

Responses for Green Schools Programme Audit 2016

School Name: Sikkim Government College Tadong

Address: Tadong, Gangtok, East District, Sikkim,

India

Coordinator Name: Sangay. G. Bhutia



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

Sikkim Government College Tadong

2 Address

Tadong, Gangtok, East District, Sikkim, India

Telephone Number (Landline Number with STD code)

(ISD) 91 (STD) 03592 (NUMBER) 231917

Mobile Number (Mobile Number with STD code)

(ISD) 91 (Number) 9434448580

5 Principal Name

Dr (Mrs L.Alley)

6 GSP Coordinator Name

Sangay. G. Bhutia

GSP Coordinator Email

sangaylapen@gmail.com

6 GSP Coordinator Mobile Number

(ISD)91 (Number) 9434174754

9 Category Of The School

Day Scholar

School Shifts

Both

GENERAL QUESTIONS

How many levels does your school have?

Lowest level of grade:11 Highest level of grade:12

ls your school single gender or mixed gender?

Mixed/Co-education

Which board of education does the school follow?

Other: 'Sikkim University (SU)'

Total permanent population of the school

	Male	Female	Total
Students	1316	1813	3129
Teachers	43	40	83
Non-Teaching Staff	38	25	63
TOTAL	1397	1878	3275

4(b) How many visitors visit your school

3500

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

190

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

Sep

Where is the school located?

Urban Area



Task 1: Air Audit Team

Teachers

Sno.	Name	Email
1.	Dr. Monashree Pradhan	Dr. Monashree Pradhan
2.	Ms. Renuka Chettri	renukachettri2918@gmail.com
3.	Ms. Prasansha Subba	prasanshasubba@gmail.com

Administrative staff

Sno.	Name	Email
1.	Mr. A.B Rai	rai_@gmail.com
2.	Mr. Santosh Subba	sand_subb@yahoo.com

Students

Sno.	Name	Email	Grade/Class
1.	Khusboo Sharma	sharma.khusboo1711@gmail.com	5
2.	Anu Chettri	chettrianu95@gmail.com	5
3.	Tshering Yangden Sherpa	tshyangden123456@gmail.com	5
4.	Sumitra Chettri	sumitra5@gmail.com	5
5.	Binit Limboo	binitsubba1995@gmail.com	5
6.	Roshna Pradhan	roshnap67@gmail.com	5
7.	Gracy Darjee	gracyd92@gmail.com	5
8.	Tshering Chemu Lachenpa	chumul94@gmail.com	5
9.	Sonam Ongmu Lepcha	sonamong.@gmail.com	5
10.	Tshering Yangden hutia	tshyangden@gmail.com	5

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

1 How many classrooms does your school have?

31

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)
Administrative Block	94.00	3.34	3.56
PG Block	21.14	11.79	55.76
Library	710.49	7.66	1.08
Humanities Block	147.83	9.32	6.30
Science block	129.62	13.78	10.63
Commerce Block	73.71	3.55	4.81
N-Block	222.82	13.83	6.21
Boys Hostel	954.67	20.50	2.15
Girls Hostel	210.00	20.00	9.52
Teaching Staff Quarter 1	85.76	3.32	3.87
TOTAL	2,650.05	107.09	

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?

A combination of school-owned and operator-owned vehicles

Provide details of school-owned motorized vehicles .

	Buses	Cars	Vans	Others	Total
No. of vehicles	1	72	0	31	104
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)	28	441.4752	0	190.07	659.5452

Supporting Documents

1. r71CFV0DbF6Sf6QC6aDFbKSK.jpg

Specify the type of fuel used by your school vehicles:

	Diesel	Petrol	LPG	CNG	Electric	Hybrid
Bus	1	0	0	0	0	0
Car	0	0	0	0	0	0
Van	0	0	0	0	0	0
Other vehicles	0	0	0	0	0	0
SUB-TOTAL	1	0	0	0	0	0

Supporting Documents

- 1. a0DyBM8PNEeE4r8KUD4hHy90.jpg
- 2. KFVKtXABY6tCDU8CW5d6QdUM.jpg
- 3. V7192BKhB7V3tCR8AT64JJPF.jpg
- 4. yb2A77r10YX78D5gy3NDYQHM.jpg

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	180	0	0	180
Public Bus	100	0	10	110
School Transport(Other than bus)	0	0	0	0
Public transport (other than bus, Metro, car pool)	0	0	0	0
Taxi four-wheeler	800	25	26	851
Taxi three-wheeler	0	0	0	0
Personal four-wheeler	24	52	5	81

Personal two-wheeler	55	4	6	65
Bicycle	0	0	0	0
On foot	1970	2	16	1988
Others (non-motorised)	0	0	0	0
SUB-TOTAL	3129	83	63	3275

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

How many students suffer from respiratory ailments ?

360

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.	Parasmani dangal	radaparas@gmail.com

Administrative staff

Sno.	Name	Email
1.	Nima Sherpa	radaparas@gmail.com

Students

Sno.	Name	Email	Grade/Class
1.	Betan Prasad Sharma	sharmabetan45@gmail.com	1
2.	Amiras Luitel	luitelamiras2015@gmail.com	3
3.	Bikash Dangal	bikashdangal19@yahoo.com	3
4.	Aang Dawa Sherpa	aangdawa33@gmail.com	5
5.	Dil Kumar Gurung	dkgurung03@gmail.com	5
6.	Lokesh Ral	lokeshkhaling5@gmail.com	3
7.	Mitralall Sharma	mitralall77@gmail.com	3
8.	Dinesh Sharma	dineshsharma123@gmail.com	3
9.	Anjoloo Pradhan	radaparas@gmail.com	1
10.	Dudhraj Subba	dudhrajsubba5@gmail.com	3

Task 2: How much energy does your school consume?

1

Does your school have access to an electricity bill?

Yes

- 1. New Doc 1_1.jpg
- 2. New Doc 1_3.jpg
- 3. New Doc 1_4.jpg
- 4. New Doc 1_5.jpg

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)	5933.17	21359.41	5
Electricity from generator (diesel) (litres)	0	0.00	0
Petrol (litres)	505	23583.50	1
Diesel (litres)	150	6840.00	2
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)	1	3.60	0
Wind (kwh)	0	0.00	0
LPG (kilogrammes)	213	10990.80	1
Piped Natural Gas (kilogrammes)	0	0.00	0
TOTAL	6802.17	62777.31	

Supporting Documents

1. a0DyBM8PNEeE4r8KUD4hHy90.jpg

What appliances does your school have?

	Number	Size	BEE Star Rating
Air Conditioners	0	0	0

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Refrigerator	7	125	4 star
Microwave	0	0	0
Tube Lights	527	15	3 star
CFL Bulbs	174	15	4 star
LED Lights	0	0	0
Fans	135	ciling fan	3 star

Supporting Documents

- 1. 20161115_074623.jpg
- 2. 20161115_074710.jpg
- 3. 20161115_074657.jpg
- 4. 20161115_092142.jpg

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

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

188

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

Yes

Name the alternate sources of energy employed/ installed in your school?

Solar

- 1. IMG-20161117-WA0009%5B1%5D.jpg
- 2. IMG-20161117-WA0008%5B1%5D.jpg



Task 1: Food Audit Team

Teachers

Sno.	Name	Email
1.	Dr. Satyadeep Singh Chettri	satyazworld@gmail.com

Administrative staff

Sno.	Name	Email	
1.	Sangay Gyatso Bhutia	sangaylapen@gmail.com	

Students

Sno.	Name	Email	Grade/Class
1.	Bivek Dahal	bivekdahal53@yahoo.com	5
2.	Pritam Chettri	pritam31c@gmail.com	5
3.	Sandhya Prasad	sndhprasad5@gmail.com	5
4.	Bikash Chettri	bikashchettri32@gmail.com	3
5.	Suraj Sharma	surajsharma201507@gmail.com	5

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?

No

Do students bring their own lunch from home?

No

No documents uploaded by the school.

Task 3: What kind of food is 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	20	630	10
Instant Noodles like Knorr, Cup-a- noodles, Top Ramen, Wai-wai, Yippee, Foodles, Maggi, etc	7	3270	10
Potato fries and Burgers	0	0	0
Confectionery items (chocolate, candies, gums)	0	0	0
Ice-cream	5	900	6
Carbonated beverages	0	0	0
Sugar sweetened noncarbonated beverages	3	980	8
Packaged/Bottled Nimboo Paani/ Lassi/ Flavoured milk	1	40	10
Packaged/Bottled Energy Drinks	0	0	0

- 1. IMG-20161115-WA0007%5B1%5D.jpg
- 2. IMG-20161115-WA0008%5B1%5D.jpg
- 3. IMG-20161115-WA0009%5B1%5D.jpg
- 4. IMG-20161115-WA0011%5B1%5D.jpg

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	20
Others	25

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

Momo (Veg , Non-veg), T-momo (no stuffing, served with dum aloo), Faley(Stuffing of veg or non-veg), Aloo thukpa (Noodles with Dum aloo)

Does your school serve traditional Indian beverages?

No

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

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

Yes

6(a) Please provide details

Packaged food containing patties, pastries, samosa, Gelabi, and Bhujiya

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

Yes

7(a) Please provide the names?

Frooti and sometime soft/ cold drinks.

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

No

- 1. IMG-20161117-WA0020%5B1%5D.jpg
- 2. IMG-20161117-WA0021%5B1%5D.jpg



Task 1: Land Audit Team

Teachers

Sno.	Name	Email
1.	Ajay Chettri	ajchettri1900@gmail.com
2.	Sharmaila Karki	sharmilakarki@gmail.com
3.	Satyadeep Chettri	satyazworld@gmail.com

Administrative staff

Sno.	Name	Email	
1.	Sangay Gyatso Bhutia	sangaylapen@gmail.com	

Students

Sno.	Name	Email	Grade/Class
1.	Dilu Sharma	ssabita133@gmail.com	5
2.	Sneha Khawas	sharmilakarki@gmail.com	5
3.	Yogita		5
4.	Rikesh Pradhan		5
5.	Januka Neopaney		5
6.	Ruizang Lama		5

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

9

Complete the table:

	Your school's area
Site area in square meter (m2)	89,031
Ground coverage area	87,788
Green landscaped area on-ground	966
Surface parking area	660
Play area that is paved/ concrete on ground	421
Play area that has grass on ground	5,200

Service Area on ground	638
Roof and terrace area	87,788
Green cover on exposed roof & terrace	0
Total built up/constructed area	23,704
Total no. of floors	4
Others	89,031

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	23	18	41
Animals	0	0	0

Task 4: Find out if your school uses pesticides

Do you use chemical based pesticides in your school green cover?

No

- 1. IMG-20161117-WA0019%5B1%5D.jpg
- 2. IMG-20161110-WA0007.jpg
- 3. build.pdf



WATER

Task 1: Water Audit Team

Teachers

Sno. Name		Email	
1.	Ms Geeta Nirola	geetanirola5@gmail.com	

Administrative staff

Sno. Name		Email
1.	Nima Sherpa	nimasherpa14@gmail.com
2.	Hridayeshwar Basnet	sakarbasnett16@gmail.com

Students

Sno.	Name	Email	Grade/Class
1.	Premlata Sharma	premlatasharma200@gmail.com	5
2.	Chandra Kala Rai	raichandrakala30g@gmail.com	5
3.	Dil Kumari maley	devmaleydarji95@gmail.com	5
4.	Ajay biswakarma	ajaywagoon47@gmail.com	5
5.	Pooja Kharka	poojakharka94@gmail.com	5
6.	Tika Maya Biswakarma	tikabiswa07@gmail.com	5
7.	Asha Bardena		
8.	Deepa Tamang		
9.	Arnav Chettri		
10.	Sabina Chettri		

Task 2: How much water does your school use?

Calculate your school's water consumption, per activity.

Activity	Total Quantity (litres per day)
Drinking	750
Toilet flushing	10800
Personal cleaning	4000
Washing clothes	3600

Cooking	60
Cleaning Utensils	3000
Washing Vegetables	400
Mopping floors	200
Gardening	20
Total	22830

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?

Public Health Engineering Department (PHED)

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?

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?	No
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)	No

No documents uploaded by the school.

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).

15544

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?	No
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

98

How many hand pumps do you have?

0

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

114

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

	Girls	Boys	Common	Total
Number of toilets	65	80	14	159

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

22

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

0

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

No

ls the water supply sufficient?

No

Are the toilets cleaned?

No

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.	Satyadeep Singh Chettri	satyazworld@gmail.com	

Administrative staff

Sno.	Name	Email
1.	Sangay Gyatso Bhutia	sangaylapen@gmail.com

Students

Sno.	Name	Email	Grade/Class
1.	Bivek Dahal	bivekdahal53@yahoo.com	5
2.	Pritam Chettri	pritam31c@gmail.com	5
3.	Sujoy rai	xujoy1234@gmail.com	3
4.	Mahima Chettri	mahima82@gmail.com	3
5.	Gyatsola Bhutia	getsoorla@gmail.com	5
6.	Santosh Panth	spanth96@gmail.com	5

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

Does your school segregate solid waste?

No

Waste collection points in your school.

	Total No. of collection points	No bin	One bin	Two bins (wet & dry)	Three bins or more
Classrooms	0	0	0	0	0
Playgrounds	1	1	0	0	0
Common area (e.g. reception, corridors)	40	5	35	0	0
Staffroom	70	2	68	0	0

Laboratory	9	2	7	0	0
Canteen	8	0	8	0	0
Clinic/ Sick room	1	0	1	0	0
Library	2	0	2	0	0
Toilets	6	2	4	0	0
Others	80	0	80	0	0
Total	217	12	205	0	0

No documents uploaded by the school.

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	44
Kitchen waste	530
Paper	51
Plastic	3
Wood, glass, metal, classroom furniture	20
E-waste	500
Biomedical waste	0
Sanitary waste	3
Construction and Demolition (C & D) waste	68
Hazardous waste	0
Total Generated Solid Waste (in kilogram)	1219

Supporting Documents

1. IMG-20161109-WA0021.jpg

- 2. IMG-20161109-WA0018.jpg
- 3. IMG-20161109-WA0042.jpg
- 4. dustbin.pdf

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

Does your school recycle any generated waste?

No

Does your school have a composting facility?

No

Does your school encourage students & teachers to reuse textbooks?

No

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)	✓	×	×	4
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?



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

Landfill Site

Supporting Documents

1. garbage.jpg

9

Does your school burn waste?

Yes

Supporting Documents

1. Burning-Garbage.jpg

9a Wh

Where does your school burn waste?

Inside the school

9b

What kind of waste is being burnt/ incinerated?

Paper

10

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

	Total	Working conditions	Non-working condition
TVs	60	60	0
VCR or DVD players	3	3	0
Refrigerators and freezers	28	28	0
Washing machines	0	0	0
Air conditioners	0	0	0
Heaters	3	3	0
Microwaves	0	0	0
Ovens	2	2	0

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Toasters	0	0	0
Electric Kettles	37	37	0
Personal computers (CPU, mouse, screen and keyboard included)	10	10	0
Laptop computer (CPU, mouse, screen and keyboard included)	125	125	0
Notebook computers	0	0	0
Notepad computers	0	0	0
Printers	5	5	0
Copying equipment (Photocopiers)	3	3	0
Projectors	5	5	0
Whiteboards	10	10	0
Electrical & electronic typewriters	0	0	0
Pocket & desk calculators	0	0	0
Fax machines	1	1	0
Telex	0	0	0
Telephones	1	1	0
Pay telephones	0	0	0
Mobiles	3178	3178	0
Answering systems	0	0	0

Supporting Documents

- 1. 20161115_074623.jpg
- 2. 20161115_075047.jpg

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

Yes

No documents uploaded by the school.

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

Authorised dealer

Task 6: School's initiatives

Does the school have a policy on waste?

No

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

Yes

Supporting Documents

- 1. programme.pdf
- 2. IMG-20161109-WA0041.jpg

What form do these awareness drives take?

By the showcasing of posters and stickers

Is the study of the environment integrated into the curriculum?

Yes

- 1. IMG-20161109-WA0021.jpg
- 2. IMG_6142.JPG



FEEDBACK

No

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

No

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

No

3(a) If no, then please share your suggestions.

As this questionnaire has been prepared for school, this dose not match with the college campus situation. But we are still thankful to CSE for allowing us the special entry to see the status of the college in going green.

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?

No

6(a) If no, why?

A lot more needs to be done, it is just the starting phase.

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

Suggestions and your guidance

How would you rate the overall design of the audit?

Aspect	Good / Average /Bad	
Content	Average	
Distribution of time among tasks	Good	

Sequencing of tasks	Good
Orientation for conducting tasks	Good

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

No

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?

Twice

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. PUC certificates of not more than five buses
- 2. Fuel Bills
- 3. Picture of School owned vehicles
- 4. Electricity Bill
- 5. Picture of 5 star appliances used by school
- 6. Picture of Renewable sources of Energy
- 7. Picture of Canteen selling UPPF
- 8. Traditional food items sold in canteen
- 9. Pictures of Green Cover
- 10. Building construction plan
- 11. Picture of audit team weighing solid waste
- 12. Picture of types of solid waste generated
- 13. Pictures of housekeeping staff disposing different types of solid waste
- 14. Pictures of burning waste
- 15. Pictures of Electronic items used by school and storage of non-working electronic items
- 16. Pictures of various school initiatives e.g. rally, debate, street play, art competition, etc
- 17. Pictures of respective audit teams doing survey