



GREEN SCHOOLS PROGRAMME

Responses for Green Schools Programme Audit 2016

School Name: KENDRIYA VIDYALAYA,
MACHILIPATNAM

Address: GOPAL NAGAR , BY PASS ROAD,
MACHILIPATNAM, Krishna, Andhra
Pradesh, India

Coordinator Name: Malathi Annaldas



AIR



ENERGY



FOOD



LAND



WATER



WASTE

Green Schools Programme

Centre for Science and Environment

41, Tughlakabad Institutional Area, New Delhi. India - 110062

Tel: +91-11 29955124, 29956110, 40616000

<http://www.greenschoolsprogramme.org/>

SCHOOL PROFILE

1

Name of the School / Institution

KENDRIYA VIDYALAYA, MACHILIPATNAM

2

Address

GOPAL NAGAR , BY PASS ROAD, MACHILIPATNAM, Krishna, Andhra Pradesh, India

3

Telephone Number (Landline Number with STD code)

(ISD) 91 (STD) 08672 (NUMBER) 231163

4

Mobile Number (Mobile Number with STD code)

(ISD) 91 (Number) 8978243067

5

Principal Name

V V A BHASKARA MURTY

6

GSP Coordinator Name

Malathi Annaldas

7

GSP Coordinator Email

annaldas16@gmail.com

8

GSP Coordinator Mobile Number

(ISD)91 (Number) 8099462660

9

Category Of The School

Day Scholar

10

School Shifts

Morning

GENERAL QUESTIONS

1

How many levels does your school have?

Lowest level of grade:1

Highest level of grade:10

2

Is your school single gender or mixed gender?

Mixed/Co-education

3

Which board of education does the school follow?

Central Board of Secondary Education

4

Total permanent population of the school

	Male	Female	Total
Students	334	308	642
Teachers	15	9	24
Non-Teaching Staff	6	5	11
TOTAL	355	322	677

4(b)

How many visitors visit your school

450

5

What is the total number of working days of your school in a year?

220

6

Month(s) in which the GSP audit was carried out?

Nov

7

Where is the school located?

Urban Area



AIR

Task 1: Air Audit Team

Teachers

Sno.	Name	Email
1.	MR.V H K K GUPTA	MR.V H K K GUPTA

Administrative staff

Sno.	Name	Email
1.	MR. SANJAY KUMAR YADAV	sanjay yadav197846@yahoo.com

Students

Sno.	Name	Email	Grade/Class
1.	SRI KRISHNA		10
2.	MANIKANTA		10
3.	PAVITRA		10
4.	SOUDAMINI		9
5.	BHAVITHA		9

Task 2: Are the rooms in your school well-ventilated?

1 How many classrooms does your school have?

16

2 Window-floor ratio of classrooms in the school.

Details of the classroom (e.g. Class II section b)	X = Area of floor (LxB)	Y = Area of openings (LxH)	Percentage of the floor area being ventilated (Y/X x 100)
I A	49.00	9.40	19.18
II A	49.00	9.40	19.18
III A	49.00	9.40	19.18
IV A	49.00	9.40	19.18
V A	49.00	9.40	19.18

VI A	49.00	7.70	15.71
VII	49.00	7.70	15.71
VIII	49.00	7.70	15.71
IX	49.00	7.70	15.71
X	49.00	7.70	15.71
TOTAL	490.00	85.50	

Task 3: How eco-friendly are the vehicles in your school?

3

What is the ownership used by the vehicles used in your school? Please choose what is applicable?

School does not use or own vehicles

Task 4: How do you travel to school every day?

4

How many members of the school community use each type of transport:

	Students	Teaching Staff	Non Teaching Staff	Total
Schoool Bus	0	0	0	0
Public Bus	0	1	1	2
School Transport(Other than bus)	0	0	0	0
Public transport (other than bus, Metro, car pool)	0	0	0	0
Taxi four-wheeler	0	0	0	0
Taxi three-wheeler	385	2	0	387
Personal four-wheeler	2	0	0	2
Personal two-wheeler	0	16	2	18
Bicycle	193	0	3	196
On foot	62	5	5	72
Others (non-motorised)	0	0	0	0
SUB-TOTAL	642	24	11	677

Task 5: How good is the air you breathe in your school?

5

How many students suffer from respiratory ailments ?

0

6

Does the school laboratory have air quality monitoring equipment?

No

No documents uploaded by the school.

6(a)

If No, is there an air quality monitoring station (private or government) close to your school?

No



ENERGY

Task 1: Energy Audit Team

Teachers

Sno.	Name	Email
1.	MRS. MALATHI ANNALDAS	annaldas16@gmail.com

Administrative staff

Sno.	Name	Email
1.	MR. SANJAY YADAV	sanjay yadav 197846@yahoo.com

Students

Sno.	Name	Email	Grade/Class
1.	CH VIRAJ		9
2.	SOUDAMINI		9
3.	LIKHITH SRI SAI		9

Task 2: How much energy does your school consume?

1 Does your school have access to an electricity bill?

Yes

Supporting Documents

1. ELE.BILLS.jpeg

2 Does your school have its own vehicles?

No

3 Provide the details of total energy consumed by the school

	Quantity consumed/monthly average	Energy consumed in Megajoules (MJ)	Type of use
Electricity from the board (kwh)	2315	8334.00	1

Electricity from generator (diesel) (litres)	0	0.00	0
Petrol (litres)	0	0.00	0
Diesel (litres)	0	0.00	0
CNG (kilogrammes)	0	0.00	0
Kerosene (litres)	0	0.00	0
Coal (kilogrammes)	0	0.00	0
Wood (kilogrammes)	0	0.00	0
Animal waste (kilogrammes)	0	0.00	0
Solar (kwh)	0	0.00	0
Wind (kwh)	0	0.00	0
LPG (kilogrammes)	3.5	180.60	5
Piped Natural Gas (kilogrammes)	0	0.00	0
TOTAL	2318.50	8514.60	

Supporting Documents

1. ELE.BILLS.jpeg

4

What appliances does your school have?

	Number	Size	BEE Star Rating
Air Conditioners	3	2	NO
Refrigerator	1	160	NO
Microwave	0	0	0
Tube Lights	230	40	NO
CFL Bulbs	0	0	0
LED Lights	0	0	0
Fans	160	70	NO

No documents uploaded by the school.

Task 3: Is your school using any renewable sources of energy?

5

What is the average number of sunny days in your area?

300

6

Are there any alternate sources of energy employed/ installed in your school?

No

No documents uploaded by the school for energy chapter.



FOOD

Task 1: Food Audit Team

Teachers

Sno.	Name	Email
1.	MR. MADAN LAL PATEL	madanmgar@gmail.com

Administrative staff

Sno.	Name	Email
1.	MR SANJAY KUMAR YADAV	sanjay yadav197846@yahoo.com

Students

Sno.	Name	Email	Grade/Class
1.	B C MOWNIKA		9
2.	KOTESH NAG		9
3.	BHUVANESH		9
4.	ADITYA		10
5.	SRI SHIVANI		10

Task 2: Find out about the food service in your school.

1 Does your school have a provision/space to sell packaged food items within the campus

No

2 Does your school serve midday meals?

No

2(a) Do students bring their own lunch from home?

Yes

Supporting Documents

1. lunch.jpg

2(a)(1) How many students out of total student population bring home-made lunch?

642.00

2(a)(2) Of the students who bring lunch from home, how many bring packaged food?

0.00

2(a)(3) Do teachers have the responsibility to ensure that students are carrying lunch from home?

Yes

Task 3: What kind of food is served/sold in your school

3 What kind of food is being served / sold in your school

	Please count all flavours/variants available in the school canteen separately	Total number of items sold in a month in the canteen	Month the food items were sold in
Savoury snacks and similar packaged food like chips, Kurkure, Cheetos, potato crisps, corn snacks, nuts and seeds, etc	0	0	0
Instant Noodles like Knorr, Cup-a-noodles, Top Ramen, Wai-wai, Yippee, Foodles, Maggi, etc	0	0	0
Potato fries and Burgers	0	0	0
Confectionery items (chocolate, candies, gums)	0	0	0
Ice-cream	0	0	0
Carbonated beverages	0	0	0
Sugar sweetened noncarbonated beverages	0	0	0
Packaged/Bottled Nimboo Paani/ Lassi/ Flavoured milk	0	0	0
Packaged/Bottled Energy Drinks	0	0	0

No documents uploaded by the school.

4 Does your school serve traditional Indian snacks?

No

5

Does your school serve traditional Indian beverages?

No

Task 4: What kind of food does your school promote?

6

Does the school distribute packaged food items as rewards during schools events?

No

7

Does the school distribute chocolates/similar products as refreshments during schools events?

Yes

7(a)

Please provide the names?

GOOD DAY,MUNCH,PERK

8

Are your school events such as quiz shows, talent shows, debates sponsored by food companies/brands?

No

No documents uploaded by the school.



LAND

Task 1: Land Audit Team

Teachers

Sno.	Name	Email
1.	MR S B K RAJULU	sbalakrishnarajulu@gmail.com

Administrative staff

Sno.	Name	Email
1.	SANJAY KUMAR YADAV	sanjay yadav197846@yahoo.com

Students

Sno.	Name	Email	Grade/Class
1.	LOCHAN RUSHI		10
2.	TEJA PRATAP		10
3.	YESWANTH		9

Task 2: Measure the four critical areas of your school campus

1

Complete the table:

	Your school's area
Site area in square meter (m ²)	56,656
Ground coverage area	20,000
Green landscaped area on-ground	900
Surface parking area	0
Play area that is paved/ concrete on ground	4,200
Play area that has grass on ground	15,800
Service Area on ground	16
Roof and terrace area	1,078
Green cover on exposed roof & terrace	0
Total built up/constructed area	13,750

Total no. of floors	3
Others	0

Task 3: Explore the number of species of plants and animals in your school

3

How many species of plants and animals exist in your school?

	Native	Exotic	Total
Plants	30	0	30
Animals	3	1	4

Task 4: Find out if your school uses pesticides

4

Do you use chemical based pesticides in your school green cover?

No

No documents uploaded by the school.



WATER

Task 1: Water Audit Team

Teachers

Sno.	Name	Email
1.	MR V H K K GUPTA	vhkk2gupta@yahoo.co.in

Administrative staff

Sno.	Name	Email
1.	SANJAY KUMAR YADAV	sanjay yadav197846@yahoo.com

Students

Sno.	Name	Email	Grade/Class
1.	VINEELA		10
2.	JAHRA		10
3.	VAMSI		9
4.	POORNA		9

Task 2: How much water does your school use?

1

Calculate your school's water consumption, per activity.

Activity	Total Quantity (litres per day)
Drinking	800
Toilet flushing	1500
Personal cleaning	750
Washing clothes	2
Cooking	3
Cleaning Utensils	5
Washing Vegetables	0
Mopping floors	30
Gardening	500

Total	3590
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Task 3: What are the sources, supply and storage of water in your school

- 2 Where does the water your school uses, come from?
Surface water
- 3 Who supplies the water in your school?
Municipality
- 4 Does your school get daily water supply?
Yes
- 4(a) If supply of water is daily, please tick the correct option
2-6 hours

Task 4: What are the water conservation practices followed in your school?

- 5 What are the water conservation practices your school follows.

	Yes / No
Does your school have any water and sanitation policy?	Yes
If your school has an eco-club, do they have water component?	Yes
Do all tanks in the school have float valves installed to stop overflow?	Yes
Do the drinking water points have spill proof taps to check overflow?	Yes
Does your school use appliances with a quick-wash setting?	Yes
Are dual flush systems installed in the toilets?	Yes
Does your school encourage bottled water for drinking water?	Yes
Does your school grow local plant species which require limited amount of water to grow?	Yes
Has your school initiated any water conservation steps in the school or outside, in the past one year?	Yes
Does your school use a drip or irrigation system?	No
Any other step taken for water conservation? (if Yes, please specify)	Yes

No documents uploaded by the school.

Task 5: Does your school harvest rainwater?

6

Do you have Rainwater harvesting (RWH) system in your school?

Yes

6(a)

Does your school harvest different catchments?.

Yes

6(a)(1)

Which is the catchment area being harvested by your school?

Rooftop

6(b)

How does your school harvest rainwater?

By recharging groundwater

6(b)(1)

Does your school have groundwater recharge structure?

Yes

6(b)(1)(i)

Please share the total number of groundwater recharge structures

1.00

6(b)(1)(ii)

Please tick the type of groundwater recharge structure used in your school:

Recharge pits

6(c)

How much area in your school is harvested?

21 to 30 per cent

6(d)

Please select (from the list given below) the rainwater harvesting structures present in your school

Conduits, Collection sump, Recharge structure

6(e)

Rate your catchment on cleanliness:

Good

No documents uploaded by the school.

6(f)

Does your school clean your catchment and system (structure?)?

Yes

6(f)(1) Please specify when does your school clean the catchment and RWH system?

Pre-monsoon

6(g) Does your school monitor the rainwater harvesting structure for its efficiency?

Yes

6(g)(1) Please specify when does your school monitor the groundwater level?

Pre-monsoon

6(h) What is the trend of groundwater level in your school across the year?

If there was an increase, please specify

6(h)(1) Please specify how much was the increase?

Less than a metre annually

6(i) If your school's RWH structure is more than a year old, is there any improvement in the groundwater quality after the implementation of the RWH structure?

Yes

Task 6: Are the plumbing and sanitation facilities in your school adequate?

7 Please share details about sanitation and hygiene practices in your school.

	Yes / No
Does the school have separate toilets for males and females?	Yes
Are there sufficient toilets for women in your school?	Yes
Are there sufficient toilets for men in your school?	Yes
Are the toilets accessible and safe to use for children?	Yes
Are the toilets accessible and safe to use for differently abled children?	Yes
Are the toilets accessible and safe to use for differently abled staff (teaching and non-teaching)?	Yes
Are the toilets situated in the right location in terms of privacy and safety?	Yes
Is there sufficient light during day time?	Yes

8 How many drinking water taps do you have?

6

9 How many hand pumps do you have?

0

10 How many ablution taps (taps used for washing hands only) do you have?

16

11 How many water closets (used for defecation and urination) do you have?.

	Girls	Boys	Common	Total
Number of toilets	25	24	0	49

12 How many urinals (strictly used for urination only) do you have?

25

13 How many other water outlets (example: taps in play fields, sprinklers, swimming pool) do you have?

1

14 Is there a water storage system in place to supply water in the toilets?

Yes

15 Is the water supply sufficient?

Yes

16 Are the toilets cleaned?

Yes

16(a) If yes, please specify

Twice a day

Task 7: Does your school reuse/recycle waste water?

17 Does your school treat wastewater?

No

18 Does your school reuse the treated wastewater?

No

18(a) Please specify the fate of wastewater

Wastewater flows directly to the drains

No documents uploaded by the school.



WASTE

Task 1: Waste Audit Team

Teachers

Sno.	Name	Email
1.	MRS MALATHI ANNALDAS	annaldas16@gmail.com

Administrative staff

Sno.	Name	Email
1.	MR SANJAY YADAV	sanjay yadav197846@yahoo.com

Students

Sno.	Name	Email	Grade/Class
1.	JAI SAI SREE		10
2.	LIKHITA		9
3.	BHARGAV		10
4.	HIMAVANTH		9

Task 2: What is the waste segregation system in your school?

1 Does your school segregate solid waste?

Yes

1a Who segregates the waste at source?

1. Housekeeping (Sweeper)

2 Waste collection points in your school.

	Total No. of collection points	No bin	One bin	Two bins (wet & dry)	Three bins or more
Classrooms	16	0	16	0	0
Playgrounds	2	0	2	0	0
Common area (e.g. reception, corridors)	7	0	4	3	0

Staffroom	1	0	1	0	0
Laboratory	8	0	8	0	0
Canteen	0	0	0	0	0
Clinic/ Sick room	1	0	1	0	0
Library	1	0	1	0	0
Toilets	17	0	17	0	0
Others	0	0	0	0	0
Total	53	0	50	3	0

No documents uploaded by the school.

Task 3: How much waste does your school generate?

3

Determine the quantity of waste generated in your school. (in kilogram)

	Collection per month (Frequency may differ)
Garden/ horticulture waste	60
Kitchen waste	0
Paper	30
Plastic	5
Wood, glass, metal, classroom furniture	5
E-waste	2
Biomedical waste	1
Sanitary waste	2
Construction and Demolition (C & D) waste	1
Hazardous waste	0
Total Generated Solid Waste (in kilogram)	106

No documents uploaded by the school.

Task 4: How much waste does your school recycle/treat?

4 Does your school recycle any generated waste?

No

5 Does your school have a composting facility?

No

6 Does your school encourage students & teachers to reuse textbooks?

Yes

7 Table to understand whether internal or external waste recycling procedures are applied to waste.

	Local kabadiwala (the scrap collector)	Authorised dealer	Dumped at a designated community site	Internal procedure
Paper (e.g., used notebooks, used examination paper, subscription newspaper and magazines)	✓	✗	✗	✗
Plastic (e.g. plastic bottles)	✓	✗	✗	✗
Horticultural waste	✓	✗	✗	✗
E-waste (e.g. broken, unusable computers)	✗	✓	✗	✗
Hazardous waste (e.g. diesel fuel, battery)	✓	✗	✗	✗
Wood,glass, metal scrap, other scrap	✓	✗	✗	✗
Biomedical waste (e.g. waste from Nurse's room in school, e.g. band-aids, syringe)	✗	✗	✗	✓

No documents uploaded by the school.

Task 5: How does your school dispose waste?

8 What is the final destination for waste that is disposed of externally?

Designated dumping site (Dhalao)

No documents uploaded by the school.

9

Does your school burn waste?

Yes

No documents uploaded by the school.

9a

Where does your school burn waste?

Inside the school

9b

What kind of waste is being burnt/ incinerated?

Plastic

10

Does your school have the following? If yes, please give the numbers.

	Total	Working conditions	Non-working condition
TVs	1	1	0
VCR or DVD players	2	1	1
Refrigerators and freezers	1	1	0
Washing machines	0	0	0
Air conditioners	3	3	0
Heaters	0	0	0
Microwaves	0	0	0
Ovens	0	0	0
Toasters	0	0	0
Electric Kettles	0	0	0
Personal computers (CPU, mouse, screen and keyboard included)	75	75	0
Laptop computer (CPU, mouse, screen and keyboard included)	0	0	0
Notebook computers	0	0	0

Notepad computers	0	0	0
Printers	6	6	0
Copying equipment (Photocopiers)	3	3	0
Projectors	12	12	0
Whiteboards	5	5	0
Electrical & electronic typewriters	0	0	0
Pocket & desk calculators	3	3	0
Fax machines	1	0	1
Telex	0	0	0
Telephones	2	2	0
Pay telephones	0	0	0
Mobiles	0	0	0
Answering systems	0	0	0

No documents uploaded by the school.

11

Do you know that your E-waste can be collected by an authorised dealer or dismantler?

Yes

No documents uploaded by the school.

11a

Who collects your e-waste, when not in working condition?

Authorised dismantler

Task 6: School's initiatives

12

Does the school have a policy on waste?

Yes

Policy document

13

Are there awareness drives with regard to Reduce, Recycle and Reuse?

Yes

No documents uploaded by the school.

13a

What form do these awareness drives take?

As part of the curriculum

14

Is the study of the environment integrated into the curriculum?

Yes

No documents uploaded by the school.



FEEDBACK

1 Has your school participated in the Green Schools Programme (GSP) Audit before?

No

2 Have teachers from your school participated in teacher interactive workshops organized by the GSP team?

No

3 Did you find the online information relevant to your environmental education activities?

Yes

4 Was the audit easy-to-understand and self-explanatory?

Yes

5 Did you understand the present format of the GSP?

Yes

6 Do you think your school will be a Green School (resource efficient) by 2019?

Yes

7 What would be the help required to make your school a Green School?

Funds

8 How would you rate the overall design of the audit?

Aspect	Good / Average /Bad
Content	Good
Distribution of time among tasks	Good
Sequencing of tasks	Good
Orientation for conducting tasks	Good

9 Would your school like to recommend any topic/s that you strongly feel should be added or deleted in the audit?

No

10

Could you finish all the tasks in given period of time online?

Yes

11

How many times did you contact the Green Schools Programme Team for guidance and counseling?

Once

12

Water being the focus this year, did you find the questionnaire in Water section helpful to make your school understand how to become water efficient?

Yes

13

Did your students enjoy doing the Water activities?

Yes

13(a)

How many students were involved in the activities?

25.00

Checklist of uploaded documents

1. Electricity Bill
2. Photographs of lunch boxes