



GREEN SCHOOLS PROGRAMME

Responses for Green Schools Programme Audit 2016

School Name: K V BHEL HARDWAR
Address: SEC-IV BHEL, RANIPUR, HARIDWAR,
HARIDWAR, Uttarakhand, India
Coordinator Name: VINOD 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

K V BHEL HARDWAR

2

Address

SEC-IV BHEL, RANIPUR, HARIDWAR, HARIDWAR, Uttarakhand, India

3

Telephone Number (Landline Number with STD code)

(ISD) 91 (STD) 01334 (NUMBER) 231361

4

Mobile Number (Mobile Number with STD code)

(ISD) 91 (Number) 9456145554

5

Principal Name

S P BARTHWAL

6

GSP Coordinator Name

VINOD KUMAR

7

GSP Coordinator Email

vinod.ailawadi007@gmail.com

8

GSP Coordinator Mobile Number

(ISD)91 (Number) 9627911406

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	825	860	1685
Teachers	25	40	65
Non-Teaching Staff	10	1	11
TOTAL	860	901	1761

4(b)

How many visitors visit your school

1000

5

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

290

6

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

April

7

Where is the school located?

Urban Area



AIR

Task 1: Air Audit Team

Teachers

Sno.	Name	Email
1.	MANOJ KUMAR	MANOJ KUMAR
2.	SUNITA RANA	kvbhelhardwar@gmail.com
3.	JAI KRISHAN	kvbhelhardwar@gmail.com

Administrative staff

Sno.	Name	Email
1.	AMARDEEP SINGH	kvbhelhardwar@gmail.com
2.	B JOSHI	kvbhelhardwar@gmail.com
3.	SUBHAM SHARMA	kvbhelhardwar@gmail.com
4.	BASANT LAL	kvbhelhardwar@gmail.com
5.	MEENA RANA	kvbhelhardwar@gmail.com

Students

Sno.	Name	Email	Grade/Class
1.	SAHIL SINGH	kvbhelhardwar@gmail.com	12
2.	AVNI GUPTA	kvbhelhardwar@gmail.com	12
3.	SUBHUAM TANGAR	kvbhelhardwar@gmail.com	11
4.	SHIKHA RAI	kvbhelhardwar@gmail.com	11
5.	SHRADHA POKHRIYAL	kvbhelhardwar@gmail.com	12
6.	RAGHAV AGARWAL	kvbhelhardwar@gmail.com	12

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

1 How many classrooms does your school have?

40

2 Window-floor ratio of classrooms in the school.

Details of the classroom
(e.g. Class II section b)

$X = \text{Area of floor}$
($L \times B$)

$Y = \text{Area of}$
openings ($L \times H$)

Percentage of the floor area
being ventilated ($Y/X \times 100$)

I	80.00	7.00	8.75
II	80.00	7.00	8.75
III	80.00	7.00	8.75
IV	80.00	7.00	8.75
V	80.00	7.00	8.75
VI	80.00	7.00	8.75
VII	80.00	7.00	8.75
VIII	80.00	7.00	8.75
IX	80.00	7.00	8.75
X	80.00	7.00	8.75
TOTAL	800.00	70.00	

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	250	2	2	254
School Transport(Other than bus)	0	0	0	0
Public transport (other than bus, Metro, car pool)	0	1	0	1
Taxi four-wheeler	0	0	0	0
Taxi three-wheeler	448	1	0	449
Personal four-wheeler	0	12	1	13
Personal two-wheeler	50	34	1	85

Bicycle	200	0	2	202
On foot	550	6	0	556
Others (non-motorised)	200	0	1	201
SUB-TOTAL	1698	56	7	1761

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

5

How many students suffer from respiratory ailments ?

3

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.	VINOD KUMAR ARORA	kvbhelhardwar@gmail.com
2.	RENU KULSHRESHTHA	kvbhelhardwar@gmail.com
3.	M.C PANDEY	kvbhelhardwar@gmail.com

Administrative staff

Sno.	Name	Email
1.	SUNIT KUMAR	kvbhelhardwar@gmail.com
2.	GAURAV SACHDEVA	kvbhelhardwar@gmail.com
3.	VIKAS MEHNDIRATTA	kvbhelhardwar@gmail.com

Students

Sno.	Name	Email	Grade/Class
1.	PRABHAKAR MISHRA	kvbhelhardwar@gmail.com	12
2.	ANUSHKA SRIVASTAVA	kvbhelhardwar@gmail.com	11
3.	HARSHITA RAI	kvbhelhardwar@gmail.com	11
4.	VIVEK KUMAR ASHISH	kvbhelhardwar@gmail.com	11

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
Electricity from the board (kwh)	2300	8280.00	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
TOTAL	2300.00	8280.00	

Supporting Documents

1. ELECTRICITY BILL.PDF

4

What appliances does your school have?

	Number	Size	BEE Star Rating
Air Conditioners	5	1.5	3
Refrigerator	1	200	3
Microwave	0	0	0
Tube Lights	650	40	2

CFL Bulbs	0	0	0
LED Lights	0	0	0
Fans	260	60	2

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?

355

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.	RAJESH RANA	kvbhelhardwar@gmail.com
2.	ASHWANI KUMAR	kvbhelhardwar@gmail.com
3.	SANDEEP GAGANIYA	kvbhelhardwar@gmail.com

Administrative staff

Sno.	Name	Email
1.	B.JOSHI	kvbhelhardwar@gmail.com
2.	RENU BANSAL	kvbhelhardwar@gmail.com
3.	HARI OM MISHRA	kvbhelhardwar@gmail.com

Students

Sno.	Name	Email	Grade/Class
1.	HIBA FATIMA	kvbhelhardwar@gmail.com	12
2.	AYUSH BHARDWAJ	kvbhelhardwar@gmail.com	12
3.	AKSHAT VERMA	kvbhelhardwar@gmail.com	11
4.	AKSHAT KATIYAR	kvbhelhardwar@gmail.com	12

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?

1704.00

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
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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

KIT KAT AS CONSOLATION PRIZE

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.	R.K RAWAT	kvbhelhardwar@gmail.com
2.	RICHA SINGH	kvbhelhardwar@gmail.com
3.	KIRTI DUA	kvbhelhardwar@gmail.com

Administrative staff

Sno.	Name	Email
1.	R.S PAL	kvbhelhardwar@gmail.com
2.	C.P GIRI	kvbhelhardwar@gmail.com

Students

Sno.	Name	Email	Grade/Class
1.	RICHA CHAUHAN	kvbhelhardwar@gmail.com	12
2.	SAHIL SINGH	kvbhelhardwar@gmail.com	12
3.	VISHAL PANDWAL	kvbhelhardwar@gmail.com	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 (m2)	101,171
Ground coverage area	40,500
Green landscaped area on-ground	16,000
Surface parking area	0
Play area that is paved/ concrete on ground	40,500
Play area that has grass on ground	32,000
Service Area on ground	4,000

Roof and terrace area	40,500
Green cover on exposed roof & terrace	0
Total built up/constructed area	40,500
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	35	0	35
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

No documents uploaded by the school.



WATER

Task 1: Water Audit Team

Teachers

Sno.	Name	Email
1.	KIRAN SHARMA	kvbhelhardwar@gmail.com
2.	RITA DEVI	kvbhelhardwar@gmail.com
3.	INDU HALI	kvbhelhardwar@gmail.com

Administrative staff

Sno.	Name	Email
1.	M.B SAGAR	kvbhelhardwar@gmail.com
2.	APARNA TIWARI	kvbhelhardwar@gmail.com
3.	KUSUM SINGH	kvbhelhardwar@gmail.com
4.	SHASHI DAWRA	kvbhelhardwar@gmail.com

Students

Sno.	Name	Email	Grade/Class
1.	RIYA CHAUHAN	kvbhelhardwar@gmail.com	11
2.	AKANSHA BHARTI	kvbhelhardwar@gmail.com	11
3.	POOJA	kvbhelhardwar@gmail.com	12

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	2000
Toilet flushing	2100
Personal cleaning	2000
Washing clothes	0
Cooking	0
Cleaning Utensils	1000

Washing Vegetables	0
Mopping floors	1000
Gardening	3500
Total	11600

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?

Municipality

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?	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?	Yes
Does your school use appliances with a quick-wash setting?	No
Are dual flush systems installed in the toilets?	No
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?

No

6(a)

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

5000

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?

25

9

How many hand pumps do you have?

0

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

15

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

	Girls	Boys	Common	Total
Number of toilets	5	5	0	10

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

0

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?

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.	ROHINI MADAN	kvbhelhardwar@gmail.com
2.	VANDANA RAI	kvbhelhardwar@gmail.com

Administrative staff

Sno.	Name	Email
1.	CHARU RATURI	kvbhelhardwar@gmail.com
2.	RITU RATHORE	kvbhelhardwar@gmail.com

Students

Sno.	Name	Email	Grade/Class
1.	ARNAV VERMA	kvbhelhardwar@gmail.com	10
2.	ANUBHAV	kvbhelhardwar@gmail.com	10
3.	AKSHAY	kvbhelhardwar@gmail.com	10

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	40	0	40	0	0
Playgrounds	3	0	3	0	0
Common area (e.g. reception, corridors)	2	0	2	0	0
Staffroom	3	0	3	0	0
Laboratory	5	0	5	0	0

Canteen	2	0	2	0	0
Clinic/ Sick room	1	0	1	0	0
Library	1	0	1	0	0
Toilets	14	0	14	0	0
Others	0	0	0	0	0
Total	71	0	71	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	1
Paper	5
Plastic	0
Wood, glass, metal, classroom furniture	30
E-waste	10
Biomedical waste	0
Sanitary waste	2
Construction and Demolition (C & D) waste	3
Hazardous waste	0
Total Generated Solid Waste (in kilogram)	151

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?

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)	✓	✗	✗	✗

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?

Landfill Site

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	5	5	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)	81	81	0
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	2	1
Projectors	24	23	1

Whiteboards	24	24	0
Electrical & electronic typewriters	0	0	0
Pocket & desk calculators	5	5	0
Fax machines	1	1	0
Telex	0	0	0
Telephones	3	3	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?

No

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?

No

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?

WE NEED TRAINING

8

How would you rate the overall design of the audit?

Aspect	Good / Average /Bad
Content	Average
Distribution of time among tasks	Average
Sequencing of tasks	Average
Orientation for conducting tasks	Average

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. Electricity Bill