



# GREEN SCHOOLS PROGRAMME

## Responses for Green Schools Programme Audit 2016

**School Name:** KENDRIYA VIDYALAYA NO.2  
MANGALORE

**Address:** EKKUR, OPPOSITE FISHERIES  
COLLEGE, KANKANADY P.O.,  
MANGALORE, DAKSHINA KANNADA,  
Karnataka, India

**Coordinator Name:** RAVI RAJESH



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 NO.2 MANGALORE

2

Address

EKKUR, OPPOSITE FISHERIES COLLEGE, KANKANADY P.O., MANGALORE, DAKSHINA  
KANNADA, Karnataka, India

3

Telephone Number (Landline Number with STD code)

(ISD) 91 (STD) 824 (NUMBER) 2244755

4

Mobile Number (Mobile Number with STD code)

(ISD) 91 (Number) 9085321857

5

Principal Name

N.S YADAV

6

GSP Coordinator Name

RAVI RAJESH

7

GSP Coordinator Email

ravirajesh2005@rediffmail.com

8

GSP Coordinator Mobile Number

(ISD)91 (Number) 9972284224

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	414	400	814
Teachers	9	25	34
Non-Teaching Staff	4	3	7
TOTAL	427	428	855

4(b)

How many visitors visit your school

5

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?

Aug

7

Where is the school located?

Urban Area



## AIR

### Task 1: Air Audit Team

#### Teachers

Sno.	Name	Email
1.	PADMANABHAN K	PADMANABHAN K
2.	SUJATHA U NAIR	sujathaunair@gmail.com
3.	PRATHISH C P	prathishcp@gmail.com

#### Administrative staff

Sno.	Name	Email
1.	RAJARAM BHAT	rajarambhat64@gmail.com
2.	PARVEEN KHASA	parveen.khasa@gmail.com
3.	PANKAJ KUMAR CHOUHAN	pankajf.arts@gmail.com
4.	AWADESH KUMAR YADAV	awadeshyaduvanshi007@gmail.com
5.	SURENDERA KUMAR	surendragurjar810@gmail.com

#### Students

Sno.	Name	Email	Grade/Class
1.	NEHA M	100nandanam@gmail.com	10
2.	AVANTHIKA MENON	mpmenon@yahoo.com	9
3.	Y NAGA SAMHITHA	ynagasamhita@gmail.com	10
4.	SHREYA RAO	raoshreya70@gmail.com	10
5.	PRERANA S	prerana361@gmail.com	10
6.	SHRIJA B	shrijab@yahoo.com	10
7.	DISHA RAJESH SUVARNA	rajsuvarna@yahoo.com	9
8.	DRISHYA R	pj.ramesh@ymail.com	9
9.	SHUBHA KEERTHI	jayashreen30@gmail.com	9
10.	HARIKRISHNAN K S	lalujiith@gmail.com	9

### 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)
1A	32.50	13.00	40.00
2A	32.50	13.00	40.00
3B	32.50	13.00	40.00
4A	32.50	13.00	40.00
5B	32.50	13.00	40.00
6A	32.50	13.00	40.00
7B	32.50	13.00	40.00
8A	32.50	13.00	40.00
9A	32.50	13.00	40.00
12	32.50	13.00	40.00
TOTAL	325.00	130.00	

### 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?

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	234	8	5	247
School Transport(Other than bus)	0	0	0	0
Public transport (other than bus, Metro, car pool)	116	5	0	121
Taxi four-wheeler	14	2	0	16

Taxi three-wheeler	38	3	0	41
Personal four-wheeler	42	5	0	47
Personal two-wheeler	87	7	1	95
Bicycle	29	0	0	29
On foot	254	4	1	259
Others (non-motorised)	0	0	0	0
<b>SUB-TOTAL</b>	<b>814</b>	<b>34</b>	<b>7</b>	<b>855</b>

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

5 How many students suffer from respiratory ailments ?

43

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.	SUJATHA U NAIR	sujathaunair@gmail.com

#### Administrative staff

Sno.	Name	Email
1.	PARVEEN KHASA	parveen.khasa@gmail.com

#### Students

Sno.	Name	Email	Grade/Class
1.	PRATHAMESH G BHAT	reshmitengse@gmail.com	9

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

1 Does your school have access to an electricity bill?

Yes

#### Supporting Documents

1. IMG\_20161116\_110704.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)	2012	7243.20	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)	15	774.00	0
Piped Natural Gas (kilogrammes)	0	0.00	0
<b>TOTAL</b>	<b>2027.00</b>	<b>8017.20</b>	

### Supporting Documents

1. IMG\_20161116\_110704.jpg

4

What appliances does your school have?

	Number	Size	BEE Star Rating
Air Conditioners	0	0	0
Refrigerator	0	0	0
Microwave	0	0	0
Tube Lights	408	16	4
CFL Bulbs	138	6	4
LED Lights	0	0	0
Fans	136	75	4

### Supporting Documents

1. IMG\_20161116\_112801.jpg
2. IMG\_20161116\_112808.jpg
3. IMG\_20161116\_112823.jpg

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

5

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

296

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.	RAJARAM BHAT	rajarambhat64@gmail.com

#### Administrative staff

Sno.	Name	Email
1.	PARVEEN KHASA	parveen.khasa@gmail.com

#### Students

Sno.	Name	Email	Grade/Class
1.	VANDHITHA G B	karanthag@yahoo.com	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

#### Supporting Documents

- 13446384054\_aaf3e8b698\_o.jpg
- 17422281576\_57673e1abe\_o.jpg

2(a)(1)

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

814.00

2(a)(2)

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

12.00

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

**Supporting Documents**

1. big\_48\_647.jpg

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?

Chocolate waffers, Milk waffers, Laddoo, Samosa

8

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

No

#### Supporting Documents

1. big\_74\_1171.jpg
2. big\_74\_1173.jpg



## LAND

### Task 1: Land Audit Team

#### Teachers

Sno.	Name	Email
1.	PRATHISH C P	prathishcp@gmail.com

#### Administrative staff

Sno.	Name	Email
1.	PANKAJ KUMAR	pankajf.arts@gmail.com

#### Students

Sno.	Name	Email	Grade/Class
1.	ASHWIJA MAYYA	arunashwija@gmail.com	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 (m <sup>2</sup> )	23,998
Ground coverage area	21,000
Green landscaped area on-ground	10,500
Surface parking area	2,000
Play area that is paved/ concrete on ground	1,500
Play area that has grass on ground	5,500
Service Area on ground	1,500
Roof and terrace area	2,139
Green cover on exposed roof & terrace	0
Total built up/constructed area	2,200
Total no. of floors	2

Others	0
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### 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	121	4	125
Animals	4	1	5

### 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. big\_59\_997.jpg
2. big\_59\_1001.jpg
3. big\_64\_1066.jpg
4. big\_64\_1065.jpg
5. big\_64\_1064.jpg



## WATER

### Task 1: Water Audit Team

#### Teachers

Sno.	Name	Email
1.	PANKAJ KUMAR CHOUHAN	pankajf.arts@gmail.com

#### Administrative staff

Sno.	Name	Email
1.	AWADESH KUMAR YADAV	awadeshyaduvanshi007@gmail.com

#### Students

Sno.	Name	Email	Grade/Class
1.	Y NAGA SAMHITHA	ynagasamhita@gmail.com	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	700
Toilet flushing	40
Personal cleaning	5
Washing clothes	2
Cooking	0
Cleaning Utensils	20
Washing Vegetables	0
Mopping floors	20
Gardening	200
Total	987



### 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, 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?	No
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?	Yes
Any other step taken for water conservation? (if Yes, please specify)	Yes

### Supporting Documents

1. big\_63\_1053.jpg
2. big\_63\_1052.jpg
3. big\_63\_1050.jpg
4. 48\_660.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).

550

### 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?

72

9

How many hand pumps do you have?

0

10

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

48

11

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

	Girls	Boys	Common	Total
Number of toilets	8	8	4	20

12

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

36

13

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

10

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

Once 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

Used for groundwater recharge

## Supporting Documents

1. 48\_659.jpg



## WASTE

### Task 1: Waste Audit Team

#### Teachers

Sno.	Name	Email
1.	PARVEEN KHASA	parveen.khasa@gmail.com

#### Administrative staff

Sno.	Name	Email
1.	RAJARAM BHAT	rajarambhat64@gmail.com

#### Students

Sno.	Name	Email	Grade/Class
1.	Y NAGA SAMHITA	ynagasamhita@gmail.com	10

### 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	20	0	20	0	0
Playgrounds	6	0	6	0	0
Common area (e.g. reception, corridors)	6	0	6	0	0
Staffroom	4	0	4	0	0

Laboratory	6	0	6	0	0
Canteen	0	0	0	0	0
Clinic/ Sick room	1	0	1	0	0
Library	1	0	1	0	0
Toilets	6	0	6	0	0
Others	4	0	4	0	0
Total	54	0	54	0	0

### Supporting Documents

1. big\_59\_997.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	24
Kitchen waste	20
Paper	25
Plastic	4
Wood, glass, metal, classroom furniture	1
E-waste	0
Biomedical waste	1
Sanitary waste	4
Construction and Demolition (C & D) waste	0
Hazardous waste	0
Total Generated Solid Waste (in kilogram)	79

## Supporting Documents

1. images.jpg

### 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?

Yes

## Supporting Documents

1. big\_48\_659.jpg

2. big\_48\_661.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)?

5.00

5c

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

For horticultural purposesFor school garden

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)	✗	✗	✓	✗

### Supporting Documents

1. 3d10a2d4-8518-4274-9c63-08eef697afb2.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. images %283%29.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	2	2	0
VCR or DVD players	2	2	0
Refrigerators and freezers	0	0	0



Washing machines	0	0	0
Air conditioners	0	0	0
Heaters	0	0	0
Microwaves	0	0	0
Ovens	0	0	0
Toasters	0	0	0
Electric Kettles	2	2	0
Personal computers (CPU, mouse, screen and keyboard included)	65	61	4
Laptop computer (CPU, mouse, screen and keyboard included)	2	2	0
Notebook computers	0	0	0
Notepad computers	0	0	0
Printers	6	6	0
Copying equipment (Photocopiers)	2	2	0
Projectors	6	6	0
Whiteboards	4	4	0
Electrical & electronic typewriters	0	0	0
Pocket & desk calculators	8	8	0
Fax machines	2	2	0
Telex	0	0	0
Telephones	2	2	0
Pay telephones	0	0	0
Mobiles	0	0	0
Answering systems	0	0	0

## Supporting Documents

1. e.waste.ghana.jpg

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?

Yes

### Supporting Documents

1. big\_52\_862 %281%29.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. big\_48\_661.jpg
2. big\_28\_382.jpg



## 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?

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?

Authorised dealers can be sent to the schools after taking authorised permission of KVS so that the waste management can be done in a ecofriendly manner without causing extra burden or audit complications for the staff of school.

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?

Yes

9(a) If yes, please share your suggestions.

use of solar energy with help of the kvsangathan can be installed.

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?

15.00

### Checklist of uploaded documents

1. PUC certificates of not more than five buses
2. Picture of Air Quality Monitoring equipment of school
3. Fuel Bills
4. Picture of School owned vehicles
5. Electricity Bill
6. Picture of 5 star appliances used by school
7. Picture of Renewable sources of Energy
8. Picture of Mid-day meal being served
9. Photographs of lunch boxes
10. Picture of Canteen selling UPPF
11. Traditional food items sold in canteen
12. Pictures of Events sponsored by UPPF companies
13. Pictures of Green Cover
14. Pictures of landscaped area
15. Building construction plan
16. Pictures of bio-pesticides
17. Pictures of dustbins in classroom showing segregation at source
18. Pictures of playground with more than two dustbins
19. Picture of audit team weighing solid waste
20. Picture of types of solid waste generated
21. Pictures of recycling units - composting pit, paper recycling machine, selling paper to kabadiwala,

recyclers,etc

22. Pictures of housekeeping staff disposing different types of solid waste
23. Pictures of burning waste
24. Pictures of Electronic items used by school and storage of non-working electronic items
25. Certificate of disposing e-waste from authorised dealer/dismantler
26. Waste Policy
27. Pictures of various school initiatives e.g. rally, debate, street play, art competition, etc
28. Pictures of respective audit teams doing survey