



GREEN SCHOOLS PROGRAMME

Responses for Green Schools Programme Audit 2016

School Name: KENDRIYA VIDYALAYA BACHELI
Address: BIOM COMPLEX , BACHELI, BACHELI,
DANTEWADA, Chhattisgarh, India
Coordinator Name: SUMA JOSEPH



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 BACHELI

2

Address

BIOM COMPLEX , BACHELI, BACHELI, DANTEWADA, Chhattisgarh, India

3

Telephone Number (Landline Number with STD code)

(ISD) 91 (STD) 07857 (NUMBER) 230333

4

Mobile Number (Mobile Number with STD code)

(ISD) 91 (Number) 9425590191

5

Principal Name

N. HARI PRASAD

6

GSP Coordinator Name

SUMA JOSEPH

7

GSP Coordinator Email

suma.joseph1994@gmail.com

8

GSP Coordinator Mobile Number

(ISD)91 (Number) 9516348768

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	405	392	797
Teachers	26	13	39
Non-Teaching Staff	1	0	1
TOTAL	432	405	837

4(b)

How many visitors visit your school

10

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?

Oct

7

Where is the school located?

Rural Area



AIR

Task 1: Air Audit Team

Teachers

Sno.	Name	Email
1.	M. RAYAPPA	M. RAYAPPA
2.	SUMA JOSEPH	suma.joseph1994@gmail.com

Administrative staff

Sno.	Name	Email
1.	T.P. THAKUR	thakurtoran71@gmail.com
2.	R.K. SAHU	rajsahu.sahu85@gmail.com

Students

Sno.	Name	Email	Grade/Class
1.	GAYATRI	gayatrijiya@gmail.com	7
2.	SHUBHO	shubho15mar@gmail.com	7
3.	HEMANT	JRHEMANT27@REDIFFMAIL.COM	7
4.	PADMALOCHAN DURGA	padmalochandurga258@gmail.com	7
5.	RICHA SINGH	raghurajsingh9042@gmail.com	6
6.	ARYAN THRIPATHI	aryanthripathi@rediffmail.com	6

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

1 How many classrooms does your school have?

41

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)
6A	41.50	6.30	15.18
6B	41.50	6.30	15.18
7A	41.50	6.30	15.18

7B	41.50	6.30	15.18
8A	41.50	6.30	15.18
8B	41.50	6.30	15.18
9A	41.50	6.30	15.18
9B	41.50	6.30	15.18
10A	41.50	6.30	15.18
10B	41.50	6.30	15.18
TOTAL	415.00	63.00	

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?

Operator-owned 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	1	1	0	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	0	0	0	0
Personal four-wheeler	200	5	0	205
Personal two-wheeler	350	18	0	368
Bicycle	46	0	1	47
On foot	200	15	0	215
Others (non-motorised)	0	0	0	0

SUB-TOTAL	797	39	1	837
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Task 5: How good is the air you breathe in your school?

5

How many students suffer from respiratory ailments ?

1

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.	M.RAYAPPA	rayappamande@yahoo.in
2.	SUMA JOSEPH	suma.joseph1994@gmail.com
3.	ANITA SHARAN	coolrajchoudhary91@gmail.com

Administrative staff

Sno.	Name	Email
1.	T. THAKUR	toranthakur71@gmail.com
2.	R.K. SAHU	rajsahu.sahu85@gmail.com

Students

Sno.	Name	Email	Grade/Class
1.	ADITI BHATTACHARJEE	arindamnmdc@rediffmail .com	6
2.	VIBHA MITRA	rajeshmitra3394@gmail.com	6

Task 2: How much energy does your school consume?

1 Does your school have access to an electricity bill?

No

No documents uploaded by the school.

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
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Electricity from the board (kwh)	1000	3600.00	0
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
TOTAL	1000.00	3600.00	

No documents uploaded by the school.

4

What appliances does your school have?

	Number	Size	BEE Star Rating
Air Conditioners	6	1.5	3
Refrigerator	2	165	3
Microwave	0	0	0
Tube Lights	500	40	0
CFL Bulbs	0	0	0
LED Lights	0	0	0
Fans	100	250	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?

200

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.	suma joseph	suma.joseph1994@gmail.com

Administrative staff

Sno.	Name	Email
1.	T P Thakur	thakurtoran71@gmail.com

Students

Sno.	Name	Email	Grade/Class
1.	adithi bhattacharjee	arindamnmdc@redifmail.com	6
2.	vibha mitra	rajeshmitra3394@gmail.com	6

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?
530.00

2(a)(2) Of the students who bring lunch from home, how many bring packaged food?
150.00

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

haldiram soan papadi distributed

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

No documents uploaded by the school.



LAND

Task 1: Land Audit Team

Teachers

Sno.	Name	Email
1.	ANITA SHARAN	coolrajchoudhary91@gmail.com
2.	AMIT SOMNATH PATIL	amit.amit055@gmail.com

Administrative staff

Sno.	Name	Email
1.	T.P. THAKUR	toranthakur71@gmail.com

Students

Sno.	Name	Email	Grade/Class
1.	KHUSHI SAHU	dhruwsahu@gmail.com	9
2.	TEESHA NETAM	teeshanetam57@gmail.com	9
3.	RICHA PATEL	patel90@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)	10,000
Ground coverage area	5,000
Green landscaped area on-ground	1,000
Surface parking area	100
Play area that is paved/ concrete on ground	2,000
Play area that has grass on ground	2,000
Service Area on ground	1,000
Roof and terrace area	2,000
Green cover on exposed roof & terrace	1,000

Total built up/constructed area	500
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	50	5	55
Animals	5	2	7

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_20160907_075211.jpg
2. 20161106_123845.jpg



WATER

Task 1: Water Audit Team

Teachers

Sno.	Name	Email
1.	ANITA SHARAN	coolrajchoudhary91@gmail.com
2.	AMIT SOMNATH PATIL	patil.amit055@gmail.com

Administrative staff

Sno.	Name	Email
1.	T.P. THAKUR	toranthakur71@gmail.com

Students

Sno.	Name	Email	Grade/Class
1.	POOJA DEHERIA	rajeshdeheria123@gmail.com	9
2.	NEHA CHENAP	kishorkumarchenap@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	700
Toilet flushing	1000
Personal cleaning	500
Washing clothes	0
Cooking	0
Cleaning Utensils	20
Washing Vegetables	0
Mopping floors	70
Gardening	300

Total	2590
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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?

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?	No
If your school has an eco-club, do they have water component?	No
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?	No
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?	No
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?

Yes

6(a) Does your school harvest different catchments?.

No

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

5.00

6(b)(1)(ii) Please tick the type of groundwater recharge structure used in your school:

Soak pit

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

51 to 60 per cent

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

Conduits, Collection sump

6(e) Rate your catchment on cleanliness:

Average

No documents uploaded by the school.

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

No

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

No

6(h)

What is the trend of groundwater level in your school across the year?

No change

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?

No

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?	No
Are the toilets accessible and safe to use for differently abled staff (teaching and non-teaching)?	No
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?

6

11

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

	Girls	Boys	Common	Total
Number of toilets	9	11	2	22

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

24

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?

No

15 Is the water supply sufficient?

Yes

16 Are the toilets cleaned?

Yes

16(a) If yes, please specify

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.	ANITA SHARAN	coolrajchoudhary91@gmail.com
2.	SUMA JOSEPH	suma.joseph1994@gmail.com

Administrative staff

Sno.	Name	Email
1.	T. P. THAKUR	toranthakur71@gmail.com
2.	R.K. SAHU	rajsahu.sahu85@gmail.com

Students

Sno.	Name	Email	Grade/Class
1.	GAYATRI	gayatrijiya@gmail.com	7
2.	SHUBHO	shubho15mar@gmail.com	7

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	14	0	14	0	0
Playgrounds	2	0	2	0	0
Common area (e.g. reception, corridors)	2	0	2	0	0

Staffroom	2	0	2	0	0
Laboratory	9	0	9	0	0
Canteen	0	0	0	0	0
Clinic/ Sick room	0	0	0	0	0
Library	1	0	1	0	0
Toilets	10	0	10	0	0
Others	0	0	0	0	0
Total	40	0	40	0	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	100
Kitchen waste	0
Paper	25
Plastic	25
Wood, glass, metal, classroom furniture	25
E-waste	0
Biomedical waste	0
Sanitary waste	10
Construction and Demolition (C & D) waste	0
Hazardous waste	0
Total Generated Solid Waste (in kilogram)	185

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	50
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)	50

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)?

10.00

5c

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

For horticultural purposes

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?

Paper

10

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

	Total	Working conditions	Non-working condition
TVs	2	2	0
VCR or DVD players	1	1	0
Refrigerators and freezers	2	1	1
Washing machines	0	0	0
Air conditioners	0	0	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)	43	43	0
Laptop computer (CPU, mouse, screen and keyboard included)	0	0	0
Notebook computers	0	0	0
Notepad computers	0	0	0
Printers	4	4	0
Copying equipment (Photocopiers)	0	0	0

Projectors	0	0	0
Whiteboards	0	0	0
Electrical & electronic typewriters	0	0	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?

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 the curriculum , 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?

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 SUPPORT FOR INSTALLING SOLAR PANEL AND VERMICOMPOSTING

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?

No

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?

15.00

Checklist of uploaded documents

1. Pictures of Green Cover
2. Pictures of landscaped area
3. Pictures of playground with more than two dustbins
4. Picture of audit team weighing solid waste
5. Picture of types of solid waste generated
6. Pictures of recycling units - composting pit, paper recycling machine, selling paper to kabadiwala, recyclers, etc