



# GREEN SCHOOLS PROGRAMME

## Responses for Green Schools Programme Audit 2016

**School Name:** Bharatiya Vidya Bahavan`s, V.M. Public school

**Address:** Makarpura Teen Rasta, Makarpura, Vadodara, Vadodara, Vadodara, Gujarat, India

**Coordinator Name:** Manisha Bhatt



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

Bharatiya Vidya Bahavan`s, V.M. Public school

2

### Address

Makarpura Teen Rasta, Makarpura, Vadodara, Vadodara, Vadodara, Gujarat, India

3

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

(ISD) 91 (STD) 0265 (NUMBER) 6555586

4

### Mobile Number (Mobile Number with STD code)

(ISD) 91 (Number) 9974132121

5

### Principal Name

Dr. Sheeba Balraj Kadyan (I/C)

6

### GSP Coordinator Name

Manisha Bhatt

7

### GSP Coordinator Email

manishagbhatt@gmail.com

8

### GSP Coordinator Mobile Number

(ISD)91 (Number) 9898289519

9

### Category Of The School

Day Boarding + Residential

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	1401	959	2360
Teachers	11	76	87
Non-Teaching Staff	51	13	64
TOTAL	1463	1048	2511

4(b) How many visitors visit your school

242

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

246

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.	Ms. Rani Devi Garg	Ms. Rani Devi Garg
2.	Ms. Suruchi Sharma	sur5480@gmail.com

#### Administrative staff

Sno.	Name	Email
1.	Mr. Krishna Pawar	
2.	Mr. Prashant Thange	

#### Students

Sno.	Name	Email	Grade/Class
1.	Dhruv Saxena	saxenadhruv04@gmail.com	7
2.	Sahil Srivastava	sahil.srivastava2004@gmail.c	7
3.	Darshit Vaghasiya		8
4.	Deep A. Patel		8
5.	Yuvrajsinh Sindha		8
6.	Animesh Prakash		9
7.	Devarshi Doshi	DevarshiDoshi007@gmail.com	9
8.	Hardik Shah		11
9.	Rahul Dave	rahuldave75@gmail.com	11
10.	Vishvesh Patel	vishveshpatel136@yahoo.com	11

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

1 How many classrooms does your school have?

61

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)
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Nursery A	46.71	11.03	23.61
Nursery B	46.71	11.03	23.61
IIA	46.46	21.24	45.73
IIIB	46.46	21.24	45.73
VIA	50.23	8.37	16.67
VIIIB	52.32	13.39	25.60
IXC	52.33	13.39	25.60
XD	51.72	13.39	25.90
XIC	50.02	13.39	26.78
XIID	51.72	13.39	25.90
TOTAL	494.66	139.88	

### 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 does not use or own 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	27	0	0	27
School Transport(Other than bus)	0	0	0	0
Public transport (other than bus, Metro, car pool)	0	0	0	0
Taxi four-wheeler	1262	0	0	1262
Taxi three-wheeler	285	8	6	299
Personal four-wheeler	212	36	1	249
Personal two-wheeler	358	39	32	429

Bicycle	76	0	16	92
On foot	140	4	9	153
Others (non-motorised)	0	0	0	0
SUB-TOTAL	2360	87	64	2511

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

5

How many students suffer from respiratory ailments ?

100

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.	Anish Pillai	a_nis_h@yahoo.co.in
2.	Jayesh Chaturvedi	bvb.jayeshchaturvedi@gmail.com

#### Administrative staff

Sno.	Name	Email
1.	Nirav Thakar	info@bhavansbaroda.org
2.	Harit Dave	info@bhavansbaroda.org
3.	Satish Sharma	info@bhavansbaroda.org

#### Students

Sno.	Name	Email	Grade/Class
1.	Gaurang Solanki	gorangsolanki111@gmail.com	11
2.	Jay Jagani	jayjagani1051@gmail.com	11
3.	Robbin Mathew	info@bhavansbaroda.org	11
4.	Bhavik Balai	bhavikbalai2141@gmail.com	11
5.	Hitesh Pampaniya	hiteshpampaniya@0022gmail.com	11

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

1

Does your school have access to an electricity bill?

Yes

#### Supporting Documents

1. P10.jpg
2. P11.jpg
3. P12.jpg
4. P13.jpg
5. P14.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)	19473	70102.80	3
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)	12000	211200.00	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	31473.00	281302.80	

No documents uploaded by the school.

4

What appliances does your school have?



	Number	Size	BEE Star Rating
Air Conditioners	9	1.5 TON	4 STAR
Refrigerator	3	150	3 STAR
Microwave	0	0	0
Tube Lights	589	40 W	2 STAR
CFL Bulbs	24	15 W	3 STAR
LED Lights	0	0	0
Fans	614	70 W	2 STAR

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?

14

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.	Manisha Singh Bhatt	manishagbhatt@gmail.com
2.	Mamta Singh	mamta17singh@gmail.com

#### Administrative staff

Sno.	Name	Email
1.	Satish Sharma	

#### Students

Sno.	Name	Email	Grade/Class
1.	Manan Uttekar		8
2.	Subin David		8
3.	Krishna Dagli		8
4.	Yagna Nijhawan		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?

No

2(a) Do students bring their own lunch from home?

Yes

#### Supporting Documents

1. IMG\_a17994.JPG
2. aaIMG\_20161020\_111444.jpg
3. IMG\_a20161020\_111519\_HDR.jpg
4. qIMG\_20161020\_111158.jpg

5. qIMG\_20161020\_111344.jpg

2(a)(1) How many students out of total student population bring home-made lunch?

2360.00

2(a)(2) Of the students who bring lunch from home, how many bring packaged food?

0.00

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

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

#### Supporting Documents

1. AIMG\_6579\_1.jpg
2. AIMG\_6585\_1.jpg
3. AI7MG\_6579\_1.jpg
4. IMG\_a7997.JPG
5. IMG\_a7987.JPG



## LAND

### Task 1: Land Audit Team

#### Teachers

Sno.	Name	Email
1.	Namrata Mahendra	manishagbhatt@gmail.com
2.	Manisha Bhatt	manishabhatt44@yahoo.com

#### Administrative staff

Sno.	Name	Email
1.	Mr.Krishna Pawar	

#### Students

Sno.	Name	Email	Grade/Class
1.	Manish Kori		8
2.	Bhumika Upadhyay		8
3.	Yash Dhamelia		8
4.	Krati Jain		8
5.	Yash Panchal		8
6.	Anushka Singh		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)	150,738
Ground coverage area	138,653
Green landscaped area on-ground	50,000
Surface parking area	5,000
Play area that is paved/ concrete on ground	45,000
Play area that has grass on ground	55,000
Service Area on ground	0

Roof and terrace area	11,885
Green cover on exposed roof & terrace	0
Total built up/constructed area	11,885
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	21	0	21
Animals	55	0	55

### 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. 4.JPG
2. mb.JPG
3. mb2.jpg
4. mb3.jpg
5. IMG\_20161015\_095730247.jpg



## WATER

### Task 1: Water Audit Team

#### Teachers

Sno.	Name	Email
1.	Ms. Rupal Lad	ladrupal16@gmail.com
2.	Ms. Sarika Chaubey	sarikachaubey@yahoo.in

#### Administrative staff

Sno.	Name	Email
1.	Mr. Satish Sharma	
2.	Mr. Chatur Tarabada	

#### Students

Sno.	Name	Email	Grade/Class
1.	Devarshi Doshi		9
2.	Animesh Kumar		9
3.	Krushna Thakkar		9
4.	Siddharth Bharadwaj		9

### 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	3000
Toilet flushing	7000
Personal cleaning	5000
Washing clothes	1000
Cooking	200
Cleaning Utensils	200
Washing Vegetables	0

Mopping floors	100
Gardening	5000
Total	21500

### 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, Surface 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?	No
If your school has an eco-club, do they have water component?	No
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?	Yes



Any other step taken for water conservation? (if Yes, please specify)

No

**Supporting Documents**

1. water bill1.jpg
2. water bill2.jpg
3. WATER BILL3.jpg
4. water purifier.jpg
5. sprinkler.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).

13425198

**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?

50

9 How many hand pumps do you have?

0

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

101

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

	Girls	Boys	Common	Total
Number of toilets	20	14	13	47

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

51

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

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.	MR. B.M.PATEL	bmpphy21@yahoo.com

#### Administrative staff

Sno.	Name	Email
1.	MR. SATISH SHARMA	

#### Students

Sno.	Name	Email	Grade/Class
1.	ADITI DHAPRE		10
2.	NARENDRA PATAT		10
3.	PRINJAY KOTHIYA		10
4.	SAITEJA TUMMURI		10
5.	PARAM SHAH		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 Waste collection points in your school.

	Total No. of collection points	No bin	One bin	Two bins (wet & dry)	Three bins or more
Classrooms	29	6	21	0	2
Playgrounds	3	1	1	1	0

Common area (e.g. reception, corridors)	3	0	3	0	0
Staffroom	9	7	2	0	0
Laboratory	4	0	1	1	2
Canteen	1	1	0	0	0
Clinic/ Sick room	1	0	0	0	1
Library	1	0	1	0	0
Toilets	2	2	0	0	0
Others	13	2	7	1	3
Total	66	19	36	3	8

### Supporting Documents

1. IMG\_7437.JPG
2. IMG\_8400.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	3000
Kitchen waste	0
Paper	300
Plastic	0
Wood, glass, metal, classroom furniture	0
E-waste	10
Biomedical waste	2
Sanitary waste	0
Construction and Demolition (C & D) waste	0
Hazardous waste	0

Total Generated Solid Waste (in kilogram)

3312

### Supporting Documents

1. IMG\_20161018\_144219.jpg
2. IMG\_20161018\_144231.jpg
3. IMG\_20161018\_131813.jpg
4. IMG\_20161024\_143811.jpg

## 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	3000
Kitchen waste	0
Paper	50
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)	3050

5

Does your school have a composting facility?

Yes

## Supporting Documents

1. 1.JPG
2. IMG\_5209.JPG
3. IMG\_5213.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)?

1,500.00

5c

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

For school garden

6

Does your school encourage students &amp; 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. IMG\_20161018\_145124.jpg
2. IMG\_20161018\_150826.jpg
3. IMG\_20161018\_151234.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. IMG\_20161024\_143852.jpg
2. IMG\_20161018\_145916.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	4	4	0
VCR or DVD players	0	0	0
Refrigerators and freezers	1	1	0
Washing machines	0	0	0
Air conditioners	10	10	0
Heaters	2	2	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)	87	83	4
Laptop computer (CPU, mouse, screen and keyboard included)	2	2	0
Notebook computers	0	0	0
Notepad computers	0	0	0
Printers	17	15	2
Copying equipment (Photocopiers)	1	1	0
Projectors	51	51	0
Whiteboards	52	52	0
Electrical & electronic typewriters	0	0	0
Pocket & desk calculators	0	0	0
Fax machines	1	1	0
Telex	0	0	0
Telephones	10	10	0
Pay telephones	0	0	0
Mobiles	0	0	0
Answering systems	0	0	0

### Supporting Documents

1. IMG\_20161018\_144231.jpg

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

**Supporting Documents**

1. IMG\_2355.JPG
2. DSC\_6907.JPG

13a

What form do these awareness drives take?

By the showcasing of posters and stickers

14

Is the study of the environment integrated into the curriculum?

Yes

**Supporting Documents**

1. IMG\_20161024\_143811.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?

to implement rainwater harvesting, waste water management

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?

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?

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?

4.00

### Checklist of uploaded documents

1. Fuel Bills
2. Electricity Bill
3. Photographs of lunch boxes
4. Pictures of Green Cover
5. Pictures of landscaped area
6. Building construction plan
7. Pictures of bio-pesticides
8. Pictures of dustbins in classroom showing segregation at source
9. Pictures of playground with more than two dustbins
10. Picture of audit team weighing solid waste
11. Picture of types of solid waste generated
12. Pictures of recycling units - composting pit, paper recycling machine, selling paper to kabadiwala, recyclers, etc
13. Pictures of housekeeping staff disposing different types of solid waste
14. Pictures of Electronic items used by school and storage of non-working electronic items
15. Pictures of various school initiatives e.g. rally, debate, street play, art competition, etc
16. Pictures of respective audit teams doing survey