



GREEN SCHOOLS PROGRAMME

Responses for Green Schools Programme Audit 2016

School Name: Govt. Senior Secondary School, Namchi
Address: Namchi , Namchi , South District, Sikkim,
India
Coordinator Name: K. S.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

Govt. Senior Secondary School, Namchi

2

Address

Namchi , Namchi , South District, Sikkim, India

3

Telephone Number (Landline Number with STD code)

(ISD) 91 (STD) 03595 (NUMBER) 263844

4

Mobile Number (Mobile Number with STD code)

(ISD) 91 (Number) 9434241185

5

Principal Name

K. Inbaraj

6

GSP Coordinator Name

K. S.Rai

7

GSP Coordinator Email

jkcob2002@yahoo.com

8

GSP Coordinator Mobile Number

(ISD)91 (Number) 9647873899

9

Category Of The School

Day Scholar + Day Boarding

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	928	184	1112
Teachers	28	42	70
Non-Teaching Staff	7	10	17
TOTAL	963	236	1199

4(b)

How many visitors visit your school

30

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?

Oct, Nov

7

Where is the school located?

Urban Area



AIR

Task 1: Air Audit Team

Teachers

Sno.	Name	Email
1.	Bikash Pradhan	Bikash Pradhan
2.	K.S.Rai	jkcob2002@yahoo.com

Administrative staff

Sno.	Name	Email
1.	Bishal Gurung	

Students

Sno.	Name	Email	Grade/Class
1.	Iman Lepcha	lepchaiman15@gmail.com	12
2.	Anish Pradhan	anish05pradhan@gmail.com	12
3.	Hari Mangar	mangerhari00@gmail.com	12
4.	Rohail Khan		12
5.	Tapen Rai		12

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)
Class I Section B	460.00	24.00	5.22
Class II B	450.00	24.00	5.33
Class V A	336.00	24.00	7.14
Class IV B	450.00	24.00	5.33
Class VIII A	450.00	24.00	5.33

Class VII B	432.00	24.00	5.56
Class X A	638.00	24.00	3.76
Class IX D	720.00	24.00	3.33
Class XII A	720.00	24.00	3.33
Class XII C	638.00	24.00	3.76
TOTAL	5,294.00	240.00	

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 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	00	00	00	0
Public Bus	00	00	00	0
School Transport(Other than bus)	00	00	00	0
Public transport (other than bus, Metro, car pool)	00	00	00	0
Taxi four-wheeler	00	00	00	0
Taxi three-wheeler	00	00	00	0
Personal four-wheeler	00	12	1	13
Personal two-wheeler	00	2	00	2
Bicycle	00	00	00	0
On foot	1112	56	16	1184
Others (non-motorised)	00	00	00	0
SUB-TOTAL	1112	70	17	1199

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

5

How many students suffer from respiratory ailments ?

8

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?

Yes



ENERGY

Task 1: Energy Audit Team

Teachers

Sno.	Name	Email
1.	Parijit Sutradhar	parijitsd@gmail.com
2.	Mukesh Singh	mukeshsingh1961555@gmail.com

Administrative staff

Sno.	Name	Email
1.	Prava Rai	

Students

Sno.	Name	Email	Grade/Class
1.	Hem Kumar Pradhan	hemkumar10pradhan@gmail.com	11
2.	Sandeep Thapa	sandeepthapa032@gmail.com	11
3.	Shaurav Pradhan	shauravpradhan99@gmail.com	11
4.	Iaichhika Cintury	iaichhikacen11@gmail.com	11
5.	Rekha Rai	rekharai310@gmail.com	11

Task 2: How much energy does your school consume?

1 Does your school have access to an electricity bill?

Yes

Supporting Documents

- 1478590998081172326411.jpg
- 1478591095056-1149067836.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)	3201	11523.60	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)	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	3201.00	11523.60	

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	205	60	0
CFL Bulbs	26	18	0
LED Lights	1	7	0

Fans	28	60	0
------	----	----	---

Supporting Documents

1. 1478593438739-571367295.jpg
2. 1478593462995172326411.jpg
3. 1478593500621-2056223651.jpg
4. 1478593551934-1149067836.jpg

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

5

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

182

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.	K.K.Pradhan	khemretail@sikkimve.edu.in
2.	Bijay Kumar Verma	bijay_85@yahoo.com

Administrative staff

Sno.	Name	Email
1.	Vishal Gurung	vishalgurung772@gmail.com

Students

Sno.	Name	Email	Grade/Class
1.	Danish Ansari	danish18ansari@gmail.com	11
2.	Deependra Rai	dependrarai694@gmail.com	11
3.	Manisha Pradhan	pradhanman2000@gmail.com	11
4.	Elina Chheteri	elinasikkim@gmail.com	11
5.	Ramit Lepcha	ramitlepcha@gmail.com	11

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
Yes

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	7	700	9
Instant Noodles like Knorr, Cup-a-noodles, Top Ramen, Wai-wai, Yippee, Foodles, Maggi, etc	3	700	9
Potato fries and Burgers	1	100	9
Confectionery items (chocolate, candies, gums)	3	1000	9
Ice-cream	0	0	0
Carbonated beverages	0	0	0
Sugar sweetened noncarbonated beverages	3	100	9
Packaged/Bottled Nimboo Paani/ Lassi/ Flavoured milk	0	0	0
Packaged/Bottled Energy Drinks	0	0	0

Supporting Documents

1. upload.jpg
2. IMG_20161109_124735.jpg
3. IMG_20161109_124750.jpg
4. IMG_20161109_124735.jpg
5. IMG_20161109_124720.jpg

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. IMG_20161109_125030.jpg
2. IMG_20161109_124743.jpg
3. IMG_20161109_124735.jpg
4. IMG_20161109_124726.jpg
5. IMG_20161109_124720.jpg



LAND

Task 1: Land Audit Team

Teachers

Sno.	Name	Email
1.	Dupchen Tshering Lepcha	dupchenlepcha13@gmail.com

Administrative staff

Sno.	Name	Email
1.	Binita Pradhan	vinita260977@gmail.com

Students

Sno.	Name	Email	Grade/Class
1.	Babin Raj Gurung	babinrajg@gmail.com	11
2.	Sandeep Thapa	sandeepthapa032@gmail.com	11
3.	Hem Kumar Pradhan	hemkumar10pradhan@gmail.com	11
4.	Shaurav Pradhan	shauravpradhan99@gmail.com	11
5.	Deependra Rai	dependrarai694@gmail.com	11
6.	Danish Ansari	danish18ansari@gmail.com	11
7.	Manisha Pradhan	pradhanman2000@gmail.com	11
8.	Ramit Lepcha	ramitlepcha@gmail.com	11
9.	Rekha Rai	rekharai310@gmail.com	11
10.	Iaicchika Cintury	iaicchikacen11@gmail.com	11

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)	88,595
Ground coverage area	11,417
Green landscaped area on-ground	67,853
Surface parking area	300

Play area that is paved/ concrete on ground	2,404
Play area that has grass on ground	0
Service Area on ground	300
Roof and terrace area	5,789
Green cover on exposed roof & terrace	0
Total built up/constructed area	20,742
Total no. of floors	2
Others	8

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	98	16	114
Animals	4	0	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. IMG_20161110_143508.jpg
2. IMG_20161110_143407.jpg
3. IMG_20161110_143919.jpg
4. IMG_20161111_140832.jpg
5. IMG_20161111_142600.jpg



WATER

Task 1: Water Audit Team

Teachers

Sno.	Name	Email
1.	Subhendu Nath	subhendunath69@gmail.com
2.	Dupchen Tshering Lepcha	dupchenlepcha13@gmail.com
3.	K.S.Rai	jkcob2002@yahoo.com

Administrative staff

Sno.	Name	Email
1.	Binita Pradhan	vinita260977@gmail.com
2.	Jyotimit Lepcha	
3.	Prava Rai	

Students

Sno.	Name	Email	Grade/Class
1.	Babin Raj Gurung	babinrajg@gmail.com	11
2.	Hem Kumar Pradhan	hemkumar10pradhan@gmail.com	11
3.	Sandeep Thapa	sandeepthapa032@gmail.com	11
4.	Deependra Rai	dependrarai694@gmail.com	11
5.	Manisha Pradhan	pradhanman2000@gmail.com	11
6.	Elina Chhetri	ELINASIKKIM@gmail.com	11
7.	Ramit Lepcha	ramitlepcha@gmail.com	11
8.	Rekha Rai	rekharai310@gmail.com	11
9.	Iaicchika Cintury	iaicchikacen11@gmail.com	11
10.	Iman Lepcha	lepchaiman15@gmail.com	12

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	2000
Personal cleaning	500
Washing clothes	1000
Cooking	1000
Cleaning Utensils	100
Washing Vegetables	100
Mopping floors	100
Gardening	500
Total	6800

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?

Public Health Engineering Department (PHED)

4 Does your school get daily water supply?

No

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

Every alternate day 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?	Yes
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)	Yes

Supporting Documents

1. IMG_20161115_103434.jpg
2. IMG_20161115_103456.jpg
3. IMG_20161115_112145.jpg
4. IMG_20161115_113934.jpg
5. IMG_20161115_112335.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?.

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

6(b)(2)

Does your school have rainwater storage tank?

Yes

6(b)(2)(a)

Total capacity of storage tank (litres)

100.00

6(b)(2)(b) Total number of storage tanks

2.00

6(b)(2)(c) Location of tanks:

Over ground

6(b)(2)(d) Material options for tanks

Combination of PVC + RCC + Brick

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

Storage tank

6(e) Rate your catchment on cleanliness:

Average

Supporting Documents

1. IMG_20161115_112355.jpg
2. IMG_20161115_111649.jpg
3. IMG_20161115_111518.jpg
4. IMG_20161115_112113.jpg
5. IMG_20161115_112113.jpg

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?	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?

172

9

How many hand pumps do you have?

0

10

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

91

11

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

	Girls	Boys	Common	Total
Number of toilets	32	32	4	68

12

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

24

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?

No

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?

Yes

18

Does your school reuse the treated wastewater?

Yes

18(a)

How does your school reuse wastewater?

Flushing

No documents uploaded by the school.



WASTE

Task 1: Waste Audit Team

Teachers

Sno.	Name	Email
1.	Subhendu Nath	subhendhunath69@gmail.com
2.	Dupchen Tshering Lepcha	dupchenlepcha13@gmail.com
3.	K.S.Rai	jkcob2002@gmail.com

Administrative staff

Sno.	Name	Email
1.	Binita Pradhan	vinita260977@gmail.com
2.	Jyotimit Lepcha	
3.	Prava Rai	

Students

Sno.	Name	Email	Grade/Class
1.	Dawa Tshering Tamang	dawatsheringtamang99@gmail.com	11
2.	Hem Kumar Pradhan	hemkumar10pradhan@gmail.com	11
3.	Babin Raj Gurung	babinrajg@gmail.com	11
4.	Manisha Pradhan	pradhanman2000@gmail.com	11
5.	Elina Chhetri	ELINASIKKIM@gmail.com	11
6.	Iaicchika Cintury	iaicchikacen11@gmail.com	11
7.	Rekha Rai	rekharai310@gmail.com	11
8.	Iman Lepcha	lepchaiman15@gmail.com	12
9.	Shaurav Pradhan	shauravpradhan99@gmail.com	11
10.	Deependra Rai	dependraraoi694@gmail.com	11

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	40	0	40	0	0
Playgrounds	10	0	0	1	9
Common area (e.g. reception, corridors)	6	0	6	0	0
Staffroom	11	0	11	0	0
Laboratory	4	0	1	3	0
Canteen	3	0	1	2	0
Clinic/ Sick room	0	0	0	0	0
Library	2	0	2	0	0
Toilets	2	0	0	2	0
Others	1	0	1	0	0
Total	79	0	62	8	9

Supporting Documents

1. Classroom segregation at source.jpg
2. playground dust bin.jpg
3. Playgroung with dust bin.jpg
4. Waste segregation.jpg
5. Segregation.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
Kitchen waste	4
Paper	0.5
Plastic	0.5
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 Generated Solid Waste (in kilogram)	6

Supporting Documents

1. Audit weighing.jpg
2. Audit weighing.jpg
3. Solid waste generated.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. Recycling 1.jpg
2. Recycling 2.jpg
3. Recycling unit.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)

No documents uploaded by the school.

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	2	1	1

VCR or DVD players	2	1	1
Refrigerators and freezers	0	0	0
Washing machines	0	0	0
Air conditioners	0	0	0
Heaters	1	1	0
Microwaves	0	0	0
Ovens	0	0	0
Toasters	0	0	0
Electric Kettles	3	2	1
Personal computers (CPU, mouse, screen and keyboard included)	25	19	6
Laptop computer (CPU, mouse, screen and keyboard included)	1	1	0
Notebook computers	0	0	0
Notepad computers	0	0	0
Printers	7	6	1
Copying equipment (Photocopiers)	1	1	0
Projectors	3	2	1
Whiteboards	44	42	2
Electrical & electronic typewriters	0	0	0
Pocket & desk calculators	4	4	0
Fax machines	0	0	0
Telex	0	0	0
Telephones	2	2	0
Pay telephones	0	0	0
Mobiles	0	0	0
Answering systems	0	0	0

Supporting Documents

1. e waste 1.jpg
2. e waste 2.jpg
3. e machine.jpg
4. e waste 1.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?

Taken back by manufacturer

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

Supporting Documents

1. Aidit team survey 1.jpg
2. Audit team survey 2.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?

Active participation of students and teachers can act as human resources (man power) to make a school resource efficient and green. Besides, there are many other factors which are equally important to make it happen so. These are : innovative ideas/suggestions from experts, infrastructure and financial implications. Thus said, we look forward to receive the above mentioned help. Thank You!

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	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?

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?

12.00

Checklist of uploaded documents

1. Electricity Bill
2. Picture of Mid-day meal being served
3. Picture of Canteen selling UPPF
4. Pictures of Green Cover
5. Pictures of landscaped area
6. Building construction plan
7. Pictures of dustbins in classroom showing segregation at source
8. Picture of audit team weighing solid waste
9. Pictures of respective audit teams doing survey