7.1.6. Energy Audit of the Institution:



Appasaheb R. B. Garud Art's, Commerce and Science College,

Shendurni, Tal: Jamner, Dist-Jalgaon 424204

Energy Audit Report

Submitted to

Principal,

Appasaheb R.B. Garud Art's, Commerce and Science College,

Shendurni, Tal: Jamner Dist-Jalgaon 424204

Garud Arts' Comm.& Science

Dr. Sharad Bhimrao Patil

Department of Physics,

Appasaheb R. B. Garud Art's, Commerce and Science College,

Shendurni, Tal: Jamner

1. Introduction:

We enjoy a very comfortable life by using electric energy, but we must also be aware global issues. One of the most immediate benefits of saving electricity is the amount of money we will save each month on our utility bills. Another benefit of using less electricity is the positive impact you can have on the environment. Almost everything in a workplace setting

The Energy Audit is completed by considering, how many tubes, fans, A.Cs, electronic Instruments etc. in each classrooms and departments of the College.

2. Objectives:

- To analyze the energy flows in a building, and understand its energy dynamics.
- To reduce the amount of energy input into the building.
- To indicate how and where we can reduce energy consumption and save Energy costs.
- To learn how to work as a group.
- To be able to teach and promote knowledge to the others.

3. Experimental and data collection:

- All required data is collected with the help of non-teaching staff. In this survey building is divided in to three parts.
- ➤ 1. Part I Ground floor
- ➤ 2. Part II- First floor
- In every room, how much fans, tubes, fans computer, instruments, AC, were measured. According to Survey following data was collected.

A.R.B. Garud Arts' Comm.& Science College

28 27 2			-	A building	ground floor			
Room	Tube Light	CFL	LED	Fan	Refrigerator	Computer with laptop	LASER printer	Xerox Machine
Principal's office	2	1	6	2		3	2	1
Administrative office	3	1	8	4		8	4	i
Department of Physics and Lab.	-		1	1		1		
Department of Chemistry and Lab.I		1	1	1	01			
Chemistry and Lab.II			1	1	-	1	1	1
Department of Computer	1	1	2	2		22	1	
Laddies Room	1	1	2	1			-	
Department of Commerce	1		1	2		19	1	
Competitive examination hall	4	2	1	3	-	5		(***)
Department of History	1	-	1	1	-		1	
Department of English	1	-	1	1	- COMPAN	17	1	
Staff Room	3		1, 101	2	LAINIIAP	1 = n		
ice principal cabin	2	61	LINUU	I A		EIIIIA		
Exam Department	2	JE DI	1	1		2	2	2
College porch and ground	8	71-	10 0-0	P350C.	_TD.,SHEND	URNI	170N	
ndoor stadium	11	-9/_	30	10				
Outdoor stadium	3	A y	4	3	-	to The state of th	- A	
Library	2	2	6	6	111	3		
Guest house	4	9-	20	4	///	16/	- Y A	
Seminar hall	3	11		8	1-111		5- \ A	
Canteen	5	- N		2	0 //		-7070	
	. T		A building I	irst , second	iloor		. 1	
Department of Colitics	1	7-	1	1		1	1	NEED .
Department of Economics	I	1	1	1		_1	1	
Department of Sotany and Zoology	-	1	1	2		1	- 10	-
Department of Marathi, Hindi and Deography	-		1	2	-/	3		
lediation room	0	W k	1	2	4-	-	4 V/69	1
onference hall	5	1	3	6		1-7	1-/-	
SS and SDD epartment	1	1	- 3	1		2	V	
adies hostel	5			114 Holl	nam & Call	-		
otal	69	13	105	88	Villina OCIE	80	17	
alculation	0.19*30	2.990 *30	6.3	5.06 *30	2.76 *30	9.2 *0.5=4.6	0.475 *30	0.460 *30
'atts	5900	8900	18100.1 25	15100.8	8200.8	13800	1400.25	1300.8

¥

			A build	ling ground flo	or			013
Room	LCD projector	K Yan	Air conditioner	LCD TV	Sanitary Napkin	LED notice board	CCTV camera	PA Systen
Principal's office		1	1	1			1	
Administrative office	-	-		1			3	
Department of Physics and Lab.							1	
Department of Chemistry and Lab.I							1	
Chemistry and Lab.II			-		-	-	1	-
Department of Computer	1	-	2=	-			1	
Laddies Room					2			
Department of Commerce	1		- UDAII SI	COND	DV		1	
Competitive examination hall	-	ESHE	DUKINI SI	1	KY EDU	CATIO	1	-
Department of History	- 1	400	G-OP SOC.	LTD.,SHE	NDURNI	E.LOV	1	-
Department of English	1	1/0	-	-	-	all a	1	
Staff Room	\	Labor		//	/	- 672	1	
Vice principal cabin	- 04	7	-	-(1)	//////	- 6	1	
Exam Department	7	- 4	-	- 3.7/	-		1	
College porch and ground	- 66	7-	-	- 1		1	4	-
Indoor stadium	- 1	_ 8	- 65	-/			1	
Outdoor stadium	1 4	- 1	- July 1988	- /	-	-	10	1-
Library	- 1210	810		1 75	-	-	3	
Guest house	- 47		2	1		4	1	3
Seminar hall	1	-		18	-		1	
Canteen	- 6		-	D 7/4		111/4	1	
	- WAY		A building l	First, second f	loor	. VA		•
Department of Politics	-				7	-0/_	1	-
Department of Economics			anud Arts' (omm & 9	Cionas a		1	-
Department of Botany and	-	A.R.B.	ial da i i i e	-	STALLER CO	llego	1	-
Coology Department of Marathi, Hindi	1	-		9/1	-		1	
nd Geography								
Mediation room		- 1	-		-		1	-
onference hall SS and SDD								
epartment							i	
adies hostel		1	2	-	-	-	1 1	
otal alculation		0.028 *20	3	5 0.28 *30	2	1 0 0 0 0 0 10 0	32	3
aicuiation	1.437 *30	0.028 *30	0.354 *30	U /X *3()	0.115 *30	0.0690 *30	3.280 *30	0.0086 *30

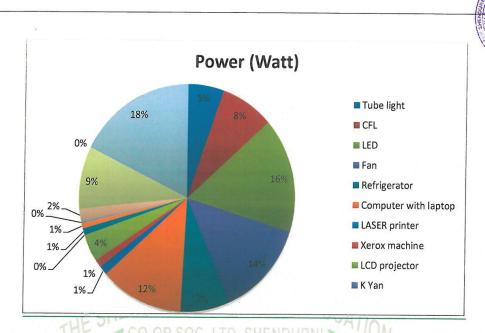


Fig:1: Analysis of different electrical device with power (Circular Chart)

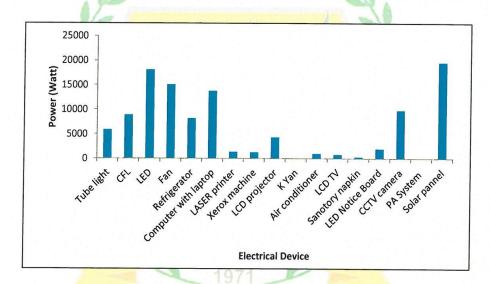
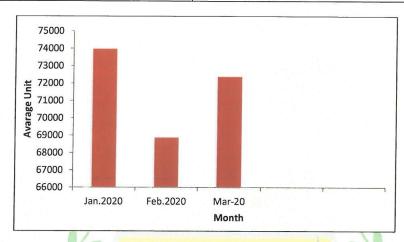


Fig:2: Analysis of different electrical device with power (Bar)

Electrical audit is main concern about educational institutional. We collected data by considering tube light, CFL light, fan computer printer, AC and instruments. In our college most of the electricity required for the instruments which is 58.8% out of total energy. A.C. utilized 15.18%, printer utilized 1%, and computer required 12%. Fans required 14% and CFL light required 8%. And Solar panel provides 18% power. By using LED light we have save 13 to 15% power as compared to CFL ad tube light. To save the power our institute purchases the solar plant (4 Kwh per day). The total required energy is 92,215 watts. Figure 1 and 2 shows contribution of tube light, fan, computer, printer, AC and Solar panel instruments in total use of energy.

The units utilized by college

Month	Unit Utilized	100
Jan.2020	72400	
Feb.2020	74000	
March 2020	76000	



4. Conclusion:

Data generated in energy audit are useful for to understand the energy distribution and utilization of college. The college needs maximum 92,015 Watts for electricity. As total power consumption by using solar panel we have use 18% power.

5. Suggestions:

- Turn off lights and equipment when not in use.
- Use available sunlight to illuminate your work spaces.
- Replace incandescent light bulbs with compact fluorescent lamps.
- Use LED bulbs for save more electricity.
- ☐ Energy Audit.
- ☐ Install occupancy sensors to automatically turn off lights.
- Control direct sunlight through windows with screens or film.
- Tune-up your HVAC units (clean and check refrigerant charge).
- ☐ Install programmable thermostats.
- ☐ Purchase ENERGY STAR office equipment.



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7.1.6.1. Environmental/Green Audit:





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APPASAHEB R. B. GARUD ARTS, अप्पासाहेब र. भा. गरूड कला, COMMERCE and SCIENCE COLLEGE, SHENDURNI, TAL. JAMNER, DIST. JALGAON (424204)

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NAAC Re-Accredited '8' Grade (2.58) 150 - 9001:2008 Affiliated to North Maharashtra University Jalgaon (MS. India)

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E-mail garudcollege@gmail.com
Recognition-U.G.C.2 F & 12 B
F.No.1-1/2004(CPP-1) Feb 2010

Mr. Sanjay Bhaskarrao Garud, B.Com. D.B.N.
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Date / दिनांक: 28/06/2096

प्रति.

चेअरमन : प्राचार्य डॉ.व्ही.आर.पाटील

Dr. Vasudeo Ramesh Patil, M.Sc. Ph.D.

सदस्य

डॉ. निलेश डी. वाघ (बहिस्थ)

डॉ प्रशांत एस.देशमुख

डॉ.श्याम जीवन साळुखे

डॉ. आजिनाथ.एन.जिवरग

(Environment/ Green Audit committee)

विषय : नियमित सभा आयोजित करून अंतिम अहवाल सादर करण्याबाबत .

महोदय ,

आपली महाविद्यालयाच्या Environment/Green Audit committee च्या चेअरमन । सदस्य पदी सन २०१८ -२०२२ ह्या कालावधीसाठी नियुक्ती करण्यात आलेली आहे . आपण आपल्या समितीमधील संबंधित असलेल्या चेअरमन । सदस्या सोबत नियमित पणे सभा आयोजित करुन किया सभा घेऊन समिती गतिशील करावी आणि त्याप्रमाणे सभेतील कामकाजाची नोंद - अहवाल रजिस्टर तयार करून अंतिम अहवाल वर्षाच्या शेवटी सादर करावा.

Chandury 47 1294, Tal Jamner

"SAVE THE MOTHER EARTH



APPASAHEB RAGHUNATHRAO BHAURAO GARUD ARTS, COMMERCE AND SCIENCE COLLEGE

SHENDURNI, TAL. JAMNER, DIST. JALGAON MAHARASHTRA 424204





The Shendurni Secondary Education Co-op Society's Appasaheb Raghunathrao Bhaurao Garud Arts, Commerce and Science College Shendurni, Tal. Jamner Dist. Jalgaon, is deeply concerned and unconditionally believes that there is an urgent need to address these fundamental problems and reverse the trends. The college has initiated "The Green Campus' program five years back that activity promote the various projects for the environment protection and sustainability.

The Purpose of the audit was to ensure that the practices followed in the campus are in accordance with the Green policy adopted by the institution. The methodology include: physical inspection of the campus, observation and review of the documentation, interviewing key persons and data analysis, measurements and recommendations. It works on the several facets of Green Campus including water Conservation, Tree Plantation, Waste Management, paperless work, Alternative Energy and Mapping of Biodiversity. With this in mind, the specific objectives of the audit are to evaluate the adequacy of the management control framework of environment sustainability as well as the degree to which the Departments are in compliance with the applicable regulations, policies and standards. It can make a tremendous impact on student health and learning college operational costs and the environment. The criteria, methods and recommendations used in the audit were based on the identified risks.

INTRODUCTION

Green audit can be defined as systematic identification, quantification, recording, reporting and analysis of components of environmental diversity. The 'Green Audit' aims to analyze environmental practices within and outside the college campus, which will have an impact on the eco-friendly ambience. It was initiated 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 gets a direction as how to improve the condition of environment and there are various factors that have determined the growth of carrying out Green Audit.

Green audit is assigned to the criteria VII of NAAC, National assessment and Accreditation Council which is a self-governing organization of India which declares the institutions different Grades according to the scores assigned during the accreditation.



About the College

The Shendurni Secondary Education Co-op Society's Appasaheb Raghunathrao Bhaurao Garud Arts, Commerce and Science College Shendurni, Tal. Jamner Dist. Jalgaon, Maharashtra is a NAAC (B) grade with CGPA 2.58 in Second Cycle of NAAC Assessment and Accreditation 48 years young college having Three faculties- Arts, Commerce and Science. The college is located in the rural area with beautiful campus. The college main building shows separate laboratories of Chemistry, Botany, Zoology, Physics Functional English, Computer science and Commerce. The college has adopted the Green Campus system for environmental conservation and sustainability. The Green Campus has been active since last 10 years both as a group of sub committees that actively promote the various projects. The college administration works on the several facets of Green Campus including Water Conservation, Tree Plantation, Waste Management, etc.

Objectives of the study

The main objective of the green audit is to promote the Environmental Management and Conservation in the College Campus. The purpose of the audit is to identify, quantify, describe and prioritize framework of Environmental Sustainability in compliance with the applicable regulations, policies and standards. The objectives of carrying out Green Audit are:

- To introduce and aware students to real concerns of environment and its sustainability.
- The secure the environment and cut down the threats posed to human health to analyzing the pattern and extent of resource use on the campus.
- To establish a baseline data to assess future sustainability by avoiding the interruptions in environment
- To bring out a status report on environmental compliance.
- To maintain college campus is plastic free, etc.



Methodology

In order to perform green audit, the methodology include different tools such as preparation of physical inspection of the campus, observation and review of the documentation, interviewing key persons and data analysis, measurements and recommendations. The study covered the following areas to summarize the present status of environment management in the campus:

Observations and Recommendations

- 1) Water Supply management: Rain Water Harvesting, use of minimum water, etc.
- 2) Energy use and conservation
- 3) Waste Management
- 4) Green Area
- 5) No Vehicle Day
- 6) Tree Adoption Scheme
- 7) State level award (राज्यस्तरीय पूर्यावरण रत्न पूरस्कार)

1) Water Supply management

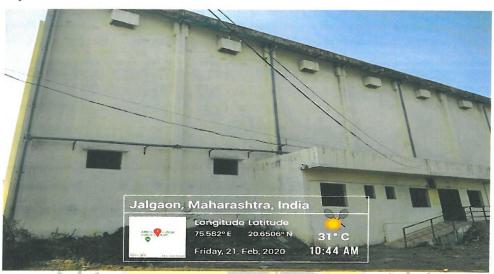
Water is a key driver and is vital to development of Biodiversity, Agriculture, Humans as well as the Economy. With recent experiences across the world and in India, the water scarcity and security is emerging issues. The state of Maharashtra has also faced severe impact of the water scarcity in the recent past. Therefore water management is a crucial step of sustainable development and it also has been made an integral part of the Sustainable Development Goals (SDGs).

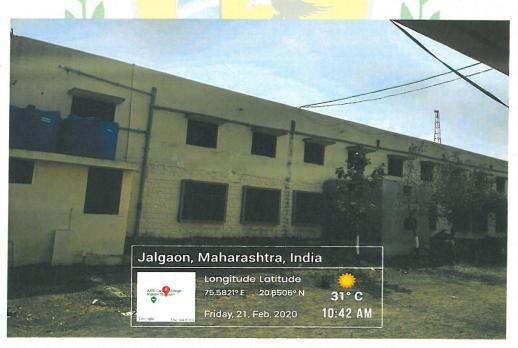
Unplanned rural growth and economic development has placed unprecedented pressures on natural resources especially on water. Increasing demand for the water in rural areas such as Shendurni highlights the necessity of the overall water management.

Observations

The study observed that water supply is taken from Borewell, which recharged with Rain water harvesting project situated in the college campus. RO filtered fresh Water is used for drinking purpose, canteen, toilets, laboratory and gardening. During the survey, no loss of water is observed. On an average the total use of water in the

college is 5,000 L/day, which includes 1,000 L/day for domestic purposes, 2,000 L/day for gardening and 2,000 L/day for different laboratories. Gardens are watered by using drip irrigation system to save water. This is one of the unique steps towards greening practices.





Water storage tank: this tank is used to store rain water which is collected from terrace



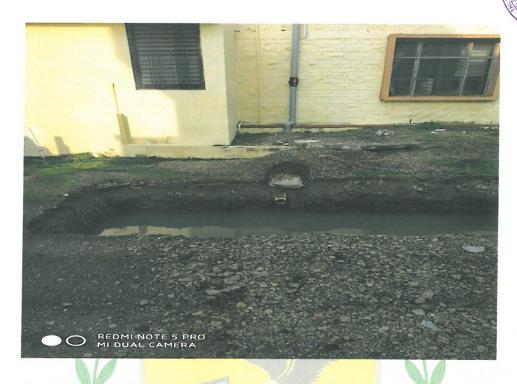
Percolation tank no 1



Percolation tank no 2

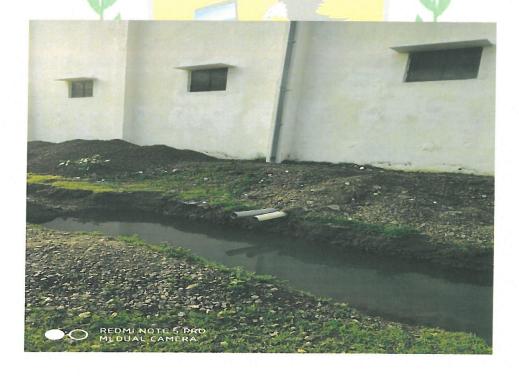


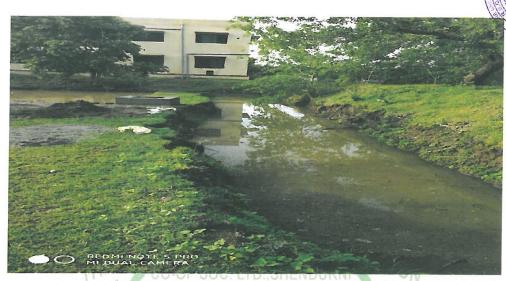












Rain water percolation around bore well

Recommendations

- Similarly, periodical cleaning of water tanks is very essential.
- Reuse and recycle of water system is necessary.
- Based on the water consumption about 90% of the water supplied is converted in to the waste water either through the washrooms, chemical laboratories, etc.
- It was observed that there is no separate drainage system for collecting and transporting liquids from chemical laboratories.

Sewerage Management

- Based on the water consumption about 90% of the water supplied is converted in to the waste water either through the washrooms, chemical laboratories, etc.
- It was observed that there is no separate drainage system for collecting and transporting sewage and liquids from chemical laboratories.

2) Energy use and conservation

Data generated in energy audit are useful for to understand the energy distribution and utilization of college. The college needs maximum 92,015 Watts for electricity. As total power consumption by using solar panel we have use 18% power.

In science departments like physics, chemistry, mathematics, botany and zoology electricity was shut down after occupancy time is one of the green practices for energy conservation.



Observations

- > Large numbers of LED lamps are used.
- > Photovoltaic cells are not installed in the campus.

Recommendations

- Installation of LED lamps instead of CFL
- Support renewable and carbon-neutral electricity options.

Electrical Load Calculations in the College

Sr. No.	Description SEUUNDARY En.	Total Nos.
01	Tubes	69
02	CFL Bulbs CO OD SOC ITD SHEMDURAL)A; 13
03	LED Bulbs	105
04	Fans	88
05	Refrigerators	01
06	Computers including Laptop	<u> </u>
07	LASER printers	17
08	Xerox machines	04
09	LCD projectors	05
10	K-Yan (All in Education Instruments with Projector and PC)	01
11	Air conditioners	03
12	Electric pump (3H.P.)	03
13	LCD Television	05
14	Sanitary Napkin Vending Machine with Disposal	02
15	LED Notice Board	01
16	CCTV Camera	32
17	Public Address System (Audio)	03

The units utilized by college

Month	Unit Utilized
Jan.2020	72400
Feb.2020	74000
March 2020	76000

3) Waste Management

This indicator addresses waste production and disposal of different wastes like paper, food, plastic, biodegradable, construction, glass, dust etc. and recycling. Solid waste includes wasted materials resources that could be channeled into better service through recycling, repair and reuse. Unscientific handling of solid waste can crate threats to everyone. The survey focused on volume, type and current management practice of solid waste generated in the campus.

Observations

The total solid waste collected in the campus is 10 kg/day. Waste generation from tree droppings is a major solid waste generated in the campus. The waste is segregated at source by providing separate dustbins for bio-degradable (Sanitary Napkin Disposal Machine) and plastic waste. Segregation of chemical waste generated in chemistry laboratory is also practiced. Single sided used papers reused for writing and printing in all departments. Very less plastic waste is generated by some departments, office, garden, canteen, etc. but it is neither categorized at point source nor sent for recycling. Paper waste, Metal waste and wooden waste is stored and given to authorized scrap agents for further processing. Few glass bottles are reused in the laboratories. Awareness program among farmers is also conducted in the village nearby.

Recommendations

- > Provide sufficient, accessible and well publicized collection points for recyclable waste
- > Single sided papers to be used for writing and photocopy.
- > Important and confidential papers after their validity to be sent for pulping
- No segregation of the common garbage in the campus.
- Most of the times the horticulture waste and other common garbage from the campus is burnt near the parking lot which pose a threat to the environment and the human health.
- Chemical / other hazardous waste (liquid & solid) needs to be disposed as per government norms.
- > Recyclables viz. paper, metal scrap etc. is disposed of / sold out to scrap dealers a tender procedure, and however no information is available on the recyclables.



4) Green Area

Plants, a great creation of almighty god serves in many ways like health, recreation and socio economic up-liftment of human been for our present, future generations. A plant not only beautifies the campus but it also imparts life and colors to a particular areas. As the plants has many fold importance. In this regards the beautiful campus of the college is enriched with the plant wealth of about 1097 plants in all. They are divided in to 35 different plant species belonging to different plant families.

To nurture the nature college has campus beautification committee through which varieties of the plants were planted through college funding's even the ladies hostel campus was also beautified.

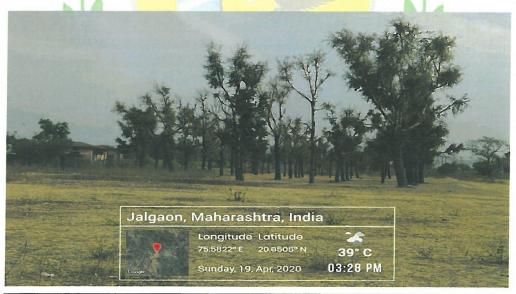
CO-OP SOC. LTD. SHENDURNI

College also took interest in the Mission of Govt. of Maharashtra of Plantation target; our college also gave contribution of squirrel in this regards. In all the way college aimed to enrich and beautifies the campus to create aesthetic value recreational and healthy atmosphere in the college campus which may better helpful in teaching and learning process.

Table: Rich flora of our college campus

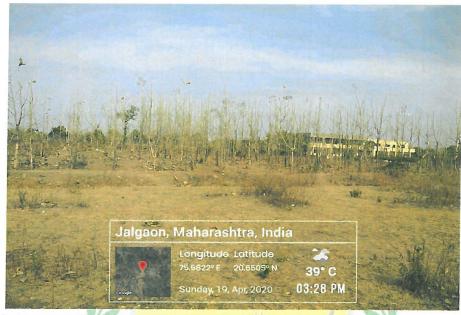
Sr.	Botanical name of plant / trees	Family	Local name of plant	No of plant / trees
1	Bougainvillea spectabilis L.	Nyctaginaceae	कागदी फूल	12
2	Cebra pentandra L.	Malvaceae	सफेद रेशमी कापुस	7
3	Alstonia scholaris L.	Apocyanaceae	सप्तपर्णी	6
4	Ficus benjamina L.	Moraceae	नांदरूक	8
5	Delonix regia L.	Caesalpinaceae	गुलमोहर	19
6	Ficus benghalensis, L.	Moraceae	as Ollego	21
7	Aegle marmelos L.	Rutaceae	बेल	3
8	Dalbergia sissoo L.	<u>Fabaceae</u>	सिसम	143
9	Mangifera indica - L.	Anacardiaceae	आंबा	4
10	Azadirachta indica L.	Meliaceae	नीम	39
11	Tamarindus indica L.	Fabaceae	चिंच	8
12	Tabernaemontana divaricata L.	Apocynaceae	चाँदनी	6
13	Ficus religiosa L.	Moraceae	पिंपळ	6
14	Terminalia arjuna L.	Combretaceae.	अर्जुन सतोड़ा	1
15	Syzygium cumini L.	myrtaceae	जांभूळ	7
16	Tectona grandis L.	verbenaceae	साग	526
17	Sesbania bispinosa L.	Fabaceae	शेवरी	1

4.0	T-2-1		T	OST-JALGACH
18	Hyophorbe lagenicaulis L.	Arecaceae	बोटल पाम	2
19	Citrus limon L.	Rutaceae	लिम्ब्	2
20	Moringa oleifera L.	Moringaceae	शेवगा	1
21	Thuja occidentalis L.	Cupressaceae	मोरपंखी	1
22	<u>Plumeria sp</u> L.	Apocynaceae	चाफा	1
23	Hardwickia binata L.	<u>Fabaceae</u>	अंजन	60
24	Butea monosperma L.	<u>Fabaceae</u>	पळस	153
25	Annona squamosa L.	Annonaceae	सीताफळ	2
26	Erythrina sp L.	<u>Fabaceae</u>	पंगार	1
27	polyalthia longifolia L.	Annonaceae	अशोका	12
28	Ficus racemosa L.	Moraceae A DV	उंबर	1
29	Ziziphus mauritiana L.	Rhamnaceae	बोर	7
30	Phyllanthus emblica L.	Phyllanthaceae	आवला	1
31	Vachellia nilotica L.	<u>Fabaceae</u>	बाभूळ	25
32	Bauhinia racemosa L.	<u>Fabaceae</u>	आपटा	5
33	Dalbergia retusa L.	Fabaceae	शिसव	2
34	Aloe L.	Asphodelaceae (Liliaceae)	कोरपड	04
35	Passiflora L	Passion flowers	कृष्णकमळ	01
	Total Plants:		3/4	1098

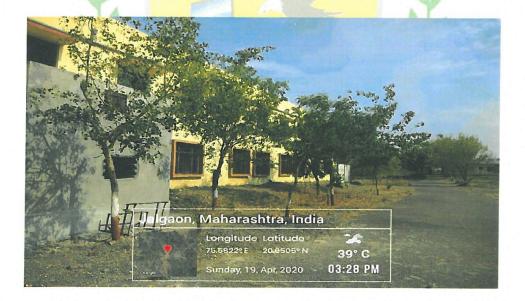


Hardwickia binata L.	Fabaceae	अंजन





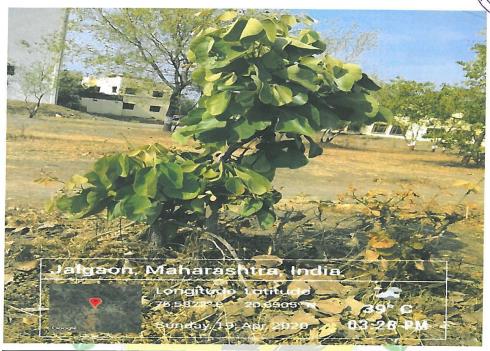
Tectona grandis L. verbenaceae साग



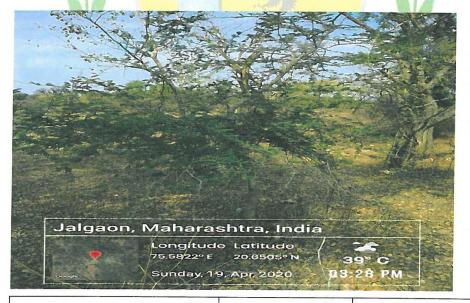
Dalbergia sissoo L.

<u>Fabaceae</u>

सिसम



Butea monosperma L. Fabaceae पळस

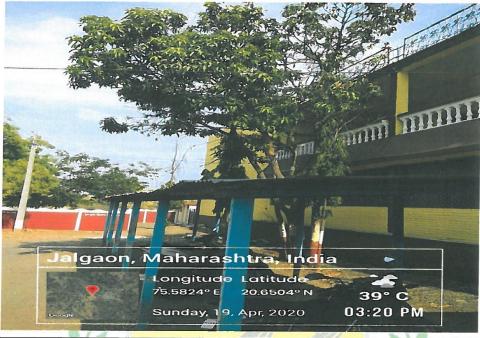


Vachellia nilotica L.

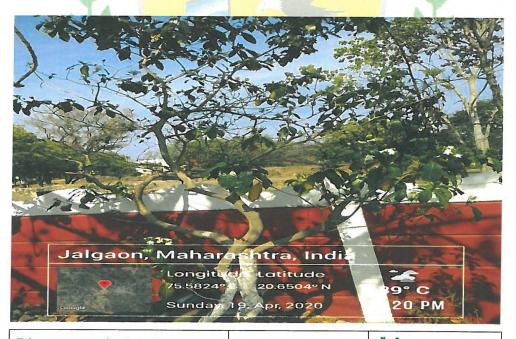
<u>Fabaceae</u>

बाभूळ





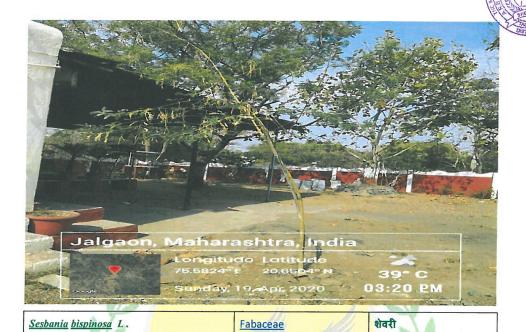
Mangifera indica - L. Anacardiaceae आंबा

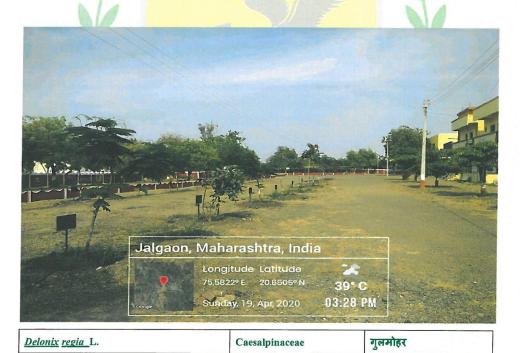


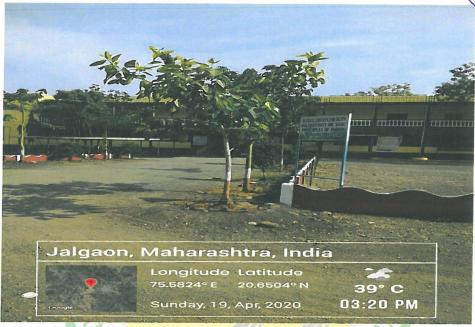
Tabernaemontana divaricata L.

Apocynaceae

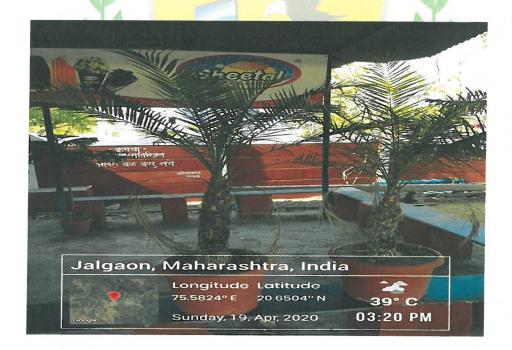
चाँदनी

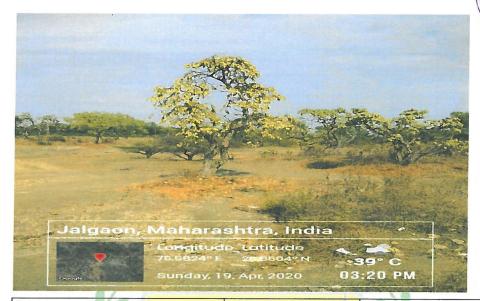






Ficus benghalensis.L. Moraceae वड

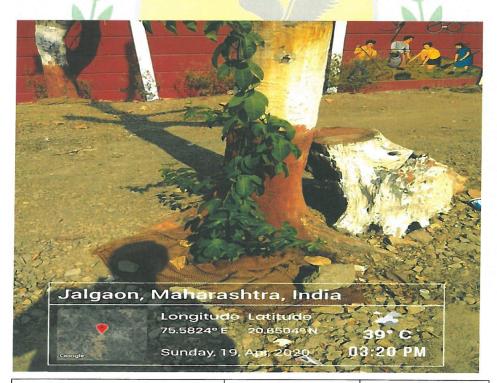




Butea monosperma L.

<u>Fabaceae</u>

पळस



Passiflora L

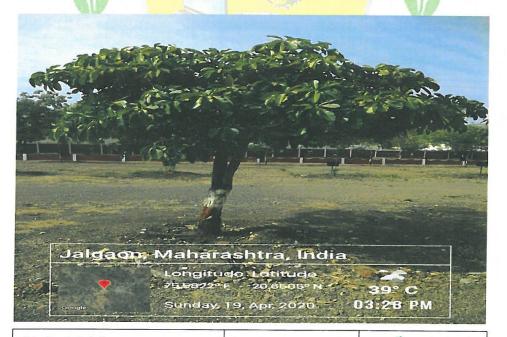
Passion flowers

कृष्णकमळ





<u>Svzvgium cumini</u> L. myrtaceae जांभूळ

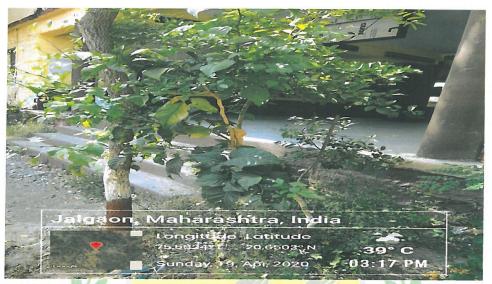


Alstonia scholaris L.

Apocyanaceae

सप्तपर्णी

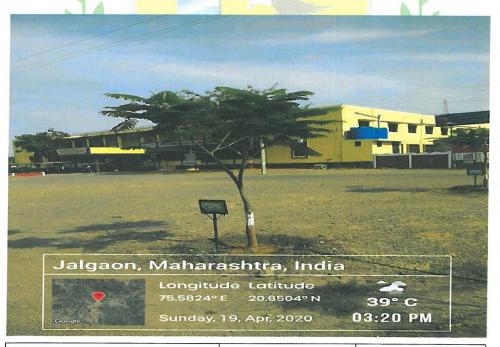




Aegle marmelos L.

Rutaceae

बेल

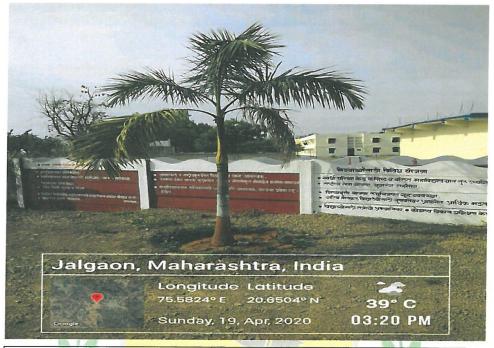


Delonix regia L.

Caesalpinaceae

गुलमोहर

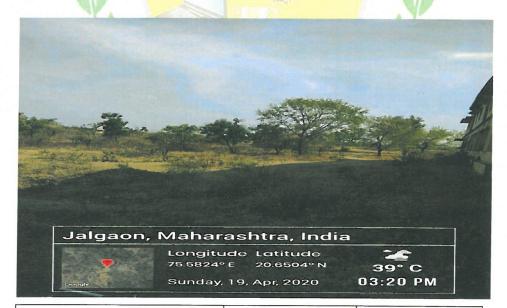




Hyophorbe lagenicaulis L.

Arecaceae

बोटल पाम



Vachellia nilotica L.

<u>Fabaceae</u>

बाभूळ

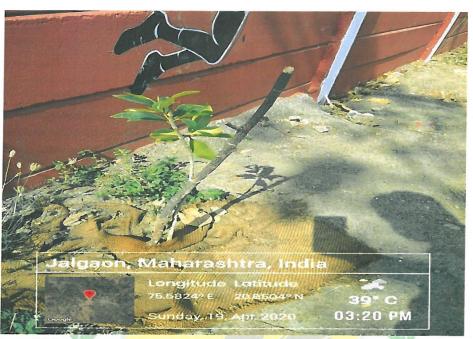




Ficus religiosa L. <u>Moraceae</u> पिंपळ



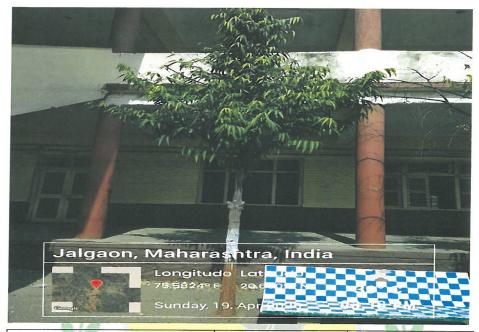
Cebra pentandra L. Malvaceae सफेद रेशमी कापूस



<u>Syzygium cumini</u> L. myrtaceae जांभूळ



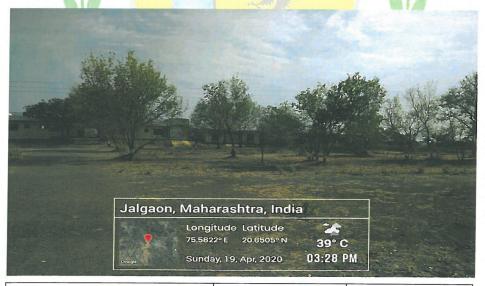
<u>Citrus limon</u> L. <u>Rutaceae</u> लिम्बू



polyalthia longifolia L.

<u>Annonaceae</u>

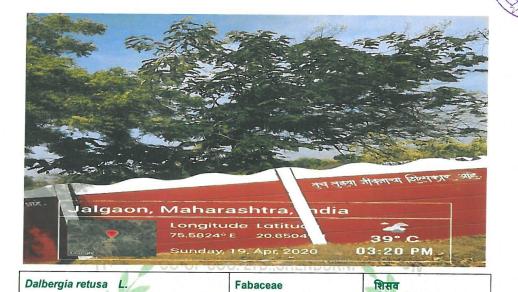
अशोका

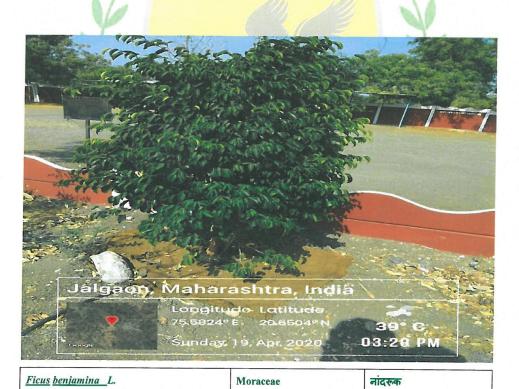


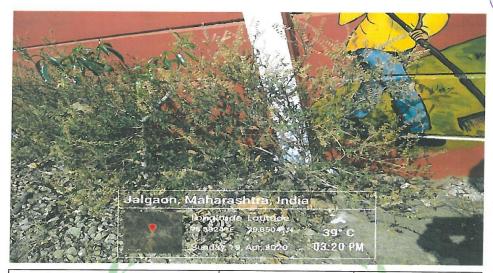
Dalbergia sissoo L.

<u>Fabaceae</u>

सिसम



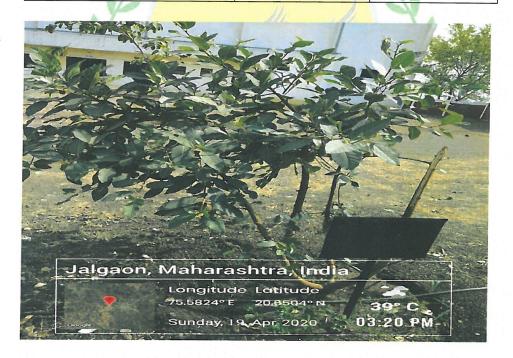




Basil _L._

Lamiaceae (mint family)

तळस



Ficus racemosa L.

Moraceae

उंबर

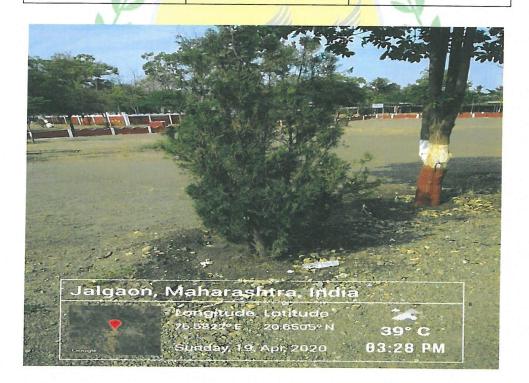


CO-OP SOC. LTD., SHENDURNI

Jasminum sambac L

Oleaceae

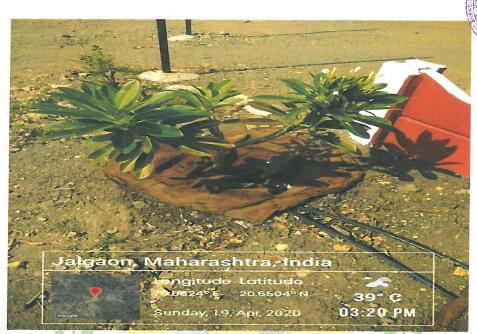
मोगरा



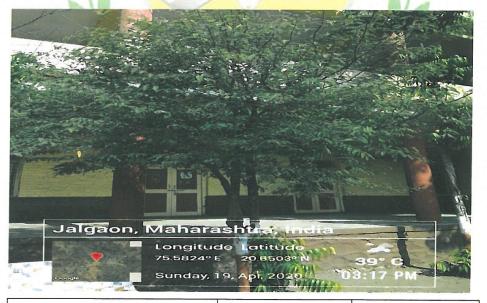
Thuja occidentalis L.

Cupressaceae

मोरपंखी



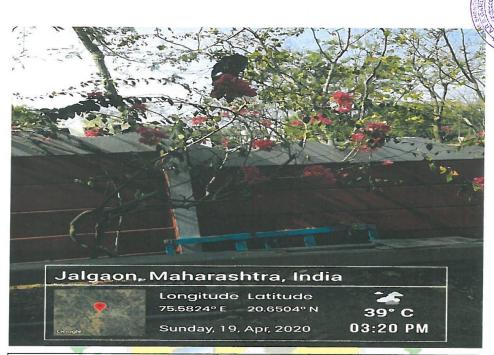
<u>Plumeria</u> L <u>Apocynaceae</u> <u>चाफा</u>



Tamarindus indica L.

Fabaceae

चिंच



Bougainvillea spectabilis L.

Nyctaginaceae

कागदी फूल

Recommendations

- Reviews periodically the list of trees planted in the garden, allot numbers to the trees and keep records. Give scientific names to the trees.
- ➤ Promote environmental awareness as a part of course work in various curricular areas, independent research projects and community service.
- Ensure that an audit is conducted annually and action is taken on the basis of audit report, recommendation and findings.
- Celebrate every year 5th June as 'Environmental Day' and plant trees on this day to make the campus greener.

5) No Vehicle Day

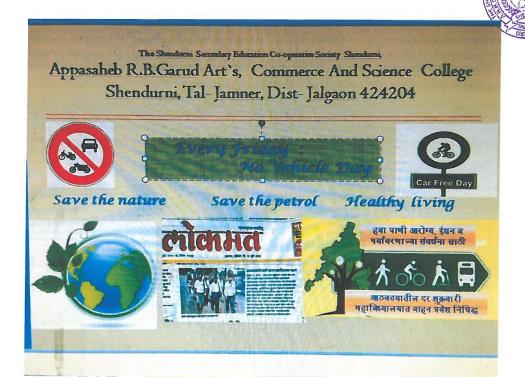
As far as Environment conservation as well as Green Audit is concern, the college, is following No Vehicle Day on Every Friday of the Week with few exceptions. Every staff and faculty member is coming to the college without vehicle and by walking for the purpose to save environment and fuel.















6) Tree Adoption Scheme

Shendurni is a drought prone zone and during year 2018-19, the water level of this area is going very low due to this problem every faculty member, staff and students adopting each and every tree to watering it and save it for that purpose everybody bringing 5 litters of water every day from their home and watering to the respective adopted tree.

लोकमत

शेंदुर्णीला जलदिन साजरा

लोकमत न्यूज नेटवर्क

रोंदुर्णी, ता. जामनेर: अप्पासाहेब रघुनाथराव भाऊराव गरुड कला वाणिज्य आणि विज्ञान महाविद्यालयात जलदिन साजरा करण्यात आला.

यावेळी विविध योजना व विकास कामांचा आढावा स्नेहदिप गरुड यांनी घेतला. प्रत्येक कर्मचाऱ्यांने एक-एक झाड दत्तक घेऊन प्रत्येक प्राध्यापक व कर्मचारी पाच लीटर पाणी महाविद्यालयात सोबत आणून झाडांना देतील अशी माहिती प्राचार्य डॉ. वासुदेव पाटील यांनी दिली. उपप्राचार्य प्रा. एन.एस.सावळे, उपप्राचार्य डॉ. संजय भोळे, उपप्राचार्य डॉ. एस.जे. साळुखे, डॉ. दिनेश पाटील, डॉ. दीपक जाघव, शिक्षक व शिक्षकेतर कर्मचारी उपस्थित होते.

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झाडांना मुलांप्रमाणे जगविण्याचा संकल्प

गरुड महाविद्यालयाचा अभिनव उपक्रम

योगेश सोनार : सकाळ वृतसेवा

शेंदणीं (ता. जामनेर), ता. २३ । सूर्य आग ओकत असल्याने उन्हाचा फटका पश्पक्षावरोबरच झाडांनाहो बसत आहे. महाविद्यालयातहो पाण्याचा त्रबडा भासत आहे त्यामळ प्रत्येक प्राध्यापक व कर्मचारी यांनी महाविद्यालय परिसरातील झाडांजवळ आपल्या पाल्यांच्या नावांचा फलक पाल्याप्रमाणे संगोपन करण्याचा संकल्प केला. तसेच प्राध्यापकांनाही घरून पाच लिटर पाणी आणण्याची सक्ती करण्यात आली आहे.

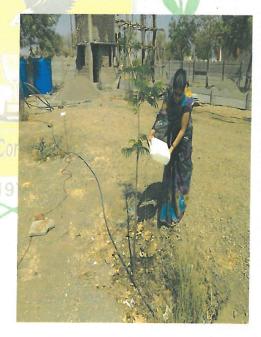
महाविद्यालयात झालेल्या कार्यकमात स्नेहदिप गरुड यांनी सांगितले, की प्रत्येकाने सामाजिक बांघीलकी जोपासायला हवी, वृक्षसंवर्धन प्रत्येकाची जबाबदारी आहे. कर्तव्य आहे. महाविद्यालयाचे प्राचार्य यांनी संकल्पना मांडली की, प्रत्येक प्राध्यापक

व कर्मचारा यांना घरून महाविद्यालयात येताना सोबत पाच लीटर पाण्याची कैत सोबत आणायची व झाडांना पाणी देतील: त्या झाहाची कायमस्वरूपी जबाबदारी घेतील. या उपक्रमाचे सर्वानी स्वागत करून जबाबदार) स्वीकारली. यासाठी विद्यार्थ्यांनी सहभागाता जबाबदारी स्वीकारली. उपप्राचायं प्रा. एन. एस. सावळे. उपप्राचार्थ डॉ. संजय भोळे. उपप्राचार्य डॉ. एस. जे. साळखे, डॉ. दिनेश पाटील, कर्मचारी उपक्रमाचा इतर शाळांनीही आदर्श घ्यावा. प्रत्येक विद्याध्यनि व शिक्षकांनी वृक्षारोपणासाठी पृद्धाकार घेतला तरी. भरपुर संवर्धन होईल. ज्या परिसरात शाळा, महाविद्यालयांमध्ये पाणी टंचाई असेल त्या ठिकाणी शिक्षक व विद्यार्थ्याला पाणी आणण्यास सांगितले व रोज वृक्षांना दिले तर झाडे जगतील. विद्यार्थ्यानाही वृक्ष संवर्धनाची जबाबदारी देऊन त्यात मार्काची तस्तुद करायला हवी.





















7) State level award(राज्यस्तरीय पर्यावरण रत्न पुरस्कार)



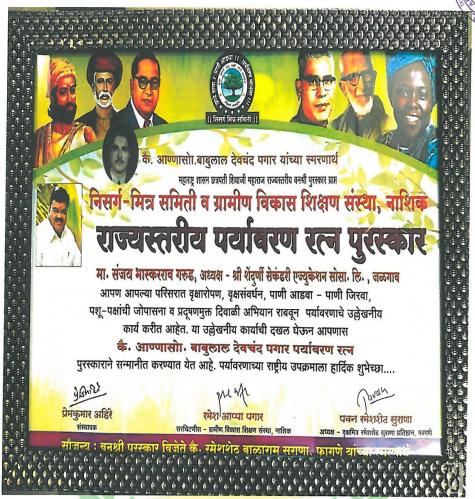
संजय गरुड यांना 'पर्यावरण रत्न' पुरस्कार

तभा वृत्तसेवा शेंबुर्णी, ३ जानेवारी

येथील सामाजिक राजकीय व शैक्षणिक आधारस्तंभ असलेले संजय गरुड हे संस्था पातळीवर आणि नगर पातळीवर वेळोवेळी वक्षारोपण पर्यावरण संरक्षण स्वच्छता इत्यादींसाठी विविध कार्यक्रमाचे आयोजन करत असतात तसेच त्यांनी संस्था परिसरामध्ये वृक्षारोपणावर विशेष भर दिल्यामुळे त्यांना यांच्या या सामाजिक कार्याचा आढावा घेत निसर्ग मित्र समिती धुळे व ग्रामीण विकास शिक्षण संस्था नाशिक आयोजित के. अण्णासाहेव वावूलाल देवचंद पगार स्मरणार्थ दिला जाणारा पुरस्कार त्यांना वहाल करण्यात आला.

पुरस्काराचे वितरण जिल्हा परिषद सभागृह जळगाव, याठिकाणी करण्यात आले. शाल, श्रीफळ, स्मृतिचिन्ह या स्वरूपात हा पुरस्कार प्रदान करण्यात आला. हा पुरस्कार संजय गरुड यांच्या अनुपस्थितीत त्यांचे बंधु प्रा. सुनील गरुड यांनी स्वीकारला.

तसेच याप्रसंगी आ. राजूमामा भोळे, अतुल भाऊ निकम, प्रेमकुमार अहिरे, रमेश आप्पा पगार, पवन रमेश शेठ सुराणा, परदेशी आदी उपस्थित होते



A.R.B. Garud Arts' Comm.& Science Collego



CONCLUSIONS

Considering the fact that the institution is predominantly an undergraduate and partial postgraduate college, there is significant environmental research both by faculty and students. The environmental awareness initiatives are substantial. The vermicomposting and horticulture practices are noteworthy. Besides environmental awareness programs initiated by the administration shows how the campus is going green. Few recommendations are added to curb the menace of waste management using ecofriendly and scientific techniques. This may lead to the prosperous future in context of Green Campus and thus sustainable environment and community development.

As part of green audit of campus we carried out the environmental monitoring of campus includes Illumination, noise level, ventilation and indoor air quality of the class room. It was observed that Illumination and ventilation is adequate considering natural light and air velocity present. Noise level in the campus well within the limit i.e. below 50 db at day time.

Environment Audit Committee

Name Of Member	Designation	Sign
Prin. Dr. Vasudev. R. Patil	Chairman	Upota
Dr. Nilesh D. Wagh	External Member	Milwell
Dr . Shyam J.Salunkhe	Member	EJ_ich
Dr. Prashant S.Deshmukh	Member	- Duf
Dr . Ajinath N.Jivrag	Member 971	

SENIOR SE

Appasahed R.B.Garud Art's Commerce & Science College Shendurni-424204, Tal. Jamner

PRINCIPAL
Appasaheb R.B.Garud Art's
Commerce & Science College,

Shendurni-424204 Tal-Jamne: Dist- Jalgaon (M.S.)

