

ENVIRONMENT AND GREEN AUDIT REPORT (YEAR 2020-2021) OF

JIJAMATA COLLEGE OF SCIENCE AND ARTS,
DNYANESHWARNAGAR, BHENDE BK.

TAL; NEWASA, DIST; AHMEDNAGAR



PREPARED BY

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CERTIFICATE



GREEN & ENVIRONMENT AUDIT

This is to certify that Jijamata College of Science and Arts,

Dnyneshwarnagar, Bhende (BK), Tal-Newasa, Dist -Ahmednagar

has successfully undergone Green & Environment Audit for year

2020-21

Date: 26th January 2021

Dr. Adhikrao Yewale

Universe Environment Consultancy, Pune

ACKNOWLEDGEMENT

Environment & Green Audit Assessment Team thanks to the Shri Anil Shewale, Secretory, Shir Marutirao Ghule Education society & Principal Dr. Saswade Ramkisan Raghunath for assigning this important work of Environment & Green Audit. We appreciate the cooperation extended to our team during the entire process.

Our special thanks to Green Audit Committee on behalf of Jijamata college.

Sr No	Name of the auditor	Area of Expertise	Designation
1	Dr. Saswade Ramkisan Raghunath	Botany	Principal
2	Dr Navgire Madhukar Eknath	Nodal Officer	Coordinator/ IQAC
3	Dr Lande Kakasaheb Abasaheb	Geography / Environment	Member
4	Prof. Naik Dhirsing wahrya	Energy Audit	Member
5	Prof. Ghare Pravin Devram	Water Harvesting /Solid and Liquid waste	Member
6	Dr. Gedam Ajit Kashinath	Vermicomposting project	Member
7	Prof Nawale Rohan Vijaykumar	Botany	Member
8	Shri. Gaikwad Dattatraya Bhausaheb	Administration	Member

We are also thankful to Department Heads and other staff members who were actively involved while collecting the data and supported us during field measurements.

Mr. Adhikrao Yewale

Universe Environment Consultancy, Pune

CONTENTS

1. INTRODUCTION	2
1.1 GREEN & ENVIRONMENT AUDIT	2
1.2 OBJECTIVES OF ENVIRONMENT& GREEN AUDIT	3
1.2.1 TARGET AREAS FOR ENVIORNMENT AND GREEN AUDIT	4
1.2.2 METHODOLOGY	4
1.3 ABOUT THE COLLEGE	5
1.2 LOCATION OF THE COLLEGE	10
1.4 COLLEGE INFRASTRUCTURE AND FACILITIES	13
1.5 REWARDS AND CERTIFICATE	
2.0 ANALYSIS	
2.1 GREEN AREA/ PLANTATION	
2.1.1 FLORA DIVERSITY	19
2.1.2 FAUNAL DIVERSITY	24
2.1.3 BOTANICAL GARDEN	26
2.2.4 RECOMMENDATIONS	32
2.2 WATER & WASTE WATER MANAGEMENT	34
2.2.1 WATER REQUIREMENT	34
2.2.2 WASTE WATER GENERATION & TREATMENT	35
2.2.3 WATER CONSERVATION	36
2.3.4 RECOMMENDATION	38
2.3 SOLID WASTE MANAGEMENT	39
2.3.1 WASTE GENERATION IN COLLEGE CAMPUS	39
2.3.2 OBSERVATIONS	39
2.3.3 RECOMMENDATIONS	40
2.4 E –WASTE	42
2.6.1 OBSERVATIONS;	42
2.6.2 RECOMMENDATIONS:	42
2.5 ENVIRONMENT MONITORING	43

	2.5.1 AMBIENT AIR QUALITY	. 43
	2.5.2 WATER QUALITY	. 44
	2.5.3 NOISE LEVEL	. 45
	2.5.4 Soil Quality Report:	. 45
3.0	CONCLUSION	. 47

1. INTRODUCTION

1.1 GREEN & ENVIRONMENT AUDIT

Green Audit is a process of systematic identification, quantification, recording, reporting and analysis of components of environmental diversity of college. This 'Green Audit' aims to analyze environmental practices within and outside the college campus, which will have an impact on the environment.

Green Audit or Environment Audit focuses on the Green Campus, Waste Management, Water Management, Air Pollution & Energy Management etc. being implemented by the College Management.

The ICC defines Environmental Auditing as

"A management tool comprising a systematic, documented, periodic and objective evaluation of how well environmental organization, management and equipment are performing with the aim of safeguarding the environment and natural resources in its operations/projects."

Green audit is a valuable means for a college to determine how and where they are using the most energy or water or other resources; the college can then consider how to implement changes and make savings. It can create health consciousness and promote environmental awareness, values and ethics. It provides staff and students better understanding of Green impact on campus. If self-enquiry is a natural and necessary outgrowth of a quality education, it could also be stated that institutional self-enquiry is a natural and necessary outgrowth of a quality educational institution. Thus it is imperative that the college evaluate its own contributions toward a sustainable future. As environmental sustainability is becoming an increasingly important issue for the nation, the role of higher educational institutions in relation to environmental sustainability is more prevalent.

Green audit is assigned to the criteria 7 of NAAC, National Assessment and Accreditation Council which is a self-governing organization of India which declares the institutions as Grade A, B or C according to the scores assigned during the accreditation.

As a mandatory requirement of NACC, Green audit was planned for the academic year 2020-21 by management of college.

Management decided to conduct green audit yearly through internal as well as external audit team. As decided by management, Environment and green audit was carried out in month of December 2021 for the academic year 202-21.

Table No 1. Audit Team

Sr No	Name of the auditor	Area of Expertise	Designation			
On b	On behalf of Jijamata College					
1	Dr. Saswade Ramkisan Raghunath	Botany	Principal			
2	Dr Navgire Madhukar Eknath	Nodal Officer	Coordinator/ IQAC			
3	Dr Lande Kakasaheb Abasaheb	Geography / Environment	Member			
4	Prof. Naik Dhirsing wahrya	Energy Audit	Member			
5	Prof. Ghare Pravin Devram	Water Harvesting /Solid and Liquid waste	Member			
6	Dr. Gedam Ajit Kashinath	Vermicomposting project	Member			
7	Prof Nawale Rohan Vijaykumar	Botany	Member			
8	Shri. Gaikwad Dattatraya Bhausaheb	Administration	Member			
On b	ehalf of Universe Environment Co	nsultancy				
1	Dr. Adhikrao Yewale	Air Quality, Water quality and Ecology	Member			
2	Shri Rahul Patil	Water quality & Soil quality	Member			
3	Rupali Mohite	Water Management	Member			
4	Shir Yogesh Raskar	Social	Member			
5	Shri Dayand Jagdale	Energy	Member			

1.2 OBJECTIVES OF ENVIRONMENT& GREEN AUDIT

The main objective of the Environment/Green audit is to promote the management and conservation of Environment 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:

- To document the floral and faunal diversity of the college
- To Document the water and waste management of the college
- To document the waste disposal system

- To estimate the Energy requirements of the college.
- To document the environmental condition of air, water, soil and noise of the college
- To introduce and aware students to real concerns of environment and its sustainability

1.2.1 TARGET AREAS FOR ENVIORNMENT AND GREEN AUDIT

- Biodiversity Conservation: Green area, plantation, Florala diversity, faunal diversity local, endemic species, medicinal plants etc aspect was considered
- Water and Waste Water: Water requirement for various activities, source of water, water quality, waste water generation, treatment, recycle and reuse of treated waste water etc.
- **Solid Waste**; Biodegradable waste and non-Biodegradable waste generation, and its disposal.
- Energy: Source, Consumption, conservation and alternative energy sources
- **Environment Monitoring:** Ambient Air quality, Noise level, Water quality and Soil quality.

1.2.2 METHODOLOGY

In order to conduct the green audit, the methodology included different tools such as

- Preparation of questionnaire,
- Preparation of data collection formats
- Collection of data
- Physical checking of the campus,
- Observation and review of the documentation,
- Interview of 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:

- Green area management
- Water management
- Energy Conservation
- Waste management
- E-waste management

1.3 ABOUT THE COLLEGE

Jijamata college of Science and Arts Dnyneshwarnagar Bhende (BK), Tal-Newasa in Ahmednagar District Maharashtra state. This college is affiliated with Savitribai Phule University Pune. This college is established in June 1992 by Shri.Marutrao Ghule Patil Shikshan Santha' Dnyneshwarnagar Bhende (BK, premier educational institution founded By Hon. Late Shri.Marutrao Ghule Patil veteran social activist which has been imparting higher education KG to PG level in Science & Arts faculty.

Jijamata college of Science and Arts Dnyneshwarnagar Bhende (BK), campus consists of main buildings with ground, first and second floor. The administrative office, Library, Indoor stadium, various HOD cabins, staff rooms, classrooms, various laboratory like Physics, Chemistry, Botany, Zoology, Computer Sciences, etc. are the part of college campus. The college are functioning with basic motto to impart quality, employment, entrepreneur and higher education to mostly rural as well as marginal urban student. Besides this there are one boy's hostel and two ladies hostel buildings for facilitating student accommodation to many rural boys & girl students. Similarly in campus two building are available for residential purpose for teaching as well as non-teaching staff. This college also provides gymkhana facility indoor stadium to student undergoing through various type of physical education. There is also well-furnished library where student studying in various branches have facility to refer books. The college developed botanical garden & green campus.

Total campus Area is 31.65 acre. College is affiliated to Pune University, Pune

College is accredited with NAAC With B' Grade (CGPA 2.72) grade in year 2018by NAAC.

Table No. 2. Details of the College

Sr		
no	Particulars	Information
1	Name of college	Shri Marutrao Ghule Patil Shikshan Sanstha's
		Jijamata College of Science and Arts Bhende
		Tal Newasa Dist Ahmednagar.
2	Address	Dnyneshwarnagar Bhende (BK), Tal-Newasa in
		Ahmednagar District Maharashtra state.
3	Latitude and Longitude	latitudes – 19°27'14.59"N and longitude – 75°
		1'25.75"E
4	Area in acre	31.65
5	Faculty	Arts, Science, Commerce

	(Arts/commerce/science)	
6	Number Student year (2020-	1375
	21)	
	Boys	801
	Girls	574
7	Principle of College	Dr. Saswade Ramkisan Raghunath
8	Administrative officer	Shri.Ghodechor Bandu Ramchandra
9	Contact Number	02427-255304
10	Email	Principal.jijamatacollege@gmail.com
12	Fax	02427-255309
13	Website	http://jijamatacollege.ac.in

Table No 3 .Board of directors:

Sr.No.	Name	Designation
1	Dr. Narendra Marutrao Ghule Patil (Ex.M.La)	President
2	Shri Chandrashekhar Marutrao Ghule Patil (Exmla)	Vice President
3	Shri. Pandurang Gamaji Abhang (Ex.M.L.A.)	Trustee
4	Adv. Desai Bhausaheb Deshmukh	Trustee
5	Shri. Kakasaheb Narayanrao Narwade	Trustee
6	Shri. Vitthalrao Vakilrao Langhe	Trustee
7	Dr. Narayan Karbhari Mhaske	Trustee
8	Shri. Panditrao Rambhau Bhosale	Trustee
9	Shri. Babanrao Murlidhar Bhusari	Trustee
10	Shri. Kakasaheb Abasaheb Shinde	Trustee
11	Shri. Janardhan Rambhau Kadam	Trustee
12	Shri. Gorakshnath Dagdu Gandal	Trustee
13	Shri. Bhausaheb Sonyabapu Kangune	Trustee
14	Shri. Shivaji Rajdhar Kolte	Trustee

15	Shri. Machindra Suryabhan Mhaske	Trustee
16	Shri. Sakharam Digambar Lavhate	Trustee
17	Shri. Dipak Tulshiram Nannavare	Trustee
18	Sau. Shankarrao Laxman Pavse	Trustee
19	Sau. Latabai Ashok Misal	Trustee
20	Sau. Ratnamalatai Kashinath Navle Trustee	Trustee
21	Sau. Tarabai Hanuman Jagdale	Trustee
22	Dr. Kshitij Narendraji Ghule Patil	Trustee
23	Shri. Anil Pandit Shewale	Secretary

Table No 4: College offers the following programmes of graduation in Arts and Science faculty.

Sr No	Courses	Started from Year		
Α	Arts			
1	Marathi			
2	Hindi			
3	English	1994		
4	Geography			
5	Political Science			
6	Economic s			
7	Physiology			
В	Science			
1	Physics			
2	Chemistry	1992		
3	Botany			
4	Zoology			
5	Computer Science			

6	Statistics	
С	BSc Computer Science	2012-2013
D	B.Com	2013-2014
E	MSc Chemistry	2010-2011
F	MSc Botany	2016-2017
G	MA MARATHI	2009-2010
Н	MA ECONOMICS	2010-2011

The college is a reputed educational institution, which has been known for producing outstanding students who take on different careers, as per their academic merit successfully in the society.

The college has rich tradition of co-curricular and extra-curricular activities such as NSS, NCC, Sports and Cultural Activities, which play an important role in the overall personality development of the students.

The students are also reciprocating by their high achievements in academic performance. A large number of students are getting excellent placements in different parts of the country & abroad also.

Table No 5: Details of the Teaching and non-teaching staff

Sr No	Position	Male	Female	Total		
A Teach	A Teaching					
1	Principal	01	0	01		
2	Professor	03	0	03		
3	Associate Professor	07	0	07		
4	Assistant Professor	20	01	21		
	Total			32		
1	Non Grant	17	10	27		
1	СНВ	06	02	8		

3	Ad-hoc	02	02	04		
B. Non-1	B. Non-Teaching					
1	Grant	09	0	09		
2	Non Grant	15	02	17		
	Total			26		

Table No 6 : Number students last five years

Years	Courses							Total	
	B. A	B. Sc	BSc Comp Sci.	B. Com	MA Marathi	MA ECONOMICS	MSC CHEMISTY	MSC Botany	
2020-21	381	502	142	275	20	11	89	44	1464
2019-20	448	517	91	258	27	27	62	46	1476
2018-19	348	584	81	232	36	29	48	44	1402
2017-18	391	617	87	213	17	37	8	48	1418
2016-17	345	563	83	172	17	44	38	23	1285
2015-16	384	557	79	117	23	54	38	0	1252

Table No. 7: Hostel strength :2 Buildings

	Boys		Girls		
Sr. No	Intake Capacity	Student 20-21	Sr. No	Intake Capacity	Student 20-21
1	100	50	1	120	60

Table No 8: Staff Quarters 02 Building

Building No 01			Gross Total	
Sr. No	Total Rooms	Sr. No	Total Rooms	
1	08	1	08	16

1.2 LOCATION OF THE COLLEGE

The college located at Bhende village, in Newasa Tehsil of Ahmednagar District. The college is located in the rural area. It is geographically located at latitudes - 19°27'14.59"N and longitude - 75° 1'25.75"E.

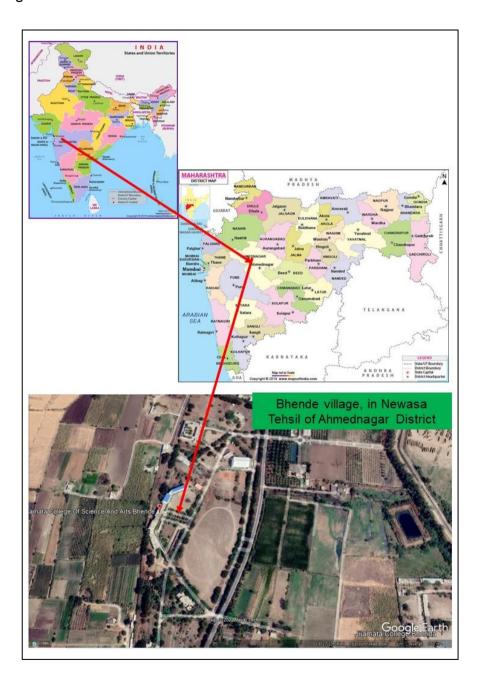


Figure No. 1 : College Location Map: Source Google Earth



Figure No. 2 : Google Image

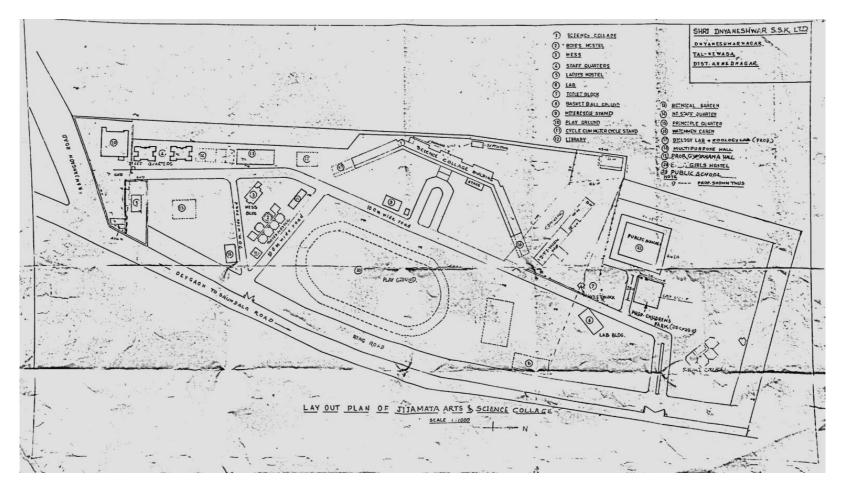


Figure No. 3 : Project Layout

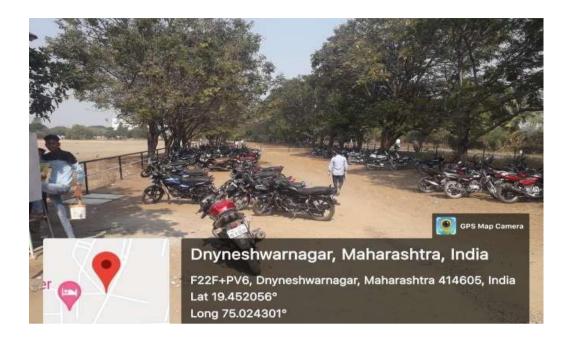
1.4 COLLEGE INFRASTRUCTURE AND FACILITIES



Indoor Stadium



Playground with 400 meter running track



Parking to students



College Building



Staff Quatres and Hostels

1.5 REWARDS AND CERTIFICATE

- Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the year 2020-21
- Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., (including the programs such as Swachh Bharat, AIDS awareness, Gender issues etc. and/or those organized in collaboration with industry, community and NGOs) during the year and Number of students participating in extensionactivities during year
- Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens
- Institution celebrates / organizes national and international commemorative days, events and festivals

The College takes pride in commemorating the national and international days that mark the important aspect of historical events to instil a sense of patriotism and to promote nationalism among the staff and students' community. Important cultural festivals which introduce the rich cultural heritage of our ancient traditions are celebrated with pomp quietly. During this academic year 2020-21 the following days were celebrated.

- International yoga day (21st June)
- Republic day (26 January) 72nd Republic Day was celebrated patriotic fervour tocommemorate the adoption of activities of our constitution,
- Savitribai Phule birth anniversary (3rd January)
- Mahatma Gandhi's birth anniversary (2 October)
- Birth Anniversary of Babasaheb Ambedkar (14th April)
- Maharashtra Day (1st May)
- Independence Day (15th August)
- Birth anniversary of Mahatma Jyotiba Phule.
- The birth anniversary of Marutrao Ghule Patil. (15 September)
- Environment Day (5 June) world Environment Day celebrate in college teacher and students, this day we planted 100 plants in our campus.

Sr. No.	Title of the Activities	Date of Program	Organizing unit / agency	No of Teacher s coordin ated such activitie s	No of Students participat ed in such
1	Mahatma Gandhi and Lal Bahadur Shastri Jayanti	02-10- 2020	National Service Scheme	5	25
2	Dr. A.P.J. Abdul Kalam Jayanti and Readingday	15-10- 2020	Library	25	150
3	Teachers Day	05-09- 2020	Student Welfare	25	20
4	Loknete Marutrao Ghule Patil Jayanti	15-09- 2020	MGPS Education Society	45	300
5	Campus Cleaning	27-08- 2020	National Service Scheme	30	200
6	Womens Day	08-03- 2021	Jijamata Vidyarthini Manch	10	81

7	Savitribai Phule Jayanti	03-01- 2021	National Service Scheme	20	90
8	Yoga Day	21-06- 2020	Physical Education	60	170
9	Plantation in College Campus	20-08- 2020	National Service Scheme	35	40
10	Maharashtra Day	01-05- 2021	Student Welfare	40	25
11	Republic Day	26-01- 2021	Physical Education	60	500
12	Birth Anniversary of Mahatma Jyotiba Phule	11-04- 2021	National Service Scheme	25	110
13	Sadbhavna Din	30-01- 2021	National Service Scheme	3	47
14	Covid-19 RTPCR Testing camp	11-02- 2021	Physical Education	4	52
15	Covid-19 Awareness Lecture	28-10- 2020	Physical Education	15	35
16	Covid-19 Protection disinfection of collegecampus	04-08- 2020	Physical Education	5	0
17	Plantation in College Campus	04-07- 2020	National Service Scheme	4	62
18	Blood Donation Camp	31-12- 2020	National Service Scheme	3	48

2.0 ANALYSIS

2.1 GREEN AREA/ PLANTATION

Green area or plantation includes the plant, greenery and landscaping of the campus to enhance the environment of the area. This will help to increase the beauty of the campus. The college area is diverse with a variety of plant species performing a variety of functions. Most of the plant species are planted through various plantation programmes organized by the college.

The plantation in college have increased the quality of life, not only in college campus but also the surrounding area in term of temperature control, contributing to improving air quality, soil conservation, water conservation and habitat for birds and small animals etc.

Many spices of birds are dependent on these trees mainly for food and shelter. Nectar of flowers and plants is a favorite of birds and many insects. Leaf – covered branches keep many animals, such as birds and squirrels, out of reach of predators.

A thick belt of large shady trees in the periphery of the college have found to be bringing down noise and cut down dust. Thus, the college has been playing a significant role in maintaining the environment of the entire surrounding area of college.

2.1.1 FLORA DIVERSITY

Table 1. List of plant species observed in the campus during the field visit

Sr No	Botanical Name	Local Name	Family	No of Plants	Туре
1	Acacia nilotica	Babul tree	Fabaceae	7	Tree
2	Adansonia digitata	Gorakchinch	Bombacaceae	3	Tree
3	Adathoda vasica	Adulsa	Acanthaceae	5	Shrub
4	Aegle marmelos	Bel	Rutaceae	4	Tree
5	Albizia julibrissin	Silk plant	Fabaceae	2	Tree
6	Alstonia scolaris	Saptaparni	Apocynaceae	35	Tree
7	Annona reticulata	Ramphal	Annonaceae	4	Tree
8	Annona squmosa L.	Shitaphal	Annonaceae	49	Tree
9	Araucaria columnaris J. R. Forst Hook.	X-Mas tree	Araucariaceae	2	Tree
10	Artocarpus heterophyllus	Jackfruit/fanas	Moraceae	3	Tree
11	Azadirachta indica	Neem	Meliaceae	121	Tree
12	Bambusa bamboo	Bamboo tree	Poaceae	1	Tree
13	Bauhinia racemosa	Apta	Caesalpiniaceae	12	Tree
14	Bauhinia variegate	Raktakanchan	Fabaceae	17	Tree
15	Bombax ceida	Silk cotton tree	Malvaceae	2	Tree
16	Bougainvillea spectabilis	Kagadigulab	Nyctaginaceae	7	Shrub
17	Butea monosperma	Palas	Fabaceae	1	Tree
18	Callistemon lanceollatus	Bottle brush	Myrtaceae	7	Tree
19	Calotropis giaganthe	Ruie	Asclepiadaceae	15	Shrub
20	Canna indica L.	Kardal	Cannaceae	10	Shrub
21	Capparis zeylanica	Ceylon caper	Capparaceae	3	Tree
22	Carica papaya	Papaya	Caricaceae	9	Tree
23	Cassia fistula	Golden rain tree	Caesalpiniaceae	40	Tree
24	Cassia marginata Roxb.	Red cassia	Caesalpiniaceae	2	Tree
25	Cassia siamea Lam.	Yellow Cassia	Caesalpiniaceae	75	Tree
26	Catharanthus roseus L.	Sadaphuli	Apocynaceae	50	Shrub
27	Clitoria ternatea L.	Gokharna	Fabaceae	4	Tree
28	Cocus nucifera	Coconut	Aracaceae	46	Tree
29	Cordia dichotoma G. Forst	Bhokar	Boraginaceae	1	Tree
30	Cuscuta refelxa Roxb.	Amar bel	Convolvalaceae	2	Tree
31	Cycas revolute	Cycas	Cycadaceae	5	Tree

32	Dalbergia sisso Roxb.	Shisham	Fabaceae	59	Tree
33	Delonix regia (Box ExHook)	Gulmohar	Fabaceae	15	Tree
34	Dypsis l utescens H. Wendl	Areca palm	Arecaceae	10	Shrub
35	Emblica officinalis	Amla	Phyllanthaceae	7	Tree
36	Eucalyptus lanceolatus	Nilgiri	Myrtaceae	10	Tree
37	Ficus benghalensis	Wad/Banyan	Moraceae	7	Tree
38	Ficus benjamina L.	Weeping fig	Moraceae	27	Shrub
39	Ficus elastic Roxb ex	Rubber tree	Moraceae	2	Tree
40	Ficus racemosa	Umbar	Moraceae	3	Tree
41	Ficus religiosa	Pimpel	Moraceae	4	Tree
42	Ixora coccinea	Ixora/Rugmini	Rubiaceae	22	Shrub
43	Lantana Camera	Ghaneri	Verbenaceae	20	Shrub
44	Leucaena leucocephala	Subhabul	Fabaceae	16	Tree
45	Limonia acidissima L.	Kauth	Rutaceae	2	Tree
46	Livistona chinensis	Fan palm	Arecaceae	2	Tree
47	Madhuca longifolia	Sontharad	Sapotaceae	2	Shrub
48	Mangifera indica	Mango/Amba	Anacardiaceae	53	Tree
49	Milingtonia hortensis	Jasmine plant/Buuch	Bignoniaceae	22	Tree
50	Mirabilis jalapa L.	4 O clock plant	Nyctaginaceae	2	Shrub
51	Murraya koenigii	Kadipatta	Rutaceae	5	Tree
52	Musa paradisiaca L.	Banana	Musaceae	6	Tree
53	Neolamarckia cadamba	Cadamba	Rubiaceae	3	Tree
54	Nephrolepis exaltata L.	Fish bone Fern	Nephrolepidacea e	26	Shrub
55	Nyctanthes arbor-tristis L.	Parijaat	Oleaceae	3	Tree
56	Parkinosonia aculeate L.	Jelly bean tree	Fabaceae	2	Tree
57	Peltophorum pterocarpum	Soanmohar	Fabaceae	367	Tree
58	Piper betle L.	Banaras wel	Piperaceae	4	climber
59	Pithcolombium dulce (Roxb)	Vilayati Chinch	Fabaceae	1	Tree
60	Plumeria obtuse	chapha	Apocynaceae	5	Tree
61	Polyalthia longifolia	Ashoka	Annonaceae	108	Tree
62	Pongania pinnata	Karanj	Fabaceae	152	Tree
63	Psidium guajava	Peru	Myrtaceae	13	Tree
64	Rauvolfia serpentine	Sarpagandha	Apocynaceae	2	Tree
65	Ricinus communis	Castor	Euphorbiaceae	1	Shrub
66	Roystone aregia	Cuban royalpalm	Arecaeae	2	Tree
67	Samniea saman	Shiris	Mimoceaceae	7	Tree
68	Santalum album	Chandan	Santalaceae	6	Tree
69	Saraka Indica	Sitecha Ashok	Fabaceae	10	Tree

70	Spathodia campanulata	Fountain tree	Bignoniaceae	14	Tree
71	Swetenia mahugani	Mahoguni	Meliaceae	4	Tree
72	Syzygium cumini L.	Jambhul	Myrtaceae	10	Tree
73	Syzygium cumini L.	Jambhul	Myrtaceae	4	Tree
74	Tabernaemontana divaricate R. Br.	Chandanipat	Apocynaceae	4	Shrub
75	Tamarindus indica	Chinch, Imli	Fabaceae	49	Tree
76	Tecoma stans L.	Yellow bells	Bignoniaceae	38	Tree
77	Tectona grandis	Burma/ Saag	Lamiaceae	9	Tree
78	Terminalia arjuna	Arjun tree	Combretaceae	3	Tree
79	Terminalia catappa L.	Badam	Combretaceae	8	Tree
80	Thespesia populnea	Indian Tulip tree/Ranbhendi	Malvaceae	2	Shrub
81	Thevetia peruviana	Yellow Oleander	Apocynacae	21	Tree
82	Thuja occidentalis	Morpankhi	Cupressaceae	20	Tree
83	Ziziphus jujuba	Bore	Rhamnaceae	13	Tree
		Total		1751	

Total 67 tree species, 15 shrubs species and 1 climber species are observed in the college campus area.

- 1544 numbers of trees, 203 shrubs and 4 number of Climber are planted in college campus area.
- Good vegetation was observed at boundary of college.
- College actively participated in tree plantation Programme
- College conducted and participated in various Planation activity programs are being organized at college campus and surrounding villages through various activities of college.
- The plantation program includes various types of indigenous species of ornamental and medicinal wild plant species.

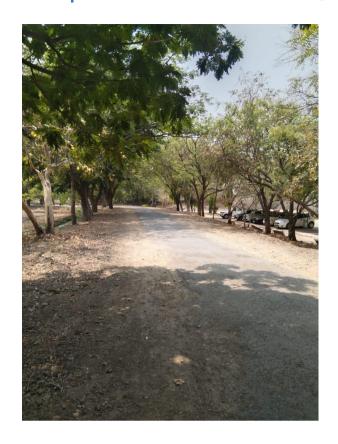


















2.1.2 FAUNAL DIVERSITY

Birds;

Birds were studied by direct observation with the help of "Olympus 10 x 50 DPS I" binocular and were identified by adopting available literature (Grimmett et al. 1998). During the survey, 15 species of birds were noticed. The dominant birds were Indian myna, house crow, blue rock pigeon, etc. It has been observed that the majority of birds were insectivorous in habit preferring insects, worms and arachnids. None of these birds are endangered (Schedule I) as per Wildlife (Protection) Act 1972.

About 15 bird species was observed during the site visit.

Table 2. Avifauna in Campus area

SN	Common Name	Scientific Name	Conservation status as per Wildlife (Protection)
			Act 1972
1	Black kite	Milvus migrans	Sch – IV
2	Blue rock pigeon	Columba livia	Sch – IV
3	Cattle egret	Bubulcus ibis	Sch – IV
4	Common swallow	Hirunds rustica	Sch – IV
5	Crow pheasant	Centropus sinensis	Sch – IV
6	House crow	Corvus splendens	Sch – IV
7	House sparrow	Passer domesticus	Sch – IV
8	Indian black drongo	Dicrurus adsimilis	Sch – IV
9	Indian myna	Acridotheres tristis	Sch – IV
10	Koel	Eudynamys scolopacea	Sch – IV
11	Magpie robin	Copsychus saularis	Sch – IV
12	Purple sunbird	Nactarinia asiatica	Sch – IV
13	Red wattled lapwing	Vanellus indicus	Sch – IV
14	Redvented bulbul	Pycronotus cafer	Sch – IV
15	Small blue kingfisher	Alcedo atthis	Sch – IV

Butterflies

Study area comprises of 13 species of butterflies, dominated by Euploea core, Papilio demoleus, and Eurema hecabe Butterfly diversity and community composition are dependent on plants, as their caterpillars are highly specific to host plants on which they feed and metamorphose into the adults. Fairly good butterfly diversity in this area is conspicuous due to presence of wide varieties of flowering trees. Therefore, richness of host plant diversity contributes to butterfly diversity. None of these is endangered (Schedule I) as per Wildlife (Protection) Act 1972

Table 3.List of Butterflies in Campus area

SN	Common Name	Scientific Name	Conservation status as per Wildlife (Protection) Act 1972
1	Blue mormon	Papilio polymnestor	Not enlisted
2	Blue pansy	Junonia orithya	Not enlisted
3	Blue tiger	Tirumala limniace	Not enlisted
4	Chocolate pansy	Junonia iphita	Not enlisted
5	Ciliate blue	Anthene emolus	Not enlisted
6	Common evening brown	Melanitis leda	Not enlisted
7	Common grass yellow	Eurema hecabe	Not enlisted
8	Common Indian crow	Euploea core	Sch – IV
9	Common leopard	Phalanta phalantha	Not enlisted
10	Common mormon	Papilio polytes	Not enlisted
11	Gray pansy	Junonia atlites	Not enlisted
12	Lime butterfly	Papilio demoleus	Not enlisted
13	Plain tiger	Danaus chrysippus	Not enlisted

2.1.3 BOTANICAL GARDEN

Botanical garden is developed in 3000 sq.ft area in college campus. The garden has rich flora having approximately 63 Plant Species

The plants are of different ecological groups such as mesophytes, xerophytes, hydrophytes as well as it includes rock garden, pond ecosystem, oxy-park, medicinal plants, ornamental plants and various types of hedges and edges.

A botanical garden is an institution for botanical research, especially on the native flora of the region.



Botanical Garden

Functions of Botanical Gardens:

The botanical gardens are the natural source of science and culture. Functions of Botanical Gardens are as follows.

- Botanical gardens act as out-door laboratories.
- Initiate studies on the tropical and temperate ecosystems and their biota,
 before they are lost to science and preserve such systems.
- Serve as centres of gene pools or germplasm bank of wild relatives of economically important plants.
- Establish Nature centers and youth Museums to focus attention on destruction of tropical and temperate ecosystem, environmental degradation.





List of plants in Botanical Garden

Plant No.	Botanical Name	Local Name	Family
1	Eucalyptus lanceolatus	Nilgiri	Myrtaceae
2	Pongania pinnata	Karanj	Fabaceae
3	Azadirachta indica	Neem	Meliaceae
4	Spathodia campanulata	Fountain tree	Bignoniaceae
5	Mangifera indica	Mango/Amba	Anacardiaceae
6	Musa paradisiaca L.	Banana	Musaceae
7	Bombax ceida	Silk cotton tree	Malvaceae

8	Plumeria obtuse	chapha	Apocynaceae
9	Murrayakoenigii	Kadipatta	Rutaceae
10	Nephrolepis exaltata L.	Fish bone Fern	Nephrolepidaceae
11	Adathoda vasica	Adulsa	Acanthaceae
12	Cycas circianalis	Cucus	Cycadaceae
13	Asparagus racemosus	Shatavari	Asparagaceae
14	Vinca rosea	Madagascar periwinkle,	Apocynaceae
15	Origanum majorama	Marjoram	Lamiaceae
16	Bougainvillea spectabilis	Kagadigulab	Nyctaginaceae
17	Cassia fistula	Golden rain tree	Caesalpiniaceae
18	Lantana Camera	Ghaneri	Verbenaceae
19	Bauhinia variegate	Raktakanchan	Fabaceae
20	Catharanthus roseus L.	Sadaphuli	Apocynaceae
21	Araucaria columnaris J. R. Forest Hook.	X-Mas tree	Araucariaceae
22	Callistemon lanceollatus	Bottle brush	Myrtaceae
23	Terminalia catappa L.	Badam	Combretaceae
24	Canna indica L.	Kardal	Cannaceae
25	Tabernaemontana divaricate R. Br.	Chandanipat	Apocynaceae
26	Piper betle L.	Banaras wel	Piperaceae
27	Ficus racemosa	Umbar	Moraceae
28	Thuja occidentalis	Morpankhi	Cupressaceae
29	Aegle marmelos	Bel	Rutaceae
30	Santalum album	Chandan	Santalaceae
31	Cocus nucifera	Coconut	Aracaceae
32	Rauvolfia serpentine	Sarpagandha	Apocynaceae
33	Swetenia mahugani	Mahoguni	Meliaceae
34	Cycas revolute	Cycas	Cycadaceae
35	Manilkara zapota	Chikoo	Sapotaceae
36	Psidium guajava	Peru	Myrtaceae
37	Peltophorum pterocarpum	Soanmohar	Fabaceae
38	Butea monosperma	Palas	Fabaceae
39	Costus pictus	costus	Coastaceae
40	Ocimum sanctum	Tulas	Lamiaceae
41	Cymbopogon citrates	Gavati Chaha	Poaceae
42	Hibiscus rosa-sinesis	Jaswand	Malvaceae
43	Zamia pygmaea	guayra,	Cyacadaceae
44	Ficus panda	Nandhrukha	Moraceae
45	Nerium olender	Kanher	Apocynaceae
46	Jatropha integerrimo	Jatropha	Eophorbiaceae
47	Mentha spicata	Pudina	Lamiaceae
48	Thunbergia grandiflora	Motha Pandhara	Acanthaceae
49	Agave americana	Ghaypat	Asparagaceae

50	Putranjiva roxburghii	Putrajivi	Putranjivaceae
51	Sansevieria trifasciata	snake plant	Asparagaceae
52	Pedilanthus tithymaloides	nival	Euphorbiaceae
53	Terminalia chebula	Hirda	Combretaceae
54	Terminalia bellirica	Behada	Combretaceae
55	Commiphora wightii	guggul	Burseraceae
56	Opuntia elatior	Phadya Nivadung	Cactaceae
57	Ananas comosus	Ananus	Bromeliaceae
58	Ruta graveolenus	Rue	Rutaceae
59	Cupressus macrocarpa	saru	Cupressaceae
60	Ravenala madagascariensis	Travellers Palm	Strelitziaceae
61	Caryota mitis;	Fish tail palm	Arecaceae
62	Plumeria pudica	Nag champa	Apocynaceae
63	Casuarina equisetifolia;	Suru	Casuarinaceae

List of Medicinal plants in Botanical Garden

Sr. No.	Name of the plant	Local name	Family	Plant part used
1	Eucalyptus lanceolatus	Nilgiri	Myrtaceae	Leaves, bark
2	Aegle marmelos	Bel	Rutaceae	fruits
3	Rauvolfia serpentine	Sarpgandha	Apocynaceae	Roots, Fruits,leaves
4	Asparagus racemosus	Shatavari	Asparagaceae	Roots
5	Adathoda vasica	Adulsa	Acanthceae	leaves
6	Vinca rosea	Sadaphuli	Apocynaceae	leaves
7	Origanum majorana	Marwa	Lamiaceae	Leaves
8	Ocimum sanctum	Tulas	Lamiaceae	Leaves

9	Cymbopogon citrates	Gavati chaha	Poaceae	leaves
10	Mentha spicata	Pudina	Lamiaceae	Leaves
11	Azadirachta indica	Neem	Meliaceae	Leaves,stem,fruit
12	Terminalia chebula	Hirda	Combretaceae	Fruits
13	Terminalia bellirica	Beheda	Combretaceae	fruits
14	Commiphora wightii	Guggul	Burseraceae	friuts
15	Aloe vera	korphad	Asphodelaceae	Leaves
16	Murraya koenigii	Kadipatta	Rutaceae	Leaves
17	Pelargonium citrosum	Odomus plant	Geranaceae	Leaves
18	Pelargonium hortorum	Geranium plant	Geranaceae	Leaves
19	Ruta grareolens	Satapa	Rutaceae	Entire plant
20	Pandanus odorifer	Kewda	Panadanaceae	fruit
21	Chlorophytum borivilianum;	Safed Musli	Asperagaceae	Roots
22	Acorus calamus;	vekhand	Acoraceae	fruit

2.2.4 RECOMMENDATIONS

- Review yearly the list of trees planted in the college campus, and allots numbers to the trees along with scientific /botanical and local/common name to the trees.
- Select endemic or local species for the planation.
- Considerations for selection of plant species:
 - Plant species which shows higher adaptability to local climatic and edaphic conditions
 - Plants that show vigorous growth, and higher forage value
 - Plants having ability of fixing nitrogen
 - Preferably indigenous, endemic and rare species
 - Plant that serves as nesting, feeding and breeding site for fauna
 - Plants species having high fodder and fuel value
 - Plant that enhances the aesthetics of the surrounding areas
 - Plants species having importance in soil binding
 - Plant species with different height, growth habits and bole shapes
 - Species tolerant to specific conditions or capacity to endure water stress and climatic extremes after initial establishment
 - Economically important plant species.
- Avoid plantation of exotic plant species in college campus.
- Promote environmental awareness as a part of course work in various curricular areas, independent research projects, and community service.
- Conduct small workshop or training programme for the students on medicinal plants
- Establish a College Environmental cell that will take responsibility for the whole environment of the college campus.
- Establish Environment Policy for the environment conservation and protection of college.
- The Environmental cell shall be the source of advice and guidance to staff and students on how to implement this Policy.
- Conduct six monthly internal audit to ensure that implementation of activities for the environment planned for the year, action is taken on the basis of audit report, recommendation and findings.

- Celebrate every year 5th June as 'Environment Day', wildlife week and plant trees on this day to make the campus more Green.
- Establish Green library for the students.
- Prepare five-year planation Programme /Plan in consultation with management and students.
- Establish nature club
- Organize exhibitions like plant painting, flower painting, flowers, posters etc.
- Develop seed bank under botanical garden programme

2.2 WATER & WASTE WATER MANAGEMENT

Water is a natural resource all living things are depend on water. We need to use water wisely to ensure that drinkable water is available for all, now and in the future. Water auditing is conducted for the evaluation of facilities of water requirement,

SOURCES AND FACILITIES FOR WATER TREATMENT AND ITS REUSE.

2.2.1 WATER REQUIREMENT

In college campus following main uses of water

Main water uses in the campus

- Drinking
- Lab
- Cleaning
- Toilets
- Washing
- Office uses
- Garden

Water source: Mula right bank canal & Grampanchayat Bhenda.

Water tank having capacity of 1 lakh litr is constructed by college



Water requirement for year 2020-21 is calculated based on the number of students, staff & garden area etc.

Sr No	Details	Number	Water Requirement per head lit/o as per NBC Norms 2016			Total Lit/day
			Domestics	Flushing	Total	
1	Students	1464	25	20	45	65880
2	Staff	97	25	20	45	4365
3	Hostel for Girls & Boys	220	90	45	135	14850
4	Staff Quarter	50	90	45	135	6750
						91845

^{*}Estimation of water requirement for drinking and domestic use as per NBC 2016, BIS

1	Domestic water	91845lit/day
2	Department/ Laboratory Use	2000 lit /day
	Chemistry, Botany & Zoology	
3	Garden & Lawn	6000 lit /day
	Total Water	99845 lit/day (99.84 M3/day)

- ➤ The total quantity of water required for drinking, flushing and laboratory use and gardening purposes is assessed is assessed as 99.84 liters per day.
- Area under plantation is about 30 % of total area of institute (31.65 acre) but most of the plants are more than 10-15 years old so that no need of daily water for those plants. Only garden, lawn and botanical garden required daily water.
- For hygienic drinking water, Water is treated at water treatment plant by Sugar Factory and provided to college.

2.2.2 WASTE WATER GENERATION & TREATMENT

- ➤ Total 85 m3/day sewage is generated. Generated sewage is treated through Septic tank. Over flow of septic tank is used for the gardening.
- Septic tanks are provided to treat the generated sewage.
- ➤ No treatment is provided to waste water generated from laboratories

2.2.3 WATER CONSERVATION

➤ Roof top Rain water harvesting system is installed and water collected at natural tank behind the Main Building of college. Collected water will be used for gardening after rainy season in month of October to December.



Natural Pond for Rain Water Storage

➤ Rain water is collected at 2000 lit capacity tank and are using for the chemistry department laboratory.



Rain water harvested at Tank

Rainwater Harvesting Calculations

- > Area for Rainwater Harvesting = 2870 SQ. M
- Average Seasonal Rainfall in Newasa Taluka from last five year = 531 MM OR 0.531 M
- > Run-Off Co-Efficient = 0.9
- ➤ Rain water harvesting potentional = 0.531 x 2870 x 0.9 = 1371 CU. M

2.3.4 RECOMMENDATION

- ➤ Installed sewage treatment plant having capacity of 90CMD and recycle the treated water for flushing and gardening.
- > Separation of grey and black water should be done by the use of dual plumbing line for separation of grey and black water.
- ➤ In order to use the treated waste water for flushing a separate plumbing system should be provided.
- > Drip irrigation system should be provided to Gardens to minimize water use.
- Liquid waste generated from laboratory should not be disposed off without any treatment.
- Fixture for toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor-based control.
- Prepare Detailed rain water harvesting plan and implement in next five year to reduce the raw water requirement.
- Water quality analysis should be carried through NABL or MOEF accredited laboratory for monthly or quarterly basis.

2.3 SOLID WASTE MANAGEMENT

To reduce waste in the college campus, recycling efforts are taken. Waste is collected and segregated properly. Students, faculty, and staff are aware and educated on proper waste management practices such as waste source and disposal, plastic waste, paper waste, food waste, and recycling. Solid waste is divided into two categories: dry waste and wet waste

• Wet waste: biodegradable waste

• Dry waste: no Biodegradable waste

2.3.1 WASTE GENERATION IN COLLEGE CAMPUS

Category	Quantity kg/day	Disposal
Paper Waste	5	Sale to Vendor for recycling
Plastic waste	4	Sale to Vendor for recycling
Glass waste	0.50	Sale to Vendor for recycling
Metal waste	2.0	Sale to Vendor for recycling
Canteen waste (Food waste)	20	Vermi composting and used as manure for garden
Garden waste	120	Vermi composting and used as manure for garden

2.3.2 OBSERVATIONS

- The waste generated in the campus includes glass, metals, wrappers, paper, plastics, etc. Old newspapers, used papers and journal files, workshop scrap etc. are given for recycling to external agencies.
- Glass, metals, plastic and other non-biodegradable wastes are given to external agencies where they are segregated and disposed/ recycled according to the nature of the waste.

- Biodegradable waste: Leaf litter& food waste is decomposed in composting unit of College.
- Plastic waste sends to the recycling vendor. Apart from dry solid waste, the campus generates an average of 120kgs of organic waste per day and 20 kgs of processed food waste per day from canteen.
- In garden a unit of Vermicompost also established which is essential for production of vermicompost and vermiwash as an organic manure which is used as fertilizer for various plants in the garden. Vermi composting plant is in operation in the campus. Food Waste from collage and canteen is mix with leaf litter and use for the Vermi composting. Vermi compost is used for plants as manure.
- Clean and neat College campus was observed during the visit.



2.3.3 RECOMMENDATIONS

Segregate dry and wet waste separately

- Reduce the waste generation from students, college staff, departments and offices.
- Display the awareness board of solid waste
- Send all recycling waste glass, cans, white, coloured and brown paper, plastic bottles, batteries, print cartridges, cardboard and furniture to recycling facility or authorized vendor.

2.4 E -WASTE

E- waste is becoming major thread to the whole world. Its toxic emissions mixed with virgin soil and air and causing harmful effects to the entire biota either directly or indirectly. Direct impacts include release of acids, toxic compounds including heavy metals, carcinogenic chemicals and indirect effects such as bio magnification of heavy metals

2.6.1 OBSERVATIONS;

E-waste generated in the college campus is very less in quantity. The E-waste and defective item from computer laboratory is being stored properly. The college management has decided to contact approved E-waste management and disposal facility in order to dispose E-waste in scientific manner.

2.6.2 RECOMMENDATIONS:

- Recycle or safely dispose of computers and electrical equipment's.
- Use reusable resources and containers and avoid unnecessary packaging where possible.
- Always purchase recycled resources where these are both suitable and available.

2.5 ENVIRONMENT MONITORING

2.5.1 AMBIENT AIR QUALITY

Ambient air quality monitoring was carried out in the college campus to understand the air quality of the campus.

Ambient air quality monitored at one location (i.e at infront of college) in the campus. The concentrations of PM10, PM2.5, SO2 and NOX samp les were collected as 24 hourly average by drawing air at the rate of 1.0 -1.5 m3/min through glass fibre filter paper and analyzing by the gravimetric method. Concentrations of SO2 and NOX were analyzed by absorption & colorimetric method. Pre-calibrated fine dust particulate samplers were used for monitoring of PM10 & PM2.5.

The results are given below Table

Sr No	Parameters	Results	Units	NAAQS
				24hrs
1	Ambient Temperature	29	°C	
2	Dry Bulb Temperature	29	°C	
3	Wet Bulb Temperature	29	°C	
4	Relative Humidity	68	%	
5	Sulphur Dioxide (SO2)	10.0	µg/m3	≤80
6	Oxide of Nitrogen (NOx)	13.0	µg/m3	≤80
7	Particulate Matter PM10	52.5	μg/m3	≤100
8	Particulate Matter PM2.5	22.5	μg/m3	≤60
9	Carbon Dioxide	0.4	mg/M3	≤4

Analysis report is enclosed as annexure I

The above results show the concentrations of PM₁₀ PM_{2.5}, SO₂ NO_x and CO were found within the National Ambient Air Quality Standards (NAAQ).

Analysis result report is enclosed as annexure I

2.5.2 WATER QUALITY

Result of Drinking Water quality:

Sr No.	Parameter	Units	Results	Limits as per IS 10500:2012
1	Color	Hazen	5	≤5
2	Odor	-	Agreeable	Agreeable
3	Turbidity	NTU	<1	≤1
4	TDS	ppm	68.0	≤500
5	рН	-	7.1	6.5-8.5
6	Total hardness as Caco3	mg/lit	26.0	≤200
7	Iron as Fe	mg/lit	0.10	≤0.3
8	Chlorides as Cl	mg/lit	14.0	≤250
9	Residual Chlorine	mg/lit	,0.1	≤0.20
10	Calcium (as Ca)	mg/lit	10.4	≤75
11	Magnesium (as Mg)	mg/lit	7.0	≤30
12	Sulphate	mg/lit	4.0	≤200
13	Nitrate	mg/lit	0.3	≤45
14	Total Coliform	MPN/100ml	<2	<2
15	E.Coli	Per /100 ml	<2	<2

Analysis result report is enclosed as annexure I

2.5.3 NOISE LEVEL

Ambient noise standards are prescribed for residential, commercial and industrial areas and silence zone vide 'The Noise Pollution (Regulation and control) Rules, 2000, notified by the MoEF&CC on 14th February, 2000 and amended thereof. The ambient noise standards have been stipulated during day time (6 am to 9 pm) and night time (9 pm to 6 am) keeping in the view the different sensitive and the resultant impacts at community level during these periods.

The ambient noise levels were monitored at 2 selected locations within the campus during day and night time. Educational Institute come under silence zones. But the college area is located adjacent to Maharashtra State highway 71.

Equivalent noise levels during day and night, The Noise quality monitoring Station presented in Table below

Sr No	Location	DAY Leq	NIGHT Leq
ANQ 1	College -Main Building	48	35
ANQ 2	College gate	52	38

Analysis result report is enclosed as annexure I

Noise level observed at two locations in day time and night time were found to be well within the limit.

2.5.4 Soil Quality Report:

Sr	Parameters	Results	Units
no			
1	Texture	Clay Loam	
2	Percentage of different Co	mponents	
	Sand	22	%
	Silt	36	%
	Clay	42	%
3	Soil Moisture	13.0	%
4	Bulk Density	1.6	
5	Water Holding capacity	58	%
6	рН	7.9	

7	Conductivity	245.0	μs/cm
8	Organic Carbon	1.10	%
9	Calcium (as Ca)	38.0	mg/kg
10	Magnesium (as Mg)	26.0	mg/kg
11	Total Kjeldhal Nitrogen	0.45	%
12	Phosphorous (as P)	15	Kg/ka
13	Potassium (as K)	45	Kg/ha
14	Iron as fe	4.0	mg/kg
15	Zinc as Zn	0.36	mg/kg
16	Copper ad Cu	<0.04	mg/kg
17	Nickel as Ni	<0.02	mg/kg
18	Cadmium as Cd	<0.05	mg/kg
19	Lead as Pb	<0.1	mg/kg

Analysis reports are attached as I

3.0 CONCLUSION

Green and environment audit is the powerful tool to identify the strength and weakness of college in environment area.

This audit is one kind of scientific and professional approach towards accountability in utilization of resources. Green audit is helpful to the college for the identifying, evaluating and managing environmental risks and improvement in waste management, energy, water management etc.

Output of the green audit report in each area will be serve as a guide for educating the college community on the environment related practices and resource usage at the college as well as spawn new activities and innovative practices.

Important Suggestions

- Adopt an environmental policy for the college
- Establish Environment management Committee of the college.
- Establish a purchase policy for Eco friendly materials
- Conduct seminars and group discussions on environmental education and environment protection
- Conduct Regular Green and Environment audit
- Involve Students and staff in local environmental problems to solve along with local body and people.
- Establish sewage Treatment system.