

Responses for Green Schools Programme Audit 2016

School Name: GOVT. SECONDARY SCHOOL SINGHIK

Address: Singhik - Sentam, North Sikkim, Pin No.

737116, Singhik -Sentam, North-

Sikkim, Pin No. 737116, Mangan, North

District, Sikkim, India

Coordinator Name: Mr Tashi Lepcha



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

4	Name	of the	School /	Institution
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GOVT. SECONDARY SCHOOL SINGHIK

2 Address

Singhik - Sentam, North Sikkim, Pin No. 737116, Singhik - Sentam, North-Sikkim, Pin No. 737116, Mangan, North District, Sikkim, India

Telephone Number (Landline Number with STD code)

(ISD) 91 (STD) (NUMBER) 9434257360

Mobile Number (Mobile Number with STD code)

(ISD) 91 (Number) 9002140055

5 Principal Name

Mr Karma Tshering Bhutia

6 GSP Coordinator Name

Mr Tashi Lepcha

GSP Coordinator Email

taspirit47@gmail.com

GSP Coordinator Mobile Number

(ISD)91 (Number) 9932832988

Category Of The School

Day Scholar

10 School Shifts

Both

GENERAL QUESTIONS

How many levels does your school have?

Lowest level of grade:1 Highest level of grade:10

ls your school single gender or mixed gender?

Mixed/Co-education

Which board of education does the school follow?

Central Board of Secondary Education

Total permanent population of the school

	Male	Female	Total
Students	159	173	332
Teachers	6	18	24
Non-Teaching Staff	4	2	6
TOTAL	169	193	362

4(b) How many visitors visit your school

15

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?

March, June, Aug, Sep

Where is the school located?

Rural Area



Task 1: Air Audit Team

Teachers

Sno.	Name	Email
1.	Tashi lepcha	Tashi lepcha
2.	Tshering Doma Bhutia	tshering@gmail.com
3.	Sova Tamang	sova@gmail.com

Administrative staff

Sno.	Name	Email
1.	Karma Tshering Bhutia	plawang29@gmail.com
2.	Saluta Kazi	saluta@gmail.com
3.	Sakuntala Rai	sakun@gmail.com

Students

Sno.	Name	Email	Grade/Class
1.	Sijata Bista	-	10
2.	Kailasn Chaudari	-	10
3.	Gyal Lepcha	-	10
4.	Bhunumit Lepcha	-	10
5.	Bhim Rai	-	9
6.	Atit Subba	-	9
7.	Lee Sonam Lepcha	-	8
8.	Chengna Lhamu Lepcha	-	8
9.	Priya Tosh	-	6
10.	Niki Subba	-	6

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

1

How many classrooms does your school have?

15

Window-floor ratio of classrooms in the school.

2

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)
PPC	24.00	18.00	75.00
IV	24.00	18.00	75.00
VIII	30.00	28.00	93.33
IX	30.00	24.00	80.00
Χ	30.00	24.00	80.00
VII	30.00	24.00	80.00
VI	30.00	24.00	80.00
V	24.00	18.00	75.00
III	24.00	18.00	75.00
1	24.00	18.00	75.00
TOTAL	270.00	214.00	

Task 3: How eco-friendly are the vehicles in your school?

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?

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	6	1	7
Taxi three-wheeler	0	0	2	2

Personal four-wheeler	0	2	1	3
Personal two-wheeler	0	1	0	1
Bicycle	0	0	0	0
On foot	333	13	3	349
Others (non-motorised)	0	0	0	0
SUB-TOTAL	333	22	7	362

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



Does the school laboratory have air quality monitoring equipment?

No

No documents uploaded by the school.

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.	Pempa Bhutia	bhutiapempa19@yahoo.com
2.	Bimla Subba	bimla12379@gmail.com
3.	Sonam Doma Bhutia	sonam@gmail.com

Administrative staff

Sno.	Name	Email
1.	Karma Tshering Bhutia	palwang29@gmail.com

Students

Sno.	Name	Email	Grade/Class
1.	Tarsong Lepcha	tarsonglepcha36@gmail.com	10
2.	Dechen Bhutia	0	10
3.	Krishna Prasad	0	9
4.	Passang Dorjee	0	9
5.	Roshan Gupta	0	6
6.	Jyoti subba	0	8
7.	Prabin Subba	0	6
8.	Marmit Lepcha	0	9
9.	Gaurav Panday	0	7
10.	Yougash Subba	0	8

Task 2: How much energy does your school consume?



Does your school have access to an electricity bill?

Yes

Supporting Documents

- 1. electricity bill 002.jpg
- 2. Electricity Bill %282%29.jpg

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)	100	360.00	0
Electricity from generator (diesel) (litres)	5	228.00	0
Petrol (litres)	4	186.80	0
Diesel (litres)	0	0.00	0
CNG (kilogrammes)	0	0.00	0
Kerosene (litres)	2	89.40	0
Coal (kilogrammes)	0	0.00	0
Wood (kilogrammes)	300	5280.00	0
Animal waste (kilogrammes)	0	0.00	0
Solar (kwh)	0	0.00	0
Wind (kwh)	0	0.00	0
LPG (kilogrammes)	60	3096.00	0
Piped Natural Gas (kilogrammes)	0	0.00	0
TOTAL	471.00	9240.20	

Supporting Documents

1. fuel bill.JPG

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	30	3
CFL Bulbs	12	20	4
LED Lights	0	0	0
Fans	0	0	0

No documents uploaded by the school.

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

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

150

Are there any alternate sources of energy employed/installed in your school?

No

No documents uploaded by the school for energy chapter.



Task 1: Food Audit Team

Teachers

Sno.	Name	Email
1.	Passang Lhamu Lachungpa	pnorzing5@gmail.com
2.	Lhamu Lepcha	lhamu7@gmail.com
3.	haNima Lhamu Lepc	0

Administrative staff

Sno.	Name	Email
1.	Karma Tsh.Bhutia	palwang29@gmail.com

Students

Sno.	Name	Email	Grade/Class
1.	Narayan Thapa	0	10
2.	Tshering ongmu	0	7
3.	Karjay Lepcha	0	7
4.	Norbu Lepcha	0	7
5.	Biswajit Mondol	0	7
6.	Thundamit Lepcha	0	7
7.	Pem Norbu	0	9
8.	Suk Maya Gurung	0	9
9.	Ambar Thapa	0	9
10.	Chumit Lepcha	0	9

Task 2: Find out about the food service in your school.

Does your school have a provision/space to sell packaged food items within the campus

Yes

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

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	4	600	09
Instant Noodles like Knorr, Cup-a- noodles, Top Ramen, Wai-wai, Yippee, Foodles, Maggi, etc	2	500	09
Potato fries and Burgers	2	300	09
Confectionery items (chocolate, candies, gums)	6	450	09
Ice-cream	1	300	09
Carbonated beverages	2	150	09
Sugar sweetened noncarbonated beverages	1	200	09
Packaged/Bottled Nimboo Paani/ Lassi/ Flavoured milk	4	100	09
Packaged/Bottled Energy Drinks	1	20	09

Supporting Documents

1. uppf.jpg

Does your school serve traditional Indian snacks?

Yes

Please provide the details:

	Number of plates sold when on the menu
Samosas	100

Idli/vada and sambhar	0
Pav bhaji	0
Momos	250
Others	400

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

Momo is a very popular delicacy in Singhik.i is prepared by stuffing minced meat, vegetables or cheese in flour dough and than molding there in the form of dumplings. These are than steamed for about half an hour in a three tiered utensil that has bone or tomato soup in the lowest compartment. Momo are taken with soup and home made chilly sauce.

Does your school serve traditional Indian beverages?

Yes

5(a) Details are as follows:

	Number of servings sold when on the menu
Nimboo pani	0
Sweet lassi	0
Salted butter milk	70
Aam Panna	0
Others	0

Task 4: What kind of food does your school promote?

Does the school distribute packaged food items as rewards during schools events?

No

Does the school distribute chocolates/similar products as refreshments during schools events?

Yes

7(a) Please provide the names?

Dairy milk,kit kat,Munch,milky Bar,5 star. Bourneville.

Are your school events such as quiz shows, talent shows, debates sponsored by food companies/brands?

No

No documents uploaded by the school.



Task 1: Land Audit Team

Teachers

Sno.	Name	Email
1.	P.C.singh	chandprem@yahoo.com
2.	Dawa Lhandup Lepcha	0
3.	Denlok Lepcha	0

Administrative staff

Sno.	Name	Email	
1.	Karma Tshering Bhutia	palwang29@gmail.com	

Students

Sno.	Name	Email	Grade/Class
1.	Sujata Bista	0	10
2.	Vikram thakur	0	10
3.	Dichen Bhutia	0	10
4.	Gopal Subba	0	10
5.	Tarsong Lepcha	0	10
6.	Changna Lhamu Lepcha	0	10
7.	Kailash Chaudari	0	10
8.	Karma Doma Lepcha	0	10
9.	Beena Rai	0	10
10.	Dawa Tamang	0	10

Task 2: Measure the four critical areas of your school campus

Complete the table:

1	Complete	uic	tubic.

	Your school's area
Site area in square meter (m2)	9,040
Ground coverage area	2,287
Green landscaped area on-ground	3,911

Surface parking area	0
Play area that is paved/ concrete on ground	870
Play area that has grass on ground	1,972
Service Area on ground	0
Roof and terrace area	3,257
Green cover on exposed roof & terrace	0
Total built up/constructed area	4,804
Total no. of floors	8
Others	0

Task 3: Explore the number of species of plants and animals in your school

How many species of plants and animals exist in your school?

	Native	Exotic	Total
Plants	15	2	17
Animals	12	0	12

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. construction plan.jpg
- 2. Green cover.jpg



WATER

Task 1: Water Audit Team

Teachers

Sno.	Name	Email
1.	Sharap Palzom Bhutia	sharabpalzombhutiagtk@gmail.com
2.	humjay Bhutia	scorjey@gmail.com
3.	Geeta Chettri	geetachettri333@gmail.com

Administrative staff

Sno.	Name	Email
1.	Karma Tshhering Bhutia	palwang29@gmail.com

Students

Sno.	Name	Email	Grade/Class
1.	Yamuna Rai	0	10
2.	Thendup Dorjee Lepcha	0	10
3.	Anjaja Subba	0	9
4.	Tandup Sherpa	0	9
5.	Sweety Sharma	0	8
6.	Amol Kumar Prasad	0	8
7.	Tempa Tamang	0	8
8.	Tseten Lepcha	0	8
9.	Neeki Subba	0	6
10.	Prabin Subba	0	6

Task 2: How much water does your school use?

Calculate your school's water consumption, per activity.

Activity	Total Quantity (litres per day)
Drinking	150
Toilet flushing	2870
Personal cleaning	360

Washing clothes	60
Cooking	170
Cleaning Utensils	250
Washing Vegetables	50
Mopping floors	10
Gardening	20
Total	3940

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

Where does the water your school uses, come from?

Surface water

Who supplies the water in your school?

Panchayat

Does your school get daily water supply?

Yes

4(a) If supply of water is daily, please tick the correct option

13-18 hours

Task 4: What are the water conservation practices followed in your school?

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?	Yes

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

Supporting Documents

- 1. a.jpg
- 2. b.jpg
- 3. f.jpg
- 4. i.jpg

Task 5: Does your school harvest rainwater?

Do you have Rainwater harvesting (RWH) system in your school?

No

6(a) Calculate your school's rainwater harvesting potential (in litres).

20000

Task 6: Are the plumbing and sanitation facilities in your school adequate?

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?	No
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?	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

How many drinking water taps do you have?

6

How many hand pumps do you have?

0

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

8

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

	Girls	Boys	Common	Total
Number of toilets	4	6	2	12

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

3

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

2

ls there a water storage system in place to supply water in the toilets?

Yes

ls the water supply sufficient?

Yes

Are the toilets cleaned?

Yes

16(a) If yes, please specify

Twice a day

Task 7: Does your school reuse/recycle waste water?

Does your school treat wastewater?

No

Does your school reuse the treated wastewater?

No

Please specify the fate of wastewater

Wastewater flows directly to the drains

No documents uploaded by the school.



Task 1: Waste Audit Team

Teachers

Sno.	Name	Email
1.	K.P.Kaushik	KP@gmail.com
2.	Dawa Tshering Lepcha	0
3.	Denlock Lepcha	0

Administrative staff

Sno.	Name	Email	
1.	karma Tshering Bhutia	plawong29@gmail.com	
2.	Saluta Kazi	0	

Students

Sno.	Name	Email	Grade/Class
1.	Passankit Lepcha	0	10
2.	Gyal Lepcha	0	10
3.	Rabina Rai	0	9
4.	Lee Sonam Lepcha	0	8
5.	Priyatosh Sherma	0	6
6.	Royal Lepcha	0	7
7.	Chengna Lhamu Lepcha	0	10
8.	chandray Subba	0	9
9.	Nikkin Subba	0	6
10.	Titas Subba	0	9

Task 2: What is the waste segregation system in your school?

1 Do

Does your school segregate solid waste?

Yes

1a

Who segregates the waste at source?

- 1. Students and teachers
- 2. Housekeeping (Sweeper)

3. Ragpicker

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	15	0	10	3	2
Playgrounds	4	1	0	2	1
Common area (e.g. reception, corridors)	8	1	4	2	1
Staffroom	5	0	3	1	1
Laboratory	3	0	1	1	1
Canteen	7	0	4	2	1
Clinic/ Sick room	0	0	0	0	0
Library	4	0	2	1	1
Toilets	6	0	2	2	2
Others	3	1	1	1	0
Total	55	3	27	15	10

Supporting Documents

- 1. 19.jpg
- 2. 28.jpg
- 3. 17.jpg
- 4. 16.jpg
- 5. solid waste.jpg

Task 3: How much waste does your school generate?

Determine the quantity of waste generated in your school. (in kilogram)

	Collection per month (Frequency may differ)
Garden/ horticulture waste	50

Kitchen waste	30
Paper	20
Plastic	6
Wood, glass, metal, classroom furniture	40
E-waste	0.25
Biomedical waste	0.25
Sanitary waste	2
Construction and Demolition (C & D) waste	80
Hazardous waste	0
Total Generated Solid Waste (in kilogram)	228.5

Supporting Documents

- 1. Weighing Solid waste.jpg
- 2. solid waste %282%29.jpg
- 3. solid waste.jpg

Task 4: How much waste does your school recycle/treat?

Does your school recycle any generated waste?

Yes

Please provide quantity of which is applicable. (in kilogram)

	Quantity
Garden/ horticulture waste	5
Kitchen waste	5
Paper	2
Plastic	2
Wood, glass, metal, classroom furniture	6
E-waste	0

Biomedical waste	0
Sanitary waste	0
Construction and Demolition (C & D) waste	0
Hazardous waste	0
Total (in kilogram)	20

5

Does your school have a composting facility?

Yes

Supporting Documents

1. compost pit.jpg

5a What is the methodology used?

Natural composting without added microbes

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

10.00

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

For horticultural purposesFor school garden

Does your school encourage students & teachers to reuse textbooks?

Yes

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. kabadiwalla 1.jpg
- 2. kabadi 2.jpg
- 3. kabadi 3.jpg
- 4. kabadi 4.jpg

Task 5: How does your school dispose waste?

What lo

What is the final destination for waste that is disposed of externally?

Supporting Documents

Landfill Site

- 1. safai karmachari disposing solid waste.jpg
- 2. safai karmachari disposing solid waste.jpg
- Does your school burn waste?

No

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	1	0	1

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)	12	4	8
Laptop computer (CPU, mouse, screen and keyboard included)	2	2	0
Notebook computers	0	0	0
Notepad computers	0	0	0
Printers	3	2	1
Copying equipment (Photocopiers)	1	1	0
Projectors	1	1	0
Whiteboards	2	2	0
Electrical & electronic typewriters	1	0	1
Pocket & desk calculators	1	1	0
Fax machines	0	0	0
Telex	0	0	0
Telephones	1	0	1
Pay telephones	0	0	0
Mobiles	0	0	0
Answering systems	0	0	0

Supporting Documents

1. non working electronic item.jpg

- 2. non working electronic item.jpg
- 3. working electronic item 2.jpg
- 4. working electronic item3.jpg

11

Do you know that your E-waste can be collected by an authorised dealer or dismantler?

Yes

Supporting Documents

1. kabadiwalla 1.jpg

11a

Who collects your e-waste, when not in working condition?

Kabadiwalla/ Scrapdealer

Task 6: School's initiatives

12

Does the school have a policy on waste?

Yes

Policy document

waste policy 7.jpg

13

Are there awareness drives with regard to Reduce, Recycle and Reuse?

Yes

Supporting Documents

- 1. skit on waste management.jpg
- 2. slogan writing.jpg

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. survey A.jpg
- 2. survey A %282%29.jpg
- 3. Audit team.jpg
- 4. school parcha pdf.pdf



FEEDBACK

Has your school participated in the Green Schools Programme (GSP) Audit before?

No

Have teachers from your school participated in teacher interactive workshops organized by the GSP team?

Yes

Did you find the online information relevant to your environmental education activities?

Yes

Was the audit easy-to-understand and self-explanatory?

Yes

Did you understand the present format of the GSP?

Yes

Do you think your school will be a Green School (resource efficient) by 2019?

Yes

What would be the help required to make your school a Green School?

We need funds and experts intervention for proper planning and sustainable development to protect our environment.

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

Would your school like to recommend any topic/s that you strongly feel should be added or deleted in the audit?

Yes

If yes, please share your suggestions.

The use of mobile phone is increasing day by day and people are unaware of its harmful radiation and proper disposal when it get damaged. So one topic Mobile phone should be included for mass awareness.

Could you finish all the tasks in given period of time online?

Yes

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

Once

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

Did your students enjoy doing the Water activities?

Yes

How many students were involved in the activities?

100.00

Checklist of uploaded documents

1. Fuel Bills

13(a)

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

- 16. Waste Policy
- 17. Pictures of various school initiatives e.g. rally, debate, street play, art competition, etc
- 18. Pictures of respective audit teams doing survey