

# Responses for Green Schools Programme Audit 2016

School Name: EKLAVYA MODEL RESIDENTIAL

SCHOOL, KHODADA

Address: AT. POST. KHODADA, TAL. NIZAR,

NIZAR, Tapi, Gujarat, India

Coordinator Name: Laxmanbhai Bhagvanbhai Chaudhari



## 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**

EKLAVYA MODEL RESIDENTIAL SCHOOL, KHODADA

2 Address

AT. POST. KHODADA, TAL. NIZAR, NIZAR, Tapi, Gujarat, India

Telephone Number (Landline Number with STD code)

(ISD) 91 (STD) 2628 (NUMBER) 290501

Mobile Number (Mobile Number with STD code)

(ISD) 91 (Number) 9913314701

5 Principal Name

Pareshkumar Laxmanbhai Prajapati

6 GSP Coordinator Name

Laxmanbhai Bhagvanbhai Chaudhari

GSP Coordinator Email

laxmanbhaichaudhari007@gmail.com

8 GSP Coordinator Mobile Number

(ISD)91 (Number) 9427672337

Gategory Of The School

Day Scholar + Day Boarding + Residential

10 School Shifts

Morning

# **GENERAL QUESTIONS**

How many levels does your school have?

Lowest level of grade:6 Highest level of grade:12

ls your school single gender or mixed gender?

Mixed/Co-education

Which board of education does the school follow?

State Board of Education (please select name of your state from the list below if applicable) State: Gujarat

Total permanent population of the school

	Male	Female	Total
Students	247	274	521
Teachers	14	7	21
Non-Teaching Staff	14	8	22
TOTAL	275	289	564

4(b) How many visitors visit your school

10

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

238

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

Nov

Where is the school located?

Rural Area



# Task 1: Air Audit Team

#### **Teachers**

Sno.	Name	Email
1.	LAXMANBHAI BHAGVANBHAI CHAUDHARI	LAXMANBHAI BHAGVANBHAI CHAUDHARI
2.	RIYAZAHEMAD Z. MALIK	riyaz13malik@gmail.com
3.	MOHINIBEN VTTHALBHAI PATEL	mohinipatel8@gmail.com

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

1

How many classrooms does your school have?

#### 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)
6	49.00	24.50	50.00
7	49.00	24.50	50.00
8	49.00	24.50	50.00
9	49.00	24.50	50.00
10	48.00	18.00	37.50
11 ARTS	48.00	18.00	37.50
11 COMMERCE	48.00	18.00	37.50
11 SCIENCE	48.00	18.00	37.50
12 ARTS	48.00	18.00	37.50
12 COMMERCE	48.00	18.00	37.50
TOTAL	484.00	206.00	

## Task 3: How eco-friendly are the vehicles in your school?

What is the ownership used by the vehicles used in your school? Please choose what is applicable?

School-owned vehicles

Provide details of school-owned motorized vehicles .

	Buses	Cars	Vans	Others	Total
No. of vehicles	0	1	0	0	1
No. of vehicles more than five years old	0	1	0	0	1
Air conditioned	0	1	0	0	1
No. of vehicles with PUC done	0	1	0	0	1
Parking area (m2)	0	15	0	0	15

### **Supporting Documents**

1. IMG-20161022-WA0077.jpg

## 3(b) Specify the type of fuel used by your school vehicles:

	Diesel	Petrol	LPG	CNG	Electric	Hybrid
Bus	0	0	0	0	0	0
Car	1	0	0	0	0	0
Van	0	0	0	0	0	0
Other vehicles	0	0	0	0	0	0
SUB-TOTAL	1	0	0	0	0	0

### **Supporting Documents**

- 1. 20160919\_105622.jpg
- 2. IMG-20161022-WA0079.jpg

## Task 4: How do you travel to school every day?

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	0	0	0	0
School Transport(Other than bus)	0	0	0	0
Public transport (other than bus, Metro, car pool)	0	0	0	0
Taxi four-wheeler	0	0	0	0
Taxi three-wheeler	0	0	0	0
Personal four-wheeler	0	3	1	4
Personal two-wheeler	0	11	7	18

Bicycle	0	0	2	2
On foot	521	7	12	540
Others (non-motorised)	0	0	0	0
SUB-TOTAL	521	21	22	564

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



0

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.	LAXAMANBHAI BHAGVANBHAI CHAUDHARI	laxmanbhaichaudhari007@gmil.com
2.	RIYAZAHEMAD GULAMYAHIYA MALIK	riyaz13malik@gmail.com
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# Task 2: How much energy does your school consume?

1

Does your school have access to an electricity bill?

Yes

### **Supporting Documents**

1. IMG-20161022-WA0080.jpg

2 Does your school have its own vehicles?

Yes

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)	122	439.20	1,5
Electricity from generator (diesel) (litres)	7.5	342.00	3
Petrol (litres)	00	0.00	0
Diesel (litres)	90	4104.00	4,1
CNG (kilogrammes)	0	0.00	0
Kerosene (litres)	0	0.00	0
Coal (kilogrammes)	0	0.00	0
Wood (kilogrammes)	1200	21120.00	0
Animal waste (kilogrammes)	0	0.00	0
Solar (kwh)	4	14.40	2
Wind (kwh)	0	0.00	0
LPG (kilogrammes)	580	29928.00	3
Piped Natural Gas (kilogrammes)	0	0.00	0
TOTAL	2003.50	55947.60	

## **Supporting Documents**

- 1. IMG-20161114-WA0013.jpg
- 2. IMG-20161114-WA0014.jpg

#### What appliances does your school have?

	Number	Size	BEE Star Rating
Air Conditioners	1	1.5	5
Refrigerator	3	500,190,190	5,3,3
Microwave	1	5	3
Tube Lights	1008	40	0
CFL Bulbs	5	18	0
LED Lights	166	9	0
Fans	536	73	0

#### **Supporting Documents**

- 1. 20160919\_110300.jpg
- 2. IMG-20161111-WA0017.jpg
- 3. 20160919\_110143.jpg
- 4. IMG-20161111-WA0015.jpg

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

5 What is the average number of sunny days in your area? 200

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

Yes

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

Solar

#### **Supporting Documents**

1. IMG-20161114-WA0004.jpg



### **Task 1: Food Audit Team**

#### **Teachers**

Sno.	Name	Email
1.	LAXMANBHAI BHAGVANBHAI CHAUDHARI	laxmanbhaichaudhari007@gmail.com
2.	RIYAZAHEMAD GULAMYAHIYA MALIK	riyaz13malik@gmail.com
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# 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

Does your school serve midday meals?

Yes

No documents uploaded by the school.

# Task 3: What kind of food is served/sold in your school

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	4	2240	4
Instant Noodles like Knorr, Cup-a- noodles, Top Ramen, Wai-wai, Yippee, Foodles, Maggi, etc	0	0	0
Potato fries and Burgers	4	2240	4
Confectionery items (chocolate, candies, gums)	0	0	0
Ice-cream	0	0	0
Carbonated beverages	3	1120	2
Sugar sweetened noncarbonated beverages	2	1120	2
Packaged/Bottled Nimboo Paani/ Lassi/ Flavoured milk	2	1875	12
Packaged/Bottled Energy Drinks	0	0	0

### **Supporting Documents**

- 1. IMG-20161111-WA0014.jpg
- 2. IMG-20161111-WA0018.jpg

4 Does

Does your school serve traditional Indian snacks?

Yes

4(a)

#### Please provide the details:

	Number of plates sold when on the menu
Samosas	0
Idli/vada and sambhar	560
Pav bhaji	560
Momos	0
Others	560

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

BATAKA POVA, BHAJIYA, UPMA.

Does your school serve traditional Indian beverages?

Yes

5(a)

#### Details are as follows:

	Number of servings sold when on the menu
Nimboo pani	560
Sweet lassi	0
Salted butter milk	560
Aam Panna	0
Others	560

## Task 4: What kind of food does your school promote?

Does the school distribute packaged food items as rewards during schools events?

No

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

Yes

7(a) Please provide the names?

**ECLAIRS** 

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

No

No documents uploaded by the school.



## **Task 1: Land Audit Team**

#### **Teachers**

Sno.	Name	Email
1.	LAXMANBHAI BHAGVANBHAI CHAUDHARI	laxmanbhaichaudhari007@gmail.com
2.	RIYAZAHEMAD GULAMYAHIYA MALIK	riyaz13malik@gmail.com
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# Task 2: Measure the four critical areas of your school campus

Complete the table:

Your school's area

Site area in square meter (m2)	50,000
Ground coverage area	4,540
Green landscaped area on-ground	15,000
Surface parking area	15
Play area that is paved/ concrete on ground	1,530
Play area that has grass on ground	22,257
Service Area on ground	1,530
Roof and terrace area	700
Green cover on exposed roof & terrace	0
Total built up/constructed area	6,644
Total no. of floors	1
Others	0

## Task 3: Explore the number of species of plants and animals in your school

How many species of plants and animals exist in your school?

	Native	Exotic	Total
Plants	460	0	460
Animals	2	0	2

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

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

Yes

#### **Supporting Documents**

- 1. 20160914\_113948.jpg
- 2. 20160914\_120236.jpg
- 3. 20160919\_113427.jpg



# WATER

## **Task 1: Water Audit Team**

#### **Teachers**

Sno.	Name	Email
1.	LAXMANBHAI BHAGVANBHAI CHAUDHARI	laxmanbhaichaudhari007@gmail.com
2.	RIYAZAHEMAD GULAMYAHIYA MALIK	riyaz13malik@gmail.com
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8.	VASAVA SURAJKUMAR DASHRATHBHAI	mohinipatel8@gmail.com	8
9.	VALVI SNEHABEN SURESHBHAI	mohinipatel8@gmail.com	8
10.	CHAUDHARI NIDHIKUMARI RAKESHBHAI	mohinipatel8@gmail.com	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	1668
Toilet flushing	1824
Personal cleaning	9522
Washing clothes	4200
Cooking	500
Cleaning Utensils	2000
Washing Vegetables	750
Mopping floors	160
Gardening	200
Total	20824

### Task 3: What are the sources, supply and storage of water in your school

Where does the water your school uses, come from?

Ground water

Who supplies the water in your school?

School's own supply (bore well, rainwater harvesting facility, etc)

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?

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?	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?	Yes
Does your school use a drip or irrigation system?	No
Any other step taken for water conservation? (if Yes, please specify)	Yes

#### **Supporting Documents**

1. IMG-20161011-WA0018.jpg

### Task 5: Does your school harvest rainwater?

Do you have Rainwater harvesting (RWH) system in your school?

Yes

Does your school harvest different catchments?.

Yes

6(a)(1) Which is the catchment area being harvested by your school?

Rooftop

6(b) How does your school harvest rainwater?

Combination of both

6(b)(1) If your school only stores rainwater, please select the use of stored rainwater.

Gardening, Mopping, Washing vehicles

Does your school have rainwater storage tank?

Yes

6(b)(2)(a) Total capacity of storage tank (litres)

50000.00

6(b)(2)(b) Total number of storage tanks

1.00

6(b)(2)(c) Location of tanks:

Underground

6(b)(2)(d) Material options for tanks

**Brick** 

How much area in your school is harvested?

21 to 30 per cent

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

Storage tank

Rate your catchment on cleanliness:

Good

#### **Supporting Documents**

1. IMG-20161114-WA0005.jpg

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?

Do not follow any such pattern

Does your school monitor the rainwater harvesting structure for its efficiency?

Yes

Please specify when does your school monitor the groundwater level?

Pre-monsoon

6(h) What is the trend of groundwater level in your school across the year?

No change

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?

Yes

### Task 6: Are the plumbing and sanitation facilities in your school adequate?

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

How many drinking water taps do you have?

40

How many hand pumps do you have?

1

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

70

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

	Girls	Boys	Common	Total
Number of toilets	53	45	14	112

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

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

10

Is there a water storage system in place to supply water in the toilets?

Yes

ls the water supply sufficient?

Yes

Are the toilets cleaned?

Yes

16(a) If yes, please specify

Once a day

### Task 7: Does your school reuse/recycle waste water?

Does your school treat wastewater?

No

Does your school reuse the treated wastewater?

Yes

How does your school reuse wastewater?

Gardening

No documents uploaded by the school.



## **Task 1: Waste Audit Team**

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6.	Dipshikha Kalidasbhai Valvi	dipshikhavalvi@gmail.com	11
7.	Viralkumar Vipulbhai Gamit	mohinipatel8@gmail.com	8
8.	Surajkumar Dashrathbhai Vasava	mohinipatel8@gmail.com	8
9.	Snehaben sureshbhai Valvi	mohinipatel8@gmail.com	8
10.	Nidhikumari Rakeshbhai Chaudhari	mohinipatel8@gmail.com	8

# Task 2: What is the waste segregation system in your school?

1

Does your school segregate solid waste?

Yes

### Who segregates the waste at source?

- 1. Housekeeping (Sweeper)
- 2. Other: STUDENT

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	11	0	11	0	0
Playgrounds	3	3	0	0	0
Common area (e.g. reception, corridors)	12	0	8	2	2
Staffroom	1	0	1	0	0
Laboratory	1	0	1	0	0
Canteen	2	0	0	0	2
Clinic/ Sick room	1	0	1	0	0
Library	1	0	1	0	0
Toilets	1	0	1	0	0
Others	0	0	0	0	0
Total	33	3	24	2	4

### **Supporting Documents**

1. 20160919\_100957.jpg

# Task 3: How much waste does your school generate?

Determine the quantity of waste generated in your school. (in kilogram)

	Collection per month (Frequency may differ)
Garden/ horticulture waste	100
Kitchen waste	1080

Paper	6
Plastic	2
Wood, glass, metal, classroom furniture	0
E-waste	0
Biomedical waste	0.50
Sanitary waste	11.10
Construction and Demolition (C & D) waste	0
Hazardous waste	0
Total Generated Solid Waste (in kilogram)	1199.6

### **Supporting Documents**

- 1. IMG-20161114-WA0008.jpg
- 2. 20160919\_102539.jpg
- 3. IMG-20161011-WA0022.jpg

# Task 4: How much waste does your school recycle/treat?

Does your school recycle any generated waste?

Yes

Please provide quantity of which is applicable. (in kilogram)

	Quantity
Garden/ horticulture waste	1000
Kitchen waste	250
Paper	0
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)	1250

Does your school have a composting facility?

Yes

#### **Supporting Documents**

1. 20160919\_104514.jpg

What is the methodology used?

Natural composting without added microbes

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

2,500.00

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

For school gardenFor charity

Does your school encourage students & teachers to reuse textbooks?

Yes

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	×	×	×	<b>✓</b>

E-waste (e.g. broken, unusable computers)	×	×	×	<b>⊻</b>
Hazardous waste (e.g. diesel fuel, battery)	×	×	×	₹
Wood,glass, metal scrap, other scrap	×	×	×	<b>4</b>
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?

What is the final destination for waste that is disposed of externally?

Landfill Site

No documents uploaded by the school.

Does your school burn waste?

Yes

#### **Supporting Documents**

1. IMG-20161114-WA0017.jpg

9a Where does your school burn waste?

Inside the school

What kind of waste is being burnt/ incinerated?

Horticultural

Does your school have the following? If yes, please give the numbers.

	Total	Working conditions	Non-working condition
--	-------	--------------------	--------------------------

TVs	3	3	0
VCR or DVD players	3	3	0
Refrigerators and freezers	2	2	0
Washing machines	0	0	0
Air conditioners	1	1	0
Heaters	0	0	0
Microwaves	1	1	0
Ovens	0	0	0
Toasters	0	0	0
Electric Kettles	0	0	0
Personal computers (CPU, mouse, screen and keyboard included)	37	34	3
Laptop computer (CPU, mouse, screen and keyboard included)	3	3	0
Notebook computers	0	0	0
Notepad computers	0	0	0
Printers	4	3	1
Copying equipment (Photocopiers)	1	1	0
Projectors	3	3	0
Whiteboards	16	16	0
Electrical & electronic typewriters	0	0	0
Pocket & desk calculators	6	6	0
Fax machines	1	0	1
Telex	0	0	0
Telephones	1	1	0
Pay telephones	0	0	0
Mobiles	1	1	0
Answering systems	0	0	0

#### **Supporting Documents**

- 1. 20160919\_110143.jpg
- 2. 20160919\_110300.jpg
- 3. 20160914\_114400.jpg

11

Do you know that your E-waste can be collected by an authorised dealer or dismantler?

No

#### Task 6: School's initiatives

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. 20160719\_153147.jpg
- 2. 20160803\_153547.jpg
- 3. 20140815\_081217.jpg
- 4. 20160121\_162310.jpg

What form do these awareness drives take?

As part of the curriculum, As part of extracurricular activities such as guest lectures

Is the study of the environment integrated into the curriculum?

Yes

No documents uploaded by the school.



### **FEEDBACK**

Has your school participated in the Green Schools Programme (GSP) Audit before?

No

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

No

Did you find the online information relevant to your environmental education activities?

Yes

Was the audit easy-to-understand and self-explanatory?

Yes

Did you understand the present format of the GSP?

Yes

Do you think your school will be a Green School (resource efficient) by 2019?

Yes

What would be the help required to make your school a Green School?

To give the sustainable learning program, encourages our school to make energy reduction on average and to develop the better understanding of how energy and water is used into various buildings. To give guide to our school through a process to help them address a variety of environmental issues, ranging from litter and waste to healthy living and biodiversity. To provide curriculum activities focused on unraveling the complexity of climate change and environmental issues for our school.

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

Would your school like to recommend any topic/s that you strongly feel should be added or deleted in the audit?

No

Could you finish all the tasks in given period of time online?

Yes

How many times did you contact the Green Schools Programme Team for guidance and counseling?

More than twice

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

Did your students enjoy doing the Water activities?

Yes

How many students were involved in the activities?

46.00

#### **Checklist of uploaded documents**

- 1. PUC certificates of not more than five buses
- 2. Fuel Bills

13(a)

- 3. Picture of School owned vehicles
- 4. Electricity Bill
- 5. Picture of 5 star appliances used by school
- 6. Picture of Renewable sources of Energy
- 7. Picture of Mid-day meal being served
- 8. Photographs of lunch boxes
- 9. Picture of Canteen selling UPPF
- 10. Pictures of Green Cover
- 11. Pictures of landscaped area
- 12. Building construction plan
- 13. Pictures of playground with more than two dustbins
- 14. Picture of audit team weighing solid waste
- 15. Picture of types of solid waste generated
- 16. Pictures of housekeeping staff disposing different types of solid waste

- 17. Pictures of burning waste
- 18. Pictures of Electronic items used by school and storage of non-working electronic items
- 19. Pictures of various school initiatives e.g. rally, debate, street play, art competition, etc