



# GREEN SCHOOLS PROGRAMME

## Responses for Green Schools Programme Audit 2016

**School Name:** BAKER MEMORIAL GIRLS HIGHER  
SECONDARY SCHOOL

**Address:** KOTTAYAM, KOTTAYAM, KOTTAYAM,  
Kerala, India

**Coordinator Name:** REENA SUSAN MATHEW



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

BAKER MEMORIAL GIRLS HIGHER SECONDARY SCHOOL

2

Address

KOTTAYAM, KOTTAYAM, KOTTAYAM, Kerala, India

3

Telephone Number (Landline Number with STD code)

(ISD) 91 (STD) 0481 (NUMBER) 2563530

4

Mobile Number (Mobile Number with STD code)

(ISD) 91 (Number) 8547352175

5

Principal Name

ALEYAMMA JOHN

6

GSP Coordinator Name

REENA SUSAN MATHEW

7

GSP Coordinator Email

reenaasusan@yahoo.co.in

8

GSP Coordinator Mobile Number

(ISD)91 (Number) 9446551351

9

Category Of The School

Day Scholar + Residential

10

School Shifts

Morning

## GENERAL QUESTIONS

1

How many levels does your school have?

Lowest level of grade:5

Highest level of grade:10

2

Is your school single gender or mixed gender?

Only girls

3

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: Kerala

4

Total permanent population of the school

	Male	Female	Total
Students	0	934	934
Teachers	0	38	38
Non-Teaching Staff	1	4	5
TOTAL	1	976	977

4(b)

How many visitors visit your school

5

5

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

200

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.	Jeelu Elizabeth Issac	Jeelu Elizabeth Issac

#### Administrative staff

Sno.	Name	Email
1.	Mukesh	no email

#### Students

Sno.	Name	Email	Grade/Class
1.	Arya M Madhu		8

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

1 How many classrooms does your school have?

26

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)
5A	42.00	25.00	59.52
5B	42.00	25.00	59.52
6A	42.00	25.00	59.52
7A	42.00	25.00	59.52
8A	47.00	28.00	59.57
8B	47.00	28.00	59.57
9A	47.00	28.00	59.57
9B	47.00	28.00	59.57

10A	47.00	28.00	59.57
10B	47.00	28.00	59.57
TOTAL	450.00	268.00	

### 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-owned vehicles

3(a)

Provide details of school-owned motorized vehicles .

	Buses	Cars	Vans	Others	Total
No. of vehicles	2	0	0	0	2
No. of vehicles more than five years old	1	0	0	0	1
Air conditioned	0	0	0	0	0
No. of vehicles with PUC done	2	0	0	0	2
Parking area (m2)	28	0	0	0	28

No documents uploaded by the school.

3(b)

Specify the type of fuel used by your school vehicles:

	Diesel	Petrol	LPG	CNG	Electric	Hybrid
Bus	2	0	0	0	0	0
Car	0	0	0	0	0	0
Van	0	0	0	0	0	0
Other vehicles	0	0	0	0	0	0
SUB-TOTAL	2	0	0	0	0	0

No documents uploaded by the school.

## 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	90	5	0	95
Public Bus	300	16	4	320
School Transport(Other than bus)	0	0	0	0
Public transport (other than bus, Metro, car pool)	70	3	0	73
Taxi four-wheeler	0	0	0	0
Taxi three-wheeler	0	2	0	2
Personal four-wheeler	35	7	0	42
Personal two-wheeler	35	5	1	41
Bicycle	0	0	0	0
On foot	404	0	0	404
Others (non-motorised)	0	0	0	0
<b>SUB-TOTAL</b>	<b>934</b>	<b>38</b>	<b>5</b>	<b>977</b>

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

5

How many students suffer from respiratory ailments ?

10

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.	Vinitha K.R	Vineethakr@gmail.com

#### Administrative staff

Sno.	Name	Email
1.	Ponnamma P.K	No email

#### Students

Sno.	Name	Email	Grade/Class
1.	Saniya K Saji		8

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

1

Does your school have access to an electricity bill?

Yes

No documents uploaded by the school.

2

Does your school have its own vehicles?

Yes

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)	1412	5083.20	0
Electricity from generator (diesel) (litres)	150	6840.00	0
Petrol (litres)	0	0.00	0

Diesel (litres)	500	22800.00	0
CNG (kilogrammes)	0	0.00	0
Kerosene (litres)	0	0.00	0
Coal (kilogrammes)	0	0.00	0
Wood (kilogrammes)	35	616.00	0
Animal waste (kilogrammes)	0	0.00	0
Solar (kwh)	0	0.00	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>2097.00</b>	<b>35339.20</b>	

No documents uploaded by the school.

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	30	75cm	0
CFL Bulbs	0	0	0
LED Lights	0	0	0
Fans	45	0	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?

25

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.	Joshny Mathew	joshini@gmail.com

#### Administrative staff

Sno.	Name	Email
1.	Ponnamma P.K	No email

#### Students

Sno.	Name	Email	Grade/Class
1.	Aleena Pradeep		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?

Yes

No documents uploaded by the school.

### 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?

No

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.	Lincy	lincy@gmail.com

#### Administrative staff

Sno.	Name	Email
1.	P.C.Lalu	lalu@gmail.com

#### Students

Sno.	Name	Email	Grade/Class
1.	Swathy D		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)	20,000
Ground coverage area	2,600
Green landscaped area on-ground	2,100
Surface parking area	28
Play area that is paved/ concrete on ground	1,000
Play area that has grass on ground	0
Service Area on ground	0
Roof and terrace area	0
Green cover on exposed roof & terrace	0
Total built up/constructed area	1
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	15	0	15
Animals	12	0	12

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

4

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

No

No documents uploaded by the school.



## WATER

### Task 1: Water Audit Team

#### Teachers

Sno.	Name	Email
1.	Beena Benjamin	benjibeena@gmail.com

#### Administrative staff

Sno.	Name	Email
1.	Ponnamma P.K	No email

#### Students

Sno.	Name	Email	Grade/Class
1.	Elsa Santhosh		8
4.			

### 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	2500
Personal cleaning	1000
Washing clothes	0
Cooking	750
Cleaning Utensils	1000
Washing Vegetables	150
Mopping floors	400
Gardening	100

Total	7400
-------	------

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

2 Where does the water your school uses, come from?

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



No documents uploaded by the school.

## 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?.

No

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, Washing vehicles, Shower, Brushing teeth, Bathing, Hand washing

6(b)(2)

Does your school have rainwater storage tank?

Yes

6(b)(2)(a)

Total capacity of storage tank (litres)

35000.00

6(b)(2)(b)

Total number of storage tanks

1.00

6(b)(2)(c)

Location of tanks:

Over ground

6(b)(2)(d)

Material options for tanks

Brick

6(c)

How much area in your school is harvested?

31 to 40 per cent

6(d)

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

Storage tank

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?

Pre-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?

Pre-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?	No
Are there sufficient toilets for women in your school?	Yes
Are there sufficient toilets for men in your school?	No
Are the toilets accessible and safe to use for children?	Yes
Are the toilets accessible and safe to use for differently abled children?	No
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?

2

9

How many hand pumps do you have?

0

10

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

25

11

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

	Girls	Boys	Common	Total
Number of toilets	35	0	3	38

12

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

0

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

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

No documents uploaded by the school.



## WASTE

### Task 1: Waste Audit Team

#### Teachers

Sno.	Name	Email
1.	Reena Susan Mathew	reenaasusan@yahoo.co.in

#### Administrative staff

Sno.	Name	Email
1.	Beena M Babu	nomail

#### Students

Sno.	Name	Email	Grade/Class
1.	Salna S		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. Students and teachers
2. 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	5	0	4	1	0
Playgrounds	1	0	1	0	0
Common area (e.g. reception, corridors)	1	0	1	0	0
Staffroom	3	0	3	0	0

Laboratory	1	0	1	0	0
Canteen	2	0	2	0	0
Clinic/ Sick room	0	0	0	0	0
Library	1	0	1	0	0
Toilets	4	0	4	0	0
Others	0	0	0	0	0
Total	18	0	17	1	0

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	150
Paper	100
Plastic	25
Wood, glass, metal, classroom furniture	0
E-waste	12
Biomedical waste	0
Sanitary waste	45
Construction and Demolition (C & D) waste	0
Hazardous waste	0
Total Generated Solid Waste (in kilogram)	357

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?

Yes

No documents uploaded by the school.

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)?

4.00

5c What is the purpose of the compost that is generated per month?









For 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)				

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?

Yes

No documents uploaded by the school.

9a

Where does your school burn waste?

Inside the school

9b

What kind of waste is being burnt/ incinerated?

Paper

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	1	1	0
Refrigerators and freezers	1	1	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	0	0	0
Personal computers (CPU, mouse, screen and keyboard included)	9	7	2
Laptop computer (CPU, mouse, screen and keyboard included)	8	7	1
Notebook computers	0	0	0
Notepad computers	0	0	0
Printers	2	2	0
Copying equipment (Photocopiers)	1	1	0
Projectors	3	2	1
Whiteboards	4	4	0
Electrical & electronic typewriters	0	0	0
Pocket & desk calculators	3	3	0
Fax machines	0	0	0
Telex	0	0	0
Telephones	1	1	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?

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?

It is not easy to measure waste water. So make an alternative method to do that task.

8

How would you rate the overall design of the audit?

Aspect	Good / Average /Bad
Content	Good
Distribution of time among tasks	Average
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?

No

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?

12.00

### Checklist of uploaded documents

1. Pictures of Electronic items used by school and storage of non-working electronic items