



GREEN SCHOOLS PROGRAMME

Responses for Green Schools Programme Audit 2016

School Name: KENDRIYA VIDYALAYA KARNAL
Address: KAITHAL ROAD, NEAR DISTRICT JAIL,
KARNAL, KARNAL, KARNAL, Haryana,
India
Coordinator Name: MR. AJAY KUMAR



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 KARNAL

2

Address

KAITHAL ROAD, NEAR DISTRICT JAIL, KARNAL, KARNAL, KARNAL, Haryana, India

3

Telephone Number (Landline Number with STD code)

(ISD) 91 (STD) 184 (NUMBER) 2294940

4

Mobile Number (Mobile Number with STD code)

(ISD) 91 (Number) 9416730540

5

Principal Name

MEENA GOYAL

6

GSP Coordinator Name

MR. AJAY KUMAR

7

GSP Coordinator Email

ajaykumar.saroha@gmail.com

8

GSP Coordinator Mobile Number

(ISD)91 (Number) 7206483884

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:9

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	510	373	883
Teachers	11	19	30
Non-Teaching Staff	7	3	10
TOTAL	528	395	923

4(b)

How many visitors visit your school

6

5

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

225

6

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

Oct, Nov

7

Where is the school located?

Urban Area



AIR

Task 1: Air Audit Team

Teachers

Sno.	Name	Email
1.	Mr. Indu	Mr. Indu
2.	Mrs.Taruna	aggarwal13180@gmail.com
3.	Mr.Surender	ssingh200973@yahoo.com.in

Administrative staff

Sno.	Name	Email
1.	Mr. Rajbir	rajbirbeniwal225702@gmail.com
2.	Mr. Ganesh	
3.	Mr. Satbir Singh	sskaushik39@gmail.com

Students

Sno.	Name	Email	Grade/Class
1.	Bhavya		9
2.	Yadvinder		12
3.	Sanjay		11
4.	Ravneet		10
5.	Navdeep		10
6.	Sakshi		10

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	30.00	27.00	90.00
IB	30.00	27.00	90.00

IIA	30.00	27.00	90.00
IIB	30.00	27.00	90.00
IIIA	30.00	27.00	90.00
IIIB	30.00	27.00	90.00
IVA	30.00	27.00	90.00
IVB	30.00	27.00	90.00
VA	30.00	27.00	90.00
VB	30.00	27.00	90.00
TOTAL	300.00	270.00	

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	45	2	4	51
School Transport(Other than bus)	0	0	0	0
Public transport (other than bus, Metro, car pool)	2	5	3	10
Taxi four-wheeler	0	3	0	3
Taxi three-wheeler	700	4	0	704
Personal four-wheeler	0	6	0	6
Personal two-wheeler	52	9	1	62
Bicycle	84	1	1	86
On foot	0	0	1	1

Others (non-motorised)	0	0	0	0
SUB-TOTAL	883	30	10	923

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. Indu	kviwadhwa@gmail.com
2.	Mr. Surender	ssingh200973@yahoo.co.in
3.	Mrs. Taruna	aggarwal13180@gmail.com

Administrative staff

Sno.	Name	Email
1.	Mr. Satbir	sskaushik39@gmail.com
2.	Mr. Rajbir	rajbirbeniwal225702@gmail.com

Students

Sno.	Name	Email	Grade/Class
1.	Monti		11
2.	Tushar		11
3.	Vijeta		11
4.	BHAVYA		9

Task 2: How much energy does your school consume?

1

Does your school have access to an electricity bill?

Yes

Supporting Documents

1. bill elect0.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)	21600	77760.00	2
Electricity from generator (diesel) (litres)	1000	45600.00	1
Petrol (litres)	0	0.00	0
Diesel (litres)	1000	45600.00	1
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)	200	720.00	2
Wind (kwh)	0	0.00	0
LPG (kilogrammes)	1	51.60	1
Piped Natural Gas (kilogrammes)	0	0.00	0
TOTAL	23801.00	169731.60	

Supporting Documents

1. fuel bill.jpg
2. IMfuel bill.jpg

4

What appliances does your school have?

	Number	Size	BEE Star Rating
Air Conditioners	8	1.5	2
Refrigerator	1	165	3
Microwave	1	10	3

Tube Lights	450	40	2
CFL Bulbs	10	15	2
LED Lights	2	8	2
Fans	450	50	4

Supporting Documents

1. one star aaac.jpg

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

5

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

325

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
------	------	-------

Administrative staff

Sno.	Name	Email
1.	MRS TRIPTA CHOPRA	
2.	MRS. P KAUR	
3.	MR.SEVA SINGH	
4.	MR. PANKAJ	

Students

Sno.	Name	Email	Grade/Class
1.	GAURAV AGGARWAL		10
2.	SUMIT		10
3.	YADVINDER SINGH		12
4.	ABHIMANYU		11
5.	KAJAL		10
6.	JANVI		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

Supporting Documents

1. IMG_20161025_100407 - Copy.jpg
2. food.jpg

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

900.00

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?

Yes

6(a) Please provide details

BISCUITS ARE DISTRIBUTED ON THE OCCASION OF INDEPENDENCE AND REPUBLIC DAY

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. food audit.jpg



LAND

Task 1: Land Audit Team

Teachers

Sno.	Name	Email
------	------	-------

Administrative staff

Sno.	Name	Email
1.	MRS. NEHA	
2.	MR. RAVEEN	
3.	MR.SUKHVINDER	

Students

Sno.	Name	Email	Grade/Class
1.	HARSH BHIMPAL		9
2.	GAGANDEEP		9
3.	SEJAL		9
4.	SERVENDRA		9
5.	PONDHARSHINI		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)	1,700
Ground coverage area	17,000
Green landscaped area on-ground	8,000
Surface parking area	500
Play area that is paved/ concrete on ground	3,000
Play area that has grass on ground	12,000
Service Area on ground	300

Roof and terrace area	4,500
Green cover on exposed roof & terrace	0
Total built up/constructed area	17,800
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	12	18	30
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?

Yes

Supporting Documents

1. green cover.jpg



WATER

Task 1: Water Audit Team

Teachers

Sno.	Name	Email
------	------	-------

Administrative staff

Sno.	Name	Email
1.	MR. RAMESH	
2.	MR.SATBIR	
3.	MR. SATBIR	

Students

Sno.	Name	Email	Grade/Class
1.	ASHMA		7
2.	SAKSHI D		10
3.	PRINITA		12
4.	CHARU		12
5.	NEHA SHARMA		8

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	8000
Toilet flushing	500
Personal cleaning	1000
Washing clothes	0
Cooking	0
Cleaning Utensils	200
Washing Vegetables	0

Mopping floors	200
Gardening	7000
Total	16900

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

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?	Yes

Any other step taken for water conservation? (if Yes, please specify)

Yes

Supporting Documents

1. tank.jpg
2. water tank.jpg

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 + Paved

6(b)

How does your school harvest rainwater?

By storing

6(b)(1)

If your school only stores rainwater, please select the use of stored rainwater.

Gardening, Mopping, Toilets

6(b)(2)

Does your school have rainwater storage tank?

Yes

6(b)(2)(a)

Total capacity of storage tank (litres)

5000.00

6(b)(2)(b)

Total number of storage tanks

10.00

6(b)(2)(c)

Location of tanks:

Underground

6(b)(2)(d)

Material options for tanks

Combination of PVC + RCC + Brick

6(c) How much area in your school is harvested?

10 to 20 per cent

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

Storage tank

6(e) Rate your catchment on cleanliness:

Average

Supporting Documents

1. 20161028_114234.jpg
2. 20161028_114405.jpg

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?

Do not follow any such pattern

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?

Do not follow any such pattern

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

If there was a decrease, please specify

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

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?

36

9 How many hand pumps do you have?

42

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	12	14	0	26

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

20

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?

Yes

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
------	------	-------

Administrative staff

Sno.	Name	Email
1.	MR. V P SEHRAWAT	
2.	MR. RAMESH	
3.	MR. GANESH	

Students

Sno.	Name	Email	Grade/Class
1.	NISCHAY		12
2.	ONKAR		10
3.	BHAVYA		9
4.	VISHESH		9
5.	NETRA SHARMA		8

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 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	24	0	0	0
Playgrounds	6	6	0	0	0

Common area (e.g. reception, corridors)	4	4	0	0	0
Staffroom	1	1	0	0	0
Laboratory	8	8	0	0	00
Canteen	0	0	0	0	0
Clinic/ Sick room	1	1	0	0	0
Library	1	1	0	0	0
Toilets	8	8	0	0	0
Others	0	0	0	0	0
Total	53	53	0	0	0

Supporting Documents

1. dustbins4.jpg
2. dustbins.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	50000
Kitchen waste	0
Paper	25000
Plastic	5000
Wood, glass, metal, classroom furniture	5000
E-waste	0
Biomedical waste	0
Sanitary waste	2000
Construction and Demolition (C & D) waste	0
Hazardous waste	0

Total Generated Solid Waste (in kilogram)

87000

Supporting Documents

1. big dustbin.jpg

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	50
Kitchen waste	0
Paper	30
Plastic	30
Wood, glass, metal, classroom furniture	20
E-waste	0
Biomedical waste	0
Sanitary waste	10
Construction and Demolition (C & D) waste	5
Hazardous waste	0
Total (in kilogram)	145

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)	✗	✗	✓	✓

Supporting Documents

1. 20161102_094110.jpg
2. big dustbin2.jpg

Task 5: How does your school dispose waste?

8

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

Landfill Site

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?

Outside the school

9b

What kind of waste is being burnt/ incinerated?

HorticulturalPlasticTyresPaper

10

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

	Total	Working conditions	Non-working condition
TVs	3	03	0
VCR or DVD players	1	01	0
Refrigerators and freezers	1	01	0
Washing machines	0	0	0
Air conditioners	8	8	0
Heaters	1	1	0
Microwaves	0	0	0
Ovens	1	0	1
Toasters	0	0	0
Electric Kettles	0	0	0
Personal computers (CPU, mouse, screen and keyboard included)	0	0	0
Laptop computer (CPU, mouse, screen and keyboard included)	0	0	0
Notebook computers	0	0	0
Notepad computers	0	0	0
Printers	8	6	02
Copying equipment (Photocopiers)	2	02	0
Projectors	12	12	0
Whiteboards	12	12	0
Electrical & electronic typewriters	2	2	0
Pocket & desk calculators	0	0	0

Fax machines	0	0	0
Telex	0	0	0
Telephones	1	1	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?

No

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 , As part of extracurricular activities such as guest lectures , By the showcasing of posters and stickers

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?

FACILITY FOR RAIN WATER HARVESTING

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	<p>Would your school like to recommend any topic/s that you strongly feel should be added or deleted in the audit?</p> <p>No</p>
10	<p>Could you finish all the tasks in given period of time online?</p> <p>No</p>
11	<p>How many times did you contact the Green Schools Programme Team for guidance and counseling?</p> <p>Never</p>
12	<p>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?</p> <p>No</p>
12(a)	<p>If no, please share your suggestions?</p> <p>NO SUGGESTION</p>
13	<p>Did your students enjoy doing the Water activities?</p> <p>Yes</p>
13(a)	<p>How many students were involved in the activities?</p> <p>20.00</p>

Checklist of uploaded documents

1. Fuel Bills
2. Picture of School owned vehicles
3. Electricity Bill
4. Picture of 5 star appliances used by school
5. Picture of Renewable sources of Energy
6. Photographs of lunch boxes
7. Pictures of Green Cover
8. Pictures of landscaped area
9. Building construction plan
10. Pictures of bio-pesticides
11. Pictures of dustbins in classroom showing segregation at source
12. Pictures of playground with more than two dustbins
13. Picture of audit team weighing solid waste
14. Picture of types of solid waste generated
15. Pictures of recycling units - composting pit, paper recycling machine, selling paper to kabadiwala, recyclers, etc
16. Pictures of housekeeping staff disposing different types of solid waste

17. Pictures of burning waste
18. Pictures of Electronic items used by school and storage of non-working electronic items
19. Certificate of disposing e-waste from authorised dealer/dismantler
20. Waste Policy
21. Pictures of various school initiatives e.g. rally, debate, street play, art competition, etc
22. Pictures of respective audit teams doing survey