

GREEN AUDIT COMMITTEE:

NAME	DESIGNATION
Sri.Dr.MD.Zakirullah	Convener, Principal
Sri. T.Jeevan Kumar	NSS District Officer, HOD Physics
Dr. A.R. Satyavathi	IQAC Coordinator,
Mrs. S. Anjani	HOD English
Dr. Ch. Srinivasulu	HOD Zoology
Dr. G.Valya	HOD Botany
Dr.P.Ramesh	HOD Chemistry
Dr.J.Ramesh	NCC Officer
Dr. Venkanna	NSS PO, Asst Prof of Economics
Dr. Sarveshwarao	NSS PO, Asst Prof of Commerce
G.Surendra Reddy	Green Audit Member, Asst. Prof of Botany

ENERGY AUDIT REPORT									
Sl. No	Electrical appliance	Number	Power/unit	Total power	KW	Operation/ day	KW/Hr	No, of days in month	Total consumption per month
1	Tubes	250	38	9500	9.5	4	38	24	912
2	Fans	220	60	13200	13.2	4	52.8	24	1267
3	LED Bulbs(fied lights)	16	9	144	0.14	6	0.864	30	25.92
4	Air Conditioners	1	7000	7000	7	4	28	24	672
5	Projector	4	280	1120	1.12	1	1.12	25	28
6	Photo copier	2	650	1300	1.3	1	1.3	24	31.2
7	Computer	200	250	50000	50	1	50	10	500
8	Printers	15	60	900	0.9	1	0.6	20	12
9	Fridges	5	150	750	0.75	6	4.5	15	67.5
10	Amplifier	3	100	300	0.3	1	0.3	10	3
11	LCD Television	1	120	120	0.12	1	0.12	10	1.2
12	Water Cooler	2	80	160	0.16	4	0.64	25	16
13	CCTV System	1	15	15	0.02	24	0.36	30	10.8
14	UPS	10	1000	1000	1	1	1	20	20
15	Laminar Air Flow	2	600	1200	1.2	1	1.2	4	8.8
									3575.42

The total energy utilization of the college for different purposes is approximately 3500 units per month. Electricity charges per month are Rs.43000 rupees.

Power Saving Methods Adopted In the College

- Turn off electrical equipments when not in use.
- Maintain appliances and replace old appliances.
- Use computers and electronic equipments in power saving mode
- Energy saving through the replacement of incandescent bulbs, CFL lamps and tube lights to LED light could be a good option.
- Energy efficient electrical equipments especially fans and pump sets can be replaced against old ones.
- Awareness programs for the stakeholders to save energy may also increase sustainability in the utilization of various energy source.
- The college administrative staff should carry out a lock down of the building at the end of every day and switch off any lights or equipment that have been left on.
- The college building is nearly 46 years old, therefore wiring maybe replaced from electricity leakage and to protect college and its appliances from potentially dangerous or expensive damage that may arise due to faulty wiring
- Solar power is a very important energy source in the move to clean energy production.

Air quality determination Air quality index(parameters studied/recorded/seasonal)

NO ₂	14.6ug/m ³ :AQI 18 Good
PM _{2.5}	10.0ug/m ³ AQI 10 Good
SO ₂	10.6 ug/m ³ ,AQI 10 Good
PM ₁₀	50.0 ug/m ³ ,AQI 50,Good
Humidity	66.0
Barometric pressure	1006.0 hpa
Wind speed	5.53m/s
Wind direction	56.0 degree

Date: 05-10-2021. Source: Telangana State pollution control board.

Measurements of Noise Level in and around the College

Sl.No	Place	Measurement duration	Minimum	Maximum	Average
		in seconds	(d BA)	(d BA)	(d BA)
1	Library	120	30	60	45
2	Canteen	120	40	70	55
3	Play Ground	120	45	70	57.5
4	Auditorium	120	40	70	55
5	Science Block	120	30	70	50
6	Arts Block	300	30	70	50

CARBON FOOT PRINT REPORT
For The Academic Year 2020-2021

S.No.	Description	Numerals	
1.	Total number of students and staff	Students	4,183
		Teaching Staff	86
		Non-Teaching Staff	17
		Total	4,287
2.	Total number of vehicles used by the stakeholders		400
3.	Number of bicycles used		60
4.	Number of Two Wheelers used		350
5.	Number of Four Wheelers used		50
6.	Public transport used		3,000
7.	College conveyance used		0
8.	Number of parent – teacher meetings per year (Approximate Parents turn out)		3 (1,200)
9.	Number of visitors with vehicles per day		150
10.	Number of generators used		1
11.	Number of LPG cylinders used		1
12.	Quantity of kerosene used		0
13.	Amount of taxi/auto charges paid and amount of fuel used per month for the transportation of materials for canteen usage		0
14.	Amount of taxi/auto charges paid and amount of fuel used per month for the transportation of office goods		Rs. 18,000/-
15.	Average taxi/auto charges paid by the stakeholders per month		Rs. 60,000/-
16.	Any other fossil fuels used		No
17.	Are the rooms in the campus are well ventilated?		Yes
18.	Window/ Floor ratio of the rooms (Good/Not enough)		Good
19.	Suggestions to reduce the fuel consumption :		

S.No.	Description	Details
1.	Petrol used by Two-Wheelers/day	180 litres
2.	Fuel used by Four-Wheelers/day	50 litres
3.	Common Transportation Fuel/day	300 litres
	Total Fossil Fuel / Day	530 litres
	Total fuel cost per day for transportation (530 litres X Rs. 100/- =53000/-)	Rs. 53,000/-
4.	Cost of transportation of stakeholders per month	Rs. 12,72,000/-

Type of Waste

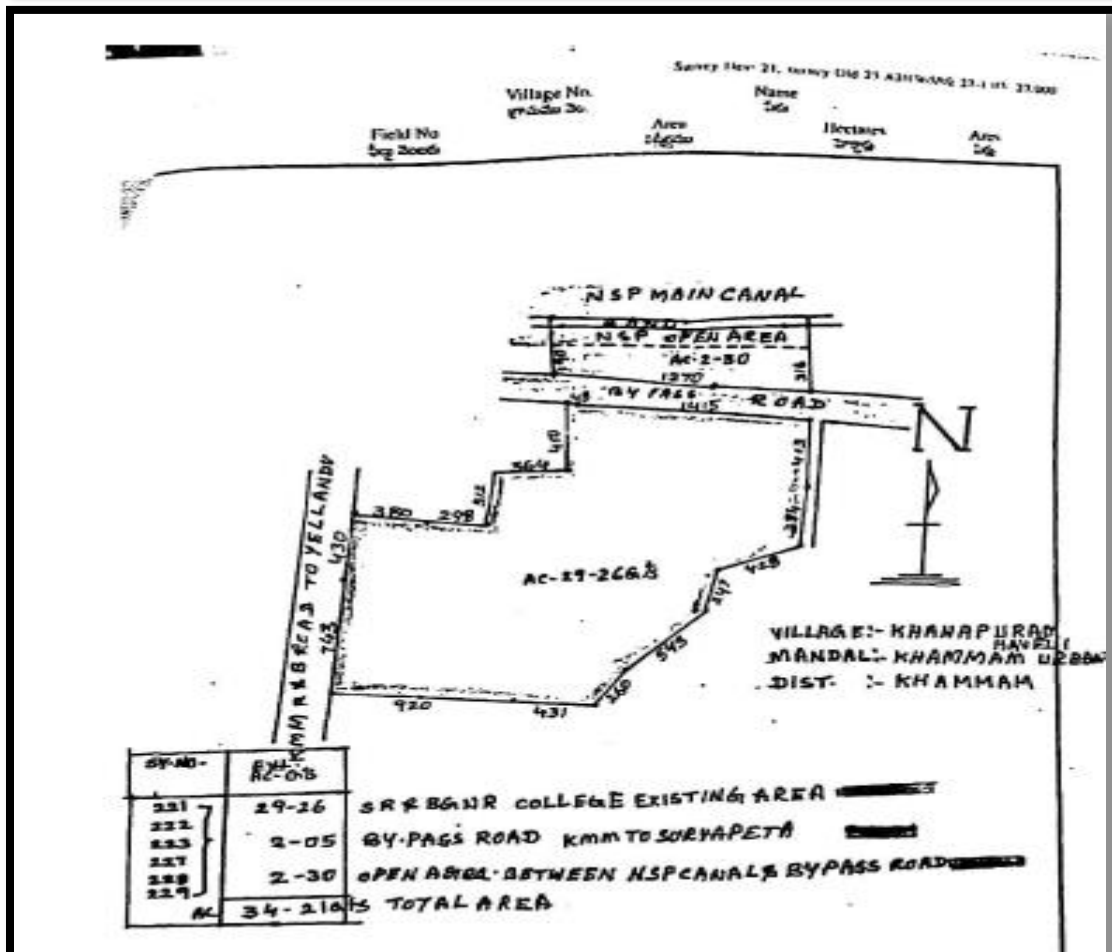
Dry Waste	15kgs
Wet Waste	5kgs per day
Plastic Waste	1/2kg per day
E waste	1/4 per day
Total	20.3/4kgs per day



Students Eco club activities in college premises

FLORA

Plants type	Total Nos
Tree	550
Shrubs	15
Climbers	2
Total	567





Certificate

HYM International Certifications Pvt. Ltd.

Certified that the Environmental Management System of

SR & BGNR GOVERNMENT DEGREE COLLEGE (CO-ED) (A)

Khammam, Telangana State, India

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

ISO 14001 : 2015

for the following scope of certification

IMPLEMENTATION OF GREENERY AND ENVIRONMENTAL PROMOTION ACTIVITIES

Further information about the scope of this certificate and applicability of ISO 14001 : 2015 requirements may be obtained by consulting the organization.

Issue Date : 12/05/2021

Renewal Date : 11/05/2024

1st Surveillance 11/05/2022

2nd Surveillance 11/05/2023



Authorised Signature

Certificate No : **E91864140164**

HYM International Certifications Pvt. Ltd

NOTE: This Certificate is Valid From 12/05/2021 to 11/05/2022

This is an accredited certificate authorized for issue by Accreditation Service for Certifying Bodies (Europe) Limited who have assessed M/s.HYM International Certifications Pvt. Ltd. against defined criteria and in cognisance of ISO 17021:2015 "Conformity Assessment - Requirements for bodies providing audit and Certification of management Systems".

www.hymcertifications.com on for checking the validation of the Certification

Regd. Office : Plot No. 265/C, Addagutta Society, Opp. JNTU, Kukatpally, Hyderabad - 500 072, Telangana State, India.

E-mail: siva@hymcertifications.com, Website: www.hymcertifications.com



COMMISSIONERATE OF COLLEGIATE EDUCATION
GOVERNMENT OF TELANGANA

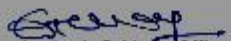


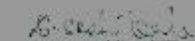
CERTIFICATE
(GREEN, ENERGY and ENVIRONMENT AUDIT)

This is to certify that Environmental, Energy and Green Audit has been conducted at the SR & BGNR
Government Degree College (A), Khammam by
the Green Audit Committee of Telangana State Collegiate Education Department in collaboration with Department of
Environmental Sciences of Osmania University, Hyderabad. The Committee has verified the Green initiatives carried out by the
College and the College has successfully demonstrated knowledge on Energy Conservation, Water Conservation, Bio Diversity,
Waste Management and Carbon footprint.

The Green Audit Committee is pleased to declare the following grades in the following categories for their satisfactory
performance and is valid from August 2021 to July 2022

Green Initiatives -	" A " Grade
Energy Conservation-	" A " Grade
Environmental Protection -	" A " Grade


Academic Guidance Officer
C/o Collegiate Education
Hyderabad


Dr. D. Seshikala
Dept. of Environ. Science
OII, Hyderabad


Dr. A. Vijaya Bhasker Reddy
Dept. of Botany
Nazim College, OU, Hyd.


Dr. A. Nageswara Rao
Dept. of Zoology
Nizam College, OU, Hyd.

Green Audit Complete Report:

https://drive.google.com/drive/u/1/folders/1tKJ-oOjI6d9qz8bh_5ZqAqSzv38MT3Uk