



GREEN SCHOOLS PROGRAMME

Responses for Green Schools Programme Audit 2016

School Name: Kendriya Vidyalaya , AFS Bawana
Address: Alr Force Station ,Bawana, New Delhi,
New Delhi, North West Delhi, Delhi, India
Coordinator Name: Saroj



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 , AFS Bawana

2

Address

Alr Force Station ,Bawana, New Delhi, New Delhi, North West Delhi, Delhi, India

3

Telephone Number (Landline Number with STD code)

(ISD) 91 (STD) 11 (NUMBER) 27754563

4

Mobile Number (Mobile Number with STD code)

(ISD) 91 (Number) 8800547055

5

Principal Name

Subhash Chander

6

GSP Coordinator Name

Saroj

7

GSP Coordinator Email

kvbawana@gmail.com

8

GSP Coordinator Mobile Number

(ISD)91 (Number) 9971675150

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	914	559	1473
Teachers	18	33	51
Non-Teaching Staff	06	00	6
TOTAL	938	592	1530

4(b)

How many visitors visit your school

40

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?

Nov

7

Where is the school located?

Urban Area



AIR

Task 1: Air Audit Team

Teachers

Sno.	Name	Email
1.	MR. P.N. PANDEY	MR. P.N. PANDEY
2.	MS. POONAM KUMARI	poonamshef@gmail.com
3.	MS. RAVITA	haddaravita81@gmail.com

Administrative staff

Sno.	Name	Email
1.	MR. SUBHASH CHANDER	kvbawana@gmail.com
2.	MR. F.C.BAJAJ	kv_bawana@yahoo.com
3.	MR. VINOD KUMAR	vinodkvs1964@gmail.com
4.	MR. RAKESH	rakeshdalal1992@gmail.com
5.	MR. KRISHAN CHANDER	kvbawana@rediff.com

Students

Sno.	Name	Email	Grade/Class
1.	HITESH	hiteshkvb11@gmail.com	11
2.	PRASHANT	prashantkvb11@gmail.com	11
3.	VIPIN	vipinkvb11@gmail.com	11
4.	SONIA	soniakvb11@gmail.com	11
5.	DEEPANSHU	deepanshukvb11@gmail.com	11
6.	NANDITA	nanditakvb10@gmail.com	10
7.	MURALI MANOHAR	muralikvb10@gmail.com	10
8.	ABHILASHA	abhilashakvb8@gmail.com	8
9.	MEHUL	mehulkvb8@gmail.com	8
10.	DIKSHA	dikshakvb8@gmail.com	8

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

1

How many classrooms does your school have?

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)
II A	49.30	10.69	21.68
II B	49.30	12.53	25.42
VII B	49.30	12.88	26.13
VII C	49.30	12.88	26.13
IX B	43.80	12.88	29.41
IX C	43.80	12.88	29.41
XI A	43.80	12.88	29.41
XI B	43.80	10.70	24.43
VI B	44.51	15.03	33.77
V C	49.00	7.50	15.31
TOTAL	465.91	120.85	

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
Schoool Bus	0	0	0	0
Public Bus	653	10	0	663
School Transport(Other than bus)	0	0	0	0
Public transport (other than bus, Metro, car pool)	620	13	0	633
Taxi four-wheeler	0	0	0	0

Taxi three-wheeler	0	0	0	0
Personal four-wheeler	40	13	2	55
Personal two-wheeler	40	10	2	52
Bicycle	50	0	0	50
On foot	70	4	2	76
Others (non-motorised)	0	0	0	0
SUB-TOTAL	1473	50	6	1528

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.	Mr. B.B. Varshney	bbv1968@gmail.com
2.	Ms. Ravita	haddaravita81@gmail.com
3.	Ms. Poonam	poonamshef@gmail.com

Administrative staff

Sno.	Name	Email
1.	Mr. Subhash Chander	kvbawana@gmail.com
2.	Mr. F.C. Bajaj	kv_bawana@yahoo.com
3.	Mr. Vinod Kumar	vinodkvs1964@gmail.com
4.	Mr. Rakesh	rakeshdalal1992@gmail.com
5.	Mr. Krishan Chander	kvbawana@rediff.com

Students

Sno.	Name	Email	Grade/Class
1.	Richa	0	6
2.	Sandhaya	0	6
3.	Newton	0	8
4.	Amit	0	8
5.	Anshul	0	10
6.	Rohit	0	10
7.	Dheeraj	0	10
8.	Krishan Murari	0	8
9.	Akash	0	10
10.	Amit	0	10

Task 2: How much energy does your school consume?

1

Does your school have access to an electricity bill?

Yes

Supporting Documents

1. 1bill.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)	9446	34005.60	1,2,5
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	9446.00	34005.60	

No documents uploaded by the school.

4

What appliances does your school have?

	Number	Size	BEE Star Rating
Air Conditioners	7	1.5	2
Refrigerator	1	165	0
Microwave	1	18	3
Tube Lights	545	36	0
CFL Bulbs	25	18	0
LED Lights	10	7	0
Fans	230	100	0

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?

180

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.	Ms. Shachi Aryan	shachiaryan@gmail.com
2.	Ms. Saroj	sarojajit@yahoo.com
3.	Ms. Nirma Ahuja	kvbawana@rediff.com

Administrative staff

Sno.	Name	Email
1.	Mr. Subhash Chander	kvbawana@gmail.com
2.	Mr. F.C. Bajaj	kv_bawana@yahoo.com
3.	Mr. Vinod Kumar	vinodkvs1964@gmail.com
4.	Mr. Rakesh	rakeshdalal1992@gmail.com
5.	Mr. Krishan Chander	kvbawana@rediff.com

Students

Sno.	Name	Email	Grade/Class
1.	Bhawna	0	9
2.	Kajal	0	9
3.	Pushpender	0	9
4.	Rohan	0	9
5.	Pooja	0	9
6.	Amisha	0	9
7.	Nandkishore	0	9
8.	Yash Khatri	0	9
9.	Devraj	0	9
10.	Shivanshu	0	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

No documents uploaded by the school.

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

1473.00

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	800	0
Confectionery items (chocolate, candies, gums)	0	200	0
Ice-cream	0	0	0
Carbonated beverages	0	0	0
Sugar sweetened noncarbonated beverages	0	60	0

Packaged/Bottled Nimboo Paani/ Lassi/ Flavoured milk	0	60	0
Packaged/Bottled Energy Drinks	0	0	0

No documents uploaded by the school.

4 Does your school serve traditional Indian snacks?

Yes

4(a) Please provide the details:

	Number of plates sold when on the menu
Samosas	250
Idli/vada and sambhar	0
Pav bhaji	0
Momos	0
Others	0

4(b) Give descriptions for rare local snacks served in your school:?

Chole-Bhature, patties, pakoras

5 Does your school serve traditional Indian beverages?

Yes

5(a) Details are as follows:

	Number of servings sold when on the menu
Nimboo pani	200
Sweet lassi	200
Salted butter milk	0
Aam Panna	0
Others	0

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

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.	Mr. BB Varshney	bbv1968@gmail.com
2.	Ms. Neetu Rani	kv_bawana@yahoo.com
3.	Ms. Ajit Singh	ajitkvsb@yahoo.co.in

Administrative staff

Sno.	Name	Email
1.	Mr. Shubhash Chander	kvbawana@gmail.com
2.	Mr. F.C. Bajaj	kv_bawana@yahoo.com
3.	Mr. Vinod Kumar	vinodkvs1964@gmail.com
4.	Mr. Rakesh	rakeshdalal1992@gmail.com
5.	Mr. Krishan Chander	kvbawana@rediff.com

Students

Sno.	Name	Email	Grade/Class
1.	REETIKA	0	12
2.	ALKA	0	12
3.	HIMANSHI	0	12
4.	POOJA	0	12
5.	PALLAVI	0	12
6.	MANSI	0	12
7.	SHWETA	0	12
8.	VAISHALI	0	12
9.	BHAVIKA	0	12
10.	AKASHDEEP	0	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)	44,556
Ground coverage area	28,369
Green landscaped area on-ground	16,187
Surface parking area	0
Play area that is paved/ concrete on ground	900
Play area that has grass on ground	14,000
Service Area on ground	287
Roof and terrace area	14,000
Green cover on exposed roof & terrace	0
Total built up/constructed area	14,000
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	75	50	125
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. school.jpg
2. 2.jpg
3. 3.jpg
4. 1.jpg



WATER

Task 1: Water Audit Team

Teachers

Sno.	Name	Email
1.	Mr. B.B. Varshney	bbv1968@gmail.com
2.	Mr. Chitra Sen	kvbawana@rediff.com
3.	Mr. Manoj Kulshrestha	kv_bawana@gmail.com

Administrative staff

Sno.	Name	Email
1.	Mr. Subhash Chander	kvbawana@gmail.com
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3.	Mr. Vinod	vinodkvs1964@gmail.com
4.	Mr. Rakesh	rakeshdalal1992@gmail.com
5.	Mr. Krishan Chander	kvbawana@rediff.com

Students

Sno.	Name	Email	Grade/Class
1.	Bhanupriya	0	9
2.	Shubham	0	9
3.	Jassica	0	9
4.	Ravneet	0	9
5.	Sucheta	0	9
6.	Shweta	0	10
7.	Nandita	0	10
8.	Yash	0	10
9.	Harshita	0	10
10.	Ankur	0	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	1666
Toilet flushing	1500
Personal cleaning	0
Washing clothes	0
Cooking	1
Cleaning Utensils	5
Washing Vegetables	3
Mopping floors	600
Gardening	1200
Total	4975

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?	Yes
Are dual flush systems installed in the toilets?	No
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?	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).

1120

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?

30

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	6	6	0	12

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

2

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

1

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.	Mr. G.D. Bari	kvbawana@gmail.com
2.	Mr. Rakesh Kumar	kv_bawana@yahoo.com
3.	Mr. A.K. Giri	kvbawana@rediff.com

Administrative staff

Sno.	Name	Email
1.	Mr. Subhash Chander	kv_bawana@yahoo.com
2.	Mr. F.C. Bajaj	kvbawana@gmail.com
3.	Mr. Vinod	vinodkvs1964@gmail.com
4.	Mr. Rakesh	rakeshdalal1992@gmail.com
5.	Mr. Krishan Chander	kvbawana@rediff.com

Students

Sno.	Name	Email	Grade/Class
1.	Bhawna	0	9
2.	Murali Manohar	0	10
3.	Deepak	0	10
4.	Ashima	0	10
5.	Shweta	0	10
6.	Satakshi	0	10
7.	Mohini	0	10
8.	Ashish	0	9
9.	Ishu	0	9
10.	Neha	0	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	36	0	36	0	0
Playgrounds	2	0	0	2	0
Common area (e.g. reception, corridors)	4	0	4	0	0
Staffroom	1	0	1	0	0
Laboratory	6	0	6	0	0
Canteen	1	0	1	0	0
Clinic/ Sick room	2	0	1	1	0
Library	2	0	1	1	0
Toilets	17	0	17	0	0
Others	0	0	0	0	0
Total	71	0	67	4	0

Supporting Documents

1. d1.jpg
2. d2.jpg
3. d3.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	100

Kitchen waste	0
Paper	25
Plastic	02
Wood, glass, metal, classroom furniture	0
E-waste	0
Biomedical waste	2
Sanitary waste	50
Construction and Demolition (C & D) waste	0
Hazardous waste	0
Total Generated Solid Waste (in kilogram)	179

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?

Designated dumping site (Dhalao)

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	4	4	0
VCR or DVD players	0	0	0
Refrigerators and freezers	1	1	0
Washing machines	0	0	0
Air conditioners	7	7	0
Heaters	0	0	0
Microwaves	1	1	0

Ovens	0	0	0
Toasters	0	0	0
Electric Kettles	2	2	0
Personal computers (CPU, mouse, screen and keyboard included)	106	106	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)	4	4	0
Projectors	15	15	0
Whiteboards	15	15	0
Electrical & electronic typewriters	0	0	0
Pocket & desk calculators	3	3	0
Fax machines	1	1	0
Telex	0	0	0
Telephones	6	6	0
Pay telephones	2	2	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 dismantler

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?

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?

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?

Guidance required for the following: 1) Policy on Waste Management. 2) REDUCE, RECYCLE & REUSE 3) Machine for recycling of paper 4) How to make school water efficient, water harvesting. 5) Plantations used to reduce Air Pollution 6) Air Quality Monitoring

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?

40.00

Checklist of uploaded documents

1. Electricity Bill
2. Pictures of Green Cover
3. Pictures of dustbins in classroom showing segregation at source
4. Pictures of playground with more than two dustbins