



# GREEN SCHOOLS PROGRAMME

## Responses for Green Schools Programme Audit 2016

**School Name:** kendriya vidyalaya,mahasamund  
**Address:** b t i road ,mahasamund, MAHASAMUND,  
MAHASAMUND, Chhattisgarh, India  
**Coordinator Name:** Himansu Shekhar Tripathy



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,mahasamund

2

**Address**

b t i road ,mahasamund, MAHASAMUND, MAHASAMUND, Chhattisgarh, India

3

**Telephone Number (Landline Number with STD code)**

(ISD) 91 (STD) 07723 (NUMBER) 222436

4

**Mobile Number (Mobile Number with STD code)**

(ISD) 91 (Number) 9425508945

5

**Principal Name**

Ashok Kumar Chandrakar

6

**GSP Coordinator Name**

Himansu Shekhar Tripathy

7

**GSP Coordinator Email**

tuna3t@gmail.com

8

**GSP Coordinator Mobile Number**

(ISD)91 (Number) 9977349099

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:12

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	520	458	978
Teachers	21	10	31
Non-Teaching Staff	8	0	8
TOTAL	549	468	1017

4(b)

How many visitors visit your school

50

5

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

231

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.	Mrs Rohita Bansod	Mrs Rohita Bansod

#### Administrative staff

Sno.	Name	Email
1.	Ashok Kumar Chandrakar	mahasamundkv@gmail.com

#### Students

Sno.	Name	Email	Grade/Class
1.	ANUSHREE TIWARI	RAJJANTIWARI47@GMAIL.COM	9
2.	AYUSHI DHRUW	YASHI121002@GMAIL.COM	9

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

1 How many classrooms does your school have?

24

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)
IA	48.28	6.80	14.08
IB	48.28	6.08	12.59
IIA	48.28	6.08	12.59
IIB	48.28	6.08	12.59
IIIA	48.28	6.08	12.59
IIIB	48.28	6.08	12.59
IVA	48.28	6.08	12.59
IVB	48.28	6.08	12.59

VA	48.28	6.08	12.59
VB	48.28	6.08	12.59
TOTAL	482.80	61.52	

### 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
School Bus	0	0	0	0
Public Bus	0	0	0	0
School Transport(Other than bus)	0	0	0	0
Public transport (other than bus, Metro, car pool)	0	0	0	0
Taxi four-wheeler	250	2	0	252
Taxi three-wheeler	50	0	0	50
Personal four-wheeler	0	2	0	2
Personal two-wheeler	30	7	0	37
Bicycle	400	0	0	400
On foot	248	20	8	276
Others (non-motorised)	0	0	0	0
SUB-TOTAL	978	31	8	1017

### 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?

Yes



## ENERGY

### Task 1: Energy Audit Team

#### Teachers

Sno.	Name	Email
1.	Mr kalika Prasad	kalikaprasadkvmsd@gmail.com

#### Administrative staff

Sno.	Name	Email
1.	Ashok Kumar chandrakar	mahasamundkv@gmail.com

#### Students

Sno.	Name	Email	Grade/Class
1.	aaryan chandrakar	chandrakar.aaryan.2002@gmail.com	9
2.	dhanesh kumar tandon	dhanesh.t23@gmail.com	9

### Task 2: How much energy does your school consume?

1 Does your school have access to an electricity bill?

Yes

#### Supporting Documents

1. 1.jpg

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)	4256	15321.60	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)	0	0.00	0
Piped Natural Gas (kilogrammes)	0	0.00	0
<b>TOTAL</b>	<b>4256.00</b>	<b>15321.60</b>	

No documents uploaded by the school.

4

What appliances does your school have?

	Number	Size	BEE Star Rating
Air Conditioners	10	1.5	3
Refrigerator	1	150	3
Microwave	0	0	0
Tube Lights	100	40	3
CFL Bulbs	0	0	0
LED Lights	10	10	3
Fans	100	40	3

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?

335

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 b d manikpuri	manikpuribd63@gmail.com

#### Administrative staff

Sno.	Name	Email
1.	Ashok Kumar chandrakar	mahasamundkv@gmail.com

#### Students

Sno.	Name	Email	Grade/Class
1.	girish sahu	girishsahu0328@gmail.com	9
2.	himansu sinha	hsinhaforever@gmail.com	9

### 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

No documents uploaded by the school.

2(a)(1) How many students out of total student population bring home-made lunch?  
978.00

2(a)(2) Of the students who bring lunch from home, how many bring packaged food?  
978.00

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	00	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	00	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?

No

8

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

No

### Supporting Documents

1. 8.jpg
2. 6.jpg
3. 8.jpg



## LAND

### Task 1: Land Audit Team

#### Teachers

Sno.	Name	Email
1.	Mr lokesh Singh	thakurlsingh83@gmail.com

#### Administrative staff

Sno.	Name	Email
1.	Mr ashok Kumar chandrakar	mahasamundkv@gmail.com

#### Students

Sno.	Name	Email	Grade/Class
1.	hitendra singh sori	karansinghsori9922@gmail.com	9
2.	karan nagwani	karannagwani00@gmail.com	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 (m2)	10,239
Ground coverage area	5,000
Green landscaped area on-ground	5,239
Surface parking area	2,000
Play area that is paved/ concrete on ground	1,500
Play area that has grass on ground	3,000
Service Area on ground	3,000
Roof and terrace area	5,000
Green cover on exposed roof & terrace	0
Total built up/constructed area	11,048

Total no. of floors	2
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	5	35
Animals	1	9	10

### Task 4: Find out if your school uses pesticides

4

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

No

#### Supporting Documents

1. 11.jpg
2. 10.jpg
3. 12.jpg



## WATER

### Task 1: Water Audit Team

#### Teachers

Sno.	Name	Email
1.	Sumitra Thakur	sumitrathakur51@gmail.com

#### Administrative staff

Sno.	Name	Email
1.	Ashok Kumar Chandrakar	mahasamundkv@gmail.com

#### Students

Sno.	Name	Email	Grade/Class
1.	Purvash Sharma	purvashsharma18@gmail.com	9
2.	Rakesh kumar sahu	rakeshmsmd0@gmail.com	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	3500
Toilet flushing	1000
Personal cleaning	300
Washing clothes	0
Cooking	0
Cleaning Utensils	0
Washing Vegetables	0
Mopping floors	200
Gardening	1000
Total	6000

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

2 Where does the water your school uses, come from?

Ground water

3 Who supplies the water in your school?

School's own supply (bore well, rainwater harvesting facility, etc)

4 Does your school get daily water supply?

Yes

4(a) If supply of water is daily, please tick the correct option

7-12 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?	Yes
Any other step taken for water conservation? (if Yes, please specify)	No



## Supporting Documents

1. 16.jpg
2. 16.jpg

### Task 5: Does your school harvest rainwater?

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

No

6(a) Calculate your school's rainwater harvesting potential (in litres).

6

### 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?

10

9 How many hand pumps do you have?

0

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

10

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

	Girls	Boys	Common	Total
Number of toilets	15	15	0	30

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

10

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

5

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?

Yes

18(a) How does your school reuse wastewater?

Gardening

No documents uploaded by the school.



## WASTE

### Task 1: Waste Audit Team

#### Teachers

Sno.	Name	Email
1.	Himansu shekhar tripathy	tuna3t@gmail.com

#### Administrative staff

Sno.	Name	Email
1.	Ashok Kumar Chandrakar	mahasamundkv@gmail.com

#### Students

Sno.	Name	Email	Grade/Class
1.	Tarun Kumar	tarunkumarnirmalkar98@gmail.com	9
2.	Vikash chandrakar	chandrakarvikash98@gmail.com	9

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

1 Does your school segregate solid waste?

No

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	24	0	24	0	0
Playgrounds	2	0	2	0	0
Common area (e.g. reception, corridors)	5	0	5	0	0
Staffroom	2	0	0	2	0
Laboratory	4	0	4	0	0
Canteen	2	0	2	0	0
Clinic/ Sick room	2	0	0	2	0

Library	1	0	1	0	0
Toilets	10	0	0	10	0
Others	0	0	0	0	0
Total	52	0	38	14	0

### Supporting Documents

1. 20.jpg
2. 21.jpg

## 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	5
Kitchen waste	0
Paper	1
Plastic	0
Wood, glass, metal, classroom furniture	0
E-waste	.2
Biomedical waste	.5
Sanitary waste	.5
Construction and Demolition (C & D) waste	0
Hazardous waste	0
Total Generated Solid Waste (in kilogram)	7.2

### Supporting Documents

1. 30.jpg
2. 31.jpg

3. 32.jpg

**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 &amp; 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?

No

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	1	1	0
Refrigerators and freezers	1	1	0
Washing machines	0	0	0
Air conditioners	10	10	0
Heaters	2	2	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)	60	60	0
Laptop computer (CPU, mouse, screen and keyboard included)	5	5	0
Notebook computers	0	0	0
Notepad computers	0	0	0
Printers	5	5	0
Copying equipment (Photocopiers)	2	2	0
Projectors	10	10	0
Whiteboards	10	10	0

Electrical & electronic typewriters	0	0	0
Pocket & desk calculators	5	5	0
Fax machines	0	0	0
Telex	0	0	0
Telephones	5	5	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?

Taken back by manufacturer

## 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 extracurricular activities such as guest lectures

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?

Yes

1(a)

If yes, then in which year did your school first participate in the GSP Audit?

2015

1(b)

If yes, how many times have you done the audit?

2

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?

Construction of Solar power plant in the school by government.

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?

2.00

### Checklist of uploaded documents

1. PUC certificates of not more than five buses
2. Picture of Air Quality Monitoring equipment of school
3. Fuel Bills
4. Picture of School owned vehicles
5. Electricity Bill
6. Picture of 5 star appliances used by school
7. Picture of Renewable sources of Energy
8. Picture of Mid-day meal being served
9. Photographs of lunch boxes
10. Picture of Canteen selling UPPF
11. Traditional food items sold in canteen
12. Pictures of Events sponsored by UPPF companies
13. Pictures of Green Cover
14. Pictures of landscaped area
15. Building construction plan
16. Pictures of bio-pesticides
17. Pictures of dustbins in classroom showing segregation at source
18. Pictures of playground with more than two dustbins
19. Picture of audit team weighing solid waste

20. Picture of types of solid waste generated
21. Pictures of recycling units - composting pit, paper recycling machine, selling paper to kabadiwala, recyclers, etc
22. Pictures of housekeeping staff disposing different types of solid waste
23. Pictures of burning waste
24. Pictures of Electronic items used by school and storage of non-working electronic items
25. Certificate of disposing e-waste from authorised dealer/dismantler
26. Waste Policy
27. Pictures of various school initiatives e.g. rally, debate, street play, art competition, etc
28. Pictures of respective audit teams doing survey