



# GREEN SCHOOLS PROGRAMME

## Responses for Green Schools Programme Audit 2016

**School Name:** Buchanan Insitution G.H.S. Pallom  
**Address:** Pallom P.O., Kottayam, Kottayam,  
Kottayam, Kerala, India  
**Coordinator Name:** Jessy Benny



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**

Buchanan Insitution G.H.S. Pallom

2

**Address**

Pallom P.O., Kottayam, Kottayam, Kottayam, Kerala, India

3

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

(ISD) 91 (STD) 0481 (NUMBER) 2430451

4

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

(ISD) 91 (Number) 9745451646

5

**Principal Name**

Mary Mani M

6

**GSP Coordinator Name**

Jessy Benny

7

**GSP Coordinator Email**

jessy4benny@gmail.com

8

**GSP Coordinator Mobile Number**

(ISD)91 (Number) 9495720913

9

**Category Of The School**

Day Scholar + Residential

10

**School Shifts**

Both

## 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	644	644
Teachers	0	30	30
Non-Teaching Staff	2	2	4
TOTAL	2	676	678

4(b)

How many visitors visit your school

10

5

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

193

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.	Rincy M Paul	Rincy M Paul
2.	Bindhu P Chacko	bindhuchacko@gmail.com
3.	Jessyamma Andrews	jessyamma1968@gmail.com

#### Administrative staff

Sno.	Name	Email
1.	Daisy George	daisygeorge7bindhuchacko@gmail.com7@gmail.com

#### Students

Sno.	Name	Email	Grade/Class
1.	Abitha Najeeb		9
2.	Aparna Rajappan		9
3.	Subimol S Pillai		9
4.	Emil Kochumon		9
5.	Jincy johnson		9

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

1 How many classrooms does your school have?

20

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	37.09	20.00	53.93
5B	28.43	17.00	59.79
5C	34.93	18.00	51.54
6A	46.97	26.00	55.35

6B	34.25	18.00	52.55
6C	46.97	26.00	55.35
7A	36.55	20.00	54.72
7B	37.69	20.00	53.07
8A	37.07	20.00	53.95
8B	38.56	22.00	57.05
TOTAL	378.51	207.00	

### 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?

A combination of school-owned and operator-owned vehicles

3(a)

Provide details of school-owned motorized vehicles .

	Buses	Cars	Vans	Others	Total
No. of vehicles	0	0	2	1	3
No. of vehicles more than five years old	0	0	2	1	3
Air conditioned	0	0	0	0	0
No. of vehicles with PUC done	0	0	2	1	3
Parking area (m2)	0	0	100	50	150

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	0	0	0	0	0	0
Car	0	0	0	0	0	0
Van	2	0	0	0	0	0

Other vehicles	1	0	0	0	0	0
SUB-TOTAL	3	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
School Bus	175	4	0	179
Public Bus	237	15	3	255
School Transport(Other than bus)	100	0	0	100
Public transport (other than bus, Metro, car pool)	0	0	0	0
Taxi four-wheeler	20	0	0	20
Taxi three-wheeler	50	2	0	52
Personal four-wheeler	0	6	1	7
Personal two-wheeler	0	1	0	1
Bicycle	12	0	0	12
On foot	50	2	0	52
Others (non-motorised)	0	0	0	0
SUB-TOTAL	644	30	4	678

## 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.	Bindhu P Chacko	bindhuchacko@gmail.com

#### Administrative staff

Sno.	Name	Email
1.	Manju M Kunju	

#### Students

Sno.	Name	Email	Grade/Class
1.	Megha Mary John		9
2.	Anakha Anilkumar		9
3.	Sonia P S		9
4.	Nancymol Salu		9
5.	Sarika Sabu		9

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

1

Does your school have access to an electricity bill?

Yes

#### Supporting Documents

1. electricity bill.pdf

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
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Electricity from the board (kwh)	250	900.00	1,5
Electricity from generator (diesel) (litres)	0	0.00	0
Petrol (litres)	0	0.00	0
Diesel (litres)	600	27360.00	4
CNG (kilogrammes)	0	0.00	0
Kerosene (litres)	0	0.00	0
Coal (kilogrammes)	0	0.00	0
Wood (kilogrammes)	960	16896.00	3
Animal waste (kilogrammes)	0	0.00	0
Solar (kwh)	0	0.00	0
Wind (kwh)	0	0.00	0
LPG (kilogrammes)	4	206.40	2
Piped Natural Gas (kilogrammes)	0	0.00	0
<b>TOTAL</b>	<b>1814.00</b>	<b>45362.40</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	1	170	3
Microwave	0	0	0
Tube Lights	10	0	0
CFL Bulbs	10	0	0
LED Lights	2	0	0
Fans	25	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?

100

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.	Mariam Jose	mariamjose@gmail.com

#### Administrative staff

Sno.	Name	Email
1.	Sheeba V Joseph	

#### Students

Sno.	Name	Email	Grade/Class
1.	Abhiya KAugustine		8
2.	Varsha P T		8
3.	Nisha V A		8

### 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
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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.	Jessyamma Andrews	jessyamma1968@gmail.com

#### Administrative staff

Sno.	Name	Email
1.	Annamma Scaria	

#### Students

Sno.	Name	Email	Grade/Class
1.	Febah Ann Sunny		8
2.	HaneyMarium		8
3.	Sandra K S		8
4.	Sandra Jayachandran		8
5.	Aneesha P R		8

### 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)	121,406
Ground coverage area	1,614
Green landscaped area on-ground	118,791
Surface parking area	1,000
Play area that is paved/ concrete on ground	0
Play area that has grass on ground	24,281
Service Area on ground	0
Roof and terrace area	0

Green cover on exposed roof & terrace	0
Total built up/constructed area	1,214
Total no. of floors	1
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	12	10	22
Animals	50	0	50

### 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.	Jessy Benny	jessy4benny@gmail.com

#### Administrative staff

Sno.	Name	Email
1.	Lissamma T Thomas	tlissamma69@yahoo.in

#### Students

Sno.	Name	Email	Grade/Class
1.	Aparna Suresh		8
2.	Akhila Reji		8
3.	Nisha V T		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	1000
Toilet flushing	30002
Personal cleaning	500
Washing clothes	0
Cooking	5002
Cleaning Utensils	1000
Washing Vegetables	500
Mopping floors	800
Gardening	1000



Total	39804
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### 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, Private supplier

4 Does your school get daily water supply?

No

4(b) If supply of water is not daily, please tick the correct option

3 days in a week

### 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?	No
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)	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?

Yes

6(a)

Does your school harvest different catchments?.

No

6(b)

How does your school harvest rainwater?

By recharging groundwater

6(b)(1)

Does your school have groundwater recharge structure?

Yes

6(b)(1)(i)

Please share the total number of groundwater recharge structures

1.00

6(b)(1)(ii)

Please tick the type of groundwater recharge structure used in your school:

Recharge pits

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

Recharge structure

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?

If there was a decrease, please specify

6(h)(1) Please specify how much was the decrease?

Less than a metre annually

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?

Yes

## 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?	No
Are the toilets accessible and safe to use for differently abled staff (teaching and non-teaching)?	No
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?

5

9 How many hand pumps do you have?

0

10

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

152

11

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

	Girls	Boys	Common	Total
Number of toilets	12	0	2	14

12

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

12

13

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

2

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

Wastewater flows directly to the drains

No documents uploaded by the school.



## WASTE

### Task 1: Waste Audit Team

#### Teachers

Sno.	Name	Email
1.	Susan George	Susangeorge67@gmail.com

#### Administrative staff

Sno.	Name	Email
1.	Ciney Elizabeth Abraham	

#### Students

Sno.	Name	Email	Grade/Class
1.	Alma Mathew		9
2.	Meha Mary John		9
3.	Archana Ajeesh		8
4.	Aarathy Bijukuttan		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 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	1	0	1	0	0
Common area (e.g. reception, corridors)	4	0	4	0	0

Staffroom	1	0	1	0	0
Laboratory	1	0	1	0	0
Canteen	0	0	0	0	0
Clinic/ Sick room	0	0	0	0	0
Library	1	0	1	0	0
Toilets	10	0	10	0	0
Others	2	0	2	0	0
Total	40	0	40	0	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	20
Kitchen waste	50
Paper	10
Plastic	1
Wood, glass, metal, classroom furniture	00
E-waste	.5
Biomedical waste	00
Sanitary waste	10
Construction and Demolition (C & D) waste	0
Hazardous waste	00
Total Generated Solid Waste (in kilogram)	91.5

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 & 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?

Outside the school

9b

What kind of waste is being burnt/ incinerated?

HorticulturalPaper

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	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	00	0
Electric Kettles	0	0	0
Personal computers (CPU, mouse, screen and keyboard included)	12	10	2
Laptop computer (CPU, mouse, screen and keyboard included)	9	2	7
Notebook computers	1	0	1



Notepad computers	0	0	0
Printers	2	2	0
Copying equipment (Photocopiers)	0	0	0
Projectors	3	1	2
Whiteboards	2	2	0
Electrical & electronic typewriters	0	0	0
Pocket & desk calculators	0	0	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?

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?

No

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?

provide enough financial help for making our school a green school and also need your guidance

8

How would you rate the overall design of the audit?

Aspect	Good / Average /Bad
Content	Average
Distribution of time among tasks	Average
Sequencing of tasks	Average
Orientation for conducting tasks	Average

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. Electricity Bill
2. Pictures of burning waste
3. Pictures of respective audit teams doing survey