



GREEN SCHOOLS PROGRAMME

Responses for Green Schools Programme Audit 2016

School Name: KENDRIYA VIDYALAYA NO 1
Address: BARAIPALI INDUSTRIAL ESTATE,
SAMBALPUR, SAMBALPUR/ ODISHA,
SAMBALPUR, Odisha, India
Coordinator Name: SMITA MOHANTA



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 NO 1

2

Address

BARAIPALI INDUSTRIAL ESTATE, SAMBALPUR, SAMBALPUR/ ODISHA, SAMBALPUR,
Odisha, India

3

Telephone Number (Landline Number with STD code)

(ISD) 91 (STD) 663 (NUMBER) 2521029

4

Mobile Number (Mobile Number with STD code)

(ISD) 91 (Number) 9178462605

5

Principal Name

MANISH K SRIVASTAVA

6

GSP Coordinator Name

SMITA MOHANTA

7

GSP Coordinator Email

mohanta_smita@yahoo.com

8

GSP Coordinator Mobile Number

(ISD)91 (Number) 9437855954

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	1093	1004	2097
Teachers	39	22	61
Non-Teaching Staff	9	1	10
TOTAL	1141	1027	2168

4(b)

How many visitors visit your school

500

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?

Jan, Feb, March, April, May, June, July, Aug, Sep, Oct

7

Where is the school located?

Urban Area



AIR

Task 1: Air Audit Team

Teachers

Sno.	Name	Email
1.	SUDHANSHU NAIK	SUDHANSHU NAIK
3.	AJANTA PANDA	ajanta.panda09@gmail.com

Administrative staff

Sno.	Name	Email
1.	MANISH SRIVASTAVA	kvsambalpur@yahoo.co.in
2.	A . L. MEENA	
3.	L.P. BEHERA	

Students

Sno.	Name	Email	Grade/Class
1.	Sarthak Behera		11
2.	Bibek Ranjan Sai		11
3.	Ayush Tripathy		11
4.	Soham Kumar Meher		11
5.	Suswati kisan		11

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

1 How many classrooms does your school have?

52

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)
Class I- A B C D	44.89	4.77	10.63
Class II- A B C D E	56.11	5.96	10.62
Class III- A B C D E	56.11	5.96	10.62

Class IV- A B C D E	56.11	5.96	10.62
Class V- A B C D E	56.11	5.96	10.62
Class VI- A B C D	44.89	4.77	10.63
Class VII- A B C D	44.89	4.77	10.63
Class VIII- A B C D	44.89	4.77	10.63
Class IX- A B C D	44.89	4.77	10.63
Class X- A B C D	44.89	4.77	10.63
TOTAL	493.78	52.46	

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	416	0	0	416
Taxi three-wheeler	695	12	0	707
Personal four-wheeler	0	0	0	0
Personal two-wheeler	18	41	2	61
Bicycle	813	5	4	822
On foot	137	20	5	162
Others (non-motorised)	0	0	0	0

SUB-TOTAL	2079	78	11	2168
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Task 5: How good is the air you breathe in your school?

5

How many students suffer from respiratory ailments ?

5

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.	S S BHOI	sudhashekhar.bhoi@gmail.com

Administrative staff

Sno.	Name	Email
1.	MANISH K SRIVASTAVA	
2.	A L MEENA	
3.	L P BEHERA	

Students

Sno.	Name	Email	Grade/Class
1.	RAJ ARYAN PUROHIT		10
2.	RISHAV NANDA		10
3.	AKANSH PANDA		10
4.	ISHITA BHUYAN		10
5.	SWETA SUPKAR		10
6.	RACHITA PANDA		10

Task 2: How much energy does your school consume?

1

Does your school have access to an electricity bill?

Yes

Supporting Documents

1. electricity bill.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)	5500	19800.00	4
Electricity from generator (diesel) (litres)	0	0.00	0
Petrol (litres)	5	233.50	0
Diesel (litres)	5	228.00	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)	10	516.00	0
Piped Natural Gas (kilogrammes)	0	0.00	0
TOTAL	5520.00	20777.50	

No documents uploaded by the school.

4

What appliances does your school have?

	Number	Size	BEE Star Rating
Air Conditioners	04	1.5	3
Refrigerator	03	165	5
Microwave	1	15	5
Tube Lights	365	14600	0

CFL Bulbs	20	640	0
LED Lights	0	0	0
Fans	280	21000	0

Supporting Documents

1. fridge.jpg

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.	S S BHOI	sudhashekhar.bhoi@gmail.com

Administrative staff

Sno.	Name	Email
1.	MANISH K SRIVASTAVA	
2.	A . L. MEENA	
3.	L.P. BEHERA	

Students

Sno.	Name	Email	Grade/Class
1.	SNEHANJALI SAHU	sahubiswakarma@gmail.com	10
2.	ISHITA BHUYAN	dhirendrabhuyan72@gmail.com	10
3.	ANUSKA GHOSE	aghoseadv@gmail.com	10
4.	ASHAPARNA PRADHAN	ashaparnapradhan07092001@gmail.com	10
5.	PRACHI PRIYANSHA TRIPATHY	prafullatripathy1298@gmail.com	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. IMG_20161118_103253_HDR.jpg
2. IMG_20161118_103352_HDR.jpg

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

2069.00

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?

No

8

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

No

Supporting Documents

1. IMG_20161118_103643_HDR.jpg



LAND

Task 1: Land Audit Team

Teachers

Sno.	Name	Email
1.	SURESH MIRDHA	smirda.bgh@gmail.com
2.	PRAMOD BARIK	pramodbarik2003@gmail.com

Administrative staff

Sno.	Name	Email
1.	MANISH KUMAR SRIVASTAVA	
2.	A. L. MEENA	
3.	L.P. BEHERA	

Students

Sno.	Name	Email	Grade/Class
1.	AKANSH PANDA	akanshpanda@gmail.com	10
2.	SUDHAKAR SAMAL	sudhakarsamal2001@gmail.com	10
3.	SIMRAN HEMBRAM	simranhembram1311@gmail.com	10
4.	SOUMYA PRIYA	vijayshankersse@gmail.com	10
5.	ANISH MISHRA	sanjaykmishra90@gmail.com	10
6.	STHITASHRUTI NAYAK	suchit57058@gmail.com	10

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)	59,206
Ground coverage area	40,469
Green landscaped area on-ground	8,094
Surface parking area	1
Play area that is paved/ concrete on ground	12,141

Play area that has grass on ground	20,234
Service Area on ground	22,258
Roof and terrace area	6,070
Green cover on exposed roof & terrace	0
Total built up/constructed area	3
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	45	15	60
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. IMG_20161118_161221_HDR.jpg
2. IMG_20161118_083619_HDR.jpg



WATER

Task 1: Water Audit Team

Teachers

Sno.	Name	Email
1.	SANATAN BANJI	sbanji72@gmail.com

Administrative staff

Sno.	Name	Email
1.	MANISH KUMAR SRIVASTAVA	
2.	A.L. MEENA	
3.	L.P. BEHERA	

Students

Sno.	Name	Email	Grade/Class
1.	TANISHQA ROUTROY	swetaroutroy@gmail.com	10
2.	SWETA SUPKAR	swetasupkar@gmail.com	10
3.	RACHITA PANDA	rachitapanda14@gmail.com	10
4.	BAISHNAVI SAMNATARAY	baishnavi123@gmail.com	10
5.	PRITISHREE PRIYADARSHINI SAHU	pritisbp368@gmail.com	10
6.	PRERANA KHATRY	uttam.khatry1963@gmail.com	10

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	2500
Toilet flushing	4000
Personal cleaning	0
Washing clothes	0
Cooking	0
Cleaning Utensils	0

Washing Vegetables	0
Mopping floors	200
Gardening	5000
Total	11700

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?

Public Health Engineering Department (PHED), 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

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?	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?	No
Does your school use a drip or irrigation system?	No
Any other step taken for water conservation? (if Yes, please specify)	No

No documents uploaded by the school.

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).

513642525

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?

40

9 How many hand pumps do you have?

0

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

20

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

	Girls	Boys	Common	Total
Number of toilets	32	32	0	64

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

56

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

10

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

More than 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.	S Mohanta	mohanta_smita@yahoo.com

Administrative staff

Sno.	Name	Email
1.	MANISH K SRIVASTAVA	
2.	A.L.MEENA	
3.	L.P. BEHERA	

Students

Sno.	Name	Email	Grade/Class
1.	RAJIB RATAN MAJHI	majhirajib295@gmail.com	10
2.	ASHAPARNA PRADHAN	ashaparnapradhan0709200@gmail.com	10
3.	GAYATRI GOURI	gourigayatri@yahoo.com	10
4.	SNEHASARKAR	sneha732002@gmail.com	10
5.	GIRIJASHANKAR SETH	agneya53@gmail.com	10
6.	ANJALI MURGA	rhmaurga975@gmail.com	10
7.	KRITIKA KUMARI	shilpikumari72724@gmail.com	10
8.	NITESH KUMAR	rp422335@gmail.com	10
9.	JAGDISH ACHARYA	sushree389@gmail.com	10
10.	BISMAYA PUJHARI		10

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. Students and teachers
2. 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	52	0	52	0	0
Playgrounds	15	0	10	5	0
Common area (e.g. reception, corridors)	8	0	8	0	0
Staffroom	2	0	2	0	0
Laboratory	8	0	5	3	0
Canteen	0	0	0	0	0
Clinic/ Sick room	1	0	1	0	0
Library	1	0	1	0	0
Toilets	10	0	8	2	0
Others	12	0	5	2	5
Total	109	0	92	12	5

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	300
Kitchen waste	0
Paper	30
Plastic	3
Wood, glass, metal, classroom furniture	0
E-waste	1
Biomedical waste	1

Sanitary waste	20
Construction and Demolition (C & D) waste	150
Hazardous waste	20
Total Generated Solid Waste (in kilogram)	525

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?

Yes

Supporting Documents

1. IMG_20161118_160810_HDR.jpg

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)?

100.00

5c What is the purpose of the compost that is generated per month?

For 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?

No

10

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

	Total	Working conditions	Non-working condition
TVs	1	1	
VCR or DVD players	0		
Refrigerators and freezers	3	3	

Washing machines	0	0	
Air conditioners	4	4	
Heaters	0	0	
Microwaves	1	1	
Ovens	0	0	
Toasters	0	0	
Electric Kettles	0	0	
Personal computers (CPU, mouse, screen and keyboard included)	63	63	
Laptop computer (CPU, mouse, screen and keyboard included)	0	0	
Notebook computers	0	0	
Notepad computers	0	0	
Printers	7	7	
Copying equipment (Photocopiers)	1	1	
Projectors	15	15	
Whiteboards	5	5	
Electrical & electronic typewriters	0	0	
Pocket & desk calculators	5	5	
Fax machines	0	0	
Telex	0	0	
Telephones	2	2	
Pay telephones	0	0	
Mobiles	0	0	
Answering systems	0	0	

No documents uploaded by the school.

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?

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?

Technical advices needed time to time.

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?

Never

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. Fuel Bills
2. Electricity Bill
3. Picture of 5 star appliances used by school
4. Photographs of lunch boxes
5. Pictures of landscaped area
6. Building construction plan
7. Pictures of recycling units - composting pit, paper recycling machine, selling paper to kabadiwala, recyclers,etc
8. Pictures of respective audit teams doing survey