

Responses for Green Schools Programme Audit 2016

School Name: Shikshantar Senior Secondary school

Address: J Block, South City 1, Gurgaon, Haryana,

Gurgaon, Gurgaon, Haryana, India

Coordinator Name: Arpita Goyal



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
1	Hairio	OI TITO	00110017	montation

Shikshantar Senior Secondary school

2 Address

J Block, South City 1, Gurgaon, Haryana, Gurgaon, Gurgaon, Haryana, India

Telephone Number (Landline Number with STD code)

(ISD) 91 (STD) 124 (NUMBER) 4889100

Mobile Number (Mobile Number with STD code)

(ISD) 91 (Number) 8860641994

5 Principal Name

Anita Nair

GSP Coordinator Name

Arpita Goyal

GSP Coordinator Email

arpitachirania@gmail.com

GSP Coordinator Mobile Number

(ISD)91 (Number) 8860641994

Category Of The School

Day Boarding

School Shifts

Morning

GENERAL QUESTIONS

How many levels does your school have?

Lowest level of grade:1 Highest level of grade:12

ls your school single gender or mixed gender?

Mixed/Co-education

Which board of education does the school follow?

Indian Certificate of Secondary Education

Total permanent population of the school

	Male	Female	Total
Students	727	697	1424
Teachers	45	149	194
Non-Teaching Staff	43	62	105
TOTAL	815	908	1723

4(b) How many visitors visit your school

50

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

220

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

Sep, Oct, Nov

Where is the school located?

Urban Area



Task 1: Air Audit Team

Teachers

Sno.	Name	Email
1.	Sapna Makkar	Sapna Makkar

Administrative staff

Sno.	Name	Email
1.	Arun Kumar	arun.kumar@shikshantarschool.org
2.	Jaspal Singh Madan	jaspal.singh@shikshantarschool.org

Students

Sno.	Name	Email	Grade/Class
1.	Parth	parthjjw@gmail.com	8
2.	Dhruv	dhruvag11@gmail.com	7
3.	Pratyush	pandajoey1714@gmail.com	7
4.	Mahika	mahikayadav2003@gmail.com	8
5.	Aishwarya	simisud@gmail.com	8
6.	Inderjit	singhinderjit174@gmail.com	7

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

1 How many classrooms does your school have?

60

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)
Nursery	73.80	13.60	18.43
KG	59.80	14.40	24.08
Class I	45.60	15.60	34.21
Class IV	44.00	14.60	33.18

Class VI	67.80	17.80	26.25
Class VIII	68.90	17.90	25.98
Class IX	78.90	17.10	21.67
Class X	69.90	17.80	25.46
Class XI	51.10	17.70	34.64
Class XII	53.20	17.70	33.27
TOTAL	613.00	164.20	

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	0	1	0	0	1
No. of vehicles more than five years old	0	1	0	0	1
Air conditioned	0	1	0	0	1
No. of vehicles with PUC done	0	1	0	0	1
Parking area (m2)	0	429	0	0	429

Supporting Documents

1. PUC Certificate1.jpg

Specify the type of fuel used by your school vehicles:

	Diesel	Petrol	LPG	CNG	Electric	Hybrid
Bus	0	0	0	0	0	0

Car	1	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. diesel log book page.jpg
- 2. IMG-20161118-WA0001.jpg
- 3. IMG-20161118-WA0001.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	778	15	10	803
Public Bus	3	5	25	33
School Transport(Other than bus)	0	0	0	0
Public transport (other than bus, Metro, car pool)	2	55	15	72
Taxi four-wheeler	145	25	0	170
Taxi three-wheeler	9	5	2	16
Personal four-wheeler	427	62	4	493
Personal two-wheeler	5	7	4	16
Bicycle	10	0	22	32
On foot	45	20	23	88
Others (non-motorised)	0	0	0	0
SUB-TOTAL	1424	194	105	1723

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

How many students suffer from respiratory ailments?

75

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?

Yes



ENERGY

Task 1: Energy Audit Team

Teachers

Sno.	Name	Email
1.	Shuvashree Mukherjee	m.shuvashree@gmail.com

Administrative staff

Sno.	Name	Email
1.	Jaspal Singh Madan	jaspal.singh@shikshantarschool.org
2.	Arun Kumar	arun.kumar@shikshantarschool.org
3.	Kalpana Purohit	kalpana.purohit@shikshantarschool.org

Students

Sno.	Name	Email	Grade/Class
1.	Mehar Ahluwalia	ahluwaliamehar@gmail.com	7
2.	Parth Jhunjhunwala	parthjjw@gmail.com	8
3.	Dhruv Agarwal	dhruvag11@gmail.com	7
4.	Mahika Yadav	mahikayadav2003@gmail.com	8

Task 2: How much energy does your school consume?

1

Does your school have access to an electricity bill?

Yes

Supporting Documents

- 1. sept pre primary1.jpg
- 2. sept primary1.jpg
- 3. sept senior middle school1.jpg

Does your school have its own vehicles?

Yes

	Quantity consumed/monthly average	Energy consumed in Megajoules (MJ)	Type of use
Electricity from the board (kwh)	6960	25056.00	1
Electricity from generator (diesel) (litres)	436	19881.60	1
Petrol (litres)	0	0.00	0
Diesel (litres)	150	6840.00	4
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)	0	0.00	0
Wind (kwh)	0	0.00	0
LPG (kilogrammes)	58.3	3008.28	3,5
Piped Natural Gas (kilogrammes)	0	0.00	0
TOTAL	7604.30	54785.88	

Supporting Documents

- 1. diesel log book page.jpg
- 2. Gass Bill 1.jpg

What appliances does your school have?

	Number	Size	BEE Star Rating
Air Conditioners	51	80	3
Refrigerator	06	1080	4

10 of 30

Microwave	06	05	3
Tube Lights	783	31320	0
CFL Bulbs	1414	25452	0
LED Lights	0	0	0
Fans	629	50320	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?

130

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.	Aanchal Bhatnagar	aanchalbhatnagar2@gmail.com

Administrative staff

Sno.	Name	Email
1.	Charu Malik Sethia	charu.malik@shikshantarschool.org

Students

Sno.	Name	Email	Grade/Class
1.	Ridhima	ridhimagogia@gmail.com	7
2.	Vir	virgoyal14@gmail.com	8
3.	Naman	namanbassi12@gmail.com	8
4.	Muskan	muskanzspace@gmail.com	7

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

No

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	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?

Yes

4(a)

Please provide the details:

	Number of plates sold when on the menu
Samosas	1
Idli/vada and sambhar	2
Pav bhaji	1
Momos	0

Others 1

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

We serve chole bhature, vegetable noodles, dahi vada, chole kulche once in a month. We also serve sweets like kheer, halwa, ladoo, barfi, rasgulla, gulab jamun, balushahi, jalebi on alternate days.

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?

No

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.	Sulekha Sharma	sulekha.shk@gmail.com

Administrative staff

Sno.	Name	Email
1.	Arun Kumar	arun.kumar@shikshantarschool.org
2.	Jaspal Singh Madan	jaspal.singh@shikshantarschool.org

Students

Sno.	Name	Email Grade/Clas	
1.	Advik	rv_sinha@hotmail.com	8
2.	Govind	naughtygrandson@gmail.com	7
3.	Suvidhi	suviath@gmail.com	7
4.	Vir Goyal	virgoyal14@gmail.com 8	
5.	Muskan	muskanzspace@gmail.com	7

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)	28,457
Ground coverage area	13,703
Green landscaped area on-ground	3,257
Surface parking area	428
Play area that is paved/ concrete on ground	2,655
Play area that has grass on ground	6,235
Service Area on ground	156

Roof and terrace area	6,574
Green cover on exposed roof & terrace	0
Total built up/constructed area	19,419
Total no. of floors	4
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	105	29	134
Animals	14	2	16

Task 4: Find out if your school uses pesticides

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

No

Supporting Documents

- 1. GSP biodiversity.pdf
- 2. Ground Coverage Area.jpg
- 3. Landscaped area.jpg
- 4. Landscaped area 1.jpg
- 5. 1st floor plan1.jpg



WATER

Task 1: Water Audit Team

Teachers

Sno.	Name	Email
1.	Amrita Chaudhary	life.amrita@gmail.com

Administrative staff

Sno.	Name	Email
1.	Jaspal Singh Madan	jaspal.singh@shikshantarschool.org

Students

Sno.	Name	Email	Grade/Class
1.	Muskaan	muskaan.grover4@gmail.com	8
2.	Ananya	anachat2003@gmail.com	8
3.	Devina	mjawsuper@gmail.com	8
4.	Saanch	saanch.rustagi@gmail.com	7
5.	Syna	synamukerjee	7
6.	Siddharth Gupta	siddg02.sg@gmail.com	7
7.	Uditva	manjuladhiman@gmail.com	7
8.	Harsh	sinhashutosh@hotmail.com	7
9.	Suhanee	suhanee.rox@gmail.com	7
10.	Natasha	nashvarghese.2003@gmail.com	7

Task 2: How much water does your school use?

Calculate your school's water consumption, per activity.

Activity	Total Quantity (litres per day)
Drinking	7000
Toilet flushing	10000
Personal cleaning	100
Washing clothes	250

Cooking	100
Cleaning Utensils	3995
Washing Vegetables	5
Mopping floors	550
Gardening	8000
Total	30000

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

Where does the water your school uses, come from?

Ground water

Who supplies the water in your school?

Municipality, School's own supply (bore well, rainwater harvesting facility, etc)

Does your school get daily water supply?

Yes

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

=1 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?	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

No documents uploaded by the school.

Task 5: Does your school harvest rainwater?

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

6(a) Does your school harvest different catchments?.

Yes

6(a)(1) Which is the catchment area being harvested by your school?

Paved + Unpaved

6(b) How does your school harvest rainwater?

By recharging groundwater

6(b)(1) Does your school have groundwater recharge structure?

Yes

6(b)(1)(i) Please share the total number of groundwater recharge structures

4.00

6(b)(1)(ii) Please tick the type of groundwater recharge structure used in your school:

Recharge pits

How much area in your school is harvested?

71 to 80 per cent

Please select (from the list given below) the rainwater harvesting structures present in your school

Gutters, Collection sump, Recharge structure

Rate your catchment on cleanliness:

Good

Supporting Documents

- 1. RWH system1.jpg
- 2. RWH catchment area.jpg
- 3. Recharge trench.jpg
- Does your school clean your catchment and system (structure?)?

Yes

Please specify when does your school clean the catchment and RWH system?

Do not follow any such pattern

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?

If there was an increase, please specify

6(h)(1) Please specify how much was the increase?

Less than a metre annually

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?

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

How many drinking water taps do you have?

50

How many hand pumps do you have?

0

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

149

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

	Girls	Boys	Common	Total
Number of toilets	54	30	26	110

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

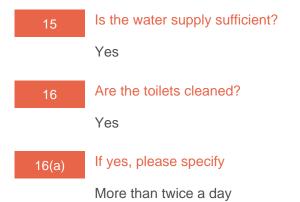
31

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

28

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

Yes



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

Does your school treat wastewater?

No

Does your school reuse the treated wastewater?

No

18(a) 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.	Sanya Handa	sanya.handa@shikshantarschool.org

Administrative staff

Sno.	Name	Email
1.	Sukhbir Singh	sukhbir.singh@shikshantarschool.org
2.	Shivraj Singh Rawat	shivraj@shikshantarschool.org
3.	Kalpana Purohit	kalpana.purohit@shikshantarschool.org

Students

Sno.	Name	Email	Grade/Class
1.	Eknoor Randhawa	eknoorrandhawa31@gmail.com	8
2.	Sahil Saini	srenterprisesaa@rediffmail.com	8
3.	Ketki Behl	ketakibahl@gmail.com	8
4.	Kaavya Banerji	kaavya.banerji@gmail.com	8
5.	Shivam Kalra	shivamthechampion@gmail.com	8

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

Does your school segregate solid waste?

Yes

Who segregates the waste at source?

- 1. Housekeeping (Sweeper)
- 2. Gardener
 - Waste collection points in your school.

	Total No. of collection points	No bin	One bin	Two bins (wet & dry)	Three bins or more
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Classrooms	60	0	0	60	0
Playgrounds	15	0	0	0	15
Common area (e.g. reception, corridors)	71	0	0	71	0
Staffroom	2	0	0	2	0
Laboratory	6	0	6	0	0
Canteen	4	0	0	4	0
Clinic/ Sick room	3	0	3	0	0
Library	3	0	3	0	0
Toilets	20	0	0	0	20
Others	0	0	0	0	0
Total	184	0	12	137	35

Supporting Documents

- 1. Dustbins in Classrooms.jpg
- 2. Dustbins in Ground.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	70
Kitchen waste	20
Paper	100
Plastic	2
Wood, glass, metal, classroom furniture	160
E-waste	20
Biomedical waste	0.5
Sanitary waste	0

Construction and Demolition (C & D) waste	700
Hazardous waste	0
Total Generated Solid Waste (in kilogram)	1072.5

No documents uploaded by the school.

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	70
Kitchen waste	20
Paper	100
Plastic	2
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)	192

Does your school have a composting facility?

Yes

Supporting Documents

1. Compost pit.jpg



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

80.00

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

For 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)	×	×	✓	×

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?

Designated dumping site (Dhalao)

No documents uploaded by the school.

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	3	3	0
VCR or DVD players	22	22	0
Refrigerators and freezers	6	6	0
Washing machines	0	0	0
Air conditioners	49	49	0
Heaters	10	10	0
Microwaves	6	6	0
Ovens	2	2	0
Toasters	2	2	0
Electric Kettles	4	4	0
Personal computers (CPU, mouse, screen and keyboard included)	88	88	0
Laptop computer (CPU, mouse, screen and keyboard included)	4	4	0
Notebook computers	0	0	0
Notepad computers	0	0	0
Printers	13	13	0
Copying equipment (Photocopiers)	0	0	0
Projectors	1	1	0
Whiteboards	0	0	0

Electrical & electronic typewriters	0	0	0
Pocket & desk calculators	10	10	0
Fax machines	0	0	0
Telex	0	0	0
Telephones	60	60	0
Pay telephones	0	0	0
Mobiles	2	2	0
Answering systems	2	2	0

Supporting Documents

- 1. Storage of e waste.jpg
- 2. STorage .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?

Yes

Policy document

School Policy on Waste.doc

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

Yes

No documents uploaded by the school.

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

Is the study of the environment integrated into the curriculum?

Yes

Supporting Documents

- 1. Doing survey.jpg
- 2. Doing survey1.jpg



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

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?

suggestions on installing a waste water treatment plant

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
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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?

More than 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?

10.00

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 Mid-day meal being served
- 6. Traditional food items sold in canteen
- 7. Pictures of Green Cover
- 8. Pictures of landscaped area
- 9. Building construction plan
- 10. Pictures of dustbins in classroom showing segregation at source
- 11. Pictures of playground with more than two dustbins
- 12. Pictures of recycling units composting pit, paper recycling machine, selling paper to kabadiwala, recyclers,etc
- 13. Pictures of Electronic items used by school and storage of non-working electronic items
- 14. Waste Policy
- 15. Pictures of respective audit teams doing survey