

CRITERIA - VII

ed to Sri Venkateswara University, Tirupati) Piler, Annamayya Dist. A.P.

REE COLLEGE

7.1.3. Green Audit

- 1. ISO Certificate
- 2. Green Audit Report

S.G.GOVT.D

- 3. Energy Audit Report
- 4. Clean and Green Audit
- 5. Air Quality Index Report





HYM International Certifications Pvt. Ltd.

Certified that the Energy Management System of

S.G. GOVERNMENT DEGREE COLLEGE

Piler, Chittoor Dist, Andhra Pradesh, India

has been assessed and found to be in accordance with the requirements of the Energy standards

ISO 50001 : 2018

for the following scope of certification

IMPLEMENTATION OF ENERGY SAVING PRACTICES

Further information about the scope of this certificate and applicability of ISO 50001 : 2018 requirements may be obtained by consulting the organization.

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Authorised Signature

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GREEN AUDIT REPORT

S. G. GOVT. DEGREE COLLEGE PILER



INTERNAL QUALITY ASSURANCE CELL (IQAC)

2022-2023

S. No.	Name of the Lecturer	Convener/Member	Department
1	Sri. S Saifulla	Convener	Physics
2	Sri. K Rambabu	Member	Chemistry
3	Sri. J Kishore Kumar	Member	Computer science
4	Sri. S Rafi	Member	Commerce
5	Sri. M Sivarami Reddy	Member	Mathematics
6	Sri. B Yallaiah	Member	Telugu

GREEN AUDIT ASSESSMENT TEAM (INTERNAL)

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INTRODUCTION:

Green Audit is a process of systematic identification, quantification, recording, reporting and analysis of components of environmental diversity of institute. It aims to analyze environmental practices within and outside of the concerned place, which will have an impact on the eco- friendly atmosphere. 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.

The rapid urbanization and economic development at local, regional and global level has led to several environmental and ecological crises. On this background it becomes essential to adopt the system of the Green Campus for the institutes which will lead for sustainable development and at the same time reduce a sizable amount of atmospheric CO₂ from the environment. The National Assessment and Accreditation Council, New Delhi (NAAC) has made it mandatory that all Higher Educational Institutions should submit an annual Green Audit Report. Moreover, it is part of Corporate Social Responsibility of the Higher Educational Institutions to ensure that they contribute towards the reduction of global warming through carbon footprint reduction measures.

OBJECTIVES:

In recent time, the Green Audit of an institution has been becoming a paramount important for selfassessment of the institution which reflects the role of the institution in mitigating the present environmental problems. The college has been putting efforts to keep our environment clean since its inception. Therefore, the purpose of the present green 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 map the Geographical Location of the college

To document the floral and faunal diversity of the college

To record the meteorological parameter of Piler' where college is situated

To document the ambient environmental condition of weather, air, water and noise of the college

To document the waste disposal system

To estimate the Energy requirements of the college

To report the expenditure on green initiatives during the last five years

METHODOLOGY:

The purpose of the green audit of SG GDC is to ensure that the practices followed in the campus are in accordance with the Green Policy of the country. The methodology includes: collection of data, physical inspection of the campus, observation and review of the documentation and data analysis.

ABOUT THE COLLEGE:

Sanjay Gandhi Government Degree College Piler, was established in the year 1980, with the approval of the Govt. of Andhra Pradesh and is affiliated to Sri Venkateswara University, Tirupati. The college has earned two-time accreditation from NAAC. Presently, the college runs eleven programmes. It is housed in a sprawling pollution-free campus of 8.48 acres. It is one of the leading institutions in the combined Chittoor District and is the most sought-after for admission by the students. SG GDC has also made a significant presence in the fields of Science, Arts and Commerce. It houses around 80students from all the Mandal's around Piler.

VISION, MISSION AND OBJECTIVES

The institution aspires to churn out intelligent beings to align with the ever- changing evolutionary global phenomena and empower the individuals with knowledge, skills, attitudes and values of the modern world powered by ancient wisdom.

MISSION

The institution yearns to be accountable to the stake holders of education system: parents, students, society and the world at large by investing the aspirants with the following concepts.

- Motivate the students to expand the knowledge base by inculcating critical, logical, divergent, convergent, deductive and inductive thinking skills.
- Adoption of an innovative and transformative approach in the teaching- learning process.
- Share the national responsibility of providing global talent as one in four graduates in the world being a product of the Indian higher education system.
- Mufti-disciplinary, career-oriented, entrepreneurship, skill-based courses, and adoption of transformative and innovative techniques such as blended learning, flipped classroom and experiential learning will be expanded over the years.

OBJECTIVES

The institution inclines to refine the landscape of teaching-learning process within a particular time-frame by adopting the following instructional objectives.

- Adoption of various models that will help improve research capabilities of the students.
- Promoting collaborations amongst institutions, industry, and research centres for generating high-quality basic and applied research.
- Strengthen education industry academic links and build relation with skill-based training providers to enhance employable talent for the education industry.
- To promote corporate and alumni funding and linking public funding to institutional performance.
- Endow the students with thinking skills rather than marks scoring skills.

GREEN AUDITING:

The college has adopted the 'Green Campus' system for environmental conservation and sustainability. There are main three pillars i.e. zero environmental foot print, positive impact on occupant health and performance and 100% graduates demonstrating environmental literacy. The goal is to reduce CO_2 emission, energy and water use, while creating atmosphere where students can learn and be healthy.

Green audit was initiated with the beginning of 1990s with the motive of inspecting the work conducted within the organizations whose exercises can cause risk to the health of inhabitants and the environment. It exposes the authenticity of the proclamations made by multinational companies, armies and national governments with the concern of health issues as the consequences of environmental pollution. It is the duty of organizations to carry out the Green Audits of their ongoing processes for various reasons such as; to make sure whether they are performing in accordance with relevant rules and regulations, to improve the procedures and ability of materials, to analyze the potential duties and to determine a way which can lower the cost and add to the revenue. 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. Some of the incidents like Bhopal Gas Tragedy (Bhopal; 1984), Chernobyl Catastrophe (Ukraine; 1986) and Exxon strategies for environmental security elements have no meaning until they are implemented.

Green Audit is assigned to the Criteria 7 of NAAC, National Assessment and Accreditation Council which is a self-governing organization of India that declares the institutions as Grade 'A', Grade 'B' or Grade 'C' according to the scores assigned at the time of accreditation.

The intention of organizing Green Audit is to upgrade the environment condition in and around the institutes, colleges, companies and other organizations. It is carried out with the aid of performing tasks like waste management, energy saving and others to turn into a better environmental friendly institute.

GOALS OF GREEN AUDIT:

- The objective of carrying out Green Audit is securing the environment and cut down the threats posed to human health.
- To make sure that rules and regulations are taken care of
- To avoid the interruptions in environment that are more difficult to handle and their correction requires high cost.
- To suggest the best protocols for adding to sustainable development

BENEFITS OF GREEN AUDIT:

- It would help to shield the environment
- Point out the prevailing and forthcoming complications Authenticate conformity with the implemented laws
- Empower the organizations to frame a better environmental performance
- It portrays a good image of a company which helps building better relationships with the group of stakeholders
- Enhance the alertness for environmental guidelines and duties.

LAND USE ANALYSIS

GENERAL OVERVIEW OF THE CONCEPT OF LANDUSE

Land use refers to man's activities and the various uses which are carried on and derived from land. Viewing the earth from space, it is now very crucial in man's activities on natural resource. In situations of rapid changes in land use, observations of the Earth from space give the information of human activities and utilization of the landscape.

Remote sensing and GIS techniques are now providing new tools for advanced land use mapping and planning. The collection of remotely sensed data facilitates the synoptic analyses of earth system, functions, patterning, and change in the local, regional as well as at global scales over time. Satellite imagery particularly is a valuable tool for generating land use map.

METHODOLOGY ADOPTED FOR LAND USE MAPPING

Three types of data that are GPS points, field survey data and Google earth data for Geo referencing have been used in this study. Land use map of the study area have been prepared using the above three types of data with the help of ArcGisProsoftware.

DATA PROCESSING AND ANALYSIS

Land use map preparation is executed through the following steps:

Acquisition of data (Location: 13[°] 66¹ N, 78 92¹ E), Geo-coding and Geo referencing of satellite imageries by extracting the ground control points. Supervised classification was carried out with the aid of ground truth data collected during field survey. Scanning and digitization of maps and editing of all the Georeferenced maps were done using GIS. Data manipulation and analysis and linking the spatial data with the attribute data for creation of topology was carried out using GIS software. Creation of GIS output in the form of land use map showing various land use have been prepared.

GEOGRAPHICAL LOCATION WITH CAMPUS MAP IN SCALE

The college has a sprawling pollution-free campus spread over 8 acres of land in Piler. It has an ideal geographical location with the proximity to the important cities of the region. The college is located at 0.5kms from Piler Railway Station, 50 kms from Tirupathi around 55kms from Madanapalli, also 55 kms from the Chittoor, so it is located at the middle of the District

AERIEL VIEW OF COLLEGE CAMPUS (SOURCE GOOGLE EARTH)





FINDINGS:

SG GDC which was established in the year 1980, has an eco-friendly environment. It has a long legacy of healthy environmental practices including periodic plantation, their preservation and maintenance. Its land use is such that about 75% of the total area is occupied by open land and plantation that generates a better and sustainable campus environment.

The Land use analysis Report is prepared under the supervision of SG GDC, PILER.

LAND USE DATA OF S.G. GOVT. DEGREE COLLEGE, PILER

S G GOVT. COLLEGE: PILER

College Carpet Area, Planted Area and Open Sky

S. No.	Wing	Landmark	LENGTH	WIDTH	AREA
1	HOSTEL	SOUTH FACE	93	20	1860
2		EAST FACE (WEST SIDE)	81	20	1620
3		WEST FACE(EAST SIDE)	47	20	940
4					0
5					0
6	RUSA Building	Ground Floor 1 west	30	24	720
7		Ground Floor 1 East	30	24	720
8		Up stair 1 west	30	24	720
9	1	Up stair 1 East	30	24	720
10					0
11	Digital wing	Ground Floor	125	25	3125
12	Seminar Hall	Up stair	125	25	3125
13	1000		1		0
14	Admin Block	Principal chamber and Office	91	50	4550
15	-				0
16	Library	Up stair	91	50	4550
17					0
18	B.A Wing	Ground Floor	150	67	10050
19		Up stair	150	26	3900
20	8-08				0
21	Science wing	Ground Floor	150	67	10050
22	1999 - Starten	Up stair	150	26	3900
23					0
24	Commerce wing	Ground Floor	195	25	4875
25	-	Up stair	195	25	4875
26	PD block		57	22	1254

27	Canteen	36	19	684
28				0
29	100 m		1.800	0
30	111 room	30	20	600
	14-10-10-1			
	Total	1886	603	62838

		LENGTH	WIDTH	AREA
- 2×1		10 200		
VARENDAH	1-	47	7.5	352.5
				0
				0
VARENDAH	GF	72	11	792
	Up stair	72	11	792
				0
				0
VARENDAH	GF	120	11	1320
	Up	120	11	1320
				0
- 19-17 A				0
				0
VARENDAH	Up	150	11	1650
			-	0
				0
VARENDAH	Up	150	11	1650
				0
				0
VARENDAH	GF	195	9	1755
	Up		-	0
VARENDAH		57	9	513
		983	91.5	10144.5

12.12		LENGTH	WIDTH	AREA
Planted Area	Front side of Digital wing	120	24	2880
	front side of Office	91	32	2912
	front side of canteen	40	23	920
	between science and BA wing	135	48	6480
	In Play ground	350	10	3500
			a bitter	0
wind starting		144 Jul (294)		0
- 2.5 %				0
Garden	west side	110	70	7700
	East side	70	60	4200
				0
1000			1999	0
				0
				0
				0
Parking Area		50	19	950
		100	30	3000
				0
- 2 G				0
Rain Water Harvesti	ing pit			0
		1066	316	32542

	LENGTH	WIDTH	AREA
Open Area	80	39	3120
	40	20	800
		A CONTRACTOR OF STREET	0
	100	100	0
			0

Open Area			0
Lord M. Markenson	A MARKENSON AN		0
	A Charles		0
	84 1 . 9 7 19 88		0
Open Auditorium	150	40	6000
	270	99	9920

	Length	Width	Sq.Ft	Sq.Mt
Build-up Area	1886	603	62838	5838
Verandah	983	91.5	10144.5	943
Planted Area	1066	316	32542	3024
Open Area	270	99	9920	922
			115445	10726

INFRASTRUCTURE DETAILS

S. NO	DEPARTMENT	WOODEN TABLES	WOODEN RACK	WOODEN DESKS	WOODEN BENCHES	WOODEN STOOLS	DUAL DESKS	FANS	LED TUBES	LED LIGHTS	WHITE BOARDS	DIGITAL BOARDS	SMART TV (CPU)	PODIUM	SERVER	SPEAKERS (set)	SHOE STAND
1	ENGLISH	1	0	0	0	2	0	4	4	0	0	0	0	0		0	0
2	TELUGU	0	0	0	0	0	0	2	4	0	0	0	0	0	0	0	0
3	HINDI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	HISTORY	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0
5	ECONOMICS	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0
6	P.SCIENCE	0	0	0	0	1	0	2	1	0	0	0	0	0	0	0	0
7	COMMERCE	0	0	0	0	1	0	3	5	0	0	0	0	0	0	0	0
8	ZYM	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0
9	MATHEMATICS	2	1	0	2	0	0	4	6	0	0	0	0	0	0	0	0
10	PHYSICS	12	1	0	0	35	0	7	8	0	0	0	0	0	0	0	0
11	CHEMISTRY	0	0	0	0	4	0	2	4	0	0	0	0	0	0	0	0
12	STATISTICS	3	1	0	0	1	0	2	2	0	1	0	0	0	0	0	0
13	COMPUTER SCIENCE	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
14	BOTANY	0	1	0	0	4	0	3	6	0	0	0	0	0	0	0	0
15	ZOOLOGY	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0
16	B.VOC	2	1	0	0	2	0	3	5	0	0	0	1	0	0	0	0
17	PHYSICAL EDUCATION	1	1	0	0	4	0	3	2	0	0	0	0	0	0	0	0
18	LIBRARY	20	3	0	15	1	0	25	16	0	0	0	0	0	0	0	1
19	ЈКС	0	0	0	0	0	0	8	4	8	0	0	0	0	0	0	0
20	ELL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	SDC	0	0	0	0	0	0	0	0	0	0	0	01	0	0	0	0

22	NCC	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0
23	NSS 1	0	0	0	0	0	0	3	4	0	0	0	0	0	0	0	0
24	NSS 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	CAREER GUIDANCE CELL	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
26	WEC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	DIGITAL CLASS ROOM 1	0	0	0	0	0	0	4	2	6	0	1	1	1	0	1	0
28	DIGITAL CLASS ROOM 2	0	0	0	0	0	0	0	0	6	0	0	1	1	1	1	0
29	DIGITAL CLASS ROOM 3	0	0	0	0	0	0	2	2	6	1	0	1	1	0	1	0
30	VIRTUAL CLASS ROOM	0	0	0	0	0	0	4	2	6	0	1	1	0	0	1	0
31	e-CLASS ROOM	0	0	0	0	0	0	6	4	0	0	1	0	1	0	4	0
32	IQAC	0	0	0	0	0	1	8	4	12	1	0	0	0	0	0	0
33	PRINCIPAL CHAMBER	1	0	0	0	1	0	5	2	5	0	0	0	1	0	0	0
34	EXAM CELL	1	0	0	3	2	0	0	3	0	0	0	0	1	0	0	1
35	OFFICE ROOM	0	1	0	3	3	0	11	11	0	0	0	0	0	0	0	0
36	COMPUTERS LAB 1	0	0	0	0	0	0	8	4	6	0	0	0	0		0	2
37	COMPUTERS LAB 2	0	0	0	0	0	0	6	2	0	0	0	0	0		0	0
38	BOTANY LAB	13	1	0	0	41	0	5	8	0	0	0	0	0	0	0	0
39	ZOOLOGY LAB 1	7	0	0	0	16	0	4	6	0	0	0	0	0	0	0	0
40	ZOOLOGY LAB 2	0	1	0	0	31	0	4	6	0	0	0	0	0	0	0	0
41	CHEMISTRY LAB 1	19	1	0	0	0	0	2	10	0	1	0	0	0	0	0	0
42	CHEMISTRY LAB 2	11	0	0	0	16	0	1	6	0	1	0	0	0	0	0	0
43	CHEM STORE ROOM	7	0	0	0	9	0	0	4	0	1	0	0	0	0	0	0
44	MICROBIOLOGY(PM T)	5	0	0	0	26	0	6	8	0	0	0	0	0	0	0	0

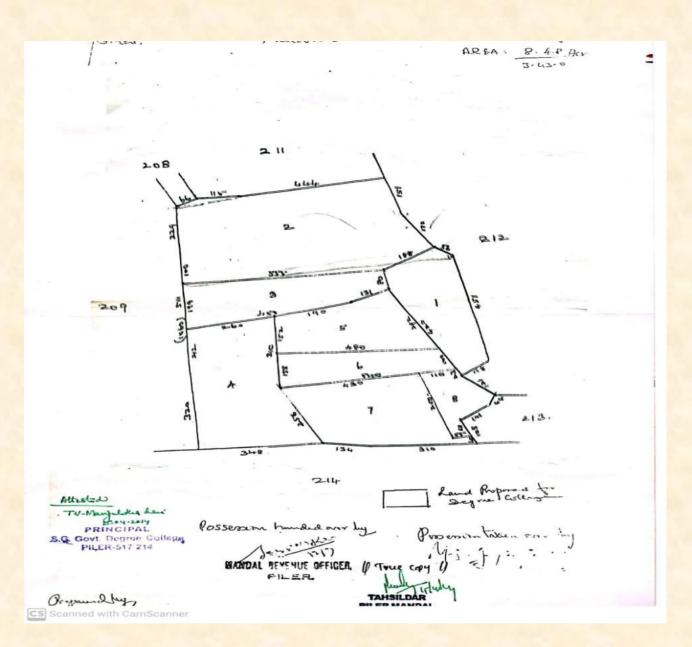
45	SEMINAR HALL	0	0	12	15	0	88	16	11	0	0	0	0	0	0	5	0
46	RUSA G.FLOOR 1	0	0	0	0	0	0	4	4	0	0	0	0	0	0	0	0
47	RUSA G.FLOOR 2	0	0	0	0	0	15	3	4	0	0	0	0	0	0	0	0
48	RUSA UP STAIR 1	0	0	0	0	0	0	4	5	0	0	0	0	0	0	0	0
49	RUSA UP STAIR 2	0	0	0	0	0	0	4	8	2	0	0	0	0	0	0	0
50	CLASS ROOM 101	0	0	0	0	0	37	8	8	0	0	0	0	0	0	0	0
51	CLASS ROOM 102	0	0	0	0	0	26	6	7	0	0	0	0	0	0	0	0
52	CLASS ROOM 103	0	0	0	0	0	26	6	8	0	0	0	0	0	0	0	0
53	CLASS ROOM 104	0	0	0	0	0	29	6	8	0	0	0	0	0	0	0	0
54	CLASS ROOM 105	0	0	0	0	0	22	4	6	0	1	0	0	0	0	0	0
55	CLASS ROOM 106	0	0	0	0	0	30	6	7	0	0	0	0	0	0	0	0
56	CLASS ROOM 107	0	0	0	0	0	34	8	5	0	0	0	0	0	0	0	0
57	CLASS ROOM 108	0	0	0	0	0	30	6	8	0	1	0	0	0	0	0	0
58	CLASS ROOM 109	0	0	0	0	0	30	6	7	0	0	0	0	0	0	0	0
59	CLASS ROOM 110	0	0	0	0	0	17	4	5	0	1	0	0	0	0	0	0
60	CLASS ROOM 111	0	0	0	0	0	18	3	2	0	0	0	0	0	0	0	0
61	CLASS ROOM 29	0	0	0	0	0	17	4	0	0	1	0	0	0	0	0	0
62	CLASS ROOM 30	0	0	0	0	0	24	3	0	0	0	0	0	0	0	0	0
63	CLASS ROOM 31	0	0	0	0	0	26	4	0	0	0	0	0	0	0	0	0
64	CLASS ROOM 32	0	0	0	0	0	14	4	0	0	0	0	0	0	0	0	0
65	CLASS ROOM 33	0	0	0	0	0	25	4	0	0	0	0	0	0	0	0	0
66	CLASS ROOM 113	0	0	0	0	0	29	4	1	0	1	0	0	0	0	0	0
67	CLASS ROOM 114	0	0	0	0	0	28	3	0	0	0	0	0	0	0	0	0
68	CLASS ROOM 115	0	0	11	11	0	10	2	0	0	0	0	0	0	0	0	0
69	CLASS ROOM 116	0	0	0	0	0	30	0	1	0	1	0	0	0	0	0	0
70	CLASS ROOM 117	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

71	ALL VARANDAHS	0	0	0	0	0	0	0	38	0	0	0	0	0	0	0	0
	Total	105	13	23	49	202	606	279	307	57	12	3	6	6	1	13	4

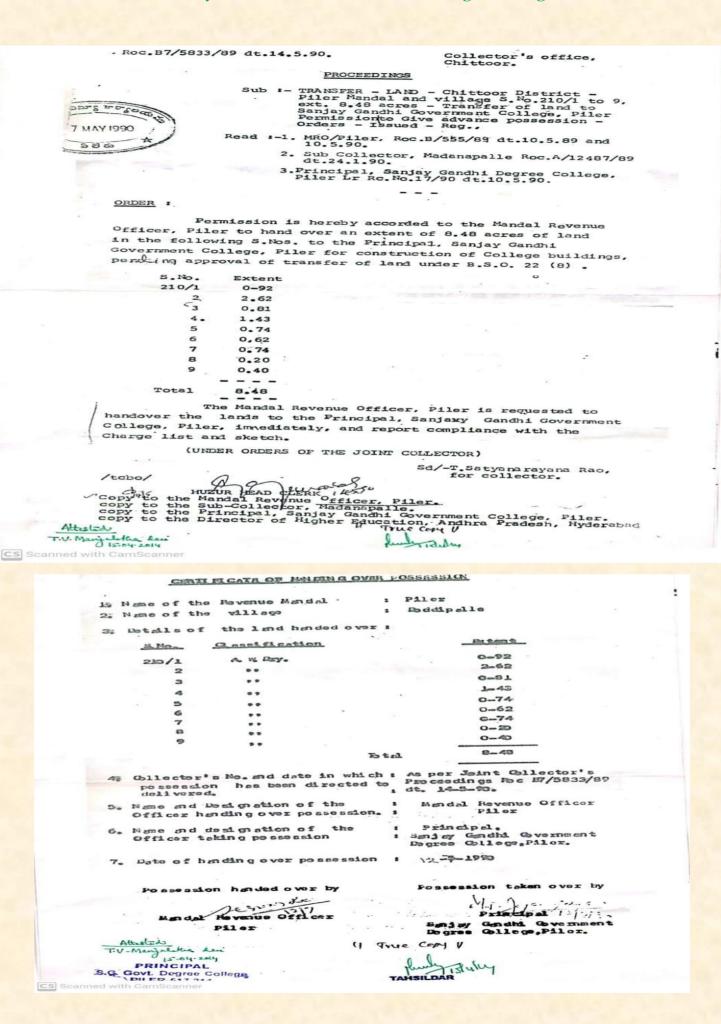
The total built-up area of the College is 62,838 Sq. Ft or 5838 Sq. Mt. and Verandah is 10144.5 Sq. Ft.

32,542 Sq. Ft or 3024 Sq. Mt. are used to beautification of Garden and Vegetation. Therefore, the College has a beautiful outstanding greenery. Hence the emission of Carbon dioxide is reduced more and more causes the oxygen levels increased in the Campus. So, the Campus always should be in Cool and looks like green environment.

FMB of S.G. Govt. Degree College, Piler



Land Survey No.s and Extent of S.G. Govt. Degree College, Piler.



TREE DIVERSITY OF SGGDC, PILER:

SG GDC is within the geo-position between latitude 13° 661 N and longitude 78° 921 E in Piler. Andhra Pradesh, India. It encompasses an area of about 8 Acres. The area is immensely diverse with a variety of tree species performing a variety of functions. Most of these tree species are planted in different periods of time through various plantation programmes organized by the authority and have become an integral part of the college. The trees of the college have increased the quality of life, not only the college fraternity but also the people around of the college in terms of contributing to our environment by providing oxygen, improving air quality, climate amelioration, conservation of water, preserving soil, and controlling climate by moderating the effects of the sun, rain and wind. Leaves absorb and filter the sun's radiant energy, keeping things cool in summer. 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. Different species display a seemingly endless variety of shapes, forms, texture and vibrant colors. Even individual trees vary their appearance throughout the course of the year as the seasons change. The strength, long lifespan and regal stature of trees give them a monument like quality. We often make an emotional connection with these trees and sometime become personally attached to the ones that we see every day. A thick belt of large shady trees in the periphery of the college have found to be bringing down noise and cut down dust and storms. Thus, the college has been playing a significant role in maintaining the environment of the entire campus, and its surrounding areas. The following are the tree species with whom we are being attached Green Audit Report, SGGDC, PILER.

WEST GARDEN

S. No.	Scientific name	Common name	Family	No.
1	Pseudanthemum reticulum	Yellow-veined Earthemum	Acanthaceae	15
2	Graptophyllum pictum	Caricature plant	Acanthaceae	17
3	Ocimum basilium purpurascens	Red Rubin basil\Dark opal basil	Lamiaceae	37
4	Acalypha wilkesiana	Copper leaf plant	Euphorbiaceae	37
5	Solenostemon scutellarioides	Painted nuttle	Lamiaceae	4
6	Codiaeum variegatum(yellow spots)	Croton pictus	Euphorbiaceae	25
7	Acalypha wilkesiana (Meroon)	Red cattail	Euphorbiaceae	30
8	Ficus benjamina	Weeping fig	Moraceae	2
9	Schefflera arboricola	Umbrella plant	Araliaceae	6
10	Syagrus romanzoffiana	Queen plant	Arecaceae	4
11	Eucalyptus marginata	Jarrah	Myrtaceae	44
12	Alternanthera brazilian	Brazilian red hots	Amaranthaceae	37
13	Araucaria heterophylla	Christmas trec	Araucariaceae	1
14	Caryota mitis	Fish tail palm	Arecaceae	2
15	Sanchezia speciosa	Zebra plant	Acanthaceae	10
16	Thuja cypress	Lemon cypress	Cupressaceae	4
17	Durantha erecta	Golden dew drop	Verbenaceae	320
18	Codiaeum variegatum(meroon)	Croton pictus	Euphorbiaceae	18
19	Chamaecostus cuspidatus	Pencilin plant	Costaceae	2
20	Aloe barbadensis miller	aloevera	Liliaceae	18

EAST GARGEN

S. No.	Scientific name	Common name	Family	No.
1	Codiaeum variegatum	Variegated croton	Euphorbiaceae	16
2	Acalypha wilkesiana	Red cattail	Euphobiaceae	48
3	Acnema smithii	Lilly pilly	Myrtaceae	4
4	Schefflera arboricola	Umbrella plant	Araliaceae	24
5	Dracaena reflexa	Song of India	Asparagaceae	18
6	Croton Codieum variegatum	Croton	Euphorbiaceae	13
7	Araucaria heterophylla	Christmas tree	Araucariaceae	1
8	Codiaeum variegatum	Croton pictus	Euphorbiaceae	48
9	Phyllostachys aurea	Golden bamboo/yellow bamboo	Poaceae	4
10	Cordyline fruticosa	Ti plant	Asparagaceae	8
11	Ixora coccinea	Nooruvarahalu	Rubiaceae	6
12	Acalypha wilkesiana	Copper leaf plant	Euphorbiaceae	12
13	Durantha erecta	Golden dew drop	Verbenaceae	50

MEDICINAL GARDEN

S. No.	Scientific name	Common name	Family	No.
1.	Chamaecostus cuspidatus	Pencilin plant	Costaceae	2
2.	Aloe barbadensis miller	aloevera	Liliaceae	15
3.	Origanum vulgare	Caprilla leaf	Asphodelaceae	4
4.	Cinnamomum veram	Dalchina chekka	Lauraceae	1
5.	Phyllanthus officinalis	Amla	Phyllanthaceae	1
6.	Cinnamomum tamala	Bay leaf	Lauraceae	2
7.	Syzygium aromaticum	Clove	Myrtaceae	2

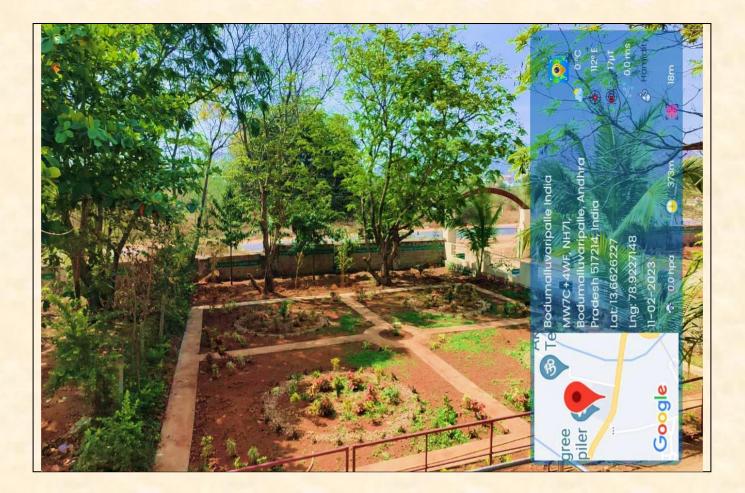
S.G GDC Campus Vegetation

S. No.	Scientific name	Common name	Family	No.
1.	Peltophorumpterocarpum	Yellow flame tree	Caesalpiniaceae	37
2	Terminalia catappa	Indian almond	Combretaceae	3
3	Cocos nucifera	Coconut plant	Arecaceae	7
4	Phoenix roebellenii	Dwart date palm	Arecaceae	2
5	Azadirecta indica	Neem tree	Meliaceae	13
6	Polyathia longifolia	Ashola tree	Annonaceae	13
7	Annona squamosa	Custard apple	Annonaceae	5
8	Tecoma stans	Yellow bells	Bignoniaceae	1
9	Thuja occidentalis	Swamp cedar	Cupressaceae	2
10	Syzygium cumini	Jamun	Myrtaceae	9
11	Millettia pinnata	Karanj,Indian beech	Fabaceae	26
12	Psidium guava	Jam,Yellow guava	Myrtaceae	3
13	Punica granatum	Pomegranate	Lythraceae	1
14	Tamarindus indica	Tamarind,Imali	Caesalpiniaceae	2
15	Manilkara zapota	Sapota	Sapotaceae	1
16	Musa paradisica	Banana	Musaceae	3
17	Senna siamea	Kassod tree	Caesalpiniaceae	18
18	Tectona grandis	Teak	Lamiaceae	27
19	Spathodea campanulata	African tulip tree	Bignoniaceae	1
20	Ficus elastica	Rabber plant	Moraceae	2

TREE SPECIES OF S.G. GOVT. DEGREE COLLEGE, PILER

GARDEN (East)





GARDEN (West)









PATHWAY GARDEN WEST



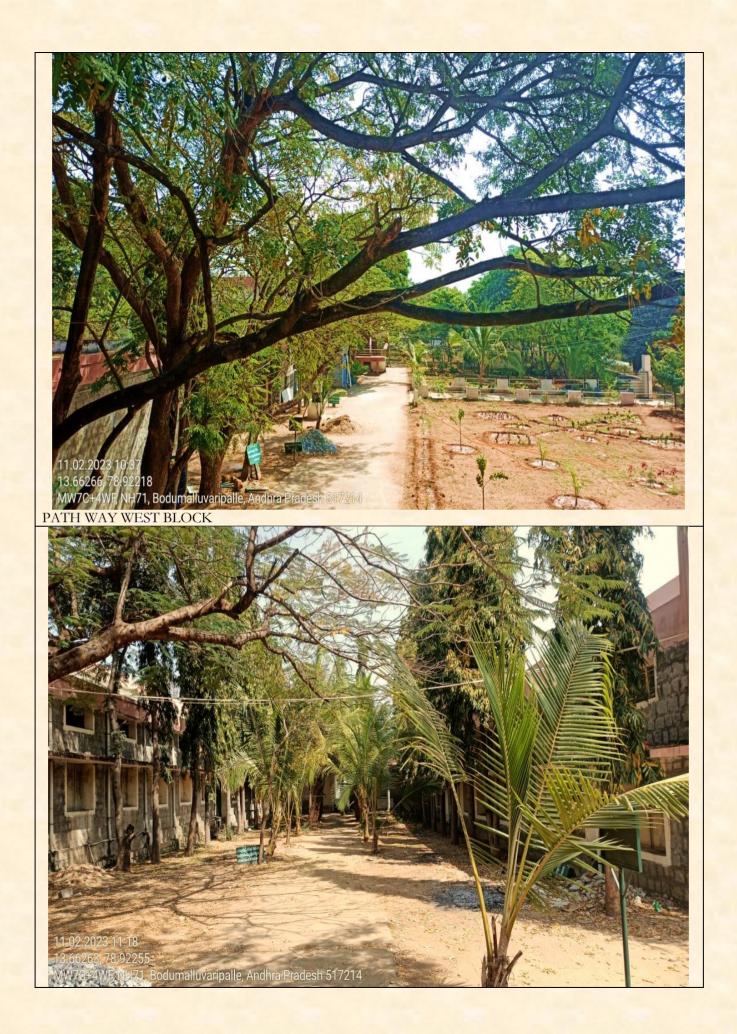
CAMPUS VEGETATION





OPEN AUDITORIUM





GREENERY WEST BLOCK

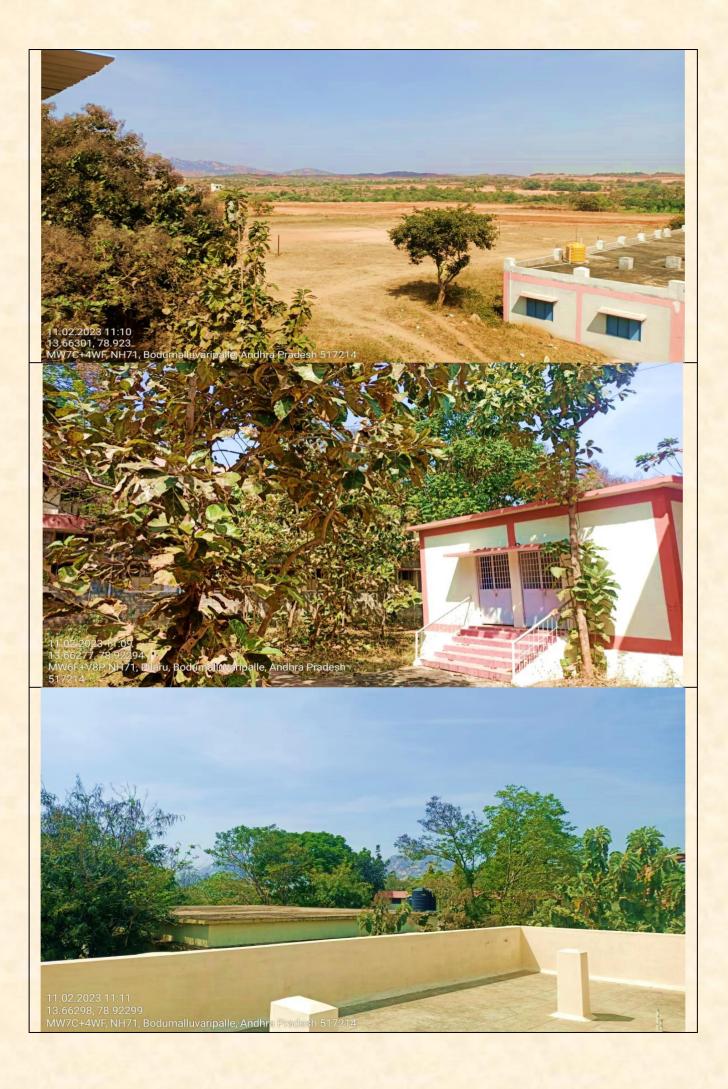




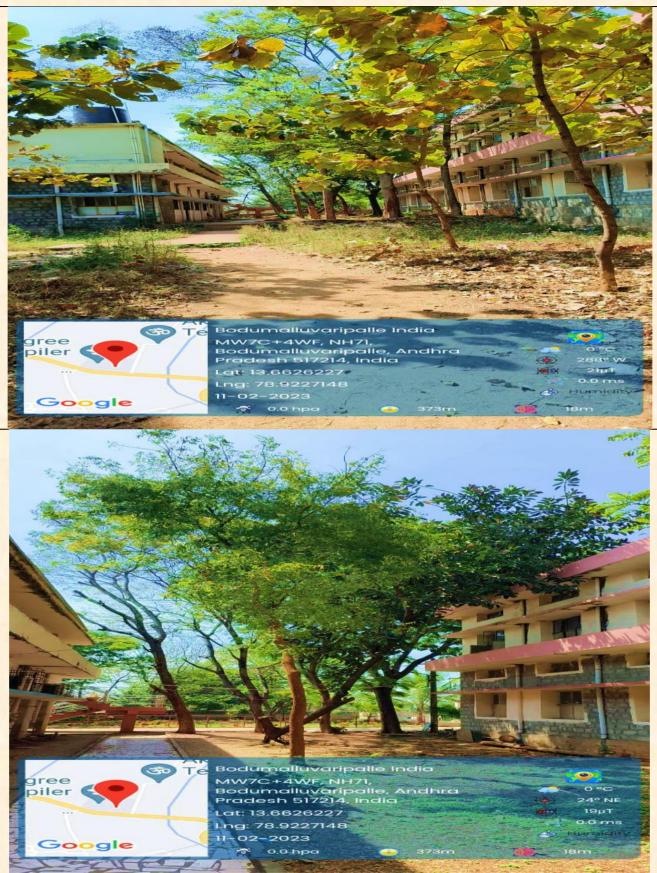


GREENERY TOP VIEW





PATHWAY TOWARDS GROUND









GRID CONNECTED NET METER





	B		
	ANDHRA PRADESH SOUTHERN POW	ER DISTRIBUTION COMPANY LIMITED	
	From	То	
	The Assistant Accounts Officer, Electricity Revenue Office, Piler	The The principal, S.G.Govt. Degree college, Piler.	
	Lr.No.AAO/ERO/CGR/JAO(Billing)/UDC	/F.No./D.No. 73 /2023, dated, 12.02.2023.	
		Net metering Service No.5711308001039-Name of The	
	Principal, Vepulabayulu of Piler Rural Issued - Reg.	Section-Export Units to adjusted and Net Units-Statement-	
10-2	Ref:- Request letter for Consumption Detail	s of Solar Net metering Service, Dated.10.02.2023.	
120	With the reference to the above	cited, The SC NO.5711308001039, Name of The Principal,	
120	SG.Govt. Degreecollege, Piler pertaining to	Rural section Piler. As per our Records from Jan-2020 to Feb-	
		35,247 Units and Export Units are Pumped up to The Grid	
		t Units are pending for payment is 1371 Units of Rs.5128/- is	
	adjusted in the month of February vide RJ. 1	NO.03/02-2023.	
	This is for fav	or of information please.	
		14.	
782.7		ASSISTANT ACCOUNTS OFFICER,	
		Electricity Revenue Office Piler	

After installing 10KV Solar Panel, drastically came down in power bill which is generated by APGENCO, Andhra Pradesh.

RAIN WATER HARVESTING PIT



VERMI COMPOST PIT

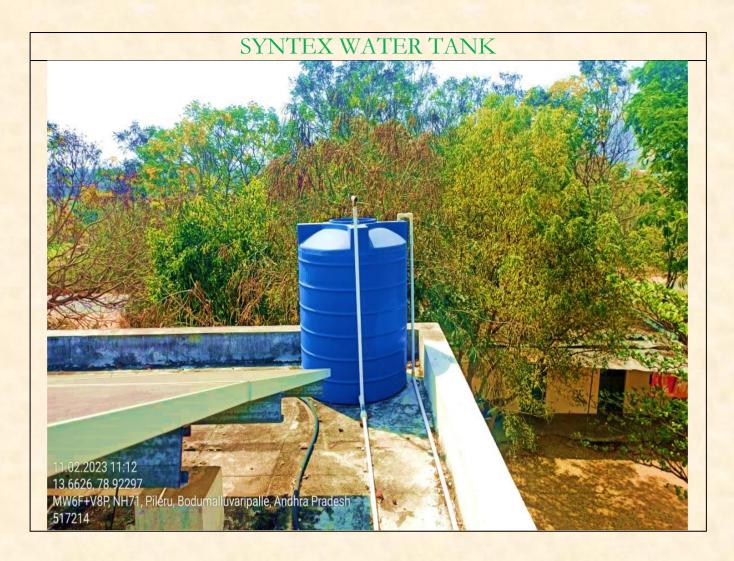
DUST FREE CLASSROOM – DIGITAL WING











AIR QUALITY RATE - WEATHER DATA OF PILER. AND SG GOVERNMENT DEGREE COLLEGE, PILER :

In Piler., the climate is warm and temperate. The summers are much rainier than the winters in Piler. The average annual temperature in Piler is 25.3 °C. and precipitation level is about 643 mm. The driest month is generally February. There is 2 mm of precipitation in February. The greatest amount of precipitation occurs in October, with an average of 143 mm. With an average of 35°C, May is the warmest month. The lowest average temperatures in the year occur in January, when it is around 15.5°C. The precipitation varies 141 mm between the driest month and the wettest month. The variation in temperatures throughout the year is 18 °C.

Climate data for Piler													
Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Average high °C (°F)	27.3 (81.1)	30.2 (86.4)	33.4 (92.1)	34.9 (94.8)	35 (95)	32.1 (89.8)	30.2 (86.4)	30.1 (86.2)	29.9 (85.8)	28.6 (83.5)	26.8 (80.2)	25.7 (78.3)	30.4 (86.6)
Average low °C (°F)	15.5 (59.9)	16.8 (62.2)	19.4 (66.9)	22.2 (72.0)	23.6 (74.5)	22.8 (73.0)	21.8 (71.2)	21.8 (71.2)	21.2 (70.2)	20.2 (68.4)	17.8 (64.0)	15.6 (60.1)	19.9 (67.8)
Average precipitation mm (inches)	4 (0.2)	2 (0.1)	3 (0.1)	28 (1.1)	61 (2.4)	51 (2.0)	81 (3.2)	73 (2.9)	111 (4.4)	143 (5.6)	54 (2.1)	32 (1.3)	643 (25.4)

WEATHER DATA MONTH WISE PILER.

The climatic conditions bear a strong resemblance with the other cities in the northern part of India. The summers are usually very hot and the winters are very cold. The summers are prevalent during the months of April to September with June, July, August till mid-September being the hottest months. The winter is prevalent from the month of November till the month of March.

CLIMATE GRAPH MONTH WISE

IR QUALITY IN PILER AND SG GOVERNMENT DEGREE COLLEGE:

The ambient air quality data for Piler and SG Government Degree College for the last one year shows that there are very less polluted particles in ambient air; AQI for SO₂ & NOx parameters are within the range of Indian living standards, there are a number of factors responsible for this cleanliness, calmness and serenity in this area.

Sl.	PARAMETERS	Unit	Limits as per NAAQS	Result
N				
0.			122.7.1	
1	Particulate Matter (size	$\mu g/m^3$	116	100
	less than 10 μ m) or PM ₁₀	m ³		1100
	Particulate Matter (size	-		
2	less than 2.5 µm) or PM _{2.5}	/	64	60
2		μg/ m ³	04	00
3	Sulphur dioxi	$\frac{\mu g}{m^3}$	13	13
	de concentration			
	Nitrogen	μg/	10	
4	Dioxi	m ³	10	05
	de concentration			
5	Carbon Monoxide (CO)	mg/ m ³	242	10
6	Ozone(O3)	µg/m	88	43

NOISE LEVEL IN THE SURROUNDING OF SG GDC:

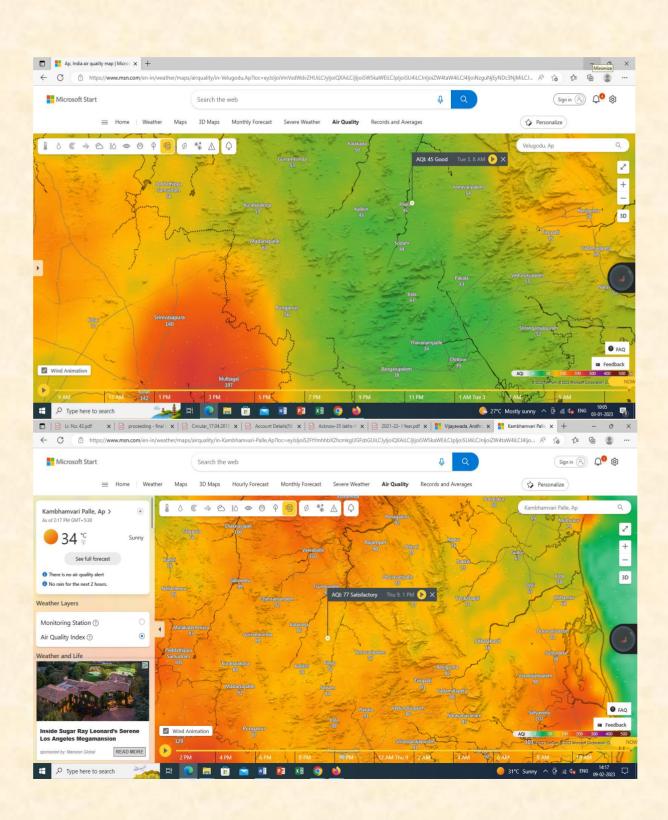
The human ear is constantly being assailed by man-made sounds from all sides, and there remain few places in populous areas where relative quiet prevails. There are two basic properties of sound:

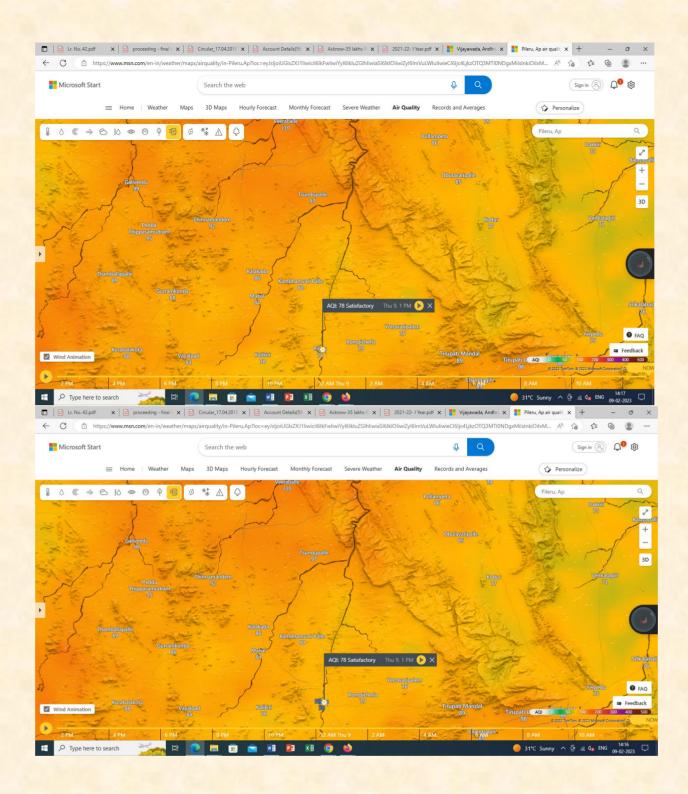
Loudness and Frequency.

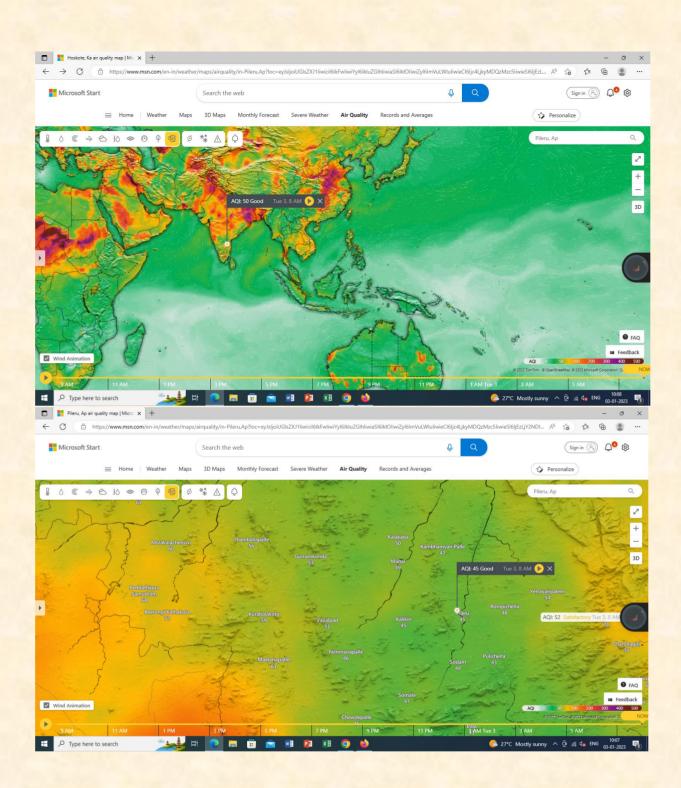
Loudness is the strength of sensation of sound perceived by the individual. It is measured in terms of Decibels. Just audible sound is about 10 dB, a whisper about 20 dB, library place 30 dB, normal conversation about 35-60 dB, heavy street traffic 60-0 dB, boiler factories 120 dB, jet planes during take-off is about 150 dB, rocket engine about 180 dB. The loudest sound a person can stand without

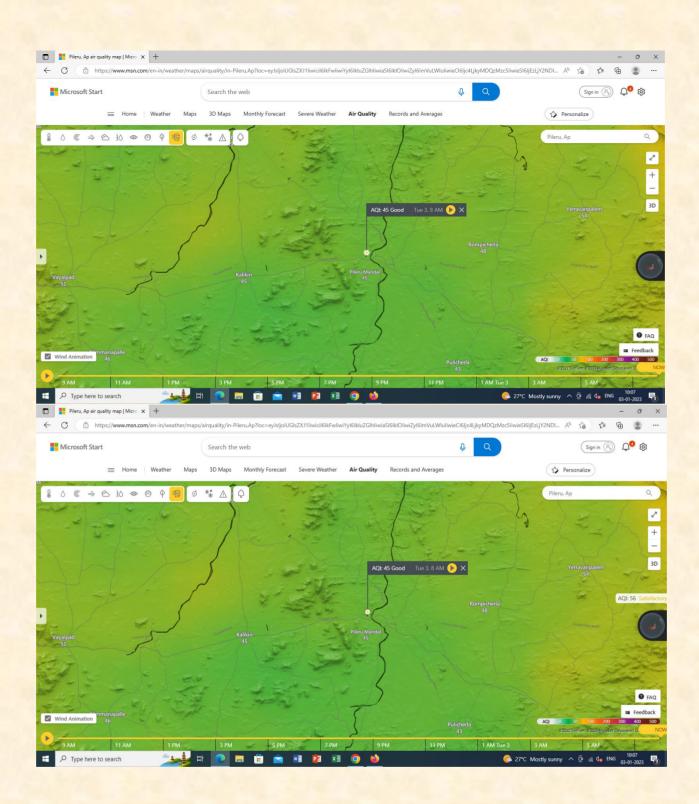
much discomfort is about 80 dB. Sounds beyond 80 dB can be safely regarded as Pollutant as it harms hearing system. The WHO has fixed 45 dB as the safe noise level for a city. For international standards a noise level up to 65 dB is considered tolerate. Loudness is also expressed in sones. One sone equals the loudness of 40 dB sound pressure at 1000 Hz. Frequency is defined as the number of vibration per second. It is denoted as Hertz(Hz).

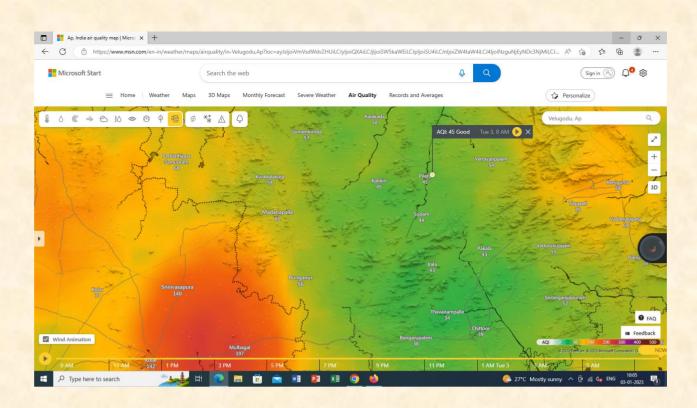
Note: College falls under silence zone. All the values fall within the limits.











WASTE DISPOSAL OF SG GDC:

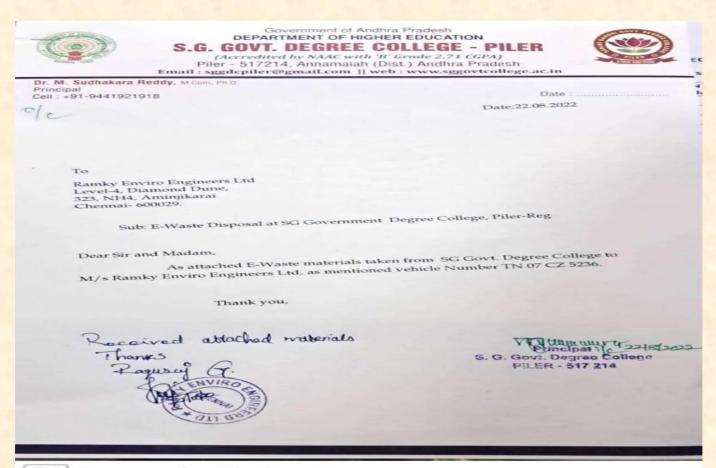
Waste disposal are the activities and actions required to manage waste from its inception to its final disposal. This includes the collection, transport, treatment and disposal of waste, together with monitoring and regulation of the waste management process.

The waste from all around the college is separated daily as wet and dry waste in different bags which are disposed separately. Dry waste includes paper, cardboard, glass tin cans etc. on the other hand; wet waste refers to organic waste such as vegetable peds, left-over food etc. Separation of waste is essential as the amount of waste being generated today causes immense problem. The material was composted and evaluated as a fertilizing material. Disposal of these waste results in the production of good quality organic manure that can be used as soil amendments and source of plant nutrients. With smart initiatives like "Think Green Campus Model", waste management is helping colleges and universities to achieve a higher level of environmental performance. By reusing or recycling we are contributing to the conservation of natural resources, saving energy, helping to protect the environment, reducing landfill. We will also reduce our impact on the environment by minimizing the carbon emissions associated with both disposing of old products and obtaining new ones. SG GDC adopts environment friendly practices and takes necessary actions such as – energy conservation, waste recycling, carbon neutral etc. The biological reusable waste is processed as organic manure for the plants available in the college campus and the other solid waste generated in the college campus is taken to the community bin of Piler. municipality for recycling and disposal.



e - Waste Disposal SG GDC, PILER





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S.G. GOVT DEGREE COLLEGE, PILER

CONSOLIDATED E-WASTE MATERIAL REPORT (As per the stock Register from various departments)
S.NO DESCRIPTION OF THE STOCK PARTY OF THE STOCK REGISTER FOR VARIOUS STOCK PARTY OF THE STOC

	DESCRIPTION OF ARTICLE	NO.OF.	ARTICLE CONDITION	DATE OF	REMARKS
1	Keyboard	UNITS	Damaged/Unused/Outdated	PURCHASE	
2		105	Damaged	19-7-2003	Condemned
3	Mouse	30	Damaged	19-7-2003	Condemned
	Power Supply cable	10	Damaged	19-7-2003	Condemned
4	Mother board	15	Damaged	19-7-2003	
5	CPU	54	We Concerned and the second seco	1915. C. 1999. C. 20	Condemned
6	Monitor		Damaged	19-7-2003	Condemned
7		109	Damaged	19-7-2003	Condemned
8	Speakers	14	Damaged	19-7-2003	Condemned
1.1	Inverter	5	Damaged	12-01-2000	Condemned
9	Ac-input	25	Damaged	12-01-2000	
10	Hard disk	27	Damaged		Condemned
11	Xerox machines	4	New York	28-07-2003	Condemned
12	UPS Batteries		Damaged	12-01-2000	Condemned
	26AH-24	54	Damaged	24-11-2008	Condemned
	12KV-23				
- 1	10KV-01			24-11-2008	
	5KV-06			24-11-2008	
13	Projector screen	1	Damaged	28-07-2003	
14	Printer	4		12-01-2000	Condemned
15	stabilizer		Damaged	12-01-2000	Condemned
	stabilizer	1	Damaged	12-01-2000	
				** 01-2000	Condemned

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					The second se	
16	16		b	28-07-2003	Condemned	
10	CD rom Driver	3	Damaged	197.00	Condemned	
17	Floppy disk drive	2	Damaged	28-07-2003	a dimand	
18		-		14-11-2007	Condemned	
18	LCD	1	Damaged		Condemned	
19	9 Fax-Printer-Scanner	1	Damaged	28-07-2003		
	ocurrici	-				

Runcipat IV

S. G. ORMACIPATER Co PILER - 517 214

College

Convener: Dr.B.Kavitha

Lec. In Computer Application

Member 1: Dr.L.Narayanaswamy TO Multing '

Member 2: Sri Shaik Saifulla Lec. In Physics

Signel

Received above monstroned E-waste Nationals Thanks Regusoj G

VID

CS Scanned with CamScanner

1	Sender's name an	d mailing address (including Phone No.) :	MANIFEST For 6. G. Government Degree Coll		
2	Sender's authoris	ation No , if applicable. :	Piler		
3	Manifest Documer	nt No.:	4448		
4	Transporter's name	and address (including Phone No.):	Ramky Enviro Engineers		
5	Type of Vehicle : (Truck or tanker or Special Vehicle)	95122 79739 Truck		
6	Transporter/s regis	tration No.:	Nil		
7	Vehicle registration	No:	TN 07 CZ 5236		
8	Receiver's name 8	address :	Ramky E Waste Recycling Facility (Ramky Enviro Engineers Ltd), Sy No 1/1, Plot No 25 Hardware park, Maheshwaram(M), RR Dist., 50008		
9	Receiver's authoris	ation No, if applicable.:	TSPCB/16/CFO/RO-RR-I/HO/2016-2595 Date :- 12 . 02 . 2016		
0	Description of E Wa	aste (item, Weight/ Numbers) :	E-Wasta - 1,910 kgs		
	Name and stamp of ser Signature:	nder*(Manufacturer/Producer (or) Bulk Consumer (or	r) <u>Collection Centre</u> (or) <u>Refurbishes</u> (or) <u>dismantler</u>) Day /Month /Year		
1	olynatore.	S. G. Govt. Degree Collette PILER - 517 214	22110912022		
2	Signature:	nsporter acknowledgement of varying of E-Wastes	Day /Month /Year		
_	Name and stamp of R Signature:	eceiver (Collection Contro to) Returbishes (or) D	Dismantler (or) Recycler) ertification of receipt E-Wast Day /Month /Year		
-		42 × 017 50	0		
	number with color code (1)	Purpose (2) To be retained by the sender after taking signature on it from the	e transporter and other three copies will be carried by transporter.		
Contraction of the local division of the loc	y 1 (Yellow)	To be retained by the sender after signature of the transporter			
Cop	y 2 (Pink) y 3 (Blue)	To be retained by the receiver with his/her signature of the re- To be returned by the receiver with his/her signature to the send	ceiver.		

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