



# GREEN SCHOOLS PROGRAMME

## Responses for Green Schools Programme Audit 2016

**School Name:** KENDRIYA VIDYALAYA  
**Address:** INDIAN INSTITUTE OF SCIENCE,  
BANGALORE, BANGALORE,  
BANGALORE URBAN, Karnataka, India  
**Coordinator Name:** G PONSANKARI



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

2

Address

INDIAN INSTITUTE OF SCIENCE, BANGALORE, BANGALORE, BANGALORE URBAN,  
Karnataka, India

3

Telephone Number (Landline Number with STD code)

(ISD) 91 (STD) 80 (NUMBER) 23371316

4

Mobile Number (Mobile Number with STD code)

(ISD) 91 (Number) 9741958477

5

Principal Name

DIN BANDHU PATHAK

6

GSP Coordinator Name

G PONSANKARI

7

GSP Coordinator Email

ponshankari@gmail.com

8

GSP Coordinator Mobile Number

(ISD)91 (Number) 9449786943

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	838	801	1639
Teachers	16	27	43
Non-Teaching Staff	4	3	7
TOTAL	858	831	1689

4(b)

How many visitors visit your school

50

5

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

210

6

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

Sep, Oct

7

Where is the school located?

Urban Area



## AIR

### Task 1: Air Audit Team

#### Teachers

Sno.	Name	Email
1.	U K SINGH	U K SINGH

#### Administrative staff

Sno.	Name	Email
1.	MRS. GOWRAMMA	shenvipriyas@gmail.com

#### Students

Sno.	Name	Email	Grade/Class
1.	VISHAL RS		
2.	AKSHAY BHAT		
3.	VAMSIKRISHNA		
4.	PRANEETH R		
5.	ASHISH C		
6.	ROOPTAK M		
7.	SAIVISHESH REDDY		
8.	ANKITA PANIGRAHI		
9.	JAYITA MAITI		
10.	ADITYA VERMA		

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

1 How many classrooms does your school have?

34

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)
I	48.33	7.20	14.90
II	48.33	7.20	14.90

III	48.33	7.20	14.90
IV	48.33	7.20	14.90
V	48.33	7.20	14.90
VI	50.23	8.60	17.12
VII	50.23	8.60	17.12
VIII	50.23	8.60	17.12
IX	50.23	8.60	17.12
X	50.23	8.60	17.12
TOTAL	492.80	79.00	

### 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	816	22	0	838
School Transport(Other than bus)	150	0	0	150
Public transport (other than bus, Metro, car pool)	100	1	3	104
Taxi four-wheeler	0	0	2	2
Taxi three-wheeler	0	0	2	2
Personal four-wheeler	56	6	0	62
Personal two-wheeler	100	8	0	108
Bicycle	100	0	0	100
On foot	317	6	0	323

Others (non-motorised)	0	0	0	0
SUB-TOTAL	1639	43	7	1689

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

5

How many students suffer from respiratory ailments ?

126

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.G.PONSANKARI	ponshankari@gmail.com

#### Administrative staff

Sno.	Name	Email
1.	MR. MOHAN	

#### Students

Sno.	Name	Email	Grade/Class
1.	S SAGAR		
2.	EUHID AMAN		
3.	VIJAY SRIPADA T S		
4.	S SRIMAN		
5.	RENEE TERESA		

### 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)	500	1800.00	3

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)	100	360.00	0
Wind (kwh)	0	0.00	0
LPG (kilogrammes)	0	0.00	0
Piped Natural Gas (kilogrammes)	0	0.00	0
<b>TOTAL</b>	<b>600.00</b>	<b>2160.00</b>	

## Supporting Documents

1. FUEL BILL.docx

4

What appliances does your school have?

	Number	Size	BEE Star Rating
Air Conditioners	0	0	0
Refrigerator	1	185	4
Microwave	1	20	4
Tube Lights	400	40	3
CFL Bulbs	20	20	3
LED Lights	20	10	3
Fans	200	50	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?

245

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. Installation of Solar Panels in Secondary Section....doc



## FOOD

### Task 1: Food Audit Team

#### Teachers

Sno.	Name	Email
1.	T RAJESWARI	rajeswari.t95@gmail.com

#### Administrative staff

Sno.	Name	Email
1.	VIJAYA KUMAR	

#### Students

Sno.	Name	Email	Grade/Class
1.	AKHALYA		
2.	G GAUTAM		
3.	RUTHVIK MANYAM		
4.	VIJAYALAKSHMI		
5.	PRERANA SHET		
6.	PRITHVI IYENGAR		
7.	H L GREESHMA		

### 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?

1679.00

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

10.00

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

DUring Independence day we distribute nandini milk or sweets

7

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

Yes

7(a)

Please provide the names?

Dairy Milk

8

Are your school events such as quiz shows, talent shows, debates sponsored by food companies/brands?

No

**Supporting Documents**

1. TEAM new.doc



## LAND

### Task 1: Land Audit Team

#### Teachers

Sno.	Name	Email
1.	MRS. VASANTHA J	vasanthakv1994@gmail.com

#### Administrative staff

Sno.	Name	Email
1.	VIJAYA KUMAR	

#### Students

Sno.	Name	Email	Grade/Class
1.	ABHIJNYA BHAT		
2.	PRIYABALA GOVINDSAMI		
3.	AMAR S WALI		
4.	AMODHS GUTTAL		
5.	ASHWIN S		
6.	AMRUT S WALI		
7.	BHAGWAN M AIGAR		

### 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)	46,238
Ground coverage area	43,706
Green landscaped area on-ground	750
Surface parking area	100
Play area that is paved/ concrete on ground	680
Play area that has grass on ground	0
Service Area on ground	0

Roof and terrace area	1,988
Green cover on exposed roof & terrace	0
Total built up/constructed area	10,612
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	183	96	279
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

#### Supporting Documents

1. IMG\_20151119\_122939.jpg
2. IMG\_20151119\_130713018\_HDR.jpg



## WATER

### Task 1: Water Audit Team

#### Teachers

Sno.	Name	Email
1.	MRS. R SAROJA	sarojar63@yahoo.com

#### Administrative staff

Sno.	Name	Email
1.	GOWRAMMA	

#### Students

Sno.	Name	Email	Grade/Class
1.	ACHYUTA		
2.	RAHUL KARIAPPA T S		
3.	MANAS PRATAP		
4.	MAYANK PRATAP		
5.	NANDISH M		
6.	ADITYA M		

### 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	1615
Toilet flushing	2608
Personal cleaning	156
Washing clothes	0
Cooking	0
Cleaning Utensils	22
Washing Vegetables	0

Mopping floors	40
Gardening	125
Total	4566

### 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

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



Any other step taken for water conservation? (if Yes, please specify)

Yes

### Supporting Documents

1. IMG\_20151120\_093645.jpg
2. Class VI and VII students explaining the techniques of.doc

## 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?.

Yes

6(a)(1)

Which is the catchment area being harvested by your school?

Rooftop + Paved

6(b)

How does your school harvest rainwater?

By storing

6(b)(1)

If your school only stores rainwater, please select the use of stored rainwater.

Gardening, Toilets

6(b)(2)

Does your school have rainwater storage tank?

Yes

6(b)(2)(a)

Total capacity of storage tank (litres)

10000.00

6(b)(2)(b)

Total number of storage tanks

2.00

6(b)(2)(c)

Location of tanks:

Over ground

6(b)(2)(d)

Material options for tanks

Combination of PVC + RCC + Brick

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

10 to 20 per cent

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

Storage tank, Collection sump

6(e) Rate your catchment on cleanliness:

Good

No documents uploaded by the school.

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

Yes

6(f)(1) Please specify when does your school clean the catchment and RWH system?

Post-monsoon

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

Yes

6(g)(1) Please specify when does your school monitor the groundwater level?

Post-monsoon

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?	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?

15

9 How many hand pumps do you have?

0

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

9

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

	Girls	Boys	Common	Total
Number of toilets	22	34	0	56

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

31

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

15

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?

Yes

18

Does your school reuse the treated wastewater?

Yes

18(a)

How does your school reuse wastewater?

Flushing

No documents uploaded by the school.



## WASTE

### Task 1: Waste Audit Team

#### Teachers

Sno.	Name	Email
1.	MRS. G PONSHANKARI	ponshankari@gmail.com

#### Administrative staff

Sno.	Name	Email
1.	PRASHEELA	

#### Students

Sno.	Name	Email	Grade/Class
1.	PADMALOCHINI		
2.	TRUPTI		
3.	VISHNUPRIYA		
4.	SAMYUKTHA		
5.	SHREYAS		
6.	SUMANTH		

### 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	34	0	34	0	0
Playgrounds	1	0	1	0	0

Common area (e.g. reception, corridors)	5	0	5	0	0
Staffroom	1	0	1	0	0
Laboratory	5	0	1	4	0
Canteen	0	0	0	0	0
Clinic/ Sick room	1	0	1	0	0
Library	1	0	1	0	0
Toilets	10	0	5	5	0
Others	0	0	0	0	0
Total	58	0	49	9	0

### Supporting Documents

1. WASTE2.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	25
Paper	100
Plastic	50
Wood, glass, metal, classroom furniture	25
E-waste	50
Biomedical waste	35
Sanitary waste	40
Construction and Demolition (C & D) waste	25
Hazardous waste	0

Total Generated Solid Waste (in kilogram)

450

### Supporting Documents

1. WASTE 1.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	50
Kitchen waste	40
Paper	30
Plastic	25
Wood, glass, metal, classroom furniture	10
E-waste	15
Biomedical waste	10
Sanitary waste	25
Construction and Demolition (C & D) waste	10
Hazardous waste	0
Total (in kilogram)	215

5

Does your school have a composting facility?

Yes

### Supporting Documents

1. COMPOSTING.jpg

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)?

50.00

5c

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

For horticultural purposes

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. KABADDI.jpg

## 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)

**Supporting Documents**

1. WASTE 1.jpg

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	0	1
VCR or DVD players	0	0	0
Refrigerators and freezers	1	1	0
Washing machines	0	0	0
Air conditioners	0	0	0
Heaters	0	0	0
Microwaves	1	1	0
Ovens	0	0	0
Toasters	0	0	0
Electric Kettles	1	1	0
Personal computers (CPU, mouse, screen and keyboard included)	90	90	0
Laptop computer (CPU, mouse, screen and keyboard included)	0	0	0
Notebook computers	0	0	0
Notepad computers	0	0	0
Printers	7	7	0
Copying equipment (Photocopiers)	5	5	0
Projectors	9	9	0

Whiteboards	10	10	0
Electrical & electronic typewriters	0	0	0
Pocket & desk calculators	12	12	0
Fax machines	1	0	1
Telex	1	1	0
Telephones	5	5	0
Pay telephones	0	0	0
Mobiles	0	00	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?

Kabadiwalla/ Scrapdealer

## 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?

Yes

1(a)

If yes, then in which year did your school first participate in the GSP Audit?

2015

1(b)

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

1

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?

WORKSHOPS

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?

25.00

### Checklist of uploaded documents

1. Pictures of landscaped area
2. Picture of types of solid waste generated
3. Certificate of disposing e-waste from authorised dealer/dismantler