume, type and current management practice of solid waste generated in the campus. The different solid wastes collected as mentioned above.

In COEP, hostel provides accommodation for 2600 students. All waste generated at breakfast, lunch and dinner are collected as waste. As per conversation with mess contractor and concern administrative person, it is analysed that daily hostel kitchen waste (organic waste) generate is approximately 40 to 45 kg and college canteen waste are approximately 20 -25 kg which can be decomposable. To decompose this solid waste generated at hostel mess and canteen waste, we constructed a Bio methanation tank. Composting is simply the process of breaking down the organic matter (food waste) in the presence of air and water, using micro-organisms and small insects present in nature. Important factor of composting unit are micro-organisms, Air, moisture, Heat. Thus this generated compost is being used as organic fertilizer for the trees of college campus which grades with cost effective and eco-friendly method for environment.

College campus

Solid Waste Data -COEP Campus

	Kg/day	Type of waste	Segregation	Treatment Method
South Campus	20	Mixed Waste	No	Open Dumping
North Campus	20	Mixed waste	No	Open Dumping
Garden waste	680	Organic waste	Yes	Composting
Meta canteen	100	Mixed waste	Yes	Separate Collection
Boat Club	100	Mixed waste	Yes	Separate Collection
Total Daily Waste	920 + 80 kg = 1000 kg/day Waste Generation/total Population $1000/4468=0.223$ kg/day Approx 200 to 250 grams per day			
Per Capita Generation	Waste Generation/total Population $1000/4468=0.223$ kg/day =223 grams per day			

Characterization of waste per week -

Wet Plastic-1.15kg

Paper-6.20kg

Dry Plastic-0.20gm

Thermocal -0.25gm

Tea cups-0.850gm

Miscellaneous -1.90kg

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(Wet paper, banana cover, fruit waste , sachets, refused lemon , Cloth)

Sanitary napkins-0.2gm

Metal and E waste -0.650

Total waste Generation of one day =11.20Kg



Waste collection area

Hostel

- 1) GHB-female-623-3 incinerators working but not in use
- 2) B-block-female-96-1 incinerator in use
- 3) A-block-female-120-1 incinerator in use
- 4) Garden waste – 2*100 liter cans

Dry waste:900kg per day

Wet waste:

GHB canteen:100kg per day

Boy canteen :300kg per day

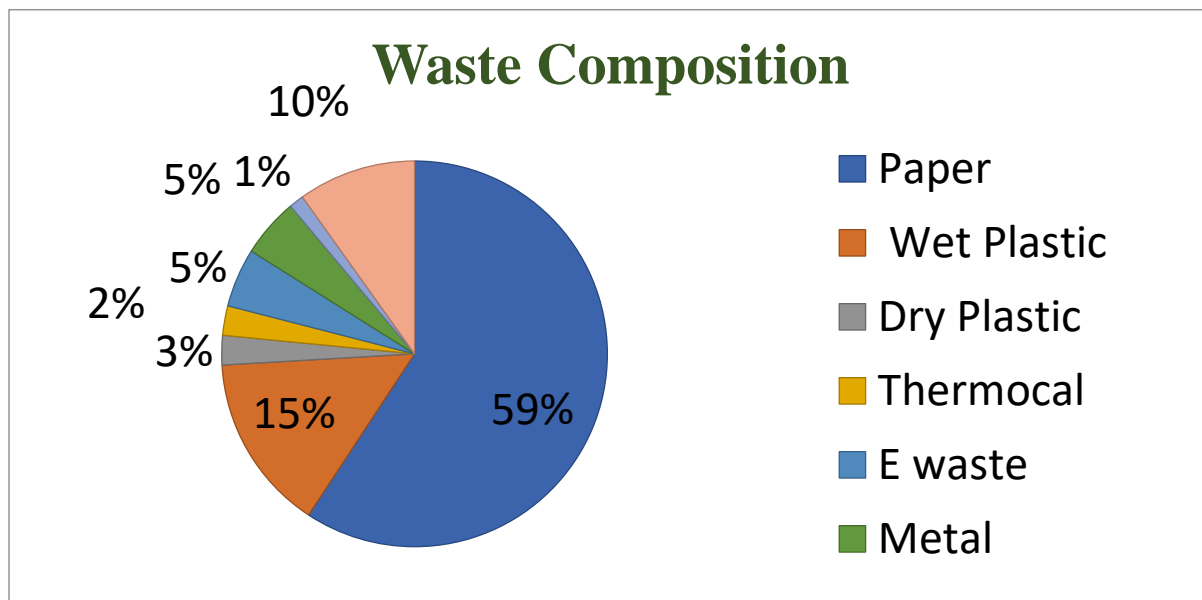
Construction waste

Hostel : 30 trips in 6 months Qty 1.5 brass per trip

Both campus :40 trips in 6 months Qty 1.5 brass per trip

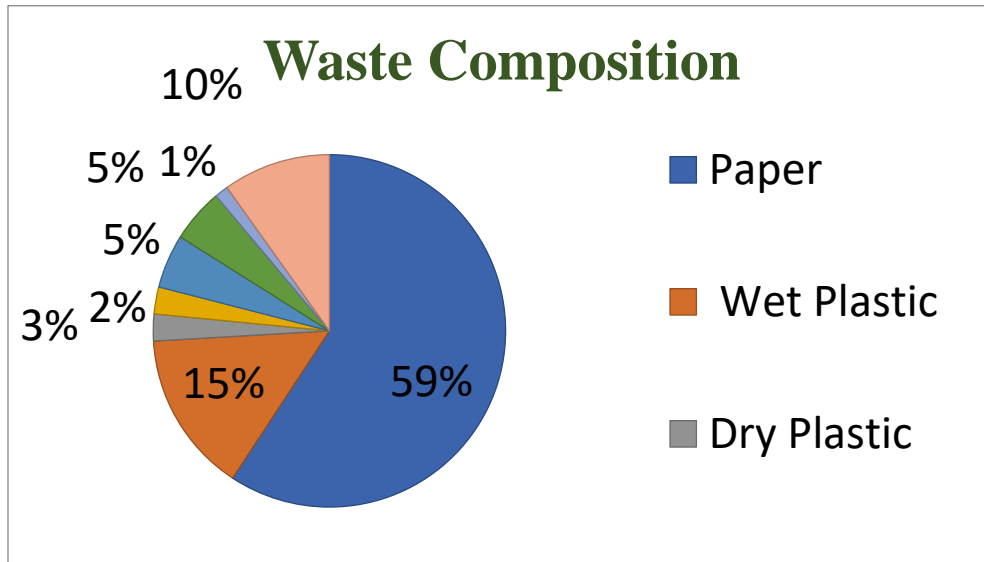
Segregated waste-





Solid Waste Data -South Campus Department

	Departments-South Campus	Kg/day
1	Main Building	4
2	Civil Engg. Dept. Office/ drawing Halls/ Transportation lab/ Planning	1.5
3	Electric Department	1
4	library	2.8
5	Metallurgy	2.25
6	Auditorium (seasonal)	4.35
7	Production	4
8	Campus Dustbins	10
9	Garden Waste (seasonal)	600
10	Meta-canteen	70
	Total	700
	Kg per Capita per day waste generation for population of 2234	0.311kg



Present Waste Collection System of COEP Campus

1. Bharati Services-Private System
2. Department to Department collection –once in two days
3. Washrooms Waste Collection daily
4. Campus bins waste collection once in 3 days
5. Garden Waste Collection-Private System\
6. Garden waste collection in Garden daily area wise
7. Garden waste collection in Campus Daily
8. Canteen Waste Collection-Private System once in 2 days

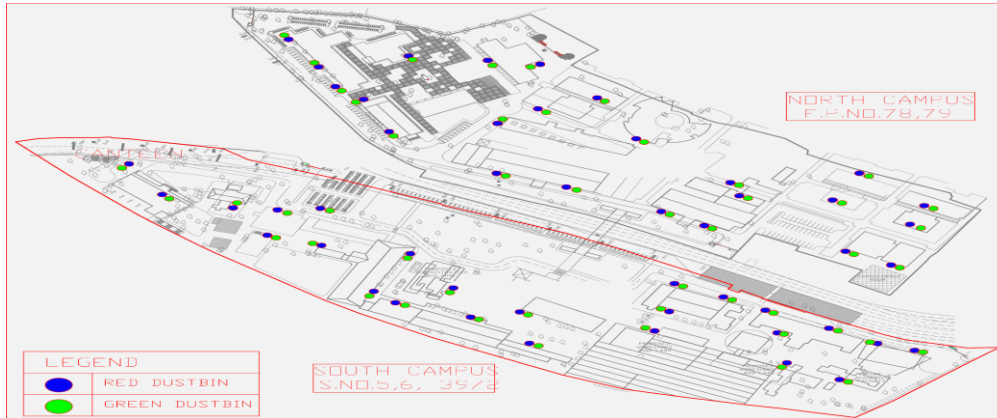


Department wise	Type of Waste	Generation Rate	Disposal Method
Environment Lab	Sample Cans Project Material	NA	Dumping
Geotech-Lab	Soil	4 brass/three month	Dumping
Transportation -Lab	Aggregate Bitumen	Agg-2 brass/ month Bit- 10kg/month	Dumping
Survey Lab	Sheets, Field Books	NA	Dumping
Library	News Paper, Magazine	NA	Tender-Recycle
Robotics	E-waste	NA	Dumping

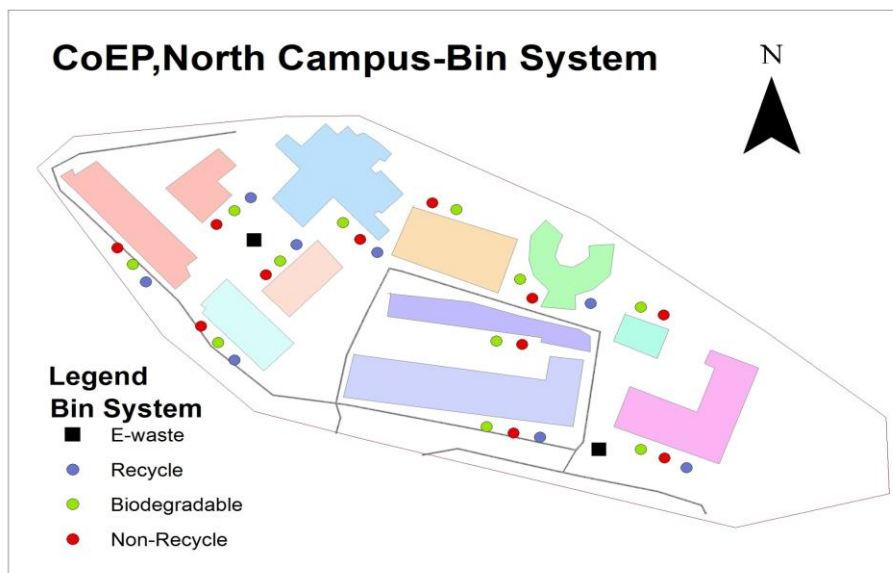
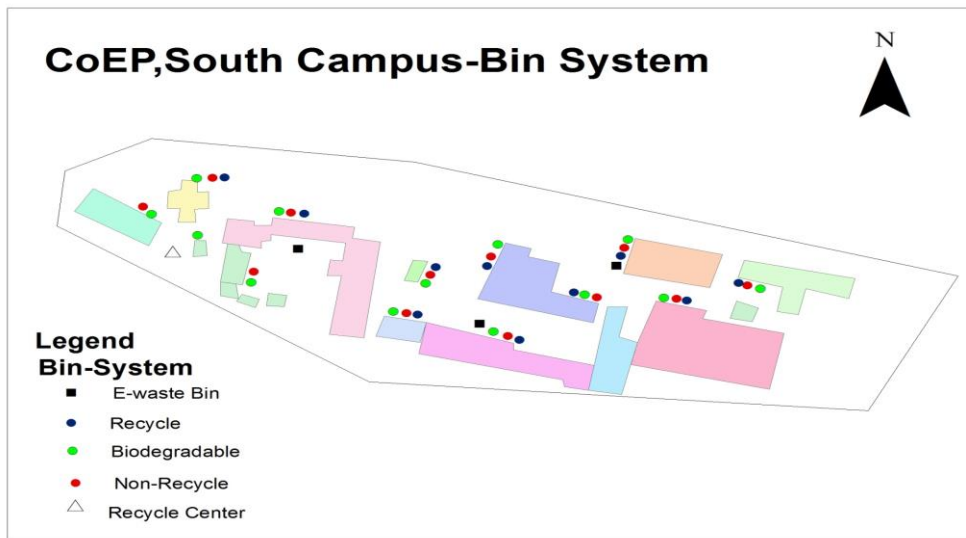
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Electrical Department	E-waste	NA	Tender, Auction, Recycle, Dumping
Production Workshop	Coal, Ash, Metal, Wood, Air pollution	NA	Dumping
Workshop	Metal	NA	Recycle
Student Section	paper	NA	Recycle
Account Section	paper	NA	Reuse
Department wise	Type of Waste	Generation Rate	Disposal Method
Chemistry Lab	Chemical Waste	NA	Dumping
Cognizant Lab	E waste ,Paper	NA	Dumping
Concrete technology Lab	Cement, Aggregate, Concrete Blocks	Coarse Agregate- 30kg/100Bags Cement bags- 20kg/30Bags	Recycle under C and D waste per three months
Structure lab	Test steel bars	NA	Dumping
Mechanical Lab (I C Engine Lab)	Ash, Oil , Metal parts	NA	Tender-Recycle
Mechanical drawing hall	Paper , Plastic	NA	Dumping
Instrumentation and Control Dept Lab	E-waste	NA	Tender, Auction, Recycle , Dumping
Electronics and Telecommunication Dept Lab	E-waste	NA	Dumping
Dept of Computer Engg. And IT	E-waste	NA	Recycle

Proposed Waste Bin System plan for COEP Campus



Proposed Waste Bin System plan for COEP Campus



SOLID WASTE IN Hostel I BLOCK

TYPE OF WASTE	WEIGHT ON WORKING DAY (gm)	% OF WASTE	WEIGHT ON HOLIDAY (gm)	% OF WASTE
Wet Waste	1500	22.47	11000	59.3
Paper Waste	3500	52.43	4500	24.25
Dry Waste	800	11.99	1400	7.55
Mix Plastic	500	7.49	1100	5.93
Clothes	300	4.49	450	2.43
Miscellaneous	75	1.123	100	0.54
Total waste generated	6675		18550	

Population of I block = 160 boys

Waste generated per capita on working day

$$= 6675/160$$

$$= 41.71\text{gms}$$

Waste generated per capita on holiday

$$= 18550/160$$

$$= 116 \text{ gms}$$

SOLID WASTE IN GIRLS HOSTEL (B BLOCK) (DURING EXAM TIME)

Type of waste	Weight of waste(gm)	% of waste generated
Wet waste	1562	12.16
Paper waste	3288	25.64
Plastic waste	1800	14.53
Mixed plastic	1488	11.59
Sanitary napkins	4550	35.44
Miscellaneous	150	1.16
Total waste generated	12838	



SOLID WASTE IN GIRLS HOSTEL (B block) (DURING VACATIONS)

Type of waste	Weight of waste(gms)	% of waste generated
Wet waste	950	36.12
Paper waste	370	14.06
Plastic waste	410	15.58
Mixed plastic	350	13.3
Sanitary napkins	500	19.01
Miscellaneous	50	1.9
Total waste generated	2630	

	Kg/day approximate	Type of waste	Segregation	Treatment Method	Recommendation
South Campus	20	Mixed Waste	No	Open Dumping	Category wise separation
North Campus	20	Mixed waste	No	Open Dumping	Category wise separation
Garden waste	680	Organic waste	Yes	Composting	New technology
Meta canteen	100	Mixed waste	Yes	Separate Collection	Biogas and Composting
Boat Club	100	Mixed waste	Yes	Separate Collection	Biogas and Composting
Total Daily Waste	920 approximate consideration 1000 kg/day				

GREEN AUDIT 2021-2022 COEP

Per Capita Generation	Waste Generation/total Population 1000/4468=0.223 kg/day Approx 200 to 250 grams per day	
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	Type of Waste	Recommendation
A	Department Waste	
	Paper Cups	Steel Glasses
	E-waste	Recycle Bin
	Metals	Recovery Store
	Dry Paper	Recycle or E paper system
	Dry Plastic	Reduce or Recycle
B	Laboratory Waste under specific Waste	Disposal based on type of waste obtained
C	Sanitary Napkins	Use of Biodegradable napkins, incineration

4. E-WASTE MANAGEMENT



- Educational Institute generates waste about 200-300 grams per person per day.
- Provision of 5 separate Waste Bin system at South Campus by NGO
- E Waste Bins in South campus separate Collection by private NGO- Janwani
- Composting and Biogas Plants under processes-Highly Recommended.
- 70-80% of educational waste can recycled and Revenue can be generated.



5. Biodiversity status of the campus and Green Area Management.

Green space area in campus is 7772 Sq.m with more than 700 plants and trees. This includes the plants, greenery and sustainability of the campus to ensure that the buildings conform to green standards. This also helps in ensuring that the Environmental Policy is enacted, enforced and reviewed using various environmental awareness programme.



पर्यावरणपूरक उपक्रम

- प्रा. थिओडोर कूक औषधी वनस्पती उद्यान
- वनस्पती संपदेबाबतची माहिती प्रसिद्ध (वृक्ष गणना आणि उंची, घेर आदी वृद्धी विषयक नोंदीसह)
- जैवविघटनशील कच-यापासून खत निर्मिती
- वसतीगृहातील सांडपाण्यावर प्रक्रिया आणि पुनःवापर
- प्लास्टिक काच-याच्या निसर्गपूरक विल्हेवाटीसाठी संशोधन
- विद्यार्थी उपक्रमात पर्यावरणपूरक पर्यायांना प्रोत्साहन
- नदी किनारे स्वच्छता आणि जनजागृती मोहीम
- शहरातील ध्वनी पातळीचे नियमित मापन



महाविद्यालयातील पक्षांचे अधिवास :

- पाणथळ क्षेत्रातील पक्षी - मुळा आणि मुठा नद्या आणि त्यांच्या संगमाचा परिसर
- उपवनातील पक्षी - वृक्ष संपदा : उत्तर परिसर (५५३) दक्षिण परिसर (८४४) आणि वसतिगृह परिसर (७७४)
- मानवनिर्मित / शहरी क्षेत्रातील पक्षी - वारसा वास्तूंसह विविध उंचीच्या इमारती



BIRDS IN COEP CAMPUS

Name: Greater Coucal (Bharatdwaj)

Details: 48 cm, glossy black bird with conspicuous chestnut wings and long black tail.

Status: Resident.

Food: Caterpillars, snails, insect's lizards and birds eggs.

Nesting: February to September.



Name: Pond heron.

Details: 46 cm, they appear stocky with short neck, short thick bill and buff-brown back.

Status: Resident.

Food: Fish frogs, crabs and insects.

Nesting: Mainly may to September and November to January.



BIRDS IN COEP CAMPUS

Name: Laughing dove.

Details: 27 cm, earthy brown and grey above, pinkish white and white below, rufous either side of neckband and a 'black chess board'.

Status: Resident.

Food: Seeds and grains gleaned on ground.

Nesting: Practically throughout the year.



Name: Shikra.

Details: 30-34 cm, ashy blue grey above. Female is larger and browner.

Status: Resident.

Food: Lizards, mice, squirrel birds.

Nesting: March to June.



BIRDS IN COEP CAMPUS

Name: Rock pigeon.

Details: 33 cm, a familiar slaty grey bird with metallic sheen of green, purple & magenta two dark bars on wings.

Status: Resident.

Food: Cereals, pulses and ground nuts.

Nesting: Practically all year.



Name: Great tit.

Details: 13cm, glossy uncrested black head, glistering white check patches, grey back whitish below with broad black central band.

Status: Resident.

Food: Insects & their eggs, larvae, flower buds, fruits and weeds.

Nesting: February to November.



BIRDS IN COEP CAMPUS

Name: Black drongo.

Details: 31 cm, glossy black bird with deeply forked tail.

Status: Resident.

Food: Insects, flower nectar and occasionally small birds.

Nesting: April to August.



Name: Red vented Bulbul

Details: 20 cm partially crested black head, crimson patch below root tail and white rump.

Status: Resident.

Food: Insects, fruits, berries, nectar and peas.

Nesting: Mainly February and May.



BIRDS IN COEP CAMPUS

Name: Small Minivet.

Details: 15 cm, male is black grey and orange crimson, female and young male with no black on head and replacing red.

Status: Resident.

Food: Insects and their larvae.

Nesting: February to September.



Name: Black Kite.

Details: 61 cm, distinguished by its forked tail, color brown.

Food: Offal and garbage, earthworms, lizards, mice and disabled or young birds.

Status: Resident.

Nesting: Practically all year.



BIRDS IN COEP CAMPUS

Name: Dusky crag martin.

Details: 13 cm, sooty, brown, tail square swallow like wings & flight, round white spots on all tail feathers.

Status: Resident.

Food: Insectivores.

Nesting: February to July.



Name: Rose ring parakeet (Parrot)

Details: 42 cm, Rose ring and a black collar, female without collar.

Status: Resident.

Food: Fruits like guava & banana and grains.

Nesting: February to April.



BIRDS IN COEP CAMPUS

Name: Coppersmith barbet.

Details: 17cm, grass green with crimson breast and forehead.

Status: Resident.

Food: Fruits and berries.

Nesting: January to June.



Name: Purple Sunbird.

Details: Above metallic, Crimson, green and purple yellow below. Female is olive brown, above grayish white, below chin yellow.

Status: Resident.

Food: Flower nectar and insects.

Nesting: March to May.



BIRDS IN COEP CAMPUS

Name: House sparrow.

Details: 14 cm, pale earth brown sparrow chestnut shoulder patch, two whitish wing bars lemon yellow patches on throat.


Status: Resident.


Food: Small insects and grains.

Nesting: April-June.





अभियांत्रिकी महाविद्यालय पुणे 



पक्षी विविधता सूची

पक्षी सप्ताह - ०५ नोव्हेंबर ते १२ नोव्हेंबर २०२०

Work of QR coding of Trees of COEP Campus is in progress. 2211 trees are numbered in campus and list with names is displayed on website under Green initiative, Principal Theodore Cooke Botanical Garden and Herbal Medicinal Garden is developed.

Plant- *MILINGTONIA HORTENSIS*



Plant Number-300
(North campus)

Botanical name: Millingtonia hortensis
Family: Bignoniaceae (Jacaranda family)
Genus: Millingtonia
Common name: Indian Cork Tree, Tree Jasmine

Millingtonia hortensis, tree jasmine or Indian cork tree, the sole species in the genus *Millingtonia*, is a tree native to [South Asia](#) & [South East Asia](#). It is cultivated in most parts of India, both in gardens and avenues. Tall and straight, with comparatively few branches, its popularity lies in its ornamental value. It is a fine tree, fast growing, but with brittle wood, liable to be damaged by storms. In favourable positions it can grow to 24 m tall. The ashy bark is cracked and furrowed and the numerous fissures make removal of the cork an easy matter. The tree is considered ornamental and the pleasant fragrance of the flowers renders it ideal as a garden tree. The wood is also used as timber and the bark is used as an inferior substitute for cork. The leaves are also used as a cheap substitute for tobacco in cigarettes.

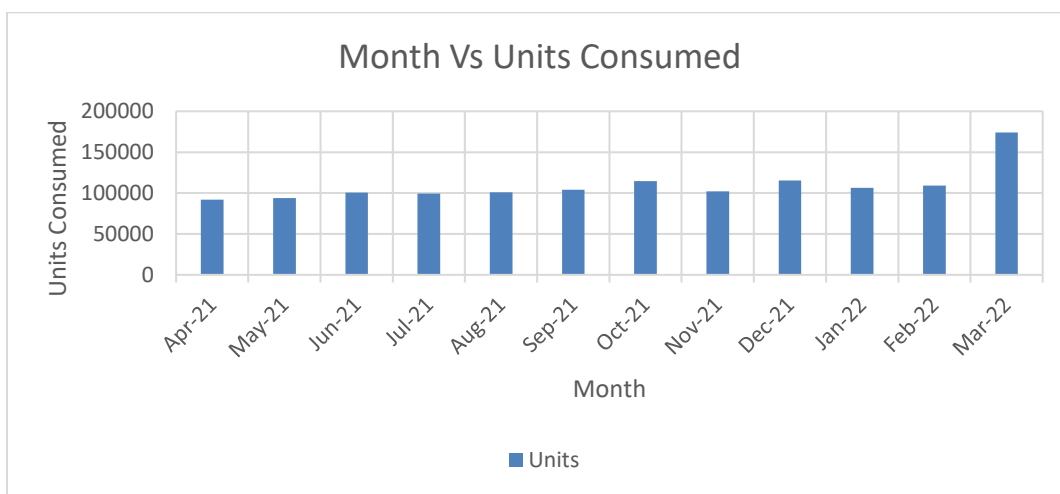


For more details, scan the QR code!

6. Electrical Energy Consumption and management

Total Energy Consumption of COEP

Month	Units
Jan-22	106340
Feb-22	109210
Mar-22	173950
Apr-21	91990
May-21	93760
Jun-21	100360
Jul-21	99500
Aug-21	100760
Sep-21	103910
Oct-21	114730
Nov-21	101920
Dec-21	115370



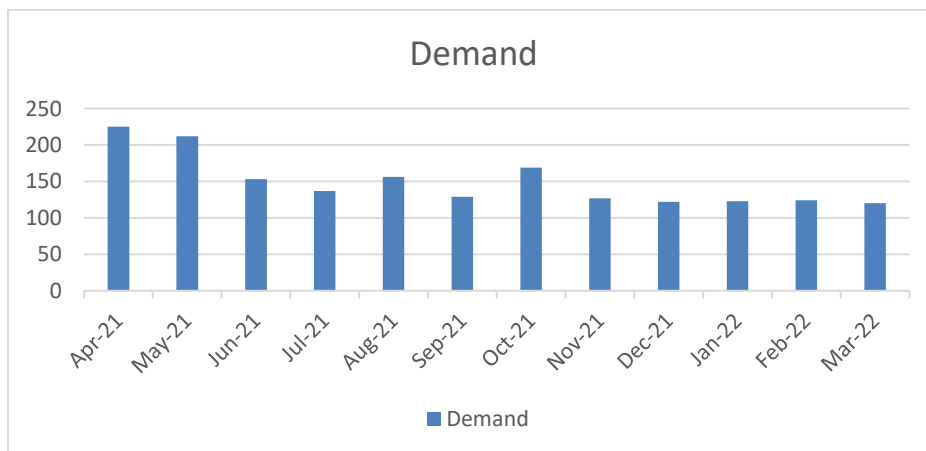
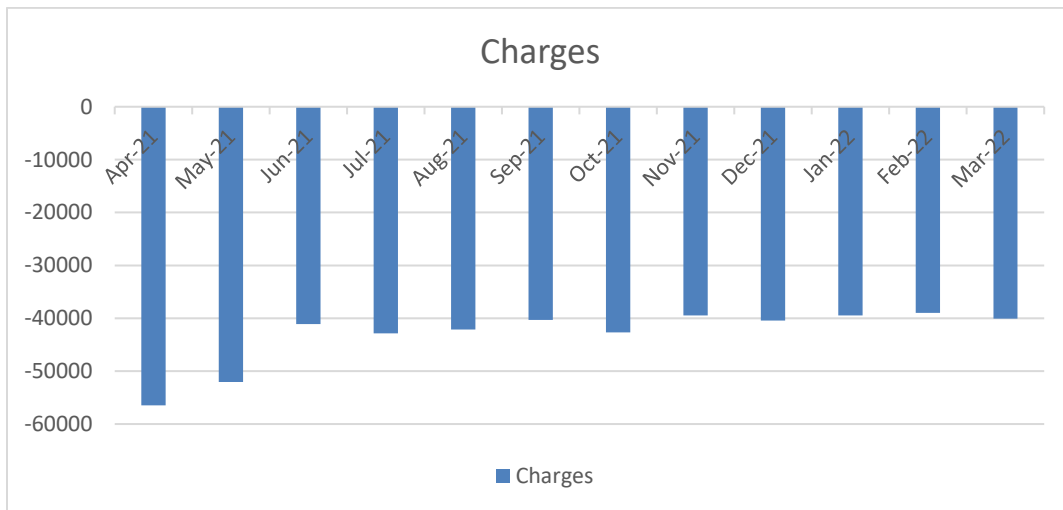
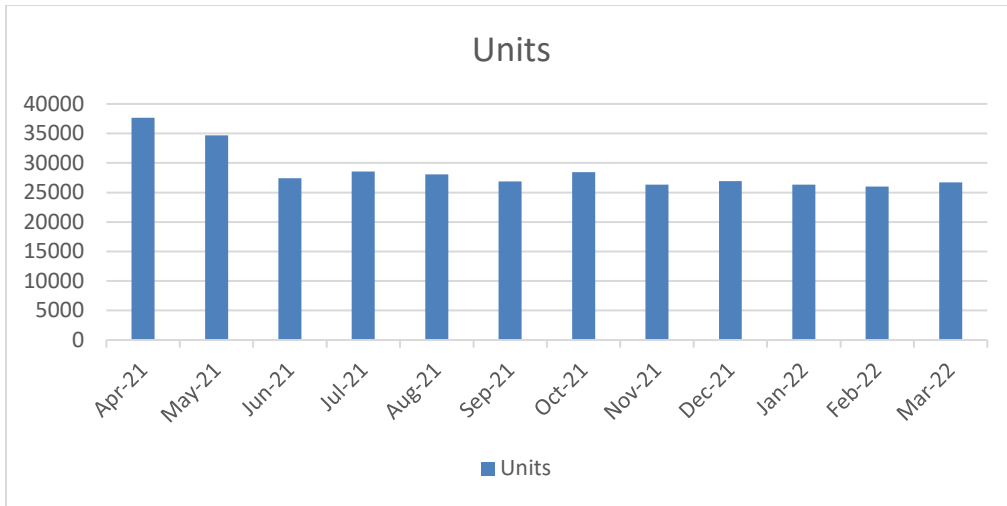
Observation: It is observed that the consumption is maximum in the month of March. The reason is due to temperature was more and hence ACs were working. Some measures need to take to increase efficiency of ACs and reduce the number of ACs wherever possible.

Zone 1 (00:00 Hrs- 06:00 Hrs & 22:00 Hrs -24:00 Hrs) Energy Consumption

Months	Units	Demand	Rate	Charges
Apr-21	37660	225	-1.5	-56490
May-21	34680	212	-1.5	-52020
Jun-21	27400	153	-1.5	-41100
Jul-21	28570	137	-1.5	-42855
Aug-21	28070	156	-1.5	-42105
Sep-21	26860	129	-1.5	-40290
Oct-21	28460	169	-1.5	-42690
Nov-21	26320	127	-1.5	-39480

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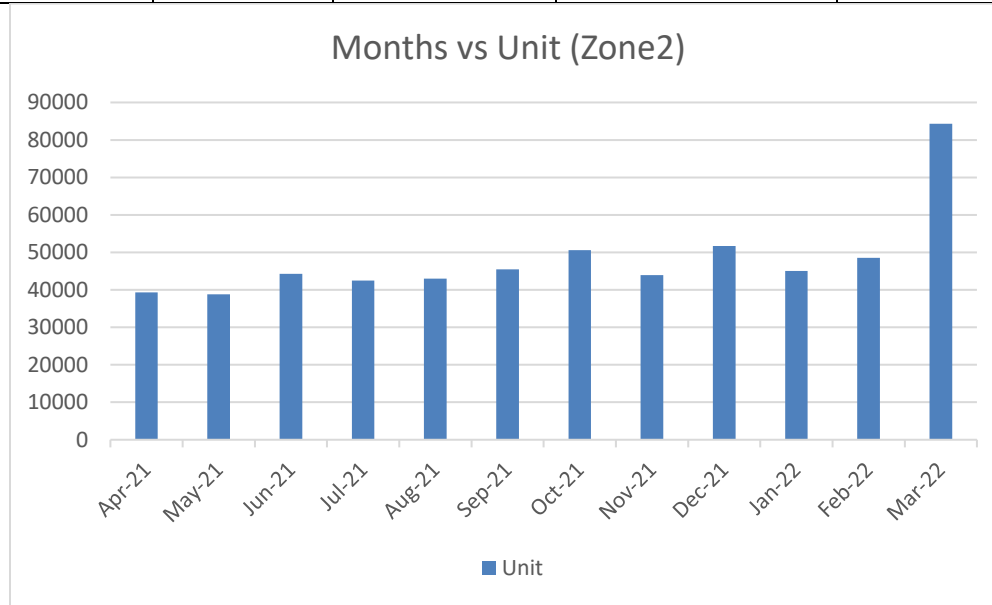
Dec-21	26950	122	-1.5	-40425
Jan-22	26310	123	-1.5	-39465
Feb-22	25990	124	-1.5	-38985
Mar-22	26720	120	-1.5	-40080



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Zone 2 (6 am to 9 am, 12 pm to 6 pm) Energy Consumption

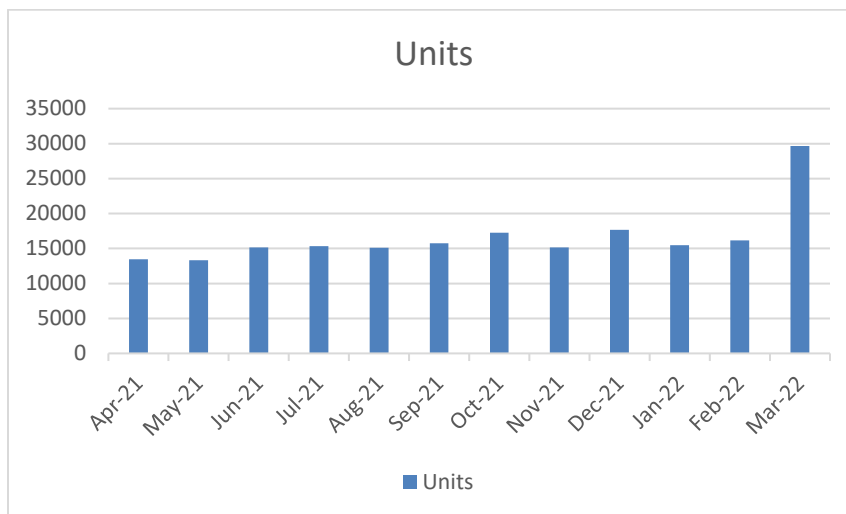
Zones	Rate	Unit	Demand	Charges
Apr-21	0	39310	323	0
May-21	0	38820	242	0
Jun-21	0	44300	277	0
Jul-21	0	42440	276	0
Aug-21	0	42960	271	0
Sep-21	0	45460	265	0
Oct-21	0	50570	364	0
Nov-21	0	43920	325	0
Dec-21	0	51720	326	0
Jan-22	0	45080	277	0
Feb-22	0	48530	405	0
Mar-22	0	84310	610	0



Zone 3 (09:00 Hrs-12:00 Hrs) Energy Consumption

Month	Rate	Units	Demand	Charges
Jan-22	0.8	15450	248	12360
Feb-22	0.8	16180	367	12944
Mar-22	0.8	29680	547	23744
Apr-21	0.8	13450	297	10760
May-21	0.8	13340	240	10672
Jun-21	0.8	15130	149	12104
Jul-21	0.8	15330	256	12264
Aug-21	0.8	15110	250	12088
Sep-21	0.8	15770	264	12616
Oct-21	0.8	17280	334	13824
Nov-21	0.8	15160	341	12128
Dec-21	0.8	17670	304	14136

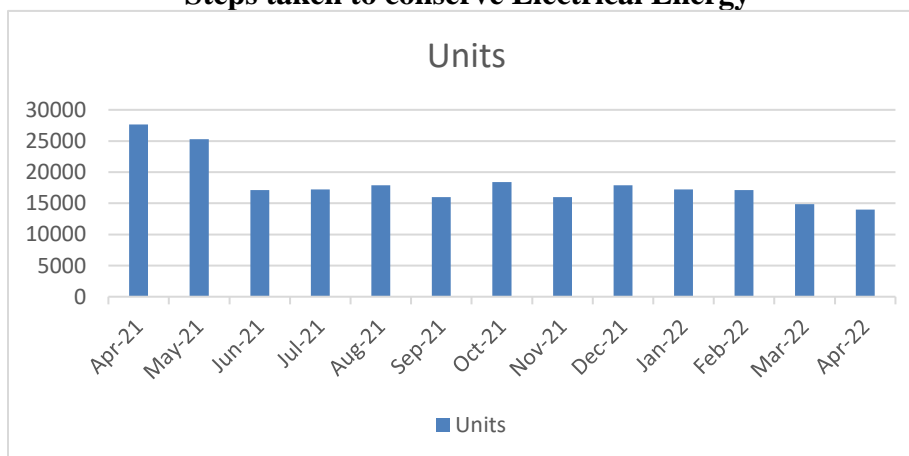
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Zone 4 (18:00 Hrs- 22:00 Hrs) Energy Consumption

Months	Rate	Units	Demand	Charges
Apr-21	1.1	27660	472	30426
May-21	1.1	25280	376	27808
Jun-21	1.1	17100	252	18810
Jul-21	1.1	17240	229	18964
Aug-21	1.1	17910	232	19701
Sep-21	1.1	15980	207	17578
Oct-21	1.1	18420	241	20262
Nov-21	1.1	15980	207	17578
Dec-21	1.1	17910	232	19701
Jan-22	1.1	17240	229	18964
Feb-22	1.1	17100	252	18810
Mar-22	1.1	14880	157	16368
Apr-22	1.1	14000	192	15400

Steps taken to conserve Electrical Energy



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1. Being academic institute lighting load is maximum. Use of energy efficient lighting system helps to reduce the consumption of energy in lighting. 80percent fittings are LED fittings
2. Solar panels are installed
3. Equal distribution of load.
4. SCADA for analysis of energy consumption pattern is installed.
5. Planning to schedule few academic activities in Zone 2 , where energy charges are less.
6. It is planned for activities;
 1. Installation Rooftop solar to meet 60 % requirement.
 2. Installing energy management software.
 3. Conduct of Energy audits at regular interval.

Observations and Recommendations:

1. The Institute performs fairly well on the environment related criteria studied through this report. The microclimate solves various heat gain issues which are otherwise a possibility in sites which are located in urban areas.
2. The site have good connectivity and is equally connected through, bus and road networks.
3. There have been measures undertaken by the authorities to add on the existing plantation of the site by landscaping and inclusion of native plants and medicinal herbs is noteworthy.
4. The segregation of waste is a factor where it needs to work on positively as the organic waste generated by the site is treated there itself by composting, and it is beneficial and the waste is treated at source itself
5. The buildings are very well oriented to fetch maximum day light in all indoor major function areas such as classrooms and labs. This saves on considerably on artificial lighting requirements.
6. The paper waste generated is being reused, thus contribution of 3R principle.
7. RO plants with water coolers are located at all suitable locations.
8. Fire extinguishers located at key areas.
9. No seepages were observed in the building premises.
10. Energy efficient computers and monitors have been procured and used to replace the older versions.
11. Electronic communication is encouraged to minimize usage of papers.
12. Most of the paper waste generated by the campus is reused for doubled sided printing.
13. It is recommended use of Sprinkler Irrigation system and drip irrigation system for garden areas.
14. The Institute must also harness solar energy as it has large facades on southern and western sides from where solar energy can be captured. The Institute must also provide Solar panels and harness lighting that can be used to lit outdoor areas of campus. Solar lights in the campus can also be provided. Installing roof top solar power PV system can reduce electrical bills and contribute to Carbon neutrality.
15. Students and Staff members are totally aware of pollution that is caused by use of vehicles. Still a carbon consumption awareness programme must be undertaken to check and improve the carbon emissions at individual as well as campus level so that it avoids Air and Noise pollution in the campus due to vehicles or any activity in it.
16. The Institute must also take measures to install water closets and fixtures that use less water. Similarly, all the fixtures of the toilets which have water leakage must be checked

and replaced. This will not only help in achieving maximum standards, but also greater efficiency.

17. Incinerators are installed for the scientific management of sanitary napkins (biomedical waste).
18. The sewage is disposed of through Municipal Corporation drainage system. In hostel campus, Decentralised wastewater system is used for partially treating wastewater and reuse for gardening applications and flushing of toilets. It is recommended to construct Sewage Treatment plant at Institute campus and treated STP water can be used for gardening applications and flushing of toilets.
19. Acoustic barriers are recommended on the facing sides to flyover, roads and railways to control noise pollution.
20. It is recommended to implement Rainwater Harvesting system to all buildings for conservation of water.

Annexure I



Certificate



This is to certify that **COLLEGE OF ENGINEERING, PUNE** is now a **Recognized Social Entrepreneurship, Swachhta & Rural Engagement Cell (SES REC) Institution**. The Institution has successfully framed the SES REC Action Plan and constituted ten working groups for improving facilities in the Campus and the Community/Adopted Villages in the areas of **Sanitation & Hygiene, Waste Management, Water Management, Energy Conservation and Greenery** post COVID-19, along with the observation of three environment, entrepreneurship and community engagement related days to inculcate in faculty, students and community, the practices of **Mentoring, Social Responsibility, Swachhta and Care for Environment and Resources**.

Date of Issue:30-08-2020


Dr. W G Prasanna Kumar
Chairman

Mahatma Gandhi National Council of Rural Education
Department of Higher Education, Ministry of Education
Government of India

Certificate No.: MoE/SESREC/MH/46

Annexure II



ANNEXURE III

List of plants from the Mula (North) campus of College of Engineering, Pune

No.	Botanical name of the plant	Girth (m)	Height (m)	Age (yr)
001	<i>Limonia acidissima</i> L.	0.2	5	10
002	<i>Dalbergia sissoo</i> Roxb.	0.5	9	20
003	<i>Dalbergia sissoo</i> Roxb.	0.6	13	25
004	<i>Azadirachta indica</i> A. Juss.	0.4	8	12
005	<i>Holoptelea integrifolia</i> (Roxb.) Planch.	1.0	13	25
006	<i>Albizia lebbek</i> (L.) Bth.	0.3	7	10
007	<i>Leucaena latisliqua</i> (L.) Gillis	1.5	15	25
008	<i>Tamarindus indica</i> L.	0.4	7	10
009	<i>Delonix regia</i> (Boj. ex Hook.) Raf.	1.0	12	15
010	<i>Pongamia pinnata</i> (L.) Pierre	1.0	10	20
011	<i>Leucaena latisliqua</i> (L.) Gillis	1.5	18	22
012	<i>Leucaena latisliqua</i> (L.) Gillis	1.0	13	20
013	<i>Leucaena latisliqua</i> (L.) Gillis	1.0	6	20
014	<i>Cassia siamia</i> Lam.	1.5	12	25
015	<i>Dalbergia sissoo</i> Roxb.	0.3	8	15
016	<i>Delonix regia</i> (Boj. ex Hook.) Raf.	1.0	18	25
017	<i>Delonix regia</i> (Boj. ex Hook.) Raf.	1.5	17	30
018	<i>Delonix regia</i> (Boj. ex Hook.) Raf.	1.0	17	25
019	<i>Erythrina variegata</i> L.	0.4	6	10
020	<i>Erythrina variegata</i> L.	1.5	15	25
021	<i>Ficus religiosa</i> L.	0.15	5	8
022	<i>Peltophorum pterocarpum</i> (DC.) Baker ex K. Heyne	2.0	17	35

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023	<i>Dalbergia sissoo</i> Roxb.	1.0	15	30
024	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.2	6	15
025	<i>Nyctanthus arbor-tristis</i> L.	0.15	9	8
026	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.25	11	18
027	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.2	8	15
028	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.3	8	20
029	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.5	9	25
030	<i>Araucaria columnaris</i> (G. Forst.) Hook	0.2	6	10
031	<i>Leucaena latisliqua</i> (L.) Gillis	0.1	5	7
032	<i>Mangifera indica</i> L.	0.15	5	10
033	<i>Pongamia pinnata</i> (L.) Pierre	0.5	8	15
034	<i>Acacia auriculiformis</i> A. Cunn. Ex Bth.	0.8	12	20
035	<i>Erythrina variegata</i> L.	1.5	14	35
036	<i>Erythrina variegata</i> L.	1.5	14	35
037	<i>Cassia siamea</i> Lam.	2.0	14	40
038	<i>Dalbergia sissoo</i> Roxb.	1.5	18	40
039	<i>Cassia siamea</i> Lam.	1.0	18	25
040	<i>Cassia siamea</i> Lam.	1.0	18	25
041	<i>Mangifera indica</i> L.	0.8	11	20
042	<i>Cassia siamea</i> Lam.	1.0	13	20
043	<i>Cassia siamea</i> Lam.	1.0	13	20
044	<i>Cassia fistula</i> L.	0.2	5	10
045	<i>Peltophorum pterocarpum</i> (DC.) Baker ex K. Heyne	0.8	13	20
046	<i>Bombax ceiba</i> L.	0.25	4	10

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047	<i>Holoptelea integrifolia</i> (Roxb.) Planch.	1.5	19	30
048	<i>Dalbergia sissoo</i> Roxb.	1.0	18	25
049	<i>Cassia siamea</i> Lam.	1.5	17	30
050	<i>Holoptelea integrifolia</i> (Roxb.) Planch.	1.5	18	15
051	<i>Holoptelea integrifolia</i> (Roxb.) Planch.	0.3	15	18
052	<i>Holoptelea integrifolia</i> (Roxb.) Planch.	0.4	15	20
053	<i>Syzygium cumini</i> (L.) Skeels.	0.8	18	20
054	<i>Syzygium cumini</i> (L.) Skeels.	0.8	18	20
055	<i>Pongamia pinnata</i> (L.) Pierre	0.8	18	20
056	<i>Syzygium cumini</i> (L.) Skeels.	0.7	18	20
057	<i>Carica papaya</i> L.	0.3	5	3
058	<i>Thespesia populnea</i> (L.) Soland. Ex. Corr.	1.0	14	20
059	<i>Syzygium cumini</i> (L.) Skeels.	1.5	16	25
060	<i>Artocarpus heterophyllus</i> Lam.	0.2	3	10
061	<i>Holoptelea integrifolia</i> (Roxb.) Planch.	0.2	5	10
062	<i>Holoptelea integrifolia</i> (Roxb.) Planch.	0.2	5	10
063	<i>Holoptelea integrifolia</i> (Roxb.) Planch.	0.3	5	12
064	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.5	15	20
065	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.5	15	20
066	<i>Peltophorum pterocarpum</i> (DC.) Baker ex K. Heyne	1.5	15	20
067	<i>Azadirachta indica</i> A. Juss.	0.5	14	15
068	<i>Dalbergia sissoo</i> Roxb.	1.5	16	25
069	<i>Holoptelea integrifolia</i> (Roxb.) Planch.	1.5	16	25
070	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.6	14	20
071	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.6	11	20

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072	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.6	11	20
073	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.6	11	20
074	<i>Jacaranda mimosifolia</i>	0.6	10	18
075	<i>Holoptelea integrifolia</i> (Roxb.) Planch.	1.5	20	30
076	<i>Azadirachta indica</i> A. Juss.	0.5	9	15
077	<i>Dalbergia sissoo</i> Roxb.	1.0	14	20
078	<i>Grevillea robusta</i> A. Cunn. Ex R. Br.	1.0	20	20
079	<i>Dalbergia sissoo</i> Roxb.	1.5	14	25
080	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.8	18	20
081	<i>Pongamia pinnata</i> (L.) Pierre	1.0	18	20
082	<i>Pongamia pinnata</i> (L.) Pierre	1.0	18	20
083	<i>Pongamia pinnata</i> (L.) Pierre	0.8	17	18
084	<i>Polyalthia longifolia</i> (Sonn.) Thw.	1.5	15	25
085	<i>Holoptelea integrifolia</i> (Roxb.) Planch.	0.8	15	18
086	<i>Ceiba pentandra</i> (L.) Gaertn.	1.5	16	20
087	<i>Ceiba pentandra</i> (L.) Gaertn.	0.2	6	8
088	<i>Pongamia pinnata</i> (L.) Pierre	0.2	4	6
089	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.3	11	15
090	<i>Peltophorum pterocarpum</i> (DC.) Baker ex K. Heyne	1.5	15	23
091	<i>Polyalthia longifolia</i> (Sonn.) Thw.	1.1	14	23
092	<i>Polyalthia longifolia</i> (Sonn.) Thw.	1.1	14	23
093	<i>Cassia siamea</i> Lam.	1.35	16	15
094	<i>Tabebuia argentea</i> (Bur. & Schum.) Britt.	0.6	10	9
095	<i>Peltophorum pterocarpum</i> (DC.) Baker ex K. Heyne	0.8	14	15

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096	<i>Broussonetia papyrifera</i> Vent.	1.02	16	16
097	<i>Leucaena latisliqua</i> (L.) Gillis	1.5	18	16
098	<i>Delonix regia</i> (Boj. ex Hook.) Raf.	1.0	16	15
099	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.51	12	15
100	<i>Samanea saman</i> (Jacq) Merr.	0.68	12	12
101	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.19	4	6
102	<i>Calophyllum inophyllum</i> L.	0.28	6	7
103	<i>Delonix regia</i> (Boj. ex Hook.) Raf.	0.84	16	11
104	<i>Leucaena latisliqua</i> (L.) Gillis	1.55	16	20
105	<i>Cassia siamea</i> Lam.	0.8	14	15
106	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.48	12	14
107	<i>Plumeria alba</i> L.	0.42	6	7
108	<i>Leucaena latisliqua</i> (L.) Gillis	1.06	16	14
109	<i>Spathodea campanulata</i> P. Beauv.	1.08	16	14
110	<i>Samanea saman</i> (Jacq) Merr.	1.37	18	14
111	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.57	9	12
112	<i>Azadirachta indica</i> A. Juss.	1.42	16	16
113	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.57	10	12
114	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.69	10	12
115	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.64	10	12
116	<i>Holoptelea integrifolia</i> (Roxb.) Planch.	1.22	18	14
117	<i>Azadirachta indica</i> A. Juss.	1.54	16	15
118	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.43	10	12
119	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.55	10	12
120	<i>Jacaranda acutifolia</i> Humb. & Bonpl.	1.08	16	14

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121	<i>Jacaranda acutifolia</i> Humb. & Bonpl.	1.6	16	20
122	<i>Holoptelea integrifolia</i> (Roxb.) Planch.	0.47	7	9
123	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.37	11	10
124	<i>Holoptelea integrifolia</i> (Roxb.) Planch.	0.67	12	10
125	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.53	11	12
126	<i>Peltophorum pterocarpum</i> (DC.) Baker ex K. Heyne	1.13	15	15
127	<i>Albizia lebbbeck</i> (L.) Bth.	1.19	15	17
128	<i>Santalum album</i> L.	0.32	7	8
129	<i>Azadirachta indica</i> A. Juss.	2.23	14	80
130	<i>Holoptelea integrifolia</i> (Roxb.) Planch.	2.55	20	90
131	<i>Holoptelea integrifolia</i> (Roxb.) Planch.	1.65	20	50
132	<i>Carica papaya</i> L.	0.28	5	3
133	<i>Carica papaya</i> L.	0.17	4	2
134	<i>Leucaena latisiliqua</i> (L.) Gillis	2.14	18	80
135	<i>Carica papaya</i> L.	0.26	4	3
136	<i>Leucaena latisiliqua</i> (L.) Gillis	0.49	3	5
137	<i>Terminalia catapa</i> L.	0.64	12	10
138	<i>Jacaranda mimosifolia</i>	0.55	10	7
139	<i>Azadirachta indica</i> A. Juss.	1.3	16	14
140	<i>Holoptelea integrifolia</i> (Roxb.) Planch.	2.8	16	90
141	<i>Pongamia pinnata</i> (L.) Pierre	0.56	7	9
141. a	<i>Psidium guajava</i> L.	0.1	2	4
142	<i>Polyalthia longifolia</i> (Sonn.) Thw.	1.25	18	22
143	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.97	18	22

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144	<i>Annona reticulata</i>	0.29	4	5
145	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.95	18	22
146	<i>Mimusops elengi</i>	0.17	6	8
147	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.98	18	22
148	<i>Polyalthia longifolia</i> (Sonn.) Thw.	1.07	18	22
148. a	<i>Azadirachta indica</i> A. Juss.	0.14	4	6
148. b	<i>Azadirachta indica</i> A. Juss.	0.1	3	5
149	<i>Polyalthia longifolia</i> (Sonn.) Thw.	1.03	18	22
150	<i>Polyalthia longifolia</i> (Sonn.) Thw.	1.18	18	30
151	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.88	18	30
152	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.13	5	6
153	<i>Cocos nucifera</i> L.	1.1	4	16
154	<i>Syzygium cumini</i> (L.) Skeels.	1.43	18	30
155	<i>Aegle marmelos</i> (L.) Corr.	0.18	3	5
156	<i>Cocos nucifera</i> L.	1.0	4	10
157	<i>Grevillea robusta</i> A. Cunn. Ex R. Br.	1.53	21	25
158	<i>Cocos nucifera</i> L.	1.06	4	16
159	<i>Cocos nucifera</i> L.	1.12	18	22
160	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.24	10	12
161	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.33	11	12
162	<i>Codiacum variegatum</i> (L.) Bl.	0.18	3	6
163	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.49	11	18
164	<i>Grevillea robusta</i> A. Cunn. Ex R. Br.	2.19	22	70
165	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.42	15	18

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166	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.45	13	18
167	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.65	10	18
168	<i>Cocos nucifera</i> L.	0.97	2	16
169	<i>Cocos nucifera</i> L.	1.06	12	22
170	<i>Syzygium cumini</i> (L.) Skeels.	0.35	4	10
171	<i>Artocarpus heterophyllus</i> Lam.	0.15	5	8
172	<i>Acacia auriculiformis</i> A. Cunn. ex Bth.	0.28	7	10
173	<i>Syzygium cumini</i> (L.) Skeels.	0.29	6	10
174	<i>Mangifera indica</i> L.	0.2	5	10
175	<i>Cocos nucifera</i> L.	0.97	4	16
176	<i>Bauhinia variegata</i> L.	0.26	4	8
177	<i>Caryota urens</i>	0.86	12	20
178	<i>Psidium guajava</i> L.	0.43	6	12
179	<i>Ficus racemosa</i> L.	1.4	17	25
180	<i>Mangifera indica</i> L.	0.44	9	10
181	<i>Psidium guajava</i> L.	0.26	3	8
182	<i>Ficus racemosa</i> L.	1.65	16	32
183	<i>Polyalthia longifolia</i> (Sonn.) Thw.	1.27	20	30
183a	<i>Terminalia catapa</i> L.	0.1	3	5
184	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.46	8	12
185	<i>Delonix regia</i> (Boj. ex Hook.) Raf.	1.57	20	18
186	<i>Bahunia racemosa</i> Lam.	0.19	5	6
187	<i>Holoptelea integrifolia</i> (Roxb.) Planch.	1.25	15	17
188	<i>Dendrocalamus strictus</i> Nees.	0.07	8	4
189	<i>Dendrocalamus strictus</i> Nees.	0.1	3	4

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190	<i>Azadirachta indica</i> A. Juss.	1.6	14	18
191	<i>Santalum album</i> L.	0.17	5	8
192	<i>Holoptelea integrifolia</i> (Roxb.) Planch.	0.34	5	9
193	<i>Tamarindus indica</i> L.	3.55	18	150
194	<i>Ficus religiosa</i> L.	0.52	6	13
195	<i>Mangifera indica</i> L.	0.33	4	10
196	<i>Mangifera indica</i> L.	0.18	3	7
197	<i>Syzygium cumini</i> (L.) Skeels.	0.36	6	11
198	<i>Grevillea robusta</i> A. Cunn. Ex R. Br.	0.28	5	11
199	<i>Syzygium cumini</i> (L.) Skeels.	0.18	4	7
200	<i>Tamarindus indica</i> L.	3.13	17	150
201	<i>Tamarindus indica</i> L.	3.33	17	150
202	<i>Terminalia catapa</i> L.	0.37	8	10
203	<i>Terminalia catapa</i> L.	0.27	6	10
204	<i>Annona squamosa</i> L.	0.13	2	7
205	<i>Peltophorum pterocarpum</i> (DC.) Baker ex K. Heyne	0.19	6	5
206	<i>Syzygium cumini</i> (L.) Skeels.	0.18	4	7
207	<i>Acacia auriculiformis</i> A. Cunn. Ex Bth.	0.33	8	10
208	<i>Santalum album</i> L.	0.26	6	10
209	<i>Tamarindus indica</i> L.	2.1	12	70
210	<i>Swietenia mahagoni</i> (L.) Jacq.	0.14	4	5
211	<i>Holoptelea integrifolia</i> (Roxb.) Planch.	1.42	18	30
212	<i>Swietenia mahagoni</i> (L.) Jacq.	0.13	2	5
213	<i>Cassia siamea</i> Lam.	0.09	2	4

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214	<i>Acacia auriculiformis</i> A. Cunn. Ex Bth.	0.11	2	4
215	<i>Swietenia mahagoni</i> (L.) Jacq.	0.19	4	6
216	<i>Hibiscus rosa-sinensis</i> L.	0.12	2	4
217	<i>Acacia auriculiformis</i> A. Cunn. Ex Bth.	0.14	2	4
218	<i>Jacaranda acutifolia</i> Humb. & Bonpl.	0.19	2	5
219	<i>Swietenia mahagoni</i> (L.) Jacq.	0.22	1	5
220	<i>Pongamia pinnata</i> (L.) Pierre	0.14	1	4
221	<i>Jacaranda acutifolia</i> Humb. & Bonpl.	0.23	5	6
222	<i>Cassia siamea</i> Lam.	0.25	4	6
223	<i>Tamarindus indica</i> L.	3.45	22	150
223. a	<i>Psidium guajava</i> L.	0.1	3	5
224	<i>Samaea saman</i> (Jacq) Merr.	3.4	22	50
225	<i>Samanea saman</i> (Jacq) Merr.	4.24	22	150
226	<i>Duranta erecta</i> L.	0.14	2	3
227	<i>Ficus racemosa</i> L.	0.36	5	8
228	<i>Leucaena latisiliqua</i> (L.) Gillis	0.32	10	8
229	<i>Bamboo</i>	0.16	10	8
230	<i>Leucaena latisiliqua</i> (L.) Gillis	0.55	11	10
231	<i>Delonix regia</i> (Boj. ex Hook.) Raf.	0.72	11	13
232	<i>Leucaena latisiliqua</i> (L.) Gillis	0.46	11	10
233	<i>Pongamia pinnata</i> (L.) Pierr.	0.16	3	6
234	<i>Azadirachta indica</i> A. Juss.	0.53	7	12
235	<i>Azadirachta indica</i> A. Juss.	0.41	5	10
236	<i>Sapindus laurifolius</i> Vahl.	0.33	3	8

237	<i>Leucaena latisiliqua</i> (L.) Gillis	0.45	11	10
238	<i>Leucaena latisiliqua</i> (L.) Gillis	0.23	6	7
239	<i>Pongamia pinnata</i> (L.) Pierr.	1.2	10	18
240	<i>Pithecellobium dulce</i> (Roxb) Bth.	0.6	12	10
241	<i>Annona squamosa</i> L.	0.26	5	7
242	<i>Psidium guajava</i> L.	0.15	3	7
243	<i>Psidium guajava</i> L.	0.24	6	7
244	<i>Psidium guajava</i> L.	0.27	6	7
245	<i>Ficus racemosa</i> L.	1.12	12	20
246	<i>Tamarindus indica</i> L.	0.11	2	6
247	<i>Mognifera indica</i> L.	0.25	6	8
248	<i>Samanea saman</i> (Jacq) Merr.	1.75	20	27
249	<i>Plumeria alba</i> L.	0.11	3	5
250	<i>Justicia adhatoda</i> L.	0.19	3	5
251	<i>Hibiscus rosasinensis</i> L.	0.14	2	5
252	<i>Hibiscus rosasinensis</i> L.	0.1	2	5
253	<i>Hibiscus rosasinensis</i> L.	0.1	2	5
254	<i>Holoptelea integrifolia</i> (Roxb.) Planch.	1.07	14	16
255	<i>Holoptelea integrifolia</i> (Roxb.) Planch.	0.96	15	19
256	<i>Delonix regia</i> (Boj. ex Hook.) Raf.	1.52	16	19
257	<i>Bahunia racemosa</i> L.	0.13	3	4
258	<i>Leucaena latisiliqua</i> (L.) Gillis	0.38	13	12
259	<i>Samanea saman</i> (Jacq) Merr.	1.88	18	25
260	<i>Bauhinia variegata</i> L.	0.13	2	5
261	<i>Leucaena latisiliqua</i> (L.) Gillis	1.19	15	18

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262	<i>Eucalyptus</i> sp.	1.58	20	25
263	<i>Azadirachta indica</i> A. Juss.	0.81	10	18
264	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.14	5	7
265	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.65	15	18
266	<i>Psidium guajava</i> L.	0.11	2	4
267	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.62	14	18
268	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.77	15	18
269	<i>Psidium guajava</i> L.	0.37	7	10
270	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.65	15	18
271	<i>Psidium guajava</i> L.	0.78	10	16
272	<i>Azadirachta indica</i> A. Juss.	1.58	13	25
273	<i>Syzygium cumini</i> (L.) Skeels	0.8	11	20
274	<i>Tamarindus indica</i> L.	0.69	7	18
275	<i>Ficus racemosa</i> L.	1.49	18	30
276	<i>Roystonea regia</i>	0.52	2	11
277	<i>Roystonea regia</i>	0.4	3	11
278	<i>Santalum album</i> L.	0.15	4	9
279	<i>Roystonea regia</i>	0.38	4	11
280	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.72	17	18
281	<i>Azadirachta indica</i> A. Juss.	0.62	8	10
282	<i>Eucalyptus</i> sp.	1.43	20	22
283	<i>Eucalyptus</i> sp.	0.68	18	18
284	<i>Eucalyptus</i> sp.	1.06	18	22
285	<i>Samanea saman</i> (Jacq) Merr.	3.4	20	150
286	<i>Pongamia pinnata</i> (L.) Pierr.	1.44	20	20

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287	<i>Samanea saman</i> (Jacq) Merr.	2.25	19	80
288	<i>Azadirachta indica</i> A. Juss.	1.93	15	50
289	<i>Dalbergia sissoo</i> Roxb.	0.57	7	15
290	<i>Delonix regia</i> (Boj. ex Hook.) Raf.	1.21	17	20
291	<i>Bauhinia variegata</i> L.	0.5	7	15
292	<i>Delonix regia</i> (Boj. ex Hook.) Raf.	1.66	17	40
293	<i>Delonix regia</i> (Boj. ex Hook.) Raf.	1.72	15	40
294	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.43	12	18
295	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.42	11	18
296	<i>Pithecellobium dulce</i> (Roxb) Bth.	1.0	10	18
297	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.63	10	18
298	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.54	10	18
299	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.47	10	18
300	<i>Millingtonia hortensis</i> L.f.	1.28	19	25
301	<i>Eucalyptus</i> sp.	1.82	22	25
302	<i>Bauhinia variegata</i> L.	0.65	7	15
303	<i>Cassia siamea</i> Lam.	1.57	12	40
304	<i>Acacia nilotica</i> (L.) Willd. ex Del.	0.84	12	12
305	<i>Syzygium cumini</i> (L.) Skeels	2.07	12	70
306	<i>Acacia nilotica</i> (L.) Willd. Ex Del.	0.88	11	12
307	<i>Acacia nilotica</i> (L.) Willd. ex Del.	0.98	11	12
308	<i>Santalum album</i> L.	0.28	7	9
309	<i>Acacia nilotica</i> (L.) Willd. ex Del.	0.7	10	12
310	<i>Pithecellobium dulce</i> (Roxb) Bth.	0.48	8	8
311	<i>Phoenix sylvestris</i>	0.9	10	28

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312	<i>Pithecellobium dulce</i> (Roxb) Bth.	0.2	6	8
313	<i>Phoenix sylvestris</i>	1.4	10	30
314	<i>Cordia dichotoma</i> Forst. f.	0.17	5	5
315	<i>Cordia dichotoma</i> Forst. f.	0.35	7	8
316	<i>Pithecellobium dulce</i> (Roxb.) Bth.	0.65	8	12
316. a	<i>Cordia dichotoma</i> Forst. f.	0.15	2	5
316. b	<i>Leucaena latisiliqua</i> (L.) Gillis	0.1	3	4
316. c	<i>Cordia dichotoma</i> Forst. f.	0.2	2	5
317	<i>Leucaena latisiliqua</i> (L.) Gillis	0.21	9	5
318	<i>Leucaena latisiliqua</i> (L.) Gillis	0.33	9	6
319	<i>Leucaena latisiliqua</i> (L.) Gillis	0.22	9	5
320	<i>Unidentified</i>	0.18	6	5
321	<i>Unidentified</i>	0.19	6	5
322	<i>Muntingia calabura</i> L.	0.55	7	13
322. a	<i>Pithecellobium dulce</i> (Roxb) Bth.	0.15	1.5	8
323	<i>Tamarindus indicus</i> L.	2.5	20	90
324	<i>Leucaena latisiliqua</i> (L.) Gillis	0.61	10	10
325	<i>Leucaena latisiliqua</i> (L.) Gillis	0.23	1.5	6
326	<i>Leucaena latisiliqua</i> (L.) Gillis	0.35	10	9
326. a	<i>Leucaena latisiliqua</i> (L.) Gillis	0.2	2	4
326. b	<i>Leucaena latisiliqua</i> (L.) Gillis	0.2	2	4
327	<i>Santalum album</i> L.	0.17	5	6
328	<i>Santalum album</i> L.	0.21	6	6
328. a	<i>Leucaena latisiliqua</i> (L.) Gillis	0.2	2	4

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329	<i>Tamarindus indica</i> L.	3.4	25	150
329. a	<i>Pithecellobium dulce</i> (Roxb) Bth.	0.1	2	3
329. b	<i>Leucaena latisiliqua</i> (L.) Gillis	0.2	2	4
330	<i>Ziziphus jujuba</i> Mill	0.43	6	10
331	<i>Holoptelea integrifolia</i> (Roxb.) Planch.	0.63	7	10
332	<i>Acacia nilotica</i> (L.) Willd. ex Del	0.9	8	12
333	<i>Pithecellobium dulce</i> (Roxb) Bth.	0.5	9	10
334	<i>Ziziphus jujuba</i> Mill.	0.4	5	10
335	<i>Acacia nilotica</i> (L.) Willd. ex Del	0.76	6	12
335. a	<i>Broussonetia papyrifera</i> Vent.	0.12	3	5
336	<i>Broussonetia papyrifera</i> Vent.	0.37	5	9
337	<i>Broussonetia papyrifera</i> Vent.	0.4	5	9
338	<i>Broussonetia papyrifera</i> Vent.	0.28	5	9
339	<i>Cassia siamea</i> Lam.	0.54	10	9
339. a	<i>Broussonetia papyrifera</i> Vent.	0.15	3	5
339. b	<i>Broussonetia papyrifera</i> Vent.	0.12	3	5
339. c	<i>Muntingia calabura</i> L.	0.2	3	5
340	<i>Pithecellobium dulce</i> (Roxb) Bth.	0.38	10	9
340. a	<i>Pongamia pinnata</i> (L.) Pierre	0.05	1	3
340. b	<i>Pithecellobium dulce</i> (Roxb) Bth.	0.1	3	5
341	<i>Carica papaya</i> L.	0.53	3	4
342	<i>Samanea saman</i> (Jacq) Merr	7.85	17	200
343	<i>Tamarindus indica</i> L.	5.5	20	50
344	<i>Polyalthia longifolia</i> (Sonn.) Thw.	1.2	13	22

345	<i>Pongamia pinnata</i> (L.) Pierre	1.11	14	19
346	<i>Pongamia pinnata</i> (L.) Pierre	0.8	15	18
347	<i>Pithecellobium dulce</i> (Roxb) Bth.	0.7	7	15
348	<i>Pithecellobium dulce</i> (Roxb) Bth.	0.5	8	13
349	<i>Pongamia pinnata</i> (L.) Pierre	0.28	1	5
350	<i>Muntingia calabura</i> L.	0.28	1	5

List of plants from the Mutha (South) campus of College of Engineering, Pune

No.	Botanical Name of the Plant	Girth (m)	Height (m)	Age (yr)
01	<i>Azadirachta indica</i> A. Juss.	1.33	10	23
02	<i>Holoptelea integrifolia</i> (Roxb.) Planch.	1.21	12	25
03	<i>Pithecellobium dulce</i> (Roxb) Bth.	1.27	7	25
04	<i>Ziziphus jujuba</i> Mill.	2.12	12	28
05	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.28	5	10
06	<i>Annona squamosa</i> L.	0.28	5	8
07	<i>Annona squamosa</i> L.	0.14	3	5
08	<i>Annona squamosa</i> L.	0.12	3	5
09	<i>Artocarpus heterophyllus</i> Lam.	0.40	7	15
10	<i>Ficus racemosa</i> L.	0.61	10	18
11	<i>Punica granatum</i> L.	0.15	3	5
12	<i>Citrus aurantifolia</i> (Christm. & Panz.) Swingle	0.17	3	7
13	<i>Annona squamosa</i> L.	0.06	1	2
14	<i>Psidium guajava</i> L.	0.16	5	8
15	<i>Hibiscus rosa-sinensis</i> L.	0.13	1	3
16	<i>Hibiscus rosa-sinensis</i> L.	0.14	2	4
17	<i>Tamarindus indica</i> L.	2.90	16	35
18	<i>Plumeria alba</i> L.	2.24	10	24
19	<i>Azadirachta indica</i> A. Juss.	0.70	11	16

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20	<i>Moringa oleifera</i> Lam.	1.00	12	16
21	<i>Ficus racemosa</i> L.	0.09	1.5	3
22	<i>Azadirachta indica</i> A. Juss.	0.09	12	15
23	<i>Pongamia pinnata</i> (L.) Pierre	0.24	2	5

24	<i>Annona squamosa</i> L.	0.20	6	8
25	<i>Broussonetia papyrifera</i> Vent.	1.56	15	25
26	<i>Gossypium hirsutum</i> L.	0.12	1.5	2
27	<i>Azadirachta indica</i> A. Juss.	0.06	2	2
28	<i>Psidium guajava</i> L.	0.16	4	7
29	<i>Annona squamosa</i> L.	0.09	4	3
30	<i>Leucaena latisiliqua</i> (L.) Gillis	0.95	20	18
31	<i>Murraya koenigii</i> (L.)	0.21	4	8
32	<i>Artocarpus heterophyllus</i> Lam.	0.21	5	8
33	<i>Annona squamosa</i> L.	0.10	1	3
34	<i>Mangifera indica</i> L.	0.04	1	2
35	<i>Syzygium cumini</i> (L.) Skeels.	0.04	1.5	3
36	<i>Mangifera indica</i> L.	0.04	0.5	2
37	<i>Manilkara zapota</i> (L.) P.Royen	0.04	1	3
38	<i>Hibiscus rosa-sinensis</i> L.	0.06	2	4
39	<i>Gossypium hirsutum</i> L.	0.10	2.5	3
40	<i>Hibiscus rosa-sinensis</i> L.	0.10	2	4
41	<i>Mangifera indica</i> L.	0.12	2	4
42	<i>Gossypium hirsutum</i> L.	0.04	1	2
43	<i>Gossypium hirsutum</i> L.	0.04	1	2
44	<i>Gossypium hirsutum</i> L.	0.04	2	2
45	<i>Cajanus cajan</i> l. millsp	0.04	2	1
46	<i>Gossypium hirsutum</i> L.	0.06	2	2
47	<i>Pithecellobium dulce</i> (Roxb) Bth.	0.66	8	15
48	<i>Mangifera indica</i> L.	0.40	8	12
49	<i>Artocarpus heterophyllus</i> Lam.	0.13	5	6

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50	<i>Citrus aurantifolia</i> (Christm. & Panz.) Swingle	0.15	3	6
51	<i>Broussonetia papyrifera</i> Vent.	0.10	3	2
52	<i>Broussonetia papyrifera</i> Vent.	0.36	11	9
53	<i>Mangifera indica</i> L.	1.11	15	24
54	<i>Moringa oleifera</i> Lam.	0.08	0.5	1

55	<i>Moringa oleifera</i> Lam.	0.10	4	3
56	<i>Moringa oleifera</i> Lam.	0.76	11	10
57	<i>Syzygium cumini</i> (L.) Skeels.	1.38	20	28
58	<i>Hibiscus rosa-sinensis</i> L.	0.20	3	6
59	<i>Syzygium cumini</i> (L.) Skeels.	1.13	22	28
60	<i>Musa paradisiacal</i> L.	0.40	4	5
61	<i>Ziziphus jujuba</i> Mill.	1.60	20	30
62	<i>Annona reticulata</i> L.	0.42	5	10
63	<i>Annona squamosa</i> L.	0.24	4	6
64	<i>Pithecellobium dulce</i> (Roxb) Bth.	0.83	12	18
65	<i>Ficus racemosa</i> L.	0.18	3	4
66	<i>Pithecellobium dulce</i> (Roxb) Bth.	1.24	12	26
67	<i>Azadirachta indica</i> A. Juss.	1.60	20	35
68	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.26	7	10
69	<i>Terminalia catapa</i> L.	0.32	10	8
70	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.23	7	10
71	<i>Azadirachta indica</i> A. Juss.	1.38	20	35
72	<i>Ficus racemosa</i> L.	1.33	20	35
73	<i>Azadirachta indica</i> A. Juss.	0.59	12	15
74	<i>Mangifera indica</i> L.	1.14	22	35
75	<i>Moringa oleifera</i> Lam.	0.76	11	10
76	<i>Annona squamosa</i> L.	0.26	5	7
77	<i>Mangifera indica</i> L.	1.26	20	35
78	<i>Ficus racemosa</i> L.	1.17	20	30
79	<i>Syzygium cumini</i> (L.) Skeels.	1.80	22	40
80	<i>Syzygium cumini</i> (L.) Skeels.	0.80	18	25

81	<i>Mangifera indica</i> L.	0.70	18	20
82	<i>Punica granatum</i> L.	0.24	4	7
83	<i>Santalum album</i> L.	0.37	6	11
84	<i>Cajanus cajan</i> l. millsp	0.04	1	1
85	<i>Artocarpus heterophyllus</i> Lam.	0.46	10	15

86	<i>Morus alba</i> Linn.	0.48	5	10
87	<i>Mangifera indica</i> L.	0.34	6	8
88	<i>Mangifera indica</i> L.	1.44	22	35
89	<i>Syzygium cumini</i> (L.) Skeels.	1.30	22	35
90	<i>Syzygium cumini</i> (L.) Skeels.	1.80	20	40
91	<i>Mangifera indica</i> L.	0.04	2	3
92	<i>Mangifera indica</i> L.	0.06	2	3
93	<i>Ficus racemosa</i> L.	0.32	2	6
94	<i>Ziziphus jujuba</i> Mill	0.56	8	15
95	<i>Moringa oleifera</i> Lam.	1.04	10	20
96	<i>Azadirachta indica</i> A. Juss.	1.14	15	18
97	<i>Ficus religiosa</i> L.	2.00	25	50
98	<i>Eucalyptus</i> sp.	1.00	18	30
99	<i>Eucalyptus</i> sp.	2.20	25	45
100	<i>Eucalyptus</i> sp.	1.53	26	35
101	<i>Eucalyptus</i> sp.	1.82	25	35
102	<i>Tamarindus indica</i> L.	1.86	18	40
103	<i>Delonix regia</i> (Boj. ex Hook.) Raf.	0.43	4	10
104	<i>Delonix regia</i> (Boj. ex Hook.) Raf.	0.32	4	10
105	<i>Terminalia catapa</i> L.	0.24	4	8
106	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.18	4	8
107	<i>Limonia acidissima</i> L.	2.17	25	50
108	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.23	10	12
109	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.08	4	8
110	<i>Terminalia catapa</i> L.	0.30	6	12

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111	<i>Codia</i> sp.	0.05	2	3
112	<i>Mangifera indica</i> L.	0.36	9	15
113	<i>Codia</i> sp.	0.08	2	4
114	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.47	12	15
115	<i>Mangifera indica</i> L.	0.15	4	7
116	<i>Grevillea robusta</i> A. Cunn. Ex R. Br.	0.18	6	7

117	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.89	17	30
118	<i>Ficus racemosa</i> L.	0.05	2	3
119	<i>Schleichera oleosa</i>	0.19	3	6
120	Unidentified	0.20	5	8
121	<i>Mangifera indica</i> L.	0.06	2	4
122	<i>Delonix regia</i> (Boj. ex Hook.) Raf.	1.13	17	30
123	<i>Azadirachta indica</i> A. Juss.	0.90	22	32
124	<i>Azadirachta indica</i> A. Juss.	0.60	11	28
125	<i>Azadirachta indica</i> A. Juss.	1.60	12	28
126	<i>Ficus racemosa</i> L.	0.46	4	8
127	<i>Ficus racemosa</i> L.	1.00	16	55
128	<i>Roystonea regia</i>	1.40	22	50
129	<i>Spathodea campanulata</i> P. Beauv.	0.90	17	20
130	<i>Delonix regia</i> (Boj. ex Hook.) Raf.	0.60	6	15
131	<i>Delonix regia</i> (Boj. ex Hook.) Raf.	1.52	17	40
132	<i>Leucaena latisiliqua</i> (L.) Gillis	1.74	12	35
133	<i>Leucaena latisiliqua</i> (L.) Gillis	1.80	12	35
134	<i>Cassia siamia</i> Lam.	1.06	20	30
135	<i>Polyalthia longifolia</i> (Sonn.) Thw.	1.31	22	40
136	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.54	18	25
137	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.40	16	20
138	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.32	14	18

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139	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.30	14	18
140	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.24	14	18
141	<i>Roystonea regia</i> O.F.Cook	0.22	4	8
142	<i>Leucaena latisiliqua</i> (L.) Gillis	1.20	16	30
143	<i>Gliricidia sepium</i> (Jacq.) Kunth	0.42	6	10
144	<i>Millingtonia hortensis</i> L.f.	0.20	6	8

145	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.26	6	15
146	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.30	6	15
147	<i>Cassia siamia</i> Lam.	0.86	12	28
148	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.27	6	15
149	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.28	10	15
150	<i>Holoptelea integrifolia</i> (Roxb.) Planch.	2.88	25	60
151	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.38	16	18
152	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.43	14	18
153	<i>Mangifera indica</i> L.	0.12	3	6
154	<i>Pongamia pinnata</i> (L.) Pierre	0.63	10	20
155	<i>Delonix regia</i> (Boj. ex Hook.) Raf.	1.33	15	35
156	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.30	10	16
157	<i>Sapindus laurifolius</i> Vahl.	0.04	2	1
158	<i>Gliricidia sepium</i> (Jacq.) Kunth	0.32	7	8
159	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.45	10	18
160	<i>Plumeria alba</i> L.	0.14	1	4
161	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.80	20	30
162	<i>Mangifera indica</i> L.	0.76	10	22
163	<i>Azadirachta indica</i> A. Juss.	1.52	16	30
164	<i>Azadirachta indica</i> A. Juss.	1.38	20	30
165	<i>Azadirachta indica</i> A. Juss.	0.77	14	20
166	<i>Azadirachta indica</i> A. Juss.	1.23	20	30
167	<i>Azadirachta indica</i> A. Juss.	0.92	10	20
168	<i>Grevillea robusta</i> A. Cunn. Ex R. Br.	1.70	25	35

169	<i>Azadirachta indica</i> A. Juss.	1.82	20	35
170	<i>Mangifera indica</i> L.	0.33	5	10
171	<i>Mangifera indica</i> L.	0.46	12	16
172	<i>Ceiba pentandra</i> (L.) Gaertn.	0.12	4	6
173	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.36	14	18
174	<i>Terminalia catapa</i> L.	0.59	15	16
175	<i>Syzygium cumini</i> (L.) Skeels.	1.38	20	40

176	<i>Mangifera indica</i> L.	0.98	18	32
177	<i>Syzygium cumini</i> (L.) Skeels.	0.27	5	8
178	<i>Mangifera indica</i> L.	1.42	21	32
179	<i>Psidium guajava</i> L.	0.43	8	16
180	<i>Azadirachta indica</i> A. Juss.	1.50	10	40
181	<i>Mangifera indica</i> L.	1.36	21	40
182	<i>Psidium guajava</i> L.	0.18	5	10
183	<i>Mangifera indica</i> L.	1.60	25	50
184	<i>Artocarpus heterophyllus</i> Lam.	0.08	1	2
185	<i>Terminalia catapa</i> L.	0.08	1.5	2
186	<i>Mangifera indica</i> L.	3.30	25	80
187	<i>Polyalthia longifolia</i> (Sonn.) Thw.	2.00	25	80
188	<i>Artocarpus heterophyllus</i> Lam.	1.88	18	80
189	<i>Ficus racemosa</i> L.	2.26	25	70
190	<i>Ficus racemosa</i> L.	0.48	5	30
191	<i>Khaya senegalensis</i> Desr (A.Juss)	0.28	6	12
192	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.13	4	8
193	<i>Terminalia catapa</i> L.	0.80	15	16
194	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.15	4	8
195	<i>Santalum album</i> L.	0.17	5	8
196	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.16	5	8
197	<i>Santalum album</i> L.	0.18	5	8
198	<i>Holoptelea integrifolia</i> (Roxb.) Planch.	1.45	25	65

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199	<i>Holoptelea integrifolia</i> (Roxb.) Planch.	1.08	22	50
200	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.80	18	40
201	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.68	18	45
202	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.68	20	45
203	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.48	12	30
204	<i>Ficus banghalensis</i> L.	3.00	28	150
205				

206	<i>Ficus banghalensis</i> L.	3.00	28	100
207				
208	<i>Millingtonia hortensis</i> L.f.	0.46	8	10
209	<i>Millingtonia hortensis</i> L.f.	1.06	18	20
210	<i>Millingtonia hortensis</i> L.f.	0.91	25	22
211	<i>Millingtonia hortensis</i> L.f.	0.72	12	15
212	<i>Cocos nucifera</i> L.	0.86	20	30
213	<i>Spathodea campanulata</i> P. Beauv.	1.20	22	32
214	<i>Spathodea campanulata</i> P. Beauv.	0.84	14	25
215	<i>Spathodea campanulata</i> P. Beauv.	0.84	14	25
216	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.84	16	30
217	<i>Azadirachta indica</i> A. Juss.	1.12	15	25
218	<i>Santalum album</i> L.	0.38	9	15
219	<i>Hyophorbe lagenicaulis</i> (L.H.Bailey) H.E.Moore	0.18	4	10
220	<i>Ficus racemosa</i> L.	0.94	8	20
221	<i>Azadirachta indica</i> A. Juss.	0.44	8	10
222	<i>Mangifera indica</i> L.	0.60	8	15
223	<i>Tamarindus indica</i> L.	0.69	6	15
224	<i>Delonix regia</i> (Boj. ex Hook.) Raf.	1.74	15	35
225	<i>Cocos nucifera</i> L.	0.94	20	30
226	<i>Azadirachta indica</i> A. Juss.	0.86	13	20
227	<i>Araucaria columnaris</i> (G. Forst.) Hook	0.14	3	12

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228	<i>Ficus racemosa</i> L.	1.03	15	40
229	<i>Roystonea regia</i> O.F.Cook	0.97	20	40
230	<i>Roystonea regia</i> O.F.Cook	0.93	20	40
231	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.39	15	18
232	<i>Hyophorbe lagenicaulis</i> (L.H.Bailey) H.E.Moore	1.73	22	50
233	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.46	10	18
234	<i>Hyophorbe lagenicaulis</i> (L.H.Bailey) H.E.Moore	1.80	23	50
235	<i>Roystonea regia</i> O.F.Cook	0.20	12	20
236	<i>Roystonea regia</i> O.F.Cook	0.24	12	20
237	<i>Roystonea regia</i> O.F.Cook	0.30	3	8
238	<i>Roystonea regia</i> O.F.Cook	0.24	3	8
239	<i>Roystonea regia</i> O.F.Cook	0.20	2	8
240	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.53	14	20
241	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.40	6	18
242	<i>Eucalyptus</i> sp.	1.14	25	32
243	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.42	15	20
244	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.32	5	12
245	<i>Cassia siamia</i> Lam.	0.66	18	25
246	<i>Leucaena latisiliqua</i> (L.) Gillis	0.78	20	25
247	<i>Leucaena latisiliqua</i> (L.) Gillis	0.72	20	25
248	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.33	8	18
249	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.56	20	20
250	<i>Cassia siamia</i> Lam.	0.70	12	25
251	<i>Terminalia catapa</i> L.	0.78	20	25
252	<i>Bauhinia variegata</i> L.	0.60	18	28
253	<i>Sterculia futida</i> L.	1.58	25	80
254	<i>Sterculia futida</i> L.	1.05	25	60
255	<i>Sterculia futida</i> L.	1.36	25	70
256	<i>Plumeria alba</i> L.	0.16	2	5
257	<i>Ficus banghalensis</i> L.	4.00	22	100
258	<i>Ficus banghalensis</i> L.	3.00	20	100

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259	<i>Ficus banghalensis</i> L.	3.00	20	100
260	<i>Ficus banghalensis</i> L.	3.00	20	100
261	<i>Ficus banghalensis</i> L.	2.00	20	100
262	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.66	18	80
263	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.27	14	22
264	<i>Albizia lebbbeck</i> (L.) Bth.	0.88	14	30
265	<i>Delonix regia</i> (Boj. ex Hook.) Raf.	1.26	18	30
266	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.38	10	25
267	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.41	12	25
268	<i>Terminalia catapa</i> L.	0.30	9	18
269	<i>Garcinia indica</i> Choisy	0.18	5	10
270	<i>Gliricidia sepium</i> (Jacq.) Kunth	1.00	0.5	50
271	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.38	11	25
272	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.41	13	25
273	<i>Artocarpus heterophyllus</i> Lam.	0.39	11	25
274	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.41	14	25
275	<i>Leucaena latisiliqua</i> (L.) Gillis	0.92	18	30
276	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.35	14	25
277	<i>Jacaranda mimosifolia</i> D.Don	0.93	18	30
278	<i>Annona squamosa</i> L.	0.21	5	7
279	<i>Delonix regia</i> (Boj. ex Hook.) Raf.	1.00	18	30
280	<i>Pithecellobium dulce</i> (Roxb) Bth.	1.14	18	30
281	<i>Punica granatum</i> L.	0.40	1	8
282	<i>Azadirachta indica</i> A. Juss.	0.40	6	10
283	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.30	3	10
284	<i>Samanea saman</i> (Jacq) Merr.	2.46	20	60
285	<i>Millingtonia hortensis</i> L.f.	0.75	16	30
286	<i>Azadirachta indica</i> A. Juss.	0.96	14	25
287	<i>Azadirachta indica</i> A. Juss.	1.22	12	38
288	<i>Millingtonia hortensis</i> L.f.	0.94	16	35
289	<i>Leucaena latisiliqua</i> (L.) Gillis	0.90	14	25

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290	<i>Azadirachta indica</i> A. Juss.	1.70	16	40
291	<i>Mangifera indica</i> L.	0.44	7	15
292	<i>Muntingia calabura</i> L.	0.20	5	9
293	<i>Leucaena latisiliqua</i> (L.) Gillis	0.16	3	3
294	<i>Leucaena latisiliqua</i> (L.) Gillis	0.04	3	2
295	<i>Leucaena latisiliqua</i> (L.) Gillis	0.08	4	3
296	<i>Ficus racemosa</i> L.	0.04	1	1
297	<i>Leucaena latisiliqua</i> (L.) Gillis	0.08	4	3
298	<i>Muntingia calabura</i> L.	0.15	5	9
299	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.72	16	32
300	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.57	16	32
301	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.53	16	32
302	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.68	16	32
303	<i>Jacaranda mimosifolia</i> D.Don	0.87	18	30
304	<i>Samanea saman</i> (Jacq) Merr.	1.06	18	40
305	<i>Jacaranda mimosifolia</i> D.Don	0.85	18	30
306	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.66	16	32
307	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.74	10	32
308	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.55	15	32
309	<i>Santalum album</i> L.	0.34	14	25
310	<i>Santalum album</i> L.	0.31	6	20
311	<i>Ficus microcarpa</i>	3.00	20	100
312	<i>Roystonea regia</i> O.F.Cook	1.27	20	60
313	<i>Syzygium cumini</i> (L.) Skeels.	0.66	16	30
314	<i>Holoptelea integrifolia</i> (Roxb.) Planch.	1.58	18	35
315	<i>Artocarpus heterophyllus</i> Lam.	0.32	6	25
316	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.32	10	25
317	<i>Jacaranda mimosifolia</i> D.Don	0.62	8	25
318	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.68	20	35
319	<i>Millingtonia hortensis</i> L.f.	1.65	22	40
320	<i>Millingtonia hortensis</i> L.f.	2.00	22	40

321	<i>Millingtonia hortensis</i> L.f.	0.23	6	8
322	<i>Azadirachta indica</i> A. Juss.	1.32	16	35
323	<i>Pongamia pinnata</i> (L.) Pierre	0.58	10	28
324	<i>Pongamia pinnata</i> (L.) Pierre	0.78	12	28
325	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.42	10	25
326	<i>Polyalthia longifolia</i> (Sonn.) Thw.	0.39	12	25
327	<i>Ficus banghalensis</i> L.	3.00	26	100
328	<i>Millingtonia hortensis</i> L.f.	0.22	6	8
329	<i>Millingtonia hortensis</i> L.f.	2.23	26	80
330	<i>Holoptelea integrifolia</i> (Roxb.) Planch.	0.19	5	8
331	<i>Santalum album</i> L.	0.20	4	8
332	<i>Santalum album</i> L.	0.20	4	8
333	<i>Tamarindus indica</i> L.	1.86	15	45
334	<i>Holoptelea integrifolia</i> (Roxb.) Planch.	1.24	20	45
335	<i>Tamarindus indica</i> L.	0.65	9	30
336	<i>Pithecellobium dulce</i> (Roxb) Bth.	0.56	8	20
337	<i>Tamarindus indica</i> L.	0.54	9	20
338	<i>Millingtonia hortensis</i> L.f.	1.19	22	40
339	<i>Annona reticulata</i> L.	0.58	5	16
340	<i>Tecoma stans</i> (L.) Juss. ex Kunth	0.06	2	4
341	<i>Tecoma stans</i> (L.) Juss. ex Kunth	0.04	1	2
342	<i>Caesalpinia pulcherrima</i> (L.) Sw.	0.06	1	2
343	<i>Caesalpinia pulcherrima</i> (L.) Sw.	0.08	2	3
344	<i>Caesalpinia pulcherrima</i> (L.) Sw.	0.08	2	3
345	<i>Tecoma stans</i> (L.) Juss. ex Kunth	0.08	2	3
346	<i>Tecoma stans</i> (L.) Juss. ex Kunth	0.08	2	3
347	<i>Caesalpinia pulcherrima</i> (L.) Sw.	0.08	2	3
348	<i>Millingtonia hortensis</i> L.f.	0.80	18	35
349	<i>Tecoma stans</i> (L.) Juss. ex Kunth	0.10	2	3
350	<i>Tecoma stans</i> (L.) Juss. ex Kunth	0.08	2	3

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336	<i>Pithecellobium dulce</i> (Roxb) Bth.	0.56	8	20
337	<i>Tamarindus indica</i> L.	0.54	9	20
338	<i>Millingtonia hortensis</i> L.f.	1.19	22	40
339	<i>Annona reticulata</i> L.	0.58	5	16
340	<i>Tecoma stans</i> (L.) Juss. ex Kunth	0.06	2	4
341	<i>Tecoma stans</i> (L.) Juss. ex Kunth	0.04	1	2
342	<i>Caesalpinia pulcherrima</i> (L.) Sw.	0.06	1	2
343	<i>Caesalpinia pulcherrima</i> (L.) Sw.	0.08	2	3
344	<i>Caesalpinia pulcherrima</i> (L.) Sw.	0.08	2	3
345	<i>Tecoma stans</i> (L.) Juss. ex Kunth	0.08	2	3
346	<i>Tecoma stans</i> (L.) Juss. ex Kunth	0.08	2	3
347	<i>Caesalpinia pulcherrima</i> (L.) Sw.	0.08	2	3
348	<i>Millingtonia hortensis</i> L.f.	0.80	18	35
349	<i>Tecoma stans</i> (L.) Juss. ex Kunth	0.10	2	3
350	<i>Tecoma stans</i> (L.) Juss. ex Kunth	0.08	2	3