



GREEN SCHOOLS PROGRAMME

Responses for Green Schools Programme Audit 2016

School Name: Government secondary school
Address: Bikmat, Namchi, South District, Sikkim,
India
Coordinator Name: Anurag Rai



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

Government secondary school

2

Address

Bikmat, Namchi, South District, Sikkim, India

3

Telephone Number (Landline Number with STD code)

(ISD) 91 (STD) 03595 (NUMBER) 123456

4

Mobile Number (Mobile Number with STD code)

(ISD) 91 (Number) 9749601405

5

Principal Name

Mamta Subba

6

GSP Coordinator Name

Anurag Rai

7

GSP Coordinator Email

anuragrai224@gmail.com

8

GSP Coordinator Mobile Number

(ISD)91 (Number) 8348210184

9

Category Of The School

Day Scholar

10

School Shifts

Morning

GENERAL QUESTIONS

1

How many levels does your school have?

Lowest level of grade:6

Highest level of grade:7

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	50	66	116
Teachers	10	12	22
Non-Teaching Staff	4	1	5
TOTAL	64	79	143

4(b)

How many visitors visit your school

200

5

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

233

6

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

Nov

7

Where is the school located?

Rural Area



AIR

Task 1: Air Audit Team

Teachers

Sno.	Name	Email
1.	Damber Subba	Damber Subba
2.	Dongmit Lepcha	lepchapradhan11@gmil.com

Administrative staff

Sno.	Name	Email
1.	K.B Dural	

Students

Sno.	Name	Email	Grade/Class
1.	Sushmita Chettri		
2.	Preeti Chettri		
3.	Sneah Rai	raisneah2002@gmail.com	
4.	Nitesh Rai		
5.	Tashi Sherpa		
6.	Asish Rai		

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

1 How many classrooms does your school have?

14

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)
1	12.74	9.47	74.33
2	14.72	2.68	18.19
3	12.16	10.72	88.11
4	14.25	8.04	56.40

5	36.12	5.35	14.82
6	38.13	10.72	28.10
7	37.14	5.36	14.42
8	36.12	6.36	17.60
9	47.14	18.94	40.18
10	38.13	2.94	7.72
TOTAL	286.66	80.57	

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?

Operator-owned 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	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	14	1	15
Taxi three-wheeler	0	0	0	0
Personal four-wheeler	0	4	1	5
Personal two-wheeler	0	1	0	1
Bicycle	0	0	0	0
On foot	116	3	3	122
Others (non-motorised)	0	0	0	0

SUB-TOTAL	116	22	5	143
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Task 5: How good is the air you breathe in your school?

5

How many students suffer from respiratory ailments ?

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.	Anurag Rai	anuragrai224@yahoo.com
2.	Aiti Rai	aitirai78@gmail.com

Administrative staff

Sno.	Name	Email
1.	Samir Sharma	

Students

Sno.	Name	Email	Grade/Class
1.	Gyan Tshering Lepcha		10
2.	Deepash Rai	deepashrai12@gmail.com	09
3.	Rupen Chettri		10
4.	Santoshi Rai		10
5.	Preetam Rai		08
6.	Bhumika Rai		08

Task 2: How much energy does your school consume?

1

Does your school have access to an electricity bill?

Yes

Supporting Documents

1. IMG_0005.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)	8	28.80	1
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)	1.5	67.05	3
Coal (kilogrammes)	0	0.00	0
Wood (kilogrammes)	450	7920.00	3
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	459.50	8015.85	

Supporting Documents

1. IMG_0006.jpg

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	1	36	5

CFL Bulbs	8	20	5
LED Lights	1	15	5
Fans	0	0	0

Supporting Documents

1. 20161111_105107.jpg
2. 20161111_104741.jpg

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

5

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

285

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.	Sandhhya Rai	rag_samp@yahoo.com
2.	Sharmila rai	sharmila05@gmail.com

Administrative staff

Sno.	Name	Email
1.	Lakhu Lepcha	

Students

Sno.	Name	Email	Grade/Class
1.	Puja Subba	pujasubba2202@gmail.com	09
2.	Barssha Rai	barsharai3@gmail.com	09
3.	Ravina RAi		08
4.	Robin RAi		10
5.	Karan RAi		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	136	45	10
Instant Noodles like Knorr, Cup-a-noodles, Top Ramen, Wai-wai, Yippee, Foodles, Maggi, etc	82	27	10
Potato fries and Burgers	0	0	0
Confectionery items (chocolate, candies, gums)	283	110	10
Ice-cream	01	43	10
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

Supporting Documents

1. IMG_20161112_105858.jpg

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	12
Others	12

4(b)

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

Sukha Roti, Thaipho, Chowmein And Paratha

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. IMG_20161112_105802.jpg



LAND

Task 1: Land Audit Team

Teachers

Sno.	Name	Email
1.	Nirmal Bharati	nirmalbharati10@gmail.com
2.	A.K Basu	austinanumita@gmail.com

Administrative staff

Sno.	Name	Email
1.	Amos Rai	

Students

Sno.	Name	Email	Grade/Class
1.	Aswin Rai		10
2.	Tashi Sherpa		10
3.	Rudhra Bardewa		09
4.	Samjana Rai		10
5.	Rohit hang Subba		08

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)	24,260
Ground coverage area	764
Green landscaped area on-ground	382
Surface parking area	253
Play area that is paved/ concrete on ground	3,130
Play area that has grass on ground	668
Service Area on ground	19

Roof and terrace area	330
Green cover on exposed roof & terrace	142
Total built up/constructed area	764
Total no. of floors	2
Others	3,682

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	5	8	13
Animals	2	2	4

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. 20161111_112359.jpg
2. 20161111_112238.jpg
3. IMG_20161112_110418.jpg



WATER

Task 1: Water Audit Team

Teachers

Sno.	Name	Email
1.	Tashi T. Bhutia	rag_samp@yahoo.com
2.	Gyatri Rai	gayatrirai741@gamil.com

Administrative staff

Sno.	Name	Email
1.	B.B Pradhan	

Students

Sno.	Name	Email	Grade/Class
1.	Pranisha Chettri	pranishachettri@gmail.com	9
2.	Silvana Shanker	silvanashanker@gmail.com	9
3.	Dipshika Rai	dipshikarai001@gmail.com	9
4.	Sarita RAI		8
5.	Sonumit Lepcha		10
6.	Sarina Rai		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	54.5
Toilet flushing	97
Personal cleaning	21.5
Washing clothes	0
Cooking	27.6
Cleaning Utensils	42.5
Washing Vegetables	29.5

Mopping floors	0
Gardening	42
Total	314.6

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

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

Surface water

3 Who supplies the water in your school?

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

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?	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)

No

Supporting Documents

1. 20161111_130110.jpg
2. 20161111_110427.jpg
3. 20161111_105119.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).

11993

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?	No
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?

2

9

How many hand pumps do you have?

0

10

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

2

11

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

	Girls	Boys	Common	Total
Number of toilets	6	6	2	14

12

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

4

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

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.	O.D Lepcha	rag_samp@yahoo.com
2.	C.K Rai	shoyahang07@gmail.com

Administrative staff

Sno.	Name	Email
1.	Amosh Rai	

Students

Sno.	Name	Email	Grade/Class
1.	Sanjay Rai	bhaloosanjayrai@gmail.com	09
2.	MANisha RAi		10
3.	Anita biswakarma		10
4.	Bijay Shanker		10
5.	Pradeep ai	pradeeprai468@gmail.com	09
6.	Bindhya RAi	bindhyarai@gmail.com	09

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	14	0	0	14	0

Playgrounds	2	0	0	2	0
Common area (e.g. reception, corridors)	4	0	1	3	0
Staffroom	1	0	0	1	0
Laboratory	1	0	0	0	1
Canteen	2	0	0	2	0
Clinic/ Sick room	0	0	0	0	0
Library	1	0	1	0	0
Toilets	14	0	0	13	1
Others	4	0	0	4	0
Total	43	0	2	39	2

Supporting Documents

1. 20161111_110439.jpg
2. 20161111_105603.jpg
3. 20161111_111334.jpg
4. 20161111_104112.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	1.5
Kitchen waste	1.7
Paper	2
Plastic	0.5
Wood, glass, metal, classroom furniture	0
E-waste	0
Biomedical waste	0

Sanitary waste	0.5
Construction and Demolition (C & D) waste	0
Hazardous waste	0
Total Generated Solid Waste (in kilogram)	6.2

Supporting Documents

1. IMG_20161112_105359.jpg
2. IMG_20161112_104833.jpg

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)				

Supporting Documents

1. IMG_20161112_105406.jpg
2. IMG_20161112_105442.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_20161112_105101.jpg
2. IMG_20161112_104802.jpg

9

Does your school burn waste?

Yes

Supporting Documents

1. IMG_20161112_104833.jpg
2. IMG_20161112_104837.jpg

9a

Where does your school burn waste?

Inside the school

9b

What kind of waste is being burnt/ incinerated?

PlasticPaper

10

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

	Total	Working conditions	Non-working condition
TVs	0	0	0
VCR or DVD players	0	0	0
Refrigerators and freezers	0	0	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	2	7
Laptop computer (CPU, mouse, screen and keyboard included)	0	0	0
Notebook computers	0	0	0
Notepad computers	0	0	0
Printers	1	1	0
Copying equipment (Photocopiers)	0	0	0
Projectors	0	0	0
Whiteboards	4	4	0
Electrical & electronic typewriters	0	0	0
Pocket & desk calculators	2	2	0
Fax machines	0	0	0
Telex	0	0	0
Telephones	0	0	0
Pay telephones	0	0	0
Mobiles	0	0	0

Answering systems	0	0	0
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Supporting Documents

1. IMG_20161112_104340.jpg
2. IMG_20161112_104321.jpg
3. IMG_20161112_110611.jpg

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?

No

14

Is the study of the environment integrated into the curriculum?

Yes

Supporting Documents

1. IMG_20161112_104802.jpg
2. IMG_20161112_104334.jpg
3. IMG_20161112_104308.jpg
4. IMG_20161112_141727.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?

More Funding for buying equipment and facilities.

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?

Never

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?

6.00

Checklist of uploaded documents

1. Fuel Bills
2. Electricity Bill
3. Picture of 5 star appliances used by school
4. Picture of Mid-day meal being served
5. Photographs of lunch boxes
6. Picture of Canteen selling UPPF
7. Pictures of Green Cover
8. Pictures of landscaped area
9. Building construction plan
10. Pictures of dustbins in classroom showing segregation at source
11. Pictures of playground with more than two dustbins
12. Picture of audit team weighing solid waste
13. Picture of types of solid waste generated
14. Pictures of recycling units - composting pit, paper recycling machine, selling paper to kabadiwala, recyclers, etc
15. Pictures of housekeeping staff disposing different types of solid waste
16. Pictures of burning waste
17. Pictures of Electronic items used by school and storage of non-working electronic items
18. Pictures of respective audit teams doing survey