



GREEN SCHOOLS PROGRAMME

Responses for Green Schools Programme Audit 2016

School Name: Government Senior Secondary School,
Tharpu

Address: Tharpu, P.O. Soreng, Soreng Sub
Division, West Sikkim, Soreng, West
District, Sikkim, India

Coordinator Name: Roshan 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 Senior Secondary School, Tharpu

2

Address

Tharpu, P.O. Soreng, Soreng Sub Division, West Sikkim, Soreng, West District, Sikkim, India

3

Telephone Number (Landline Number with STD code)

(ISD) 91 (STD) 3595 (NUMBER) 253869

4

Mobile Number (Mobile Number with STD code)

(ISD) 91 (Number) 9434318758

5

Principal Name

N.K. Chettri

6

GSP Coordinator Name

Roshan Rai

7

GSP Coordinator Email

roshanrai259@gmail.com

8

GSP Coordinator Mobile Number

(ISD)91 (Number) 9832623106

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: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	261	251	512
Teachers	20	23	43
Non-Teaching Staff	8	5	13
TOTAL	289	279	568

4(b)

How many visitors visit your school

1

5

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

223

6

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

June, July, Aug, Sep, Oct, Nov

7

Where is the school located?

Rural Area



AIR

Task 1: Air Audit Team

Teachers

Sno.	Name	Email
1.	Moni K Dahal	Moni K Dahal
2.	Gopi M Gurung	tharpusss@gmail.com
3.	Pedan Sharpa	tharpusss@gmail.com

Administrative staff

Sno.	Name	Email
1.	Roshna Pradhan	tharpusss@gmail.com
2.	Denu tamang	tharpusss@gmail.com

Students

Sno.	Name	Email	Grade/Class
1.	Abishek Rai	tharpusss@gmail.com	9
2.	Sheetal Kharka	tharpusss@gmail.com	11
3.	kalpana chettri	tharpusss@gmail.com	10
4.	Srajal panth	tharpusss@gmail.com	8

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

1 How many classrooms does your school have?

19

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)
LKG/UKG	104.00	43.00	41.35
1	104.00	43.00	41.35
2	152.00	54.00	35.53
3	130.00	76.00	58.46

4	224.00	64.00	28.57
5	380.00	118.00	31.05
6	380.00	118.00	31.05
7	399.00	162.00	40.60
8	380.00	118.00	31.05
9	437.00	164.00	37.53
TOTAL	2,690.00	960.00	

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	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)	80	3	1	84
Taxi four-wheeler	50	5	1	56
Taxi three-wheeler	0	0	0	0
Personal four-wheeler	0	20	1	21
Personal two-wheeler	1	1	0	2
Bicycle	0	0	0	0
On foot	381	14	10	405
Others (non-motorised)	0	0	0	0

SUB-TOTAL	512	43	13	568
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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.	Sandesh Rai	tharpusss@gmail.com
2.	Anu Rai	tharpusss@gmail.com

Administrative staff

Sno.	Name	Email
1.	Bhumika Subba	tharpusss@gmail.com
2.	Eksha H Subba	tharpusss@gmail.com

Students

Sno.	Name	Email	Grade/Class
1.	Abhishek Chettri	tharpusss@gmail.com	11
2.	Sejel Sharma	tharpusss@gmail.com	10
3.	Satish Chettri	tharpusss@gmail.com	9
4.	Bhumika Subba	tharpusss@gmail.com	10

Task 2: How much energy does your school consume?

1 Does your school have access to an electricity bill?

Yes

Supporting Documents

1. 20161118_113517.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)	50	180.00	1
Electricity from generator (diesel) (litres)	0	0.00	0
Petrol (litres)	0	0.00	0
Diesel (litres)	1	45.60	4
CNG (kilogrammes)	0	0.00	0
Kerosene (litres)	0	0.00	0
Coal (kilogrammes)	0	0.00	00
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	51.00	225.60	

No documents uploaded by the school.

4

What appliances does your school have?

	Number	Size	BEE Star Rating
Air Conditioners	0	000	00
Refrigerator	0	00	00
Microwave	0	00	00
Tube Lights	0	00	00
CFL Bulbs	5	10	0
LED Lights	5	10	0

Fans	9	2000	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?

190

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.	Rinchen D Bhutia	tharpusss@gmail.com
2.	Subash Rai	tharpusss@gmail.com

Administrative staff

Sno.	Name	Email
1.	Amrita Subba	tharpusss@gmail.com
2.	Tilak Subba	tharpusss@gmail.com
3.	NK Chettri	tharpusss@gmail.com

Students

Sno.	Name	Email	Grade/Class
1.	Preeti Pradhan	tharpusss@gmail.com	9
2.	Tulshi Ram sharma	tharpusss@gmail.com	10
3.	Abhikesh Chettri	tharpusss@gmail.com	12

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	5	600	1
Instant Noodles like Knorr, Cup-a-noodles, Top Ramen, Wai-wai, Yippee, Foodles, Maggi, etc	0	00	0
Potato fries and Burgers	00	00	00
Confectionery items (chocolate, candies, gums)	0	0	0
Ice-cream	00	0	0
Carbonated beverages	0	0	0
Sugar sweetened noncarbonated beverages	00	0	0
Packaged/Bottled Nimboo Paani/ Lassi/ Flavoured milk	0	0	0
Packaged/Bottled Energy Drinks	0	0	0

Supporting Documents

1. 20161118_121204.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. 20161118_121204.jpg



LAND

Task 1: Land Audit Team

Teachers

Sno.	Name	Email
1.	Sandesh Rai	tharpusss@gmail.com
2.	Suman Tamang	tharpusss@gmail.com

Administrative staff

Sno.	Name	Email
1.	Tilak Subba	tharpusss@gmail.com
2.	Bahadur rai	tharpusss@gmail.com

Students

Sno.	Name	Email	Grade/Class
1.	Barsha Chettri	tharpusss@gmail.com	9
2.	Deepshika Rai	tharpusss@gmail.com	11
3.	Suraj Subba	tharpusss@gmail.com	8
4.	Alisha Rai	tharpusss@gmail.com	12

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)	9,940
Ground coverage area	1,478
Green landscaped area on-ground	4,764
Surface parking area	0
Play area that is paved/ concrete on ground	0
Play area that has grass on ground	541

Service Area on ground	2,224
Roof and terrace area	0
Green cover on exposed roof & terrace	0
Total built up/constructed area	1,000
Total no. of floors	5
Others	750

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	50	20	70
Animals	5	1	6

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. 20161118_121351.jpg



WATER

Task 1: Water Audit Team

Teachers

Sno.	Name	Email
1.	Mukesh Dahal	tharpusss@gmail.com
2.	P. Golay	tharpusss@gmail.com
3.	Sampnna Rai	tharpusss@gmail.com

Administrative staff

Sno.	Name	Email
1.	Bhumika Subba	tharpusss@gmail.com
2.	Eksha Subba	tharpusss@gmail.com

Students

Sno.	Name	Email	Grade/Class
1.	Arbind Limboo	tharpusss@gmail.com	12
2.	Sushma tamang	tharpusss@gmail.com	12
3.	Abishek Chettri	tharpusss@gmail.com	12
4.	Sumitra Nepal	tharpusss@gmail.com	10
5.	samir darji	tharpusss@gmail.com	10

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	1000
Toilet flushing	500
Personal cleaning	100
Washing clothes	0
Cooking	10
Cleaning Utensils	300

Washing Vegetables	0
Mopping floors	0
Gardening	500
Total	2410

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, Rain water

3

Who supplies the water in your school?

Private supplier, 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

7-12 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?	Yes
Do the drinking water points have spill proof taps to check overflow?	Yes
Does your school use appliances with a quick-wash setting?	Yes
Are dual flush systems installed in the toilets?	Yes
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. 20160728_133645.jpg
2. 20160708_104232.jpg
3. 20160708_110812.jpg
4. Science.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.

Drinking, Gardening

6(b)(2)

Does your school have rainwater storage tank?

Yes

6(b)(2)(a)

Total capacity of storage tank (litres)

5000.00

6(b)(2)(b)

Total number of storage tanks

5.00

6(b)(2)(c)

Location of tanks:

Over- ground + Semi underground

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

Gutters, First flush, Storage tank

6(e) Rate your catchment on cleanliness:

Average

Supporting Documents

1. 20161118_124606.jpg
2. 20161118_124641.jpg

6(f) Does your school clean your catchment and system (structure)?

No

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?

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?

24

9 How many hand pumps do you have?

0

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

5

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

	Girls	Boys	Common	Total
Number of toilets	5	5	1	11

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

10

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

5

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

No

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?

Yes

18(a)

How does your school reuse wastewater?

Gardening

No documents uploaded by the school.



WASTE

Task 1: Waste Audit Team

Teachers

Sno.	Name	Email
1.	Moni K dahal	tharpusss@gmail.com
2.	Roshna Chettri	tharpusss@gmail.com
3.	Binod Thapa	tharpusss@gmail.com

Administrative staff

Sno.	Name	Email
1.	Denu tamang	tharpusss@gmail.com
2.	TB Dhital	tharpusss@gmail.com

Students

Sno.	Name	Email	Grade/Class
1.	Sadhadev rai	tharpusss@gmail.com	11
2.	Santa S Subba	tharpusss@gmail.com	10
3.	kewal sharma	tharpusss@gmail.com	11

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

1 Does your school segregate solid waste?

No

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	19	0	9	10	0
Playgrounds	1	0	1	0	0
Common area (e.g. reception, corridors)	3	0	2	1	0
Staffroom	5	1	2	2	0

Laboratory	2	0	0	2	0
Canteen	4	0	2	2	0
Clinic/ Sick room	0	0	0	0	0
Library	1	0	0	1	0
Toilets	9	0	5	4	0
Others	5	0	3	2	0
Total	49	1	24	24	0

Supporting Documents

1. 20161118_121453.jpg
2. 20160708_111501.jpg
3. 20161118_140750.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	50
Kitchen waste	2
Paper	10
Plastic	5
Wood, glass, metal, classroom furniture	5
E-waste	2
Biomedical waste	0
Sanitary waste	5
Construction and Demolition (C & D) waste	0
Hazardous waste	.5
Total Generated Solid Waste (in kilogram)	79.5

Supporting Documents

1. 20160708_111501.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)	✗	✗	✗	✓

No documents uploaded by the school.

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. WP_20160723_11_45_09_Pro.jpg
2. 20160708_111501.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	1	1	0
VCR or DVD players	1	1	0
Refrigerators and freezers	0	00	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)	2	2	0
Laptop computer (CPU, mouse, screen and keyboard included)	1	1	0
Notebook computers	0	0	0
Notepad computers	0	0	0

Printers	4	2	2
Copying equipment (Photocopiers)	1	0	1
Projectors	2	2	0
Whiteboards	1	1	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. 20161118_121517.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

No documents uploaded by the school.



FEEDBACK

1

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

Yes

1(a)

If yes, then in which year did your school first participate in the GSP Audit?

2015

1(b)

If yes, how many times have you done the audit?

1

2

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

No

3

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

No

3(a)

If no, then please share your suggestions.

Should conduct proper orientation and related programme to the teachers and students too.

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?

Frequent assistant, online support, at least 2 times training per years, supplements of materials (books, Cds and any othets)

8

How would you rate the overall design of the audit?

Aspect	Good / Average /Bad
Content	Average

Distribution of time among tasks	Average
Sequencing of tasks	Average
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?

Once

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?

10.00

Checklist of uploaded documents

1. Electricity Bill
2. Picture of 5 star appliances used by school
3. Picture of Mid-day meal being served
4. Picture of Canteen selling UPPF
5. Pictures of Events sponsored by UPPF companies
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 types of solid waste generated
12. Pictures of recycling units - composting pit, paper recycling machine, selling paper to kabadiwala, recyclers, etc
13. Pictures of housekeeping staff disposing different types of solid waste
14. Pictures of Electronic items used by school and storage of non-working electronic items
15. Waste Policy
16. Pictures of various school initiatives e.g. rally, debate, street play, art competition, etc

17. Pictures of respective audit teams doing survey