



# GREEN SCHOOLS PROGRAMME

## Responses for Green Schools Programme Audit 2016

**School Name:** Kendriya Vidyalaya N.F.C  
**Address:** Vigyan Vihar, Delhi , Delhi, Delhi, Delhi,  
India  
**Coordinator Name:** Ms. Namita Balodi



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 N.F.C

2

**Address**

Vigyan Vihar, Delhi , Delhi, Delhi, Delhi, India

3

**Telephone Number (Landline Number with STD code)**

(ISD) 91 (STD) 11 (NUMBER) 22152125

4

**Mobile Number (Mobile Number with STD code)**

(ISD) 91 (Number) 9911278153

5

**Principal Name**

Laxmi Singh

6

**GSP Coordinator Name**

Ms. Namita Balodi

7

**GSP Coordinator Email**

balodigpnamita@gmail.com

8

**GSP Coordinator Mobile Number**

(ISD)91 (Number) 8447047466

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	1286	1018	2304
Teachers	16	52	68
Non-Teaching Staff	8	3	11
TOTAL	1310	1073	2383

4(b)

How many visitors visit your school

2500

5

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

240

6

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

Aug, Sep, Oct, Nov

7

Where is the school located?

Urban Area



## AIR

### Task 1: Air Audit Team

#### Teachers

Sno.	Name	Email
1.	Mrs. Tanman Arora	Mrs. Tanman Arora

#### Administrative staff

Sno.	Name	Email
1.	Mr. Chetan	kvvigyanvihar@yahoo.co.in

#### Students

Sno.	Name	Email	Grade/Class
1.	Divyansh Choudhary	kvvigyanvihar@yahoo.co.in	VIII C
2.	Sourabh	kvvigyanvihar@yahoo.co.in	VIII C
3.	Jatin	kvvigyanvihar@yahoo.co.in	VIII C
4.	Dhruv Tyagi	kvvigyanvihar@yahoo.co.in	VIII C

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

1 How many classrooms does your school have?

48

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	40.60	2.80	6.90
II B	40.60	2.80	6.90
VI A	40.60	2.80	6.90
VII C	40.60	2.80	6.90
VIIIC	40.60	2.80	6.90
XA	40.60	2.80	6.90

XC	40.60	2.80	6.90
XI B	40.60	2.80	6.90
XI C	40.60	2.80	6.90
XII B	40.60	2.80	6.90
<b>TOTAL</b>	<b>406.00</b>	<b>28.00</b>	

### 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	452	0	2	454
School Transport(Other than bus)	0	0	0	0
Public transport (other than bus, Metro, car pool)	227	19	1	247
Taxi four-wheeler	0	0	0	0
Taxi three-wheeler	0	3	0	3
Personal four-wheeler	0	17	1	18
Personal two-wheeler	0	14	1	15
Bicycle	679	0	3	682
On foot	589	7	3	599
Others (non-motorised)	357	8	0	365
<b>SUB-TOTAL</b>	<b>2304</b>	<b>68</b>	<b>11</b>	<b>2383</b>

### 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?

Yes



## ENERGY

### Task 1: Energy Audit Team

#### Teachers

Sno.	Name	Email
1.	Mrs. Tanman Arora	kvvigyanvihar@yahoo.co.in

#### Administrative staff

Sno.	Name	Email
1.	Mrs. Rama Malhotra	kvvigyanvihar@yahoo.co.in

#### Students

Sno.	Name	Email	Grade/Class
1.	Gagandeep	kvvigyanvihar@yahoo.co.in	10
2.	Keshav	kvvigyanvihar@yahoo.co.in	10
3.	Domi Michael	kvvigyanvihar@yahoo.co.in	9
4.	Shreyas	kvvigyanvihar@yahoo.co.in	9

### Task 2: How much energy does your school consume?

1 Does your school have access to an electricity bill?

Yes

#### Supporting Documents

1. DSC\_0084.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
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Electricity from the board (kwh)	12552	45187.20	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)	40	144.00	1
Wind (kwh)	40	144.00	1
LPG (kilogrammes)	28	1444.80	3
Piped Natural Gas (kilogrammes)	0	0.00	0
<b>TOTAL</b>	<b>12660.00</b>	<b>46920.00</b>	

### Supporting Documents

1. DSC\_0084.JPG

4

What appliances does your school have?

	Number	Size	BEE Star Rating
Air Conditioners	5	1.5	3
Refrigerator	1	230	3
Microwave	2	0	0
Tube Lights	587	40	0
CFL Bulbs	5	0	0
LED Lights	12	0	0



Fans	345	0	0
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### Supporting Documents

1. DSC\_0200.JPG

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

5

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

240

6

Are there any alternate sources of energy employed/ installed in your school?

Yes

6(a)

Name the alternate sources of energy employed/ installed in your school?

Solar

### Supporting Documents

1. DSC\_0135.JPG
2. DSC\_0190.JPG



## FOOD

### Task 1: Food Audit Team

#### Teachers

Sno.	Name	Email
1.	Ms. Namita Balodi	kvvigyanvihar@yahoo.co.in

#### Administrative staff

Sno.	Name	Email
1.	Sushila Sharma	kvvigyanvihar@yahoo.co.in

#### Students

Sno.	Name	Email	Grade/Class
1.	Kanishka Jaint	kvvigyanvihar@yahoo.co.in	8
2.	Bhoomika	kvvigyanvihar@yahoo.co.in	8

### 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

Yes

2

Does your school serve midday meals?

No

2(a)

Do students bring their own lunch from home?

Yes

#### Supporting Documents

1. DSC\_0054.JPG
2. DSC\_0093.JPG
3. DSC\_0058.JPG
4. DSC\_0045.JPG
5. DSC\_0046.JPG

2(a)(1)

How many students out of total student population bring home-made lunch?

2304.00

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	5	252	9
Instant Noodles like Knorr, Cup-a-noodles, Top Ramen, Wai-wai, Yippee, Foodles, Maggi, etc	0	0	0
Potato fries and Burgers	1	126	9
Confectionery items (chocolate, candies, gums)	0	0	0
Ice-cream	0	0	0
Carbonated beverages	0	0	0
Sugar sweetened noncarbonated beverages	2	486	9
Packaged/Bottled Nimboo Paani/ Lassi/ Flavoured milk	0	0	0

Packaged/Bottled Energy Drinks	0	0	0
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## Supporting Documents

1. DSC\_0039.JPG

4

Does your school serve traditional Indian snacks?

Yes

4(a)

Please provide the details:

	Number of plates sold when on the menu
Samosas	35
Idli/vada and sambhar	0
Pav bhaji	0
Momos	0
Others	7

4(b)

Give descriptions for rare local snacks served in your school:?

nil

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. DSC\_0030.JPG
2. DSC\_0036.JPG



## LAND

### Task 1: Land Audit Team

#### Teachers

Sno.	Name	Email
1.	Mr. Pushkar	kvvigyanvihar@yahoo.co.in

#### Administrative staff

Sno.	Name	Email
1.	Mrs. Priya	kvvigyanvihar@yahoo.co.in

#### Students

Sno.	Name	Email	Grade/Class
1.	Domi Michael	kvvigyanvihar@yahoo.co.in	9
2.	Shreyas	kvvigyanvihar@yahoo.co.in	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)	18,697
Ground coverage area	7,487
Green landscaped area on-ground	2,454
Surface parking area	680
Play area that is paved/ concrete on ground	870
Play area that has grass on ground	7,296
Service Area on ground	0
Roof and terrace area	1,075
Green cover on exposed roof & terrace	0
Total built up/constructed area	5,605

Total no. of floors	3
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	78	0	78
Animals	19	0	19

### 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. DSC\_0075.JPG
2. DSC\_0173.JPG
3. DSC\_0183.JPG
4. DSC\_0189.JPG
5. DSC\_0193.JPG



## WATER

### Task 1: Water Audit Team

#### Teachers

Sno.	Name	Email
1.	Ms Jyoti Taneja	kvvigyanvihar@yahoo.co.in

#### Administrative staff

Sno.	Name	Email
1.	Mr. Dilip	kvvigyanvihar@yahoo.co.in

#### Students

Sno.	Name	Email	Grade/Class
1.	Ruma Malik	kvvigyanvihar@yahoo.co.in	11
2.	Suchorita	kvvigyanvihar@yahoo.co.in	11
3.	Niharika	kvvigyanvihar@yahoo.co.in	8
4.	Huda	kvvigyanvihar@yahoo.co.in	8
5.	Kanika	kvvigyanvihar@yahoo.co.in	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	1500
Toilet flushing	13000
Personal cleaning	2000
Washing clothes	0
Cooking	15
Cleaning Utensils	22
Washing Vegetables	60
Mopping floors	1500



Gardening	4000
Total	22097

### 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, Recycled waste 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

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?	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

**Supporting Documents**

1. DSC\_0100.JPG
2. DSC\_0218.JPG

**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).

2765

**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?

22

9 How many hand pumps do you have?

0

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

96

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

	Girls	Boys	Common	Total
Number of toilets	22	26	1	49

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

40

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

3

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?

Yes

18(a) How does your school reuse wastewater?

Gardening, Flushing, Recharge Ground Water

No documents uploaded by the school.



## WASTE

### Task 1: Waste Audit Team

#### Teachers

Sno.	Name	Email
1.	Mrs. Durgesh Sharma	kvvigyanvihar@yahoo.co.in

#### Administrative staff

Sno.	Name	Email
1.	Mr. Ishwar	kvvigyanvihar@yahoo.co.in

#### Students

Sno.	Name	Email	Grade/Class
1.	Aditya Kumar	kvvigyanvihar@yahoo.co.in	7
2.	Priyanshi Sharma	kvvigyanvihar@yahoo.co.in	7
3.	Manya	kvvigyanvihar@yahoo.co.in	7
4.	Nikita Raj	kvvigyanvihar@yahoo.co.in	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. Students and teachers
2. Housekeeping (Sweeper)
3. Gardener

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	48	0	48	0	0

Playgrounds	2	0	2	0	0
Common area (e.g. reception, corridors)	13	0	10	0	3
Staffroom	2	0	2	0	0
Laboratory	4	0	4	0	0
Canteen	2	0	1	0	1
Clinic/ Sick room	1	0	1	0	0
Library	1	0	1	0	0
Toilets	15	0	15	0	0
Others	0	0	0	0	0
Total	88	0	84	0	4

### Supporting Documents

1. DSC\_0118.JPG
2. DSC\_0124.JPG
3. DSC\_0137.JPG
4. DSC\_0138.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	10
Kitchen waste	15
Paper	26
Plastic	10
Wood, glass, metal, classroom furniture	2
E-waste	0
Biomedical waste	1

Sanitary waste	23
Construction and Demolition (C & D) waste	0
Hazardous waste	0
Total Generated Solid Waste (in kilogram)	87

### Supporting Documents

1. DSC\_0158.JPG
2. DSC\_0233.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	10
Kitchen waste	15
Paper	26
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)	51

5

Does your school have a composting facility?

Yes

### Supporting Documents

1. DSC\_0180.JPG
2. DSC\_0147.JPG
3. DSC\_0146.JPG
4. DSC\_0162.JPG
5. Paper mache - recycling.JPG

5a

What is the methodology used?

Natural composting without added microbes  
 Mechanical composting (with electricity/  
 machines)  
 Other: vermicomposting

5b

What is the quantity of compost that is generated per month(in kilogram)?

8.00

5c

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

For school garden

6

Does your school encourage students &amp; 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. DSC\_0162.JPG
2. DSC\_0169.JPG
3. DSC\_0155.JPG
4. Paper mache - recycling.JPG
5. DSC\_0154.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?

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	0	0	0
Refrigerators and freezers	1	1	0
Washing machines	0	0	0
Air conditioners	5	5	0
Heaters	0	0	0
Microwaves	2	2	0

Ovens	0	0	0
Toasters	0	0	0
Electric Kettles	2	2	0
Personal computers (CPU, mouse, screen and keyboard included)	107	107	0
Laptop computer (CPU, mouse, screen and keyboard included)	0	0	0
Notebook computers	0	0	0
Notepad computers	0	0	0
Printers	9	9	0
Copying equipment (Photocopiers)	2	2	0
Projectors	15	15	0
Whiteboards	15	15	0
Electrical & electronic typewriters	0	0	0
Pocket & desk calculators	4	4	0
Fax machines	1	1	0
Telex	0	0	0
Telephones	17	17	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?

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

### Supporting Documents

1. DSC03765.JPG
2. DSC03777.JPG
3. van mahotsav %2839%29.JPG
4. van mahotsav %2859%29.JPG
5. DSC\_0202.JPG

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

### Supporting Documents

1. DSC\_0137.JPG



## 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?

2011

1(b)

If yes, how many times have you done the audit?

6

2

Have teachers from your school participated in teacher interactive workshops organized by the GSP team?

Yes

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?

Rain Water Harvesting Unit

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>Yes</p>
11	<p>How many times did you contact the Green Schools Programme Team for guidance and counseling?</p> <p>More than twice</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>Yes</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>60.00</p>

### Checklist of uploaded documents

1. Electricity Bill
2. Picture of 5 star appliances used by school
3. Picture of Renewable sources of Energy
4. Photographs of lunch boxes
5. Picture of Canteen selling UPPF
6. Traditional food items sold in canteen
7. Pictures of Green Cover
8. Pictures of landscaped area
9. Building construction plan
10. Pictures of dustbins in classroom showing segregation at source
11. Pictures of playground with more than two dustbins
12. Picture of audit team weighing solid waste
13. Picture of types of solid waste generated
14. Pictures of recycling units - composting pit, paper recycling machine, selling paper to kabadiwala, recyclers, etc
15. Pictures of housekeeping staff disposing different types of solid waste
16. Pictures of various school initiatives e.g. rally, debate, street play, art competition, etc
17. Pictures of respective audit teams doing survey