



GREEN SCHOOLS PROGRAMME

Responses for Green Schools Programme Audit 2016

School Name: BHAVANS VIDYA MANDIR
Address: DESHABHIMANI ROAD, ,
ELAMAKKARA, , KOCHI, ERNAKULAM,
Kerala, India
Coordinator Name: MAYADEVI S



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

BHAVANS VIDYA MANDIR

2

Address

DESHABHIMANI ROAD, , ELAMAKKARA, , KOCHI, ERNAKULAM, Kerala, India

3

Telephone Number (Landline Number with STD code)

(ISD) 91 (STD) 484 (NUMBER) 2408514

4

Mobile Number (Mobile Number with STD code)

(ISD) 91 (Number) 9495603393

5

Principal Name

GIRIJA T S

6

GSP Coordinator Name

MAYADEVI S

7

GSP Coordinator Email

saraswathymaya@gmail.com

8

GSP Coordinator Mobile Number

(ISD)91 (Number) 9447380722

9

Category Of The School

Day Scholar

10

School Shifts

Both

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	1256	1196	2452
Teachers	9	108	117
Non-Teaching Staff	6	11	17
TOTAL	1271	1315	2586

4(b)

How many visitors visit your school

25

5

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

208

6

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

July, Aug, Sep, Oct, Nov

7

Where is the school located?

Urban Area



AIR

Task 1: Air Audit Team

Teachers

Sno.	Name	Email
1.	SUMI U MENON	SUMI U MENON
2.	TESSY S JOHN	tessymathew265@gmail.com

Administrative staff

Sno.	Name	Email
1.	SREELATHA T P	jyotijoshi31@gmail.com

Students

Sno.	Name	Email	Grade/Class
1.	Abhijith S	bindu.sajith@rediffmail.com	9
2.	Sukrith K Sumod	simisumod06@gmail.com	9
3.	Parameswaran TS	smithasreevas@gmail.com	9
4.	Pavithra Vipin	vipinvienna@gmail.com	9
5.	Rebecca Martin	rebeccamartin@gmail.com	9

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

1 How many classrooms does your school have?

65

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)
8A	461,500.00	46,800.00	10.14
6E	615,000.00	63,400.00	10.31
7B	420,000.00	58,080.00	13.83
3E	461,500.00	46,800.00	10.14
12 C1	475,200.00	50,750.00	10.68

0	0.00	0.00	0.00
0	0.00	0.00	0.00
0	0.00	0.00	0.00
0	0.00	0.00	0.00
0	0.00	0.00	0.00
TOTAL	2,433,200.00	265,830.00	

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	1	0	1
No. of vehicles more than five years old	0	0	0	0	0
Air conditioned	0	0	0	0	0
No. of vehicles with PUC done	0	0	0	0	0
Parking area (m2)	0	0	400	0	400

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	1	0	0	0	0	0
Other vehicles	0	0	0	0	0	0

SUB-TOTAL	1	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	0	0	0	0
Public Bus	362	48	0	410
School Transport(Other than bus)	0	0	0	0
Public transport (other than bus, Metro, car pool)	1830	0	11	1841
Taxi four-wheeler	0	0	0	0
Taxi three-wheeler	0	0	0	0
Personal four-wheeler	0	18	0	18
Personal two-wheeler	0	29	6	35
Bicycle	145	0	0	145
On foot	115	22	0	137
Others (non-motorised)	0	0	0	0
SUB-TOTAL	2452	117	17	2586

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

5

How many students suffer from respiratory ailments ?

23

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.	GEETHA SHYAMSUNDER	geetadithyakochi@yahoo.com
2.	JAYASREE NAIR	jsreenair@gmail.com
3.	SMITHA JAYARAJ	smithajayaraj95@gmail.com

Administrative staff

Sno.	Name	Email
1.	Ambily Menon	ambilycrs@gmail.com

Students

Sno.	Name	Email	Grade/Class
1.	Aryan Sai	kalaanil9@gmail.com	10
2.	Abraham P M	helenkj28@gmail.com	10
3.	Adeen Nazar	layanazar@gmail.com	10
4.	Aman E S	bijiskumar24@gmail.com	10
5.	Ananthapadmanabhan P	vijir@federalbank.co.in	10

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)	2200	7920.00	0
Electricity from generator (diesel) (litres)	0	0.00	0
Petrol (litres)	0	0.00	0
Diesel (litres)	10	456.00	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)	0	0.00	0
Piped Natural Gas (kilogrammes)	0	0.00	0
TOTAL	2210.00	8376.00	

No documents uploaded by the school.

4

What appliances does your school have?

	Number	Size	BEE Star Rating
Air Conditioners	14	1.5	0
Refrigerator	3	160	0
Microwave	0	0	0
Tube Lights	147	0	0
CFL Bulbs	35	0	0
LED Lights	0	0	0
Fans	151	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?

18

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.	Rashmi P Raju	rashraju@gmail.com
2.	Deepa A Nair	deepalatheesh@gmail.com
3.	Alphonsa Johny	rohitjohn001@gmail.com

Administrative staff

Sno.	Name	Email
1.	Lalu K B	lakslalu@gmail.com

Students

Sno.	Name	Email	Grade/Class
1.	Sreeraj S Rajaram	sreerajraja@gmail.com	10
2.	Sandhra KP	drseethalekshmy@yahoo.com	10
3.	Raj Krishna	seenasudheer.123@gmail.com	10
4.	Rahul Omanakuttan	jomanakuttan@gmail.com	10
5.	R sidharth	rekharefresh@gmail.com	10

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?

Yes

4(a)

Please provide the details:

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

Others

0

4(b)

Give descriptions for rare local snacks served in your school:?

Aval, Kinnathappam, Tapioca, Kozhukatta

5

Does your school serve traditional Indian beverages?

Yes

5(a)

Details are as follows:

	Number of servings sold when on the menu
Nimboo pani	50
Sweet lassi	0
Salted butter milk	125
Aam Panna	0
Others	0

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.	Bindu T M	bindu_110@yahoo.com
2.	Login Rajan	loginrajan2@gmail.com
3.	Preetha V R	preethakaimal@gmail.com

Administrative staff

Sno.	Name	Email
1.	Lilly P J	lillypj1960@gmail.com

Students

Sno.	Name	Email	Grade/Class
1.	Sreekarun A	mayaaajay1973@gmail.com	9
2.	Rose Sherin Ansary	sherinansary75@gmail.com	9
3.	KevinRex	rexcharly61@yahoo.com	9
4.	Bliss joseph	adv Saiji@gmail.com	9
5.	Athira K S	umasureshka@yahoo.co.in	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 ²)	24,866
Ground coverage area	5,376
Green landscaped area on-ground	4,566
Surface parking area	400
Play area that is paved/ concrete on ground	320
Play area that has grass on ground	200
Service Area on ground	0

Roof and terrace area	0
Green cover on exposed roof & terrace	0
Total built up/constructed area	10,000
Total no. of floors	3
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	125	0	125
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. LAWN TO CONSERVE WATER.JPG



WATER

Task 1: Water Audit Team

Teachers

Sno.	Name	Email
1.	Jayasree L	chitragandha5134@gmail.com
2.	Sajini K S	kssajini7@gmail.com
3.	Helen Earnest	aceassociates73@rediffmail.com

Administrative staff

Sno.	Name	Email
1.	Calvin Paul	calvinpaul2005@gmail.com

Students

Sno.	Name	Email	Grade/Class
1.	Aswathy C R	ria0353@gmail.com	10
2.	Anjali Varma	varma.deepa09@gmail.com	10
3.	Aravind Ajay	praveena10671@gmail.com	10
4.	Aromal Sanyo	aromalsanyo@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	254
Toilet flushing	415
Personal cleaning	175
Washing clothes	80
Cooking	90
Cleaning Utensils	150
Washing Vegetables	25

Mopping floors	190
Gardening	230
Total	1609

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, Rain 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

7-12 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?	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?	No
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. water storing.JPG
2. Bhavans Vidya Mandir%2C Elamakkara - Health %26 Sanitation 03.jpg
3. Bhavans Vidya Mandir%2C Elamakkara - Health %26 Sanitation 04.jpg

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

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

6(b)(2)

Does your school have rainwater storage tank?

Yes

6(b)(2)(a)

Total capacity of storage tank (litres)

161000.00

6(b)(2)(b)

Total number of storage tanks

5.00

6(b)(2)(c)

Location of tanks:

Underground + Over-ground + Semi underground

6(b)(2)(d)

Material options for tanks

Combination of PVC + RCC + 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, 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?

Do not follow any such pattern

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?

Do not follow any such pattern

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?

1-5 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?

7

9 How many hand pumps do you have?

0

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

120

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

	Girls	Boys	Common	Total
Number of toilets	58	26	0	84

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

20

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

0

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

More than twice 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.	Sudha P A	sudha50710@gmail.com
2.	Manju R Nair	manjurnair@yahoo.com
3.	Bindu S Nair	bimalsk69@gmail.com

Administrative staff

Sno.	Name	Email
1.	Lalitha B	lalithagkpillai@gmail.com

Students

Sno.	Name	Email	Grade/Class
1.	E V Pranav	vinodkumar71264@gmail.com	10
2.	Gautham Sankar P K	pkravisankar@gmail.com	10
3.	Gopika Praveen	ashap1005@gmail.com	10
4.	Govind S	vineethasanthoshwriter@gmail.com	10
5.	Harikrishnan M D	damumadassery@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. Students and teachers
2. Housekeeping (Sweeper)
3. 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	65	0	65	0	0
Playgrounds	3	0	3	0	0
Common area (e.g. reception, corridors)	8	0	5	0	3
Staffroom	12	0	12	0	0
Laboratory	8	0	8	0	0
Canteen	2	0	0	2	0
Clinic/ Sick room	3	0	3	0	0
Library	2	0	2	0	0
Toilets	0	0	0	0	0
Others	0	0	0	0	0
Total	103	0	98	2	3

Supporting Documents

1. Health %26 Sanitation 06.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	72
Kitchen waste	102
Paper	48
Plastic	35
Wood, glass, metal, classroom furniture	12
E-waste	25
Biomedical waste	0

Sanitary waste	38
Construction and Demolition (C & D) waste	105
Hazardous waste	0
Total Generated Solid Waste (in kilogram)	437

No documents uploaded by the school.

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	28
Kitchen waste	65
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)	93

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 Mechanical composting (with electricity/ machines)

5b

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

93.00

5c

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

For horticultural purposes 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?

HorticulturalPaper

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	5	5	0
Refrigerators and freezers	3	3	0
Washing machines	0	0	0
Air conditioners	14	14	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)	61	61	0
Laptop computer (CPU, mouse, screen and keyboard included)	1	1	0

Notebook computers	0	0	0
Notepad computers	0	0	0
Printers	6	6	0
Copying equipment (Photocopiers)	1	1	0
Projectors	62	62	0
Whiteboards	62	62	0
Electrical & electronic typewriters	0	0	0
Pocket & desk calculators	0	0	0
Fax machines	1	1	0
Telex	0	0	0
Telephones	6	6	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?

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

No documents uploaded by the school.

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

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?

An insight in to innovative practices that can be adopted in the school.

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	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?

No

11

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

More than twice

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?

75.00

Checklist of uploaded documents

1. Pictures of landscaped area
2. Pictures of burning waste