



# GREEN SCHOOLS PROGRAMME

## Responses for Green Schools Programme Audit 2016

**School Name:** KENDRIYA VIDYALAYA IIT POWAI  
**Address:** Kendriya Vidyalaya IIT Powai, mumbai,  
Maharashtra, mumbai, Maharashtra-  
400076, KV\_Mumbai, Mumbai City,  
Maharashtra, India  
**Coordinator Name:** BABITA THUKRAL



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 IIT POWAI

2

**Address**Kendriya Vidyalaya IIT Powai, mumbai, Maharashtra, mumbai, Maharashtra-400076,  
KV\_Mumbai, Mumbai City, Maharashtra, India

3

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

(ISD) 91 (STD) 022 (NUMBER) 25725061

4

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

(ISD) 91 (Number) 8689829486

5

**Principal Name**

MAMATA BHATTACHARYA

6

**GSP Coordinator Name**

BABITA THUKRAL

7

**GSP Coordinator Email**

babitathukral@gmail.com

8

**GSP Coordinator Mobile Number**

(ISD)91 (Number) 9004778877

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	1134	963	2097
Teachers	14	50	64
Non-Teaching Staff	7	2	9
TOTAL	1155	1015	2170

4(b)

How many visitors visit your school

100

5

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

219

6

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

Jan

7

Where is the school located?

Urban Area



## AIR

### Task 1: Air Audit Team

#### Teachers

Sno.	Name	Email
1.	Selvam M	Selvam M
2.	Babita Thukral	babitathukral@gmail.com
3.	Sugandhi P	sugandhipeter@gmail.com

#### Administrative staff

Sno.	Name	Email
1.	Lavanya B	lavanyab30@gmail.com
2.	K J Kaushal	kaushalkviit@gmail.com
3.	S K Wale	sk.wale1971@gmail.com
4.	Divya Singh	divyaskviit@gmail.com
5.	Kamlesh Upadhyay	k.haripuri@yahoo.com

#### Students

Sno.	Name	Email	Grade/Class
1.	Kiran M	neetmishra@gmail.com	11
2.	Athira	athira.13050@gmail.com	11
3.	Akansha	akankshaakode2001@gmail.com	11
4.	Hrutu bala	b.hrutu@gmail.com	11
5.	Taramati	kodaktaramati@gmail.com	11
6.	Shravanee	swara15shr@gmail.com	8
7.	Akansha	akdeep610@gmail.com	8
8.	Abhishek Datta	theabhishekdata@gmail.com	8
9.	Sairaj Parle	shankarnkviit@gmail.com	11
10.	Sarvesh Wale	sk.wale1971@gmail.com	11

### 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)
1 ABCD	660.00	120.00	18.18
2 ABCD	660.00	120.00	18.18
3 ABCD	660.00	120.00	18.18
4 ABCD	660.00	120.00	18.18
5 ABCD	660.00	120.00	18.18
6 ABCD	660.00	120.00	18.18
7 ABCD	660.00	120.00	18.18
8 ABCD	660.00	120.00	18.18
9 ABCD & 10 ABCD	1,320.00	240.00	18.18
11 ABCD & 12 ABCD	1,320.00	240.00	18.18
TOTAL	7,920.00	1,440.00	

### 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	635	10	0	645
School Transport(Other than bus)	0	0	0	0
Public transport (other than bus, Metro, car pool)	202	6	0	208
Taxi four-wheeler	80	0	0	80

Taxi three-wheeler	92	8	1	101
Personal four-wheeler	85	12	0	97
Personal two-wheeler	0	16	2	18
Bicycle	703	1	0	704
On foot	300	11	6	317
Others (non-motorised)	0	0	0	0
<b>SUB-TOTAL</b>	<b>2097</b>	<b>64</b>	<b>9</b>	<b>2170</b>

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

5

How many students suffer from respiratory ailments ?

22

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.	G Kapde	glkapade@gmail.com
2.	Selvam M	selvammuthiah9@gmail.com
3.	Mr Kamble	nirkaay24@gmail.com

#### Administrative staff

Sno.	Name	Email
1.	Meenakshi s	mshkviitm@gmail.com
2.	Sugandhi Peter	sugandhipeter@gmail.com
3.	K J Kaushal	kaushalkviit@gmail.com
4.	B lavanya	lavanyab30@gmail.com
5.	Babita Thukral	babitathukral@gmail.com

#### Students

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1.	Kiran M	neetmishra@gmail.com	11
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3.	Hrutu bala	b.hrutu@gmail.com	11
4.	Akanksha	akankshaakode2001@gmail.com	11
5.	Taramati	kodaktaramati@gmail.com	11
6.	Shrawani	swara15shr@gmail.com	8
7.	Akansha	akdeep610@gmail.com	8
8.	Abhishek Datta	theabhishekdatta@gmail.com	8
9.	Sairaj Parle	shankarnkviit@gmail.com	11
10.	Sarvesh	sk.wale1971@gmail.com	11

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

1

Does your school have access to an electricity bill?

Yes

## Supporting Documents

1. nav.jpg
2. nav.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)	5534	19922.40	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)	1	51.60	1
Piped Natural Gas (kilogrammes)	0	0.00	0
TOTAL	5535.00	19974.00	

No documents uploaded by the school.



4

What appliances does your school have?

	Number	Size	BEE Star Rating
Air Conditioners	8	1.5	0
Refrigerator	255	0	35
Microwave	0	0	0
Tube Lights	250	40	0
CFL Bulbs	0	0	0
LED Lights	0	0	0
Fans	250	50	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?

246

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.	MANJULI SHARMA	sharmamanjuli38@gmail.com
2.	R N PRASAD	rnprasadskt@gmail.com
3.	BABITA THUKRAL	babitathukral@gmail.com

#### Administrative staff

Sno.	Name	Email
1.	S K WALE	sk.wale1971@gmail.com
2.	B LAVANYA	lavanyab30@gmail.com
3.	K J KAUSHAL	kkaushalkviit@gmail.com
4.	DIVYA SINGH	divyaskviit@gmail.com
5.	KAMLESH UPADHYAY	k.haripuri@yahoo.com

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5.	Taramati	kodaktaramati@gmail.com	11
6.	Shrawani	swara15shr@gmail.com	8
7.	Akansha	akdeep610@gmail.com	8
8.	Abhishek Datta	theabhishekdatta@gmail.com	8
9.	Sairaj Parle	shankarnkviit@gmail.com	11
10.	Sarvesh	sk.wale1971@gmail.com	11

### 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?

1170.00

2(a)(2)

Of the students who bring lunch from home, how many bring packaged food?

30.00

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?

No

7 Does the school distribute chocolates/similar products as refreshments during schools events?

Yes

7(a) Please provide the names?

CADBURY DAIRYMILK

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.	S K WALE	skwale1971@gmail.com
2.	R N PRASAD	rnprasadskt@gmail.com
3.	SANTOSH YADAV	santoss_03@rediffmail.com

#### Administrative staff

Sno.	Name	Email
1.	B LAVANYA	lavanyab30@gmail.com
2.	K J KAUSHAL	kaushalkviit@gmail.com
3.	DIVYA SINGH	divyaskviit@gmail.com
4.	BABITA THUKRAL	babitathukral@gmail.com

#### Students

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9.	Sairaj Parle	shankarnkviit@gmail.com	
10.	Sarvesh	sk.wale1971@gmail.com	

### Task 2: Measure the four critical areas of your school campus

1

Complete the table:

	Your school's area
Site area in square meter (m <sup>2</sup> )	12,000

Ground coverage area	5,600
Green landscaped area on-ground	300
Surface parking area	500
Play area that is paved/ concrete on ground	800
Play area that has grass on ground	400
Service Area on ground	5,600
Roof and terrace area	4,960
Green cover on exposed roof & terrace	0
Total built up/constructed area	4,960
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	50	30	80
Animals	10	0	10

### Task 4: Find out if your school uses pesticides

4

Do you use chemical based pesticides in your school green cover?

Yes

No documents uploaded by the school.



## WATER

### Task 1: Water Audit Team

#### Teachers

Sno.	Name	Email
1.	K J KAUSHAL	kaushalkviit@gmail.com
2.	DIVYA SINGH	divyaskviit@gmail.com
3.	R N PRASAD	rnprasadskt@gmail.com

#### Administrative staff

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3.	Hrutu bala	b.hrutu@gmail.com	
4.	Akanksha	akankshaakode2001@gmail.com	
5.	Taramati	kodaktaramati@gmail.com	

### 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	3000
Toilet flushing	3000
Personal cleaning	1000
Washing clothes	0
Cooking	2

Cleaning Utensils	2
Washing Vegetables	0
Mopping floors	200
Gardening	200
Total	7404

### 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?	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?	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).

4528

### 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?

14

9 How many hand pumps do you have?

1

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	27	29	1	57

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

16

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?

No

15 Is the water supply sufficient?

Yes

16 Are the toilets cleaned?

Yes

16(a) If yes, please specify

More than 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?

No

18(a) Please specify the fate of wastewater

Used for gardening and horticulture

No documents uploaded by the school.



## WASTE

### Task 1: Waste Audit Team

#### Teachers

Sno.	Name	Email
1.	K J KAUSHAL	kaushalkviit@gmail.com
2.	DIVYA SINGH	divyaskviit@gmail.com

#### Administrative staff

Sno.	Name	Email
1.	B LAVANYA	lavanyab30@gmail.com
2.	KAMLESH UPADHYAY	k.haripuri@yahoo.com
3.	S K WALE	sk.wale1971@gmail.com

#### Students

Sno.	Name	Email	Grade/Class
1.	Shrawani	swara15shr@gmail.com	8
2.	Akansha	akdeep610@gmail.com	8
3.	Abhishek Datta	theabhishekdata@gmail.com	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. Housekeeping (Sweeper)
2. 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	1	0	1	0	0

Playgrounds	3	0	1	1	1
Common area (e.g. reception, corridors)	2	0	1	1	0
Staffroom	1	0	1	0	0
Laboratory	1	0	1	0	0
Canteen	0	0	0	0	0
Clinic/ Sick room	1	0	1	0	0
Library	1	0	1	0	0
Toilets	1	0	1	0	0
Others	1	0	1	0	0
Total	12	0	9	2	1

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	25
Kitchen waste	1
Paper	15
Plastic	2
Wood, glass, metal, classroom furniture	1
E-waste	2
Biomedical waste	1
Sanitary waste	5
Construction and Demolition (C & D) waste	2
Hazardous waste	1

Total Generated Solid Waste (in kilogram)

55

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 &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)	✗	✗	✓	✗

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	0	0	0
VCR or DVD players	0	0	0
Refrigerators and freezers	2	1	1
Washing machines	0	0	0
Air conditioners	16	8	8
Heaters	0	0	0
Microwaves	0	0	0
Ovens	4	2	2
Toasters	0	0	0
Electric Kettles	0	0	0
Personal computers (CPU, mouse, screen and keyboard included)	105	95	10
Laptop computer (CPU, mouse, screen and keyboard included)	0	0	0
Notebook computers	0	0	0
Notepad computers	0	0	0
Printers	5	5	0
Copying equipment (Photocopiers)	2	2	0
Projectors	24	24	0

Whiteboards	30	30	0
Electrical & electronic typewriters	0	0	0
Pocket & desk calculators	5	5	0
Fax machines	0	0	0
Telex	0	0	0
Telephones	6	6	0
Pay telephones	2	2	0
Mobiles	85	85	0
Answering systems	1	1	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 dealer

## 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

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?

Proper Training of faculty and children is required also if GSP Can provide us with some guidelines.

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?

Once

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?

500.00

**Checklist of uploaded documents**

1. Electricity Bill