



Shri. Dadapatil Rajale Shikshan Sanstha's
Dadapatil Rajale Arts, Science and Commerce College
Adinathnagar, Tal. Pathardi, Dist. Ahmednagar

Green Audit Report

(2019-20)



Prepared by

Green Audit Committee

Message



Hon'ble MLA Monikatai Rajiv Rajale

Dadapatil Rajale Arts, Science and Commerce College, has undertaken the green audit of its campus for the academic year 2019-20. Environment is the important issue in the current era which needs to be maintained properly at every institute which provide higher education. Higher Education Institutes play key role to enhance environmental awareness among the students. Such institutes must encourage and guide students regarding environment. The role of institutes does not end after proper awareness campaign but it should go further by implementing measures to maintain environment in the campus.

Green audit report of the college clearly demonstrates the effects made by the college administration to maintain the greenery in the campus. Their efforts include the tree plantation at the campus in every academic year, preservation of plants and implementation of solar system for the electricity.

Hon'ble MLA Monikatai Rajiv Rajale

Our inspiration



Sahakar Maharshi Late Shri DadapatilRajale (Bhau)
Founder of DadapatilRajaleShikshanSansthas, Adinathnagar.

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Introduction

The Green Audit is an assessment of business in terms of its impact on the environment. Environmental crisis occurs due to rapid Industrialization and Urbanization. To overcome this difficulty, Institute has adopted "The Green Campus" concept for sustainable development.

Shri Dadapatil Rajale Shikshan Sanstha's Dadapatil Rajale Arts Science and Commerce College is affiliated to Savitribai Phule Pune University and recognized by UGC under section 2(f) and 12(B). The College is run by Dadapatil Rajale Shikshan Sansatha, Adinathnagar . It was established by Hon. Late Dadapatil Rajale, founder of Shri.Vriddheshar sugar Factory. The College is located in rural area. The College has gone through the Assessment from NAAC in 2016 and obtained 'B' Grade. The College has initiated "The Green Campus program" for environmental protection and sustainability. The main aim of the "Green audit" is to follow the practice of the Institution for developing the Green campus and creating awareness of environment among students and society. It works on different factors including Tree plantation, Waste disposal management, Water conservation, Energy conservation etc.

Environment Policy of the College: -

Dadapatil Rajale Arts, Science and Commerce College, though situated in rural area, is aware about the Environment. The management, Staff and students participate in tree plantation activity every year.

It is our moral responsibility to preserve and enhance the natural beauty of our campus.

We have decided following environmental policy.

- 1) To promote an awareness of environmental issues within the college and to encourage the college staff, students regarding the environmental matter.
- 2) To minimize the pollution.
- 3) To increase the greenery.
- 4) To create awareness among students and staff about Water conservation.
- 5) To use Non-conventional energy.

- 6) Proper mechanism of waste disposal.
- 7) To promote an awareness of environmental issues within the college and to encourage the college staff, students regarding the environmental matter

Green Audit Committee

Members of the Green Audit Committee.

1. Dr. S. R. Bharate, Chairperson
2. Prof. G. B. Lawande, Member
3. Dr. R. P. Ghule Member
4. Prof. Gaikawd D. B., Member
5. Dr. A. R. Chourpagar, Member
6. Prof. C. N. Pansare Member

Sr. No	Particulars	Quantity
A	Physical Facilities	
1	Total campus area	9.68 hectares
2	Build up area	58,855.80 Sq. foot
3	Total No. of Class room	16
	Laboratories	12
	Seminar Hall	01
	Seminar Hall with ICT	01
	Classrooms with LCD facilities	10
	Classroom with Wi-Fi/ LAN	10
	Auditorium	01
4	Total Toilets, Latriens Urinals Toilet types- Western/ Indian	Total Toilets-37(Indian -28, Western- 09) Latrines- 35, Urinals- 46
5	Sweeper No.	01
6	Frequency Cleaning (College)	Class rooms are cleaning daily. Campus is cleaning fortnight
7	Campus cleaning and garden	The campus cleaning and garden (Late Dadapatil Rajale

	maintenance.	(Bhau)Smarak) maintenance was done by NSS volunteers and students of Earn and learn scheme whenever needed
8	Total water coolers with capacity	01
9	Storage water tank tap water	01
10	Overhead tank drinkable water- with cleaning frequency	Cleaning of the Drinking tank was done one time in a week
B	Electrical Bill yearly	36420.00
C	Electrical appliances	
	Fan	138
	Exhaust Fan	03
	Tube	152
	CFL	54
	Generator	01
	Bore weal	03
	Refrigerator	04
	Ac	04
	TV	02
	Desert cooler	00
	Compressor (outside ground floor lab)	00
	Water filter	03
	Water Cooler	00
	Open electrometer (Water pumps)	03
	Xerox	03
	Printers	22
	Servers	01
	All computers	38 +02 Laptop
	All instruments- Annual maintenance contract	Rs. 98000/-

D	Environmental subject books, Library book list Total + Environment)	Environmental subject books:- 162 Total Books:- 22294		
E	Solid waste	The solid waste like wood and branches generated from tree is sold to shop merchant or given to Vridheshwar Sahakari sakar karakana Ltd. Adinathnagar.		
	Paper	The Newspapers which are stored in the library are sold to shop merchant.		
	Exam papers	The Exam papers from the exam department are sold to paper merchant for paper pulping.		
	Plastics	The plastics collected and stored in the proper places are sold to merchant for further processing.		
	Liquid	Liquid waste is dumped in the soak pit.		
	Solid (Iron material)	The solid iron material is sold to scrap merchant.		
	Solid/ Liquid chemicals (Expired)	Solid / Liquid Chemicals (Expired) are properly Dumped in the soak pits.		
	E. Waste	E- waste produced by Computer and Physics department are stored in a particular place.		
	Bio medical waste	The Bio medical waste is not produced in the campus.		
	Canteen waste	Canteen waste is used for Vermicompost.		
F	Students and staff strength	Teaching	Non-teaching	Students
	Male students	33	24	730
	Female students	19	01	451
	Total students	52	25	1181
G	Various types of awareness programmes, celebration of different days			

- Yoga Day



- June 2019 the college staff performed the National Yoga days.

Tree plantation programme



30 June to 7 July 2019:- 'Van Mahostav' This programme was celebrated in presence of Hon. Monitai Rajale MLA of pathardi shevgaon. She inaugurated the ceremony and guided the staff. She appealed all to plant and conserve many trees to avoid the drought prone situation .On this occasion trustee of the college, Hon. Shri Subhash Tathe, Shri. Shrikant Misal, Shri. Carudatta wagh, Shri. Babasaheb kilbile along with Prin. Dr. R. J. Temkar and Prin. Yuraj Surwanshi of Annasaheb shinde Krushi vidyalaya were present. Near about 150 plants were planted in the college campus

- 5th September 2019:- The NSS unit of the college organized programme on "Teachers Day"

The Red ribbon club was established by NSS and Dadapatil Rajale College. For this programme The Dr. Sandip Kambale of sub district hospital was present as a chief guest. He guided the students regarding aims and



objectives of red ribbon and made awareness regarding AIDS.

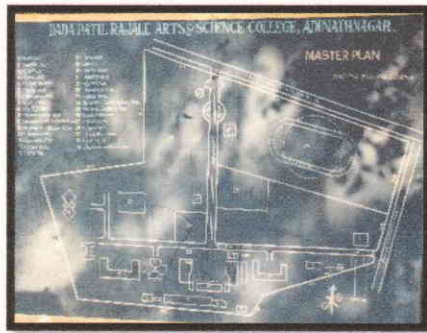
- **1Dec. to 7 Dec. 2019:-** During this period in a college, Programme regarding 'Janjagruti saphaha' was celebrated. Dr. Sadhana Mhaske Delivered lecture on awareness of AIDS. The Yuva spandhan group of college created questioner on AIDS.
- **20th Dec. 2019** N.S.S. Volunteers cleaned up the smahasan bhumi at Madhi.
- **21st December 2019:-** Dr. Sandip Kambale of sub district hospital of Pathardi delivered lecture on Aids and Diet. On this occasion Dr. Bhoite had done the HIV Test of NSS Volunteers.
- **22nd December 2019** N.S.S. volunteers prepared Vanrai Bandhara at Madhi.



- 12/01/2020:- The National Youth Festival was celebrated in the college. On this occasion online Session regarding AIDS was conducted for students
- 17th January 2020:- On the occasion of Makarsnkaranti Festival Tilgul programme was celebrated in presence of Hon. Pandurang Khedkar, Director of VSSK Adinathnagar. This program was chaired by Hon. Shivajirao Rajale.(Chairman, CDC)
- The NSS Day was celebrated in the college. The programme officer Prof. A.H. Desai guided the students regarding aims and objectives of NSS. The IQAC Co- Ordinator Prof R. T. Gholap delivered lecture on *Today's youth and NSS*.
- **19February 2019** Shivjainti was celebrated.
- Insurance for the safety of students:- The students insurance policy scheme of savitribai Phule pune university is available for students. Under this scheme Rs. 50,000/- was given as accident benefit by oriental insurance LTD Thane, Divisional office Thane

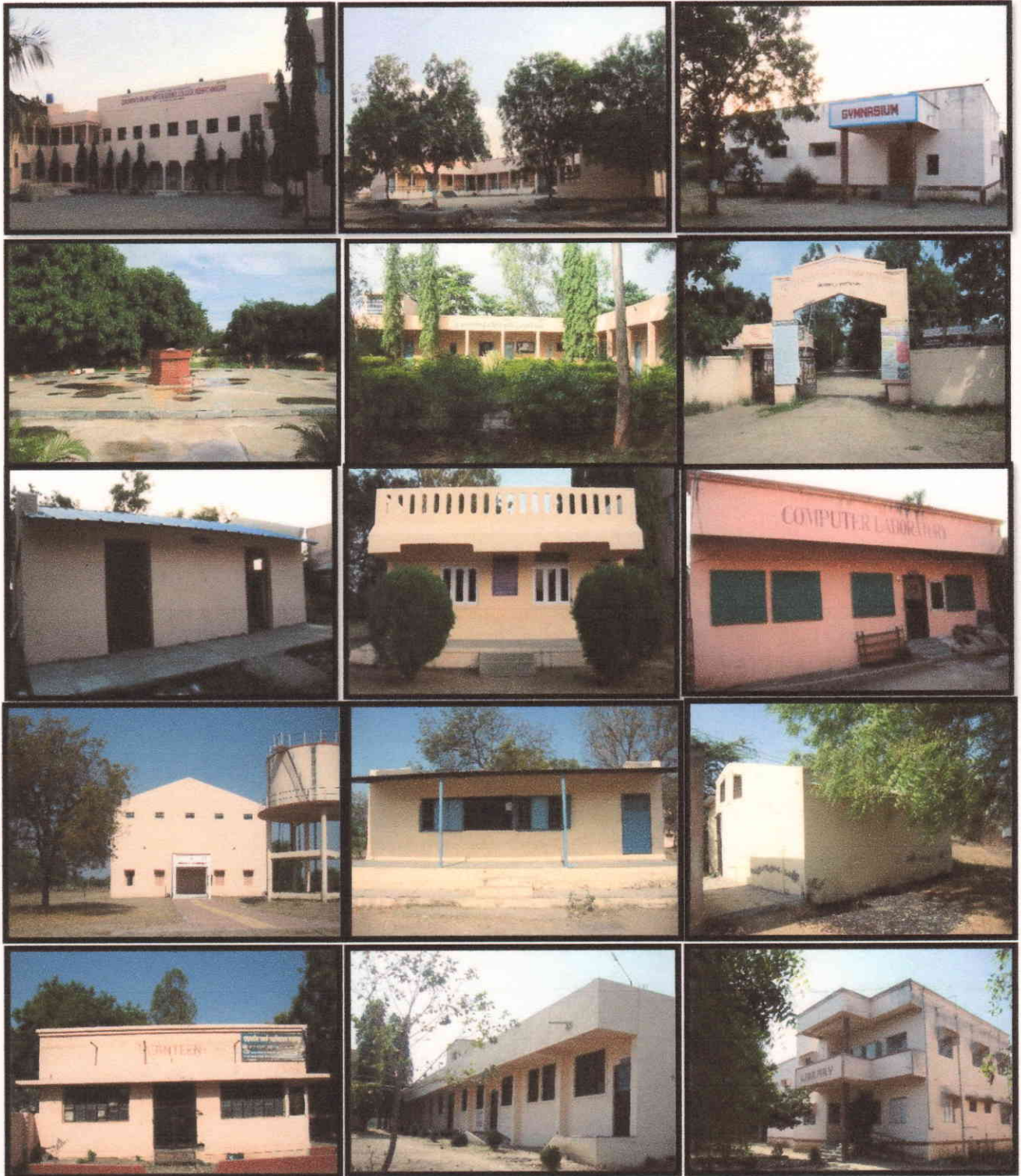
H	Environment, Campus development, Tree plantation, cleaning committee	Dr. S.R. Bharate: Chairman Prof. A.H.Desai. Prof. D. B. Gaikawd. Prof. V. B. Bansode Prof. A. G. Agase Mr. N. B. Aher.
I	Geographical description of the area	Pathardi Tahasil is located to the east of Amednagar district in Maharashtra. It covers the total area is 133725 hectares.. As per 2011 census population of pathardi tahsil is 258109. Population density is 193 persons per Sq. km. This region is covered under drought prone area according to Government of India. The region is surrounded by hills. The people of this region are mainly depend on Agriculture, Poultry, Dairy .
	Other land	The soil types of the Pathardi tehasil are broadly divided in to four categories namely Shallow soil, medium soil, medium black soil deep black soil reddish soil.
	Rain fall	The average rain fall is 579mm.
	Geographical location	It is extended up to 18 ⁰ 54 N to 19 ⁰ 13 N latitudes. And 74 ⁰ 54 E to 72 ⁰ 24 E longitude.
J	Letter to Annasaheb krushi	Letters regarding waste disposal are given to Annasaheb shinde krushi Vidyalya.
K	Environment policy	8) To promote an awareness of environmental issues within the college and to encourage the college staff, students regarding the environmental matter. 9) To minimize the pollution.

		<p>10) To increase the greenery.</p> <p>11) Water conservation.</p> <p>12) Non-conventional energy.</p> <p>13) Proper mechanism of waste disposal</p>
	Photographs of the campus	Separate sheet is attached
	Identification of plant species in the campus	Separate sheet is attached.
L	Drainage system college and lab	The liquid waste produced in the laboratories is dumped in soak pits.
M	Air quality monitoring	Our college is situated in rural area and the area is pollution free. So in our institution we don't purchase the Air quality monitoring device.
N	Water quality and quantity analysis	<ol style="list-style-type: none"> 1. The pH of water is measured by chemistry Department. 2. The college has 4000L. capacity drinking water tank. <p>The college has 3300000 Liter capacity Farm tank .</p>
O	Noise level monitoring	No vehicles are allowed in the campus, parking shed is located near college gate. Noise level is maintained as per permissible limit.
P	Institution map	<ol style="list-style-type: none"> 1. Labour quarter 2. Cattle shed 3. Agri Polytechnic 4. Cycle stand 5. Gents toilet



6. Drinking water tank
7. Management office & principal office
8. Building no. 1 & Administration office
9. Computer lab
10. Laboratory building
11. Store room
12. Girls toilet
13. Generator room
14. Library
15. Labour quarter
16. Cattle shed
17. Agri Polytechnic
18. Cycle stand
19. Gents toilet
20. Drinking water tank
21. Management office & principal office
22. Building no. 1 & Administration office
23. Computer lab
24. Laboratory building
25. Store room
26. Girls toilet
27. Generator room
28. Library

Photographs of the campus:



Greenery of the campus



Cleaning of the college campus:-



List of audited plant species:-

Sr.No	Vernacular Name	Botanical name	Family	Total
1	Ficus	<i>Ficus benjamina</i> L	Moraceae	55
2	Saptaparni	<i>Alstonia scholaris</i> (L) R.Br.	Apocynaceae	60
3	Sawar	<i>Bombax ceiba</i> L	Bombaceae	45
4	Arjun satada	<i>Terminalia arjuna</i> L	Combretaceae	04
5	Shisham	<i>Dalbergia sissoo</i> L	Fabaceae	145
6	Mango	<i>Mangifera indica</i> L.	Anacardiaceae	66
7	Sapota	<i>Achras sapota</i> L	Sapotaceae	14
8	Neem	<i>Azadirachta indica</i> L	Meliaceae	200
9	Sitaphal	<i>Ammona squamosa</i> L	Ammonaceae	85
10	Bambu	<i>Bambusa arundinaceae</i> L	Graminae	54
12	Nilgiri	<i>Eucalyptus globulus</i> .	Myrtaceae	47
13	Chandan	<i>Santalum album</i> L	Santalaceae	03
14	Naral	<i>Coccus nucifera</i> L	Palmae	04
15	Ashok	<i>Saraca indica</i> L	Ammonaceae	35
16	Areca Palm	<i>Dyopsis lutescens</i> L	Areaceae	50
17	Sag	<i>Tectona grandis</i> L	Verbenaceae	70
18	Badam	<i>Anacardium occidentale</i> L	Anacardiaceae	04
19	Chinch	<i>Tamarindus indica</i> L	Fabaceae	15
20	Bor	<i>Zizipus jujuba</i> L	Rhamnaceae	04
21	Umbar	<i>Ficus glomerata</i> L	Moraceae	02
22	Peru	<i>Psidium guajava</i> L	Myrtaceae	20
23	Mosumbi	<i>Citrus limetta</i> L	Citraceae	11
24	Limbu	<i>Citrus limon</i> (L.) Osbeck.	Citraceae	11
25	Dalimb	<i>Punica granatum</i> L	Lythraceae	07
26	Zamia	Zamia		01
27	Rain tree	<i>Albizia saman</i> L	Fabaceae	85
28	Gulmohar	<i>Gmelina arborea</i> L	Verbenaceae	35
29	Karanj	<i>Pongamia glabra</i> L	Fabaceae	28
30	Kasvad	<i>Casia siamia</i> L	Caesalpinaceae	33
31	Pimpal	<i>Ficus glomerata</i> L	Moraceae	20

32	Avla	<i>Phyllanthus emblica</i> L	Phyllanthaceae	05
33	Parijatak	<i>Nyctanthus arbor-tntis</i> L	Oleaceae	15
34	Cheri	<i>Prunus avium</i> L	Rosaceae	07
35	Mahogani	<i>Swietenia mahagoni</i>	Meliaceae	08
36	Cycas	<i>Cycas circinalis</i> L.	Cycadaceae	08
37	Kanher	<i>Nerium indicum</i> L	Apocynaceae	06
38	Morpanki	<i>Thuja orientalis</i> L	Cupressaceae	67
39	Tagar	<i>Tabermontanadivaricata</i> L	Apocynaceae	06
40	vad	<i>Ficus bengalensis</i> L	Moraceae	02
41	Shivan	<i>Gmelina arborea</i> L	Lamiaceae	65
42	Shankasur	<i>Caesalpinia pucherima</i> L	Caesalpinaceae	15
43	Vavla	<i>Hiptelea inegrifolia</i> L	Ulmaceae	10
44	Raktachandan	<i>Pterocarpus santalinus</i> L	Fabaceae	02
45	Bhokar	<i>Cordia dichotoma</i> L	Boraginaceae	02
46	Jambul	<i>Cyzygium cumini</i> L	Myrtaceae	07
47	Shevga	<i>Moringa oleifera</i> L-	Moringaceae	09
48	Santra	<i>Citrus reticulate</i> Blanco	Rutaceae	09
49	Neeli gulmohar	<i>Jacranda mimosifolia</i>	Bignoniaceae	01
50	Christmas tree	<i>Araucaria Christmas</i>	Araucariaceae	02
51	African tulip tree	<i>Spathodea compamulata</i>	Bignoniaceae	01
52	Australian Babul	<i>Acacia auriculiformis</i> Benth	Fabaceae	01
53	Babul	<i>Acacia nilotica</i> L	Mimosae	04
54	Shrish	<i>Albizia lebbeck</i> (L) . Benth	Fabaceae	03
55	Erand	<i>Ricinus Communis</i> L	Euphorbiaceae	02
56	Sonmohar	<i>Peltophorum pterocarpum</i> (DC.) Backer ex K. Heyne	Caesalpiniceae	04
57	Kanchan	<i>Hardwickia bipinnata</i>		50+
		Total		1524

Methodology:-To conduct the green audit of the campus personal observations of the campus, data analysis, recommendations are needed. Followings are the areas for green audit.

- a. Management of Green campus.
- b. Waste disposal management.
- c. E-Waste management.
- d. Energy conservation.

a) Management of green campus.

Green auditing is also known as “Environmental Auditing”. There is a provision of auditing campus in the college. Under the guidance of IQAC the Waste disposal management and Light and Energy committee has been formed for developing and auditing the green campus. For the Committee each member is selected from Dept. of Botany, Geography, Zoology, Chemistry and Computer Science,. There are about 1524plants in the college campus.

To create awareness about environment college performed following activities.

Dadapatil Rajale Arts, Science and Commerce college organizes this activity every year in the month of July. As we know that the world is facing the problems of Global warming due to the increase in pollution. To recover such problems and create awareness about Environment, the Campus Development Committee performed tree plantation activity during academic year 2019-20 between 30 June 2019 and 7th July 2019. This activity was performed by the students under Earn and Learn scheme and NSS volunteers.

The event was begun by warm welcome of guest, Hon. MLA Monikatai Rajale (Shegaon –Pathardi), Shri. Subhash Tathe, Shri. Shrikant Misal, Shri. Charudatta Wagh and Babasaheb Kilbile, trustee of the College, Hon. Secretary J. R. Pawar. , Hon Principal Dr. Surwanshi Yuraj and Prin. Dr. R. J. Temkar. Shri R. Y. Mhaske . All the staff and students were present for this function. At the function Hon. MLA Monikatai Rajale ,Prin. Dr. R. J. Temkar , Shri Ramdas Mhaske, and Hon. Shri. J. R. Pawar delivered their valuable speech in front of Earn and Learn and NSS volunteers.

After that all the guests along with the principal moved towards tree plantation activity. The very first tree plantation activity was done by Hon. MLA Monikatai Rajale. Total 15 plants were planted by the Guest. Then remaining 135 plantation was done by the students.

Tree plantation 2019-20 Photo and News:



b) Waste disposal management:-

From various sources following type of waste is created.

- Solid waste
- Biodegradable waste.
- Chemical waste
- Plastic waste.

Observations:- The solid waste produced from tree is sold to shop merchant. The Department of Botany and Zoology produce biodegradable waste during practical work which is used for raw material for vermicomposting. The chemical waste produced by Chemistry Department is disposed by releasing it in the soak peat in a protected zone. Fuming chambers are installed in the laboratories to exhaust the harmful gases. To avoid the misuse of apparatus and chemicals instructions are displayed in Laboratories. Liquid waste is dumped in a soil pits near laboratories. The paper waste produced from Office is sending for paper pulping. One side waste paper is utilized for rough work. Newspaper after reading are collected properly stored in Library and then sold to shop merchant. In campus plastic wastes are produced in small amount are sold to shop merchant along with scrap.



Recommendations:-

1. Whenever required empty bottles in a Laboratory should be reused.
2. Office staffs are suggested to minimize the paper waste as the papers are produced from plant product. This activity is useful to save the forest.
3. Do not throw the important papers in a dust bins, which are send for paper pulping.
4. Place separate Dust bins for Biodegradable waste and non-biodegradable waste separately in a campus. After filling dustbins are empty on proper place.

c)E-Waste:-

E- Waste is hazardous and very dangerous waste to Environment and human health. This waste is produced by computer Department.

Observations: -

As comparison to other waste E-Waste is generated in small amount. In our college these wastes is properly stored scrap room. After decision of management it is sold to E-Waste merchant for recycling

Recommendation.

- 1) Maintain the record of E-Waste.
- 2) Store the E- Waste in separate room and give the name as E- Waste room.
- 3) E- Waste are sold to Scrap merchant.

d)Energy Conservation: - Roof top solar system has been activated in the college campus. The electric need of the college is being fulfilled by the system. College is not depending on MSEB.



Roof top solar system

Recommendation.

- 1) Prepare monthly report for Energy conservation by electricity committee.
- 2) Whenever required replace tubes and bulbs by LED bulb and tubes.


We are sincerely thankful to college authority to allow this project and to enter the new era of Green Audit in the College Campus. Further we extend our sincere thanks to the college staff for providing us necessary facilities and co-operation during the audit. This helped us in making the audit, a grand success.



Dr. S.R Bharate

Chairperson, Green audit Committee,
Dadapatil Rajale Arts, Science & commerce College,

Adinathnagar



PRINCIPAL
Dada Patil Rajale College
Adinathnagar, Tal.Pathardi