




**GOVERNMENT DEGREE COLLEGE NARSAMPET**  
WARANGAL DISTRICT (RURAL) 506132 TELANGANA  
STATE [wgljkc.nspf@gmail.com](mailto:wgljkc.nspf@gmail.com); Mob.9849551559  
website: <https://www.gdcts.cgg.gov.in/narsampet.edu>



**7.1.6: Quality audits on environment and energy regularly undertaken by the Institution and any awards received for such green campus initiatives:**

Reports on environment and energy audits submitted by the auditing committee

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**Green Audit:**

01	Is there a garden in your college? Area?	:	Yes, 622 Sq. Feets
02	Do students spend time in the garden?	:	1 Hour
03	List the plants in the college, with approx. numbers of each species	:	Table: 01

Table: 01

Sl.No	Scientific Name	Local Name	No.of plants
1	<i>Acalypha wilkesiana</i>	Acalypha	30
2	<i>Albizia lebbek</i>	Dirisena	09
3	<i>Alstonia scholaris</i>	Edakula ponna	18
4	<i>Annona squamosa</i>	seethapalum	10
5	<i>Araucaria araucana</i>	Araucaria	01
6	<i>Azadiracta indica</i>	Vepa	18
7	<i>Bauhinia racemosa</i>	aare	01
8	<i>Borassus flabellifer</i>	Taati	08
9	<i>Breynia disticha</i>	snow bush	08
10	<i>Butea monosperma</i>	Mooduga	02
11	<i>Cycas revoluta</i>	cycas	04
12	<i>Dalbergia sisso</i>	sisoo	03
13	<i>Delonix regia</i>	Gulmohar	04
14	<i>Eucalyptus obtiliqua</i>	Jaamaayal	06
15	<i>Ficus benghalensis</i>	Marri	03
16	<i>Ficus benjamina</i>	Weeping fig	03






17	<i>Ficus racemosa</i>	Medi	02
18	<i>Holoptelea integrifolia</i>	Nemalinara	06
19	<i>Iresine Herbstii</i>	Iresine	20
20	<i>Leucaena leucocephala</i>	Subabul	02
21	<i>Mangifera indica</i>	Mamidi	58
22	<i>Nerium odorum</i>	Ganneru	06
23	<i>Peltophorum pterocarpum</i>	Paccha sunkesula	08
24	<i>Pongamia pinnata</i>	kanuga	189
25	<i>Pseuderanthemum carruthersii</i>	Eranthemum	20
26	<i>Senna auriculata</i>	Tangedu	20
27	<i>Syzygium cumini</i>	Neredu	02
28	<i>Tabernaemontana divericatum</i>	Nadivardanam	06
29	<i>Tecoma trans</i>	paccha pulachettu	01
30	<i>Tectona grandis</i>	Teak	07
31	<i>Terminalia catappa</i>	Baadam	01
32	<i>Thuja occidentalis</i>	Thuja	16
<b>TOTAL</b>			<b>492</b>

04	Suggest plants for your campus. (Trees, vegetables, herbs, etc.)	:	<i>Artocarpus heterophyllus</i>
05	List the species planted by the students, with numbers.	:	248
06	Whether you have displayed scientific names of the trees in the campus?	:	Yes
07	Is there any plantations in your campus? If yes specify area and type of plantation.	:	No
08	Is there any vegetable garden in your college? If yes how much area?	:	No
09	Is there any medicinal garden in your college? If yes how much area?	:	No
10	What are the vegetables cultivated in your vegetable	:	Not Applicable

	garden? (Mention the quantity of harvest in each season)		
11	How much water is used in the vegetable garden and other gardens? (Mention the source and quantity of water used).	:	Not Applicable
12	Who is in-charge of gardens in your college?	:	M Narendar
13	Are you using any type of recycled water in your garden?	:	No
14	List the name and quantity of pesticides and fertilizers used in your gardens?	:	Nil
15	Whether you are doing organic farming in your college? How?	:	No
16	Do you have any composting pit in your college? If yes, what are you doing with the compost generated?	:	Nil
17	What do you doing with the vegetables harvested? Do you have any student market?	:	No
18	Is there any botanical garden in your campus? If yes give the details of campus flora.	:	No
19	Give the number and names of the medicinal plants in your college campus.	:	Nil
20	Any threatened plant species planted/conserved?	:	Nil
21	Is there a nature club in your college? If yes what are their activities?	:	Yes, They are monitoring Plants.
22	Is there any arboretum in your college? If yes details of the trees planted.	:	No
23	Is there any fruit yielding plants in your college? If yes details of the trees planted.	:	58 Mango plants
24	Is there any groves in your college? If yes details of the trees planted.	:	Mango Groves
25	Is there any irrigation system in your college?	:	No
26	What is the type of vegetation in the surrounding area of the college?	:	Dry deciduous



27	What is the nature awareness programmes conducted in the campus?	:	Earth day, Ozone day, World environment day,
28	What is the involvement of students in the green cover maintenance?	:	Students Participated in Telanganaku Haritha Haram (THH) Programme in every year.
29	What is the total area of the campus under tree cover? Or under tree canopy?	:	1 Acre
30	Share your IDEAS for further improvement of green cover	:	To plant more indigenous and fruit trees.

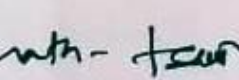
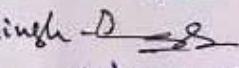
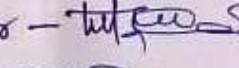


- 1 Dr. A. Srinath - 
- 2 Dr J. Lakshmi - 
- 3 M. Narendar - 
- 4 G. Srinivas - 
- 5 P. Tyagaraj - 



**Principal**  
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**Green audit  
Faunal diversity in college campus**

Faunal group	Scientific Name	Number (if enumeration is done)	seasonality
Spiders	Latrodectus		
Moths & butterflies	Danaus plexippus		
Other insects: (Dragon Flies, Bees, Wasps, Bugs, & Beetles etc..)	Musca domestica ( House fly) Anisoptera (Dragonflies)		
Annelids	1) Lumbricusterrestris (Earthworm) 2) Hirudeneagranulosa (Indian leech)		
Other Arthropods			
Amphibians	Bufo melanostictus (Common Indian toad)		
Reptiles	1) Hemidactylus frenatus (common house gecko) 2) Calotes versicolor (Garden Lizard) 3) Tropidonotus (Pond snake or grass snake) 4) Najanaja (Common cobra)		
Birds	1) Columbalivia (Pigeon) 2) Psittacula (Parrot) 3) Passer domesticus (House Sparrow) 4) Corvus corax (Crow)		
Mammals	1) Macaca (monkey) 2) Rattus rattus (Rat) 3) Mus musculus (House mouse) 4) Chiroptera (Bat) 5) Gray squirrel (Sciurus carolinensis)		

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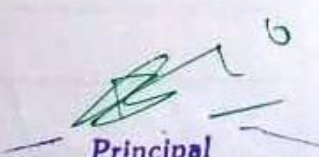
### AUDITING FOR CARBON FOOTPRINT

01	What is the total strength of students and teachers in your College?	No. of Students:-328 No. of Teachers:-15+01 No. of Non-teaching staff:-04 Gents :- 14 Ladies:-06 Total:-20
02	Total Number of vehicles used by the stakeholders of the college. (per day	06
03	No. of cycles used	65
04	No. of two wheelers used (average distance travelled and quantity of fuel and amount used per day)	04
05	No. of cars used (average distance travelled and quantity of fuel and amount used per day)	02
06	No. persons using common (public) transportation (average distance travelled and quantity of fuel and amount used per day)	110
07	No. of persons using college conveyance by the students, non-teaching staff and teachers (average distance travelled and quantity of fuel and amount used per day)	Nil
08	Number of parent-teacher meetings in a year? Parents turned up (approx.)	02 ( 40 approx)
09	Number of visitors with vehicles per day?	14
10	Number of generators used per day (hours). Give the amount of fuel used per day.	01
11	Number of LPG cylinders used in the canteen (Give the amount of fuel used per day and amount spent).	Nil



12	Quantity of kerosene used in the canteen/labs (Give the amount of fuel used per day and amount spent).	Nil
13	Amount of taxi/auto charges paid and the amount of fuel used per month for the transportation of vegetables and other materials to canteen	Nil
14	Amount of taxi/auto charges paid per month for the transportation of office goods to the college.	Nil
15	Average amount of taxi/auto charges paid per month by the stakeholders of the college.	1600
16	Use of any other fossil fuels in the college (Give the amount of fuel used per day and amount spent).	Nil
17	Suggest the methods to reduce the quantity of use of fuel used by the stakeholders/students/teachers/non-teaching staff of the college.	Don't use Bikes/ Vehicles for small distances or unnecessarily, Use bicycles.
18	Are the Rooms in Campus are Well Ventilated? Yes/No	Yes
19	Window Floor ratio of the Rooms Good/Not Enough	Good

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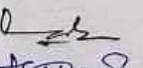
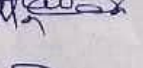
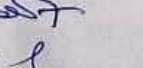




**AUDITING FOR WATER MANAGEMENT**

01	List out uses of water in your college.	Drinking,Gardening,Toilets,Laboratories.
02	What are the sources of water in your college?	Well, Hand Pump, Municipality tap.
03	How many wells are there in your college?	01
04	No. of motors used for pumping water from each well?	03
05	What is the total horse power of each motor?	01-5hp,02-0.5hp.
06	What is the depth of each well?	70 ft.
07	What is the present depth of water in each well?	65 ft
08	How does your college store water?	Overhead tanks & Sump.
09	Quantity of water stored in your overhead water tank? (In liters)	5000L
10	Quantity of water pumped every day? (In liters)	2800L
11	If there is water wastage, specify why.	No
12	How can the wastage be prevented / stopped?	Nil
13	Locate the point of entry of water and point of exit of waste water in your College.	Open Well & Underground sewage Sump.
14	Where does waste water come from?	Laboratories & Toilets.
15	Where does the waste water go?	Soaking Pits.
16	What are the uses of waste water in your college?	No
17	What happens to the water used in your labs? Whether it gets mixed with ground water?	no
18	Is there any treatment for the lab water?	Simple treatment
19	Whether green chemistry methods are practiced in your labs?	Yes
20	Write down four ways that could reduce the amount of water used in your college.	1. Leakages are stopped by repairing. 2. Taps are fitted wherever it required.
21	Record water use from the college water meter for six months.	No
22	Bimonthly water charges paid to water connections if any	300
23	No. of water coolers. Amount of water used per day? (in liters)	Nil
24	No. of water taps. Amount of water used per day?	25, 800L
25	No. of bath rooms in staff rooms, common, hostels. Amount of water used per day?	02 150L
26	No. of toilet, urinals. Amount of water	Toilets-05



	used per day?	Urinals-11 1200L
27	No. of water taps in the canteen. Amount of water used per day?	Nil
28	Amount of water used per day for garden use.	450L
29	No. of water taps in laboratories. Amount of water used per day in each lab?	06 15L
30	Total use of water in each hostel?	Nil
32	Is there any water used for agricultural purposes?	Nil
33	Does your college harvest rain water?	Yes
34	If yes, how many rain water harvesting units are there? (Approx. amount)	02
35	How many of the taps are leaky? Amount of water lost per day?	06 02L
36	Are there signs reminding people to turn off the water? Yes / No	Yes
37	Is there any waterless toilets?	No
38	How many water fountains are there?	Nil
39	How many water fountains are leaky?	Nil
40	Is drip irrigation used to water plants outside? YES/NO	No
41.	How often is the garden watered?	Once for Two days
42	Quantity of water used to watering the ground?	450L
43	Quantity of water used for bus cleaning? (Liters per day)	NIL
44	Amount of water for other uses? (Items not mentioned above)	NO
45	Area of the college land without tree/bujlding canopy.	08 Acres
46	Is there any water management plan in the college?	Yes
47	Are there any water saving techniques followed in your college? What are they?	1. Leakages are stopped by repairing. 2. Taps are fitted wherever it required.
48	Please share Some IDEA for how your college could save more water.	By creating awareness among the children about conservation of water.

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### Water Management.

SL NO	PARAMETERS	Response	Remarks
1	Source of water	Well, Hand pump, Municipality Tap	
2	No. of Wells	01	
3	No. of motors used	03	
4	Horse power - Motor	05hp	
5	Depth of well - Total	70 ft	
6	Water level	48ft	
7	Number of water tanks	02	
8	Capacity of tank	5000L	
9	Quantity of water pumped every day	2800L	
10	Any water wastage/why?	No	
11	Water usage for gardening	450L	
12	Waste water sources	Labs, Toilets.	
13	Use of waste water	Nil	
15	Whether waste water from labs mixed with ground water	No	
16	Any treatment for lab water	Simple treatment	
17	Whether any green chemistry method practiced in labs	Yes	
18	No. of water coolers	00	
19	Rain water harvest available?	Yes	
20	No. of units and amount of water harvested	02 &	
21	Any leaky taps	yes	
22	Amount of water lost per day	02L	
23	Any water management plan used?	Yes	
24	Any water saving techniques followed?	Yes	
25	Are there any signs reminding peoples to turn off the water?	Yes	

1. Dr. A. Srinath - ~~10/11/20~~

2. Dr. J. Lakshminarayana - ~~10/11/20~~

3. M. Narendar - ~~10/11/20~~

4. G. Srinivas - ~~10/11/20~~

5. P. Tyagaraj - ~~10/11/20~~



Principal

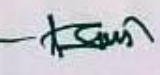

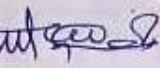
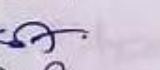
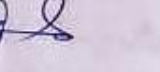
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MARSAPET, Warangal, Dist. Warangal, TS.



### Results of water quality

Parameters	Bore Well water	Municipal Tap water	Standard value (BIS)
Dissolved Oxygen (mg/l)	7.0	6.5	6-8
Acidity (mg/l)	200	180	200
Alkalinity (mg/l)	185	200	200
Chloride (mg/l)	250	200	250
Hardness (Total)	200	190	200
Conductivity ( $\mu$ s)	1.5	0.9	
Ph.	7.6	7.0	6.5-8.5
Total Dissolved Solids (ppm)	500	450	500
Salinity (ppt)	1.5	0.8	
Total coliform	0	0	0
Fecal coliform	0	0	0

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**Air quality Determination:**

**Air Quality Index (parameters studied/recorded/ Seasonal):**

NO <sub>2</sub>	1.94 ppb
NO	0.21 ppb
O <sub>3</sub>	28.25 ppb
PM2.5	7.18 ub/m <sup>3</sup>
PM10	12.08
CO	173.3 ppb
Humidity	61%
Barometric Pressure	1002 mBar
Wind Speed	5.65 m/s
Wind Direction	north

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## Measurements of Noise level in and around the college

S.No	place (S)	Measurements (Duration in seconds)	Minimum (dBA)	Maximum (dBA)	Average (dBA)
1	Library	15	32	58	45
2	Canteen	----	----	----	----
3	Play ground	20	44	72	58
4	Auditorium	20	36	58	47
5	Science Block (i) Botony	15	30	54	42
	(ii) Zoology	15	32	56	44
	(iii) Chemistry	15	34	60	47
	(iv) Physics	15	30	58	44
	(v) Computer Lab	15	30	54	42
6	Virtual Classroom	15	32	62	47

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## Energy Audit Report

Sl. No	Electrical appliances/instruments	Number	Power (W)/unit	Total power (W)	kW	Operation /day	kW/hr	No. of days in month	Total consumption per month
1	CFL	00	00	00	00	00	00	00	00
2	TUBE	115	36	4140	4.14	3	12.42	20	248.4
4	LED BULB	25	9	225	0.225	3	0.675	20	13.5
5	LED TUBE	00	00	00	00	00	00	00	00
6	PROJECTOR	11	280	3080	3.08	1	3.08	05	15.4
7	SPEAKERS	07	100	700	0.7	1	0.7	04	2.8
8	FAN	104 (working-70)	60	4200	4.2	05	21	20	420
9	COMPUTER	75(working-25)	250	6250	6.25	3	56.25	20	375
10	LAPTOPS	04	50	200	0.2	1	0.2	05	1.00
11	PRINTERS	06	60	360	0.36	1	0.36	15	5.4
12	PHOTOSTAT MACHINE	02	650	1300	1.3	1	1.3	10	13
13	SCANNER	04	50	200	0.2	1	0.2	10	2.00
14	UPS	09	1000	2000	2.0	10	20	20	400
15	INDUCTION	00	00	00	00	00	00	00	00
16	A/C	05(working-02)	1460	2920	2.92	2	5.84	10	58.4
17	REFRIGERATOR	06 (working-04)	100	400	0.4	24	9.6	30	288
18	TABLE FAN	03	50	150	0.15	1	0.15	15	2.25
19	MIXER GRINDER	00	00	00	00	00	00	00	00
20	OVEN	02	1200	2400	2.4	1	2.4	05	12.00



22	CENTRIFUGE	05	750	3850	3.85	0.25	0.9625	07	6.7375
23	AUTOCLAVE	00	00	00	00	00	00	00	00
24	ULTRASOUND	00	00	00	00	00	00	00	00
25	LAMINAR FLOW	00	00	00	00	00	00	00	00
26	EXHAUST FAN	00	00	00	00	00	00	00	00
27	IRON BOX	00	00	00	00	00	00	00	00
28	SEWING MACHINE	00	00	00	00	00	00	00	00
29	COLOUR BULB	00	00	00	00	00	00	00	00
30	INCUBATOR	00	00	00	00	00	00	00	00
31	DISTILLATION UNIT	01	1000	1000	1.0	0.5	0.05	05	0.25
33	CCTV DVR	01	10	10	0.01	24	0.24	3	7.2
	<b>Total</b> Consumption per month								<b>1119.05</b>

1. Dr. A. Srinuth - ~~\_\_\_\_\_~~
2. Dr. J. Lakshminarayana - ~~\_\_\_\_\_~~
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