



GREEN SCHOOLS PROGRAMME

Responses for Green Schools Programme Audit 2016

School Name: Government Secondary School,
Dalapchand

Address: P/O- Upper Dalapchand, , VIA-Rhenock,
Rhenock, East District, Sikkim, India

Coordinator Name: Prakash Poudyal



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, Dalapchand

2

Address

P/O- Upper Dalapchand, , VIA-Rhenock, Rhenock, East District, Sikkim, India

3

Telephone Number (Landline Number with STD code)

(ISD) 91 (STD) 0 (NUMBER) 9933805805

4

Mobile Number (Mobile Number with STD code)

(ISD) 91 (Number) 9933805805

5

Principal Name

Sonam Topgay Bhutia

6

GSP Coordinator Name

Prakash Poudyal

7

GSP Coordinator Email

poudyalprakash70@yahoo.com

8

GSP Coordinator Mobile Number

(ISD)91 (Number) 9002885069

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:1

Highest level of grade:10

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	109	103	212
Teachers	07	14	21
Non-Teaching Staff	05	02	7
TOTAL	121	119	240

4(b)

How many visitors visit your school

20

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?

Sep, Oct

7

Where is the school located?

Rural Area



AIR

Task 1: Air Audit Team

Teachers

Sno.	Name	Email
1.	Uma Devi Dawari	Uma Devi Dawari

Administrative staff

Sno.	Name	Email
1.	Karma Tshering Bhutia	dalapchandschool@gmail.com
2.	Partiman Das Rai	dalapchandschool@gmail.com

Students

Sno.	Name	Email	Grade/Class
1.	Saran Thami		10
2.	Neeru Gurung		10
3.	Anjali Chettri		10
4.	Kushal Rai		9
5.	Namita Gurung		9
6.	Sabina Chettri		9

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

1 How many classrooms does your school have?

10

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)
I	6.50	2.35	36.07
II	11.24	1.81	16.12
III	11.24	2.51	22.31
IV	30.01	3.97	13.24

V	30.01	3.97	13.24
VI	28.24	3.97	14.06
VII	30.01	3.97	13.24
VIII	28.24	3.97	14.06
IX	31.59	3.97	12.57
X	28.24	3.97	14.06
TOTAL	235.32	34.47	

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	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	0	0	0
Taxi three-wheeler	0	0	0	0
Personal four-wheeler	0	0	0	0
Personal two-wheeler	0	0	0	0
Bicycle	0	0	0	0
On foot	212	07	21	240
Others (non-motorised)	0	0	0	0

SUB-TOTAL	212	7	21	240
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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.	Mr.Birkha Bahadur Rai	dalapchandchool@gmail.com
2.	Mr. Udai Narayan Mishra	dalapchandschool@gmail.com

Administrative staff

Sno.	Name	Email
1.	Mr. Partiman Das Rai	dalapchandschool@gmail.com

Students

Sno.	Name	Email	Grade/Class
1.	Avinash Rai		10
2.	Ankita Rai		10
3.	Aditya Rai		10
4.	Sristika gurung		9
5.	Rohit Chettri		9
6.	Rohan Chettri		9
7.	Sabitri Chettri		9

Task 2: How much energy does your school consume?

1

Does your school have access to an electricity bill?

Yes

No documents uploaded by the school.

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)	17.7	63.72	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)	0.750	33.53	3
Coal (kilogrammes)	0	0.00	0
Wood (kilogrammes)	160	2816.00	3
Animal waste (kilogrammes)	0	0.00	0
Solar (kwh)	0	0.00	0
Wind (kwh)	0	0.00	0
LPG (kilogrammes)	3.780	195.05	3
Piped Natural Gas (kilogrammes)	0	0.00	0
TOTAL	182.23	3108.30	

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	0	0	0
CFL Bulbs	8	14	0
LED Lights	0	0	0

Fans	0	0	0
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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?

10

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.	Ms. Sushma Rai	dalapchandschool@gmail.com
2.	Mrs. Chungkey Lepcha	dalapchandschool@gmail.com

Administrative staff

Sno.	Name	Email
1.	Mr. Nikash Rai	dalapchandschool@gmail.com

Students

Sno.	Name	Email	Grade/Class
1.	Mahema Rai		10
2.	Sawan Bhujel		10
3.	Budhi Maya Gurung		10
4.	Anu Gurung		9
5.	Awantika Pradhan		9
6.	Uzal Rai		9

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	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. Audit team doing survey.jpg
2. Audit team doing survey %282%29.jpg
3. Food Audit Team.jpg



LAND

Task 1: Land Audit Team

Teachers

Sno.	Name	Email
1.	Mrs. Phupden Bhutia	dalapchandschool@gmail.com
2.	Mr. T. N Poudyal	dalapchandschool@gmail.com

Administrative staff

Sno.	Name	Email
1.	Mr. Nikash Rai	dalapchandschool@gmail.com

Students

Sno.	Name	Email	Grade/Class
1.	Ongden Lepcha		10
2.	Ajay Gurung		10
3.	Shristy Bhujel		10
4.	Sikha Rai		10
5.	Karina Rai		9
6.	Sumiran Rai		9
7.	Manish Gurung		9

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)	5,233
Ground coverage area	4,096
Green landscaped area on-ground	399
Surface parking area	0
Play area that is paved/ concrete on ground	0

Play area that has grass on ground	286
Service Area on ground	0
Roof and terrace area	352
Green cover on exposed roof & terrace	0
Total built up/constructed area	4,913
Total no. of floors	5
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	500	10	510
Animals	10	1	11

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. Green Cover.jpg
2. Landscaped area%26 building construction plan.jpg
3. Land Audit Team doing Survey.jpg
4. Survey of green cover-garden.jpg
5. Main school building.jpg



WATER

Task 1: Water Audit Team

Teachers

Sno.	Name	Email
1.	Mr. Sonam Dorjee Bhutia	dalapchandschool@gmail.com
2.	Mr. Robin Kumar Rai	dalapchandschool@gmail.com

Administrative staff

Sno.	Name	Email
1.	Mr. Nikash Rai	dalapchandschool@gmail.com

Students

Sno.	Name	Email	Grade/Class
1.	Sangam Rai		10
2.	Tripti Rai		10
3.	Rewash Bhujel		10
4.	Bishal Chettri		9
5.	Nikita Chettri		9
6.	Beebake Gurung		9
7.	Binita Rai		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	50
Toilet flushing	70
Personal cleaning	35
Washing clothes	10
Cooking	18

Cleaning Utensils	20
Washing Vegetables	5
Mopping floors	10
Gardening	12
Total	230

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), 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?	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?	No
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?	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. Students preparing drip irrigation units.jpg
2. Drip irrigation units installed.jpg
3. DRIP IRRIGATION UNITS PREPARED FROM WASTE ITEMS.docx
4. Campaign on water conservation.jpg
5. Campaign on water conservation2.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?.

Yes

6(a)(1)

Which is the catchment area being harvested by your school?

Rooftop

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)

500.00

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

PVC

6(c) How much area in your school is harvested?

21 to 30 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:

Good

Supporting Documents

1. Catchment area cleaning RWH.jpg
2. Water audit team doing survey.jpg
3. Water audit team engaged in survey.jpg
4. Catchment area RWH.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?

Post-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?

Do not follow any such pattern

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?

Yes

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?

5

9

How many hand pumps do you have?

0

10

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

4

11

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

	Girls	Boys	Common	Total
Number of toilets	3	3	0	6

12

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

2

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

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

Used for gardening and horticulture

No documents uploaded by the school.



WASTE

Task 1: Waste Audit Team

Teachers

Sno.	Name	Email
1.	Mr. Tashi Namgyal Bhutia	dalapchandschool@gmail.com
2.	Mrs. Lhaki Doma Sherpa	dalapchandschool@gmail.com

Administrative staff

Sno.	Name	Email
1.	Mrs. Shova Rai	dalapchandschool@gmail.com

Students

Sno.	Name	Email	Grade/Class
1.	Mingma Diki Tamang		10
2.	Manjil Gurung		10
3.	Roshna Rai		10
4.	Smriti Rai		10
5.	Priskila Subba		10
6.	Anumita Rai		9
7.	Tufan Gurung		9

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. Other: 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	10	0	0	10	0
Playgrounds	2	0	0	1	1
Common area (e.g. reception, corridors)	3	0	3	0	0
Staffroom	3	0	3	0	0
Laboratory	1	0	1	0	0
Canteen	0	0	0	0	0
Clinic/ Sick room	0	0	0	0	0
Library	1	0	1	0	0
Toilets	1	0	1	0	0
Others	0	0	0	0	0
Total	21	0	9	11	1

Supporting Documents

1. Segregation of waste at source.jpg
2. Play area with dustbins.jpg
3. Dustbins at playground.jpg
4. Dustbins in classroom.jpg
5. Dustbins in classroom 2.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	6
Kitchen waste	5
Paper	3.6
Plastic	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)	19.6

Supporting Documents

1. Solid waste generated.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	6
Kitchen waste	5
Paper	3
Plastic	1
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)	15

5

Does your school have a composting facility?

Yes

Supporting Documents

1. Students working at composting pit.jpg
2. Composting pit1.jpg
3. Composting pit 2.jpg
4. Composting pit3.jpg
5. Composting pit4.jpg

5a

What is the methodology used?

Other: Vermicomposting

5b

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

9.00

5c

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

For school garden

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. Reuse-Students making useful items from waste.jpg
2. Reuse- making useful items from waste.jpg
3. Reuse- Useful items prepared from waste by students.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. Students preparing to dispose waste.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	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)	5	5	0
Laptop computer (CPU, mouse, screen and keyboard included)	1	1	0
Notebook computers	0	0	0
Notepad computers	0	0	0
Printers	2	2	0
Copying equipment (Photocopiers)	0	0	0
Projectors	0	0	0
Whiteboards	12	12	0
Electrical & electronic typewriters	0	0	0
Pocket & desk calculators	0	0	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

Supporting Documents

1. Electronics used in school.jpg
2. Electronics used in school2.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?

Yes

Policy document

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

14

Is the study of the environment integrated into the curriculum?

Yes

Supporting Documents

1. WASTE MANAGEMENT IN THE SCHOOL.docx
2. Audit team prepared for weighing waste.jpg
3. Solid waste generated.jpg
4. Waste audit team doing survey.jpg
5. WASTE POLICY.docx



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 resources/opportunities for creating awareness among the staff and students so that the motivation to work for environmental protection and being resource efficient be sustained.

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?

7.00

Checklist of uploaded documents

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