

# Responses for Green Schools Programme Audit 2016

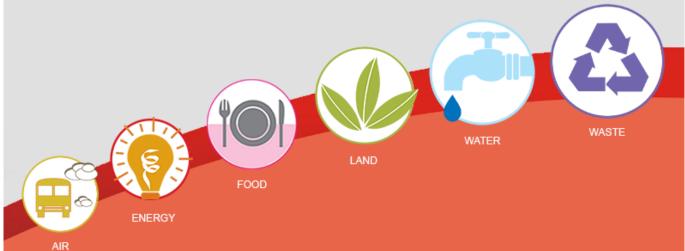
School Name: Mulukey Junior High School

Address: BAC: Rhenock ,PO:Rhenock,East Sikkim,

Mulukey, Rhenock, East Sikkim, Rhenock,

East District, Sikkim, India

Coordinator Name: Suman Subba



## **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**

Name of the School / Institution

Mulukey Junior High School

2 Address

BAC: Rhenock, PO:Rhenock, East Sikkim, Mulukey, Rhenock, East Sikkim, Rhenock, East District, Sikkim, India

Telephone Number (Landline Number with STD code)

(ISD) 91 (STD) 03592 (NUMBER) 253740

Mobile Number (Mobile Number with STD code)

(ISD) 91 (Number) 9733076055

5 Principal Name

Ratnamani Pradhan

6 GSP Coordinator Name

Suman Subba

GSP Coordinator Email

technocomputerzone@gmail.com

GSP Coordinator Mobile Number

(ISD)91 (Number) 7872580285

g Category Of The School

Day Scholar

10 School Shifts

Morning

# **GENERAL QUESTIONS**

How many levels does your school have?

Lowest level of grade:1 Highest level of grade:8

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	36	33	69
Teachers	7	7	14
Non-Teaching Staff	0	2	2
TOTAL	43	42	85

4(b) How many visitors visit your school

5

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

207

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

Sep

Where is the school located?

Rural Area



# Task 1: Air Audit Team

### **Teachers**

Sno.	Name	Email
1.	Roshni Kala Pradhan	Roshni Kala Pradhan
2.	kamal subba	kamalsubba879@gmail.com
3.	0	0

### **Administrative staff**

Sno.	Name	Email
1.	Ratnamani Pradhan	jhsmulukey@mail.com
2.	0	0
3.	0	0
4.	0	0
5.	0	0

### **Students**

Sno.	Name	Email	Grade/Class
1.	sushil giri	sg649127	8
2.	rohit subba	0	8
3.	karishma subba	0	7
4.	suren subba	0	7
5.	prayna subba	0	6
6.	alok subba	0	7
7.	amrit pradhan	0	6
8.	0	0	0
9.	0	0	0
10.	0	0	0

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

1

How many classrooms does your school have?

9

### 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)
L.K.G	16.72	1.53	9.15
I	16.72	1.53	9.15
II	27.44	5.11	18.62
III	23.94	5.10	21.30
IV	28.15	3.85	13.68
V	18.46	0.24	1.30
VI	23.50	4.20	17.87
VII	32.64	8.84	27.08
VIII	33.15	8.48	25.58
total	220.72	38.88	17.62
TOTAL	441.44	77.76	

# 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?

Operator-owned 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	3	0	3
Taxi four-wheeler	1	3	0	4

Taxi three-wheeler	0	0	0	0
Personal four-wheeler	0	2	0	2
Personal two-wheeler	0	3	0	3
Bicycle	0	0	0	0
On foot	68	3	2	73
Others (non-motorised)	0	0	0	0
SUB-TOTAL	69	14	2	85

# 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?



# **ENERGY**

# **Task 1: Energy Audit Team**

### **Teachers**

Sno.	Name	Email
1.	mamta chettri	chettrimamta740@gmail.com
2.	gyanumala gurung	gyanumalagurung17@gmail.com
3.	0	0

### **Administrative staff**

Sno.	Name	Email
1.	ratnamani pradhan	jhsmulukey@gmail.com
2.	0	0
3.	0	0
4.	0	0
5.	0	0

### **Students**

Sno.	Name	Email	Grade/Class
1.	bishal subba	bishalsubba969@yahoo.com	VIII
2.	esha subba	eshasubba007@gmail.com	VII
3.	leela hangma subba	0	VI
4.	suraj subba	0	VIII
5.	kusum subba	0	VII
6.	dew narayan pradhan	0	VI
7.	pratik subba	0	V
8.	0	0	0
9.	0	0	0
10.	0	0	0

# Task 2: How much energy does your school consume?

1

Does your school have access to an electricity bill?

Yes

- 1. 20161109\_134710.jpg
- 2. 20161109\_134713.jpg
- 3. 20161109\_134731.jpg
- 4. 20161109\_134745.jpg
- 5. 20161109\_134752.jpg

Does your school have its own vehicles?

No

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)	10	36.00	0
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)	80	1408.00	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	90.00	1444.00	

- 1. IMG-20161109-WA0019.jpg
- 2. 20161109\_134710.jpg

### What appliances does your school have?

	Number	Size	BEE Star Rating
Air Conditioners	0	(tons)	0
Refrigerator	0	(litres)	0
Microwave	0	(kg)	0
Tube Lights	0	(Watts)	0
CFL Bulbs	1	(Watts)	****
LED Lights	0	(Watts)	0
Fans	17	(Watts)	*****

## **Supporting Documents**

- 1. IMG-20161105-WA0000.jpg
- 2. IMG-20161105-WA0001.jpg
- 3. IMG-20161105-WA0006.jpg
- 4. IMG-20161105-WA0007.jpg
- 5. IMG-20161105-WA0003.jpg

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

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

110

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.	binita gurung	binitagurung016@gmail.com
2.	ishwari sharma	iswarisharma4@gmail.com
3.	0	0

### **Administrative staff**

Sno.	Name	Email
1.	ratnamani pradhan	jhsmulukey@gmail.com
2.	0	0
3.	0	0
4.	0	0
5.	0	0

### **Students**

Sno.	Name	Email	Grade/Class
1.	priya rai	raipriya391@gmail.com	VIII
2.	adarsh subba	0	V
3.	khigu hang subba	0	VIII
4.	radhika subba	0	VII
5.	dhan maya pradhan	0	VI
6.	anuraj subba	0	V
7.	0	0	0
8.	0	0	0
9.	0	0	0
10.	0	0	0

# 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

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	10	100	9
Instant Noodles like Knorr, Cup-a- noodles, Top Ramen, Wai-wai, Yippee, Foodles, Maggi, etc	5	70	9
Potato fries and Burgers	0	0	0
Confectionery items (chocolate, candies, gums)	8	80	9
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

## **Supporting Documents**

- 1. IMG\_6867.JPG
- 2. IMG\_6868.JPG
- 3. IMG\_6871.JPG
- 4. IMG\_6875.JPG

### 5. IMG\_6874.JPG

Does your school serve traditional Indian snacks?

Yes

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	8
Others	0

4(b) Give descriptions for rare local snacks served in your school:?

in our school canteen we get soya chunks, cabbage and swuash momo, sometimes chapati along with cury and sometimes noodles.

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?

No

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

Yes

7(a) Please provide the names?

munch, eclairs, toffy.

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

No

- 1. IMG\_6858.JPG
- 2. IMG\_6868.JPG
- 3. IMG\_6876.JPG
- 4. IMG\_6875.JPG



## **Task 1: Land Audit Team**

#### **Teachers**

Sno.	Name	Email
1.	b.s jha	jhabs223@gmail.com
2.	binita gurung	binitagurung016@gmail.com
3.	0	0

### **Administrative staff**

Sno.	Name	Email
1.	ratnamani pradhan	jhsmulukey@gmail.com
2.	0	0
3.	0	0
4.	0	0
5.	0	0

### **Students**

Sno.	Name	Email	Grade/Class
1.	anjana chettri	0	VIII
2.	bishal subba	0	VIII
3.	kamal diyali	0	VIII
4.	jitendra pradhan	0	VIII
5.	puja rai	0	VIII
6.	priya rai	0	VIII
7.	0	0	0
8.	0	0	0
9.	0	0	0
10.	0	0	0

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

Complete the table:

1

Site area in square meter (m2)	657
Ground coverage area	435
Green landscaped area on-ground	222
Surface parking area	0
Play area that is paved/ concrete on ground	1,521
Play area that has grass on ground	1,678
Service Area on ground	0
Roof and terrace area	160
Green cover on exposed roof & terrace	39
Total built up/constructed area	461
Total no. of floors	3
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	26	3	29
Animals	4	0	4

# Task 4: Find out if your school uses pesticides

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

No

### **Supporting Documents**

- 1. IMG\_6816.JPG
- 2. IMG\_6788.JPG
- 3. IMG\_6807.JPG
- 4. IMG\_6803.JPG



# WATER

### **Task 1: Water Audit Team**

#### **Teachers**

Sno.	Name	Email
1.	sangeeta dong	dongsangeeta123@gmail.com
2.	santosh sharma	sharmasantosh89@gmail.com
3.	0	0

### **Administrative staff**

Sno.	Name	Email
1.	ratnamani pradhan	jhsmulukey@gmail.com
2.	0	0
3.	0	0
4.	0	0
5.	0	0

### **Students**

Sno.	Name	Email	Grade/Class
1.	aruna pradhan	0	7
2.	abina subba	0	7
3.	anjali chettri	0	5
4.	kamal diyali	0	8
5.	pritika subba	0	6
6.	premika chettri	0	8
7.	prasant rai	0	6
8.	0	0	0
9.	0	0	0
10.	0	0	0

# Task 2: How much water does your school use?

1

Calculate your school's water consumption, per activity.

Activity

Drinking	32
Toilet flushing	15
Personal cleaning	0
Washing clothes	0
Cooking	15
Cleaning Utensils	5
Washing Vegetables	3
Mopping floors	3
Gardening	15
Total	88

## 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

19-24 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?	No

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?	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?	Yes
Any other step taken for water conservation? (if Yes, please specify)	No

- 1. 20161105\_130130.jpg
- 2. 20161105\_130221.jpg
- 3. 20161105\_105053.jpg
- 4. 20161105\_121253.jpg
- 5. 20160728\_151836.jpg

## Task 5: Does your school harvest rainwater?

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

6(b)(2) Does your school have rainwater storage tank?

Yes

Total capacity of storage tank (litres) 6(b)(2)(a) 50.00 Total number of storage tanks 6(b)(2)(b) 1.00 Location of tanks: 6(b)(2)(c) Over ground Material options for tanks 6(b)(2)(d) Combination of PVC + RCC + Brick How much area in your school is harvested? 21 to 30 per cent Please select (from the list given below) the rainwater harvesting structures present in your school Gutters Rate your catchment on cleanliness:

#### **Supporting Documents**

Average

- 1. 20161105\_115223.jpg
- 2. 20161105\_121224.jpg
- 3. 20161105\_105053.jpg
- 4. 20161105\_105341.jpg
- 5. 20161105\_115228.jpg

6(g)(1)

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

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

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?

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?	No
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

How many drinking water taps do you have?

4

How many hand pumps do you have?

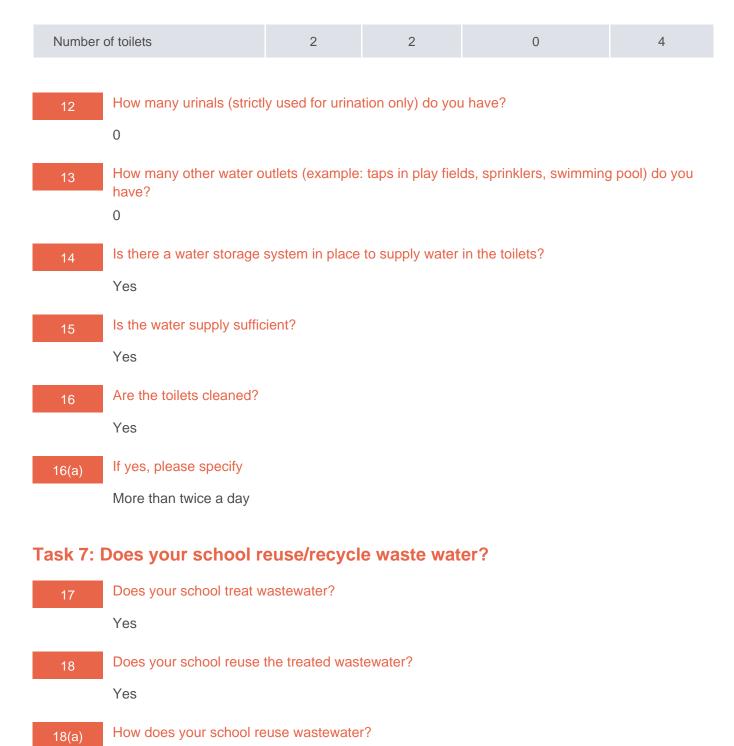
0

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

2

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

Girls	Boys	Common	Total	
				4



No documents uploaded by the school.

Gardening



## **Task 1: Waste Audit Team**

### **Teachers**

Sno.	Name	Email
1.	k.p chettri	chettrikp12@gmail.com
2.	s.r sharma	sharmasr@gmail.com
3.	0	0

### **Administrative staff**

Sno.	Name	Email
1.	ratnamanip pradhan	jhsmulukey@gmail.com
2.	0	0
3.	0	0
4.	0	0
5.	0	0

### **Students**

Sno.	Name	Email	Grade/Class
1.	esha subba	0	7
2.	karishma subba	0	7
3.	adars subba	0	5
4.	anureaj subba	0	5
5.	rohit subba	0	8
6.	puja rai	0	8
7.	0	0	0
8.	0	0	0
9.	0	0	0
10.	0	0	0

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

1

Does your school segregate solid waste?

Yes

### Who segregates the waste at source?

#### 1. 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	9	0	9	0	0
Playgrounds	2	0	2	0	0
Common area (e.g. reception, corridors)	4	0	4	0	0
Staffroom	22	0	2	20	0
Laboratory	1	0	1	0	0
Canteen	1	0	1	0	0
Clinic/ Sick room	0	0	0	0	0
Library	1	0	1	0	0
Toilets	2	0	2	0	0
Others	3	0	3	0	0
Total	45	0	25	20	0

### **Supporting Documents**

- 1. 20161028\_122151.jpg
- 2. 20161028\_105647.jpg
- 3. 20161028\_104524.jpg
- 4. 20160728\_152211.jpg
- 5. 20161028\_105406.jpg

## Task 3: How much waste does your school generate?

3

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

Garden/ horticulture waste	64
Kitchen waste	55
Paper	10
Plastic	0
Wood, glass, metal, classroom furniture	5
E-waste	0
Biomedical waste	0
Sanitary waste	70
Construction and Demolition (C & D) waste	0
Hazardous waste	0
Total Generated Solid Waste (in kilogram)	204

- 1. 20161028\_104524.jpg
- 2. 20161028\_105020.jpg
- 3. 20161028\_105647.jpg
- 4. 20161105\_121406.jpg
- 5. 20161105\_121341.jpg

## 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?

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	×	×	<b>∠</b>	×
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)	×	×	✓	×

- 1. 20160906\_105606.jpg
- 2. 20160906\_105632.jpg
- 3. 20161028\_104248.jpg
- 4. 20160906\_105647.jpg
- 5. 20161028\_104524.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. 20161028\_104151.jpg
- 2. 20161028\_104248.jpg
- 3. 20161028\_104253.jpg

- 4. 20161028\_104213.jpg
- 5. 20161028\_104311.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	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)	1	1	0
Laptop computer (CPU, mouse, screen and keyboard included)	0	0	0
Notebook computers	0	0	0
Notepad computers	0	0	0
Printers	1	1	0
Copying equipment (Photocopiers)	1	1	0
Projectors	0	0	0
Whiteboards	2	2	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

- 1. IMG-20161105-WA0001.jpg
- 2. IMG-20161105-WA0006.jpg
- 3. IMG-20161105-WA0007.jpg
- 4. IMG-20161105-WA0002.jpg
- 5. 20160906\_105632.jpg

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

No

### 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?

No

Is the study of the environment integrated into the curriculum?

Yes

### **Supporting Documents**

- 1. 20161028\_104151.jpg
- 2. 20161028\_104213.jpg
- 3. 20161028\_104311.jpg

- 4. 20161028\_105406.jpg
- 5. 20161028\_105016.jpg



### **FEEDBACK**

1	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?

No

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?

need construction of new and sustainable buildings for class rooms and need more afforestation plan.

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

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

No

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?

40.00

#### **Checklist of uploaded documents**

- 1. Fuel Bills
- 2. Electricity Bill
- 3. Picture of 5 star appliances used by school
- Picture of Mid-day meal being served
- 5. Photographs of lunch boxes
- 6. Picture of Canteen selling UPPF
- 7. Traditional food items sold in canteen
- 8. Pictures of Green Cover
- 9. Pictures of landscaped area
- 10. Building construction plan
- 11. Pictures of bio-pesticides
- 12. Pictures of dustbins in classroom showing segregation at source
- 13. Pictures of playground with more than two dustbins
- 14. Picture of audit team weighing solid waste
- 15. Picture of types of solid waste generated
- 16. Pictures of recycling units composting pit, paper recycling machine, selling paper to kabadiwala, recyclers,etc
- 17. Pictures of housekeeping staff disposing different types of solid waste
- 18. Pictures of Electronic items used by school and storage of non-working electronic items
- 19. Certificate of disposing e-waste from authorised dealer/dismantler

- 20. Waste Policy
- 21. Pictures of respective audit teams doing survey