



GREEN SCHOOLS PROGRAMME

Responses for Green Schools Programme Audit 2016

School Name: Kendriya Vidyalaya
Address: Bhawanipatna, Near Govt. ITI,
Bhawanipatna, Bhawanipatna, kalahandi,
Odisha, India
Coordinator Name: Sh. M.M. Gartia



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

2

Address

Bhawanipatna, Near Govt. ITI, Bhawanipatna, Bhawanipatna, kalahandi, Odisha, India

3

Telephone Number (Landline Number with STD code)

(ISD) 91 (STD) 6670 (NUMBER) 233401

4

Mobile Number (Mobile Number with STD code)

(ISD) 91 (Number) 9437485332

5

Principal Name

B.N. Das

6

GSP Coordinator Name

Sh. M.M. Gartia

7

GSP Coordinator Email

madhumangalg@gmail.com

8

GSP Coordinator Mobile Number

(ISD)91 (Number) 9938383249

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	555	422	977
Teachers	33	3	36
Non-Teaching Staff	5	2	7
TOTAL	593	427	1020

4(b) How many visitors visit your school

67

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

212

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

Nov

7 Where is the school located?

Rural Area



AIR

Task 1: Air Audit Team

Teachers

Sno.	Name	Email
1.	Ms E.M. Tirkey	Ms E.M. Tirkey
2.	Mrs. Rajlaxmi Meher	rajlaxmimeher2@gmail.com

Administrative staff

Sno.	Name	Email
1.	Sh. B. Sabar	

Students

Sno.	Name	Email	Grade/Class
1.	Sarthak Behera		12
2.	Chandan Senapati		12
3.	Sonali Pradhan		12
4.	Monali Pradhan		12
5.	Anshuman Jyotiprakash		12

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)
I A,B	484.00	100.00	20.66
II A,B	484.00	100.00	20.66
III A,B	484.00	100.00	20.66
IV A,B	484.00	100.00	20.66
V A,B	484.00	100.00	20.66

VI A,B	484.00	100.00	20.66
VII A,B	484.00	100.00	20.66
VIII A,B	484.00	100.00	20.66
IX A,B	484.00	100.00	20.66
X A,B XI Sc, Com, XII Sc, Com	484.00	100.00	20.66
TOTAL	4,840.00	1,000.00	

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	180	0	0	180
School Transport(Other than bus)	0	0	0	0
Public transport (other than bus, Metro, car pool)	290	0	0	290
Taxi four-wheeler	0	0	0	0
Taxi three-wheeler	0	0	0	0
Personal four-wheeler	35	0	0	35
Personal two-wheeler	165	36	3	204
Bicycle	270	0	2	272
On foot	37	0	2	39
Others (non-motorised)	0	0	0	0
SUB-TOTAL	977	36	7	1020

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

5

How many students suffer from respiratory ailments ?

2

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.	Sh. Sunil Kumar Sahu	sk_yours@yahoo.co.in
2.	Sh. Samarendra Pande	skpande78@gmail.com

Administrative staff

Sno.	Name	Email
1.	Sh. parikhita Kata	

Students

Sno.	Name	Email	Grade/Class
1.	swastik Mund		10
2.	Pratikash Panda		10
3.	Adarsh Acharya		10
4.	Sarmistha Samantray		10
5.	Abhishek Sahu		10

Task 2: How much energy does your school consume?

1

Does your school have access to an electricity bill?

Yes

Supporting Documents

1. Kendriya Vidy 38 OCT 2016.pdf

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)	3200	11520.00	1,5
Electricity from generator (diesel) (litres)	2	91.20	5
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)	14	722.40	5
Piped Natural Gas (kilogrammes)	0	0.00	0
TOTAL	3216.00	12333.60	

No documents uploaded by the school.

4

What appliances does your school have?

	Number	Size	BEE Star Rating
Air Conditioners	3	1.5 each	3
Refrigerator	1	200	5
Microwave	0	0	na
Tube Lights	24	40 watt each	na
CFL Bulbs	18	23 watt each	na
LED Lights	48	9 watt each	na

Fans	140	50 watt each	na
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Supporting Documents

1. AC.JPG
2. referigerator.JPG

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

5

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

260

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.	Sh P.D. nayak	pushpdhwaynayak@gmail.com
2.	Sh. Prabeer Meher	meherpr1977@gmail.com

Administrative staff

Sno.	Name	Email
1.	Sh. B. sabar	

Students

Sno.	Name	Email	Grade/Class
1.	Archita Panda		11
2.	Alisha Pattnaik		11
3.	Aisharya Naik		11
4.	Sambit Kumar Sahu		11
5.	siddhant mishra		11
6.	Pratit Tripathy		11

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

Yes

2 Does your school serve midday meals?

No

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

Yes

Supporting Documents

1. tiffin1.JPG

2. tiffin2.JPG

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

977.00

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

100.00

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)	12	2500	10
Ice-cream	0	0	0
Carbonated beverages	0	0	0
Sugar sweetened noncarbonated beverages	4	2000	10
Packaged/Bottled Nimboo Paani/ Lassi/ Flavoured milk	5	2500	10
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?

Dairy Milk Chocolate, Britannia Cake, Biscuits

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.	Sh. Abhishek Verma	abhishekvermar83@gmail.com
2.	Sh. Parsuram Padhan	ppadhan186@gmail.com

Administrative staff

Sno.	Name	Email
1.	Sh. P. Kata	
2.	Sh. Nila gauda	

Students

Sno.	Name	Email	Grade/Class
1.	Pabin Tandi		12
2.	Chinmaya Padhi		12
3.	Ankit Pradhan		11
4.	Sumeet Naik		10
5.	Jayanta Ghadei		12

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)	22,000
Ground coverage area	20,000
Green landscaped area on-ground	0
Surface parking area	2,000
Play area that is paved/ concrete on ground	11,025
Play area that has grass on ground	16,000
Service Area on ground	2,000

Roof and terrace area	22,000
Green cover on exposed roof & terrace	0
Total built up/constructed area	22,000
Total no. of floors	1
Others	250,000

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	25	7	32
Animals	0	0	0

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. land.JPG
2. green2.jpg
3. green3.JPG



WATER

Task 1: Water Audit Team

Teachers

Sno.	Name	Email
1.	Subrat Kumar Behera	subratkv2007@gmail.com

Administrative staff

Sno.	Name	Email
1.	Sh. P. Kata	
2.	Sh. Abani Kumar	

Students

Sno.	Name	Email	Grade/Class
1.	Aditya Kumar maharana		9
2.	Ipsita Nayak		9
3.	Rajlaxmi Kar		9
4.	Aniket Mund		9
5.	Anwesha Rath		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	1500
Toilet flushing	2000
Personal cleaning	100
Washing clothes	0
Cooking	0
Cleaning Utensils	0
Washing Vegetables	0

Mopping floors	500
Gardening	3000
Total	7100

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

19-24 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?	No
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. RO1.JPG
2. RO2.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).

10000

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?

1

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

50

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?

46

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

2

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

Supporting Documents

1. drainage.pdf



WASTE

Task 1: Waste Audit Team

Teachers

Sno.	Name	Email
1.	Sh. M.R. Hota	mrhota1978@gmail.com

Administrative staff

Sno.	Name	Email
1.	Mrs. Begam	
2.	Mrs Kuni Sahu	
3.	Sh. Dhananjaya Kumar	

Students

Sno.	Name	Email	Grade/Class
1.	Shrestha Behera		9
2.	Swati Pattnaik		9
3.	Abhishek Acharya		9
4.	Aryan Naik		9
5.	Sampann Kanungo		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	24	0	24	0	0

Playgrounds	4	0	4	0	0
Common area (e.g. reception, corridors)	4	0	0	4	0
Staffroom	2	0	2	0	0
Laboratory	6	0	6	0	0
Canteen	3	0	2	1	0
Clinic/ Sick room	0	0	0	0	0
Library	1	0	1	0	0
Toilets	8	0	4	4	0
Others	0	0	0	0	0
Total	52	0	43	9	0

Supporting Documents

1. Dusbin Field.JPG
2. Dusbin class.JPG
3. dustbin.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	6000
Kitchen waste	60
Paper	150
Plastic	50
Wood, glass, metal, classroom furniture	100
E-waste	5
Biomedical waste	0
Sanitary waste	10

Construction and Demolition (C & D) waste	0
Hazardous waste	0
Total Generated Solid Waste (in kilogram)	6375

No documents uploaded by the school.

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

4

Does your school recycle any generated waste?

Yes

4a

Please provide quantity of which is applicable. (in kilogram)

	Quantity
Garden/ horticulture waste	6000
Kitchen waste	0
Paper	0
Plastic	0
Wood, glass, metal, classroom furniture	0
E-waste	0
Biomedical waste	0
Sanitary waste	0
Construction and Demolition (C & D) waste	0
Hazardous waste	0
Total (in kilogram)	6000

5

Does your school have a composting facility?

Yes

No documents uploaded by the school.

5a

What is the methodology used?

Natural composting without added microbes

5b

What is the quantity of compost that is generated per month(in kilogram)?

2,500.00

5c

What is the purpose of the compost that is generated per month?

For horticultural purposesFor school garden

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?

Open dumping

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?

HorticulturalPlasticPaper

10

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

	Total	Working conditions	Non-working condition
TVs	2	1	1
VCR or DVD players	2	2	0
Refrigerators and freezers	1	1	0
Washing machines	0	0	0
Air conditioners	3	3	0
Heaters	1	1	0
Microwaves	0	0	0
Ovens	0	0	0
Toasters	0	0	0
Electric Kettles	1	1	0
Personal computers (CPU, mouse, screen and keyboard included)	78	53	25
Laptop computer (CPU, mouse, screen and keyboard included)	0	0	0

Notebook computers	0	0	0
Notepad computers	0	0	0
Printers	8	8	0
Copying equipment (Photocopiers)	3	3	0
Projectors	5	5	0
Whiteboards	5	5	0
Electrical & electronic typewriters	0	0	0
Pocket & desk calculators	4	4	0
Fax machines	1	1	0
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 dealer

Task 6: School's initiatives

12

Does the school have a policy on waste?

No

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?

1

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?

Waste management is not in proper way particularly water waste.

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?

Twice

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?

200.00

Checklist of uploaded documents

1. Electricity Bill
2. Picture of 5 star appliances used by school
3. Photographs of lunch boxes
4. Pictures of Green Cover
5. Pictures of landscaped area
6. Pictures of dustbins in classroom showing segregation at source
7. Pictures of playground with more than two dustbins