



# GREEN SCHOOLS PROGRAMME

## Responses for Green Schools Programme Audit 2016

**School Name:** HILLWOODS ACADEMY  
**Address:** G-BLOCK, PREET VIHAR, DELHI - 92, G-BLOCK, PREET VIHAR, DELHI - 92, DELHI, DELHI, Delhi, India  
**Coordinator Name:** Ms. Jyoti Sharma



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

HILLWOODS ACADEMY

2

Address

G-BLOCK, PREET VIHAR, DELHI - 92, G-BLOCK, PREET VIHAR, DELHI - 92, DELHI, DELHI, Delhi, India

3

Telephone Number (Landline Number with STD code)

(ISD) 91 (STD) 11 (NUMBER) 22524856

4

Mobile Number (Mobile Number with STD code)

(ISD) 91 (Number) 9818193545

5

Principal Name

Ms. Rita Srivastava

6

GSP Coordinator Name

Ms. Jyoti Sharma

7

GSP Coordinator Email

jyo.sh51a@gmail.com

8

GSP Coordinator Mobile Number

(ISD)91 (Number) 8802524949

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	1393	1074	2467
Teachers	1	88	89
Non-Teaching Staff	13	3	16
TOTAL	1407	1165	2572

4(b)

How many visitors visit your school

60

5

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

220

6

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

Oct, Nov

7

Where is the school located?

Urban Area



## AIR

### Task 1: Air Audit Team

#### Teachers

Sno.	Name	Email
1.	Ms. POOJA SHARMA	Ms. POOJA SHARMA

#### Administrative staff

Sno.	Name	Email
1.	Mr. KHALIL AHMED	khalilahmed0109@gmail.com
2.	Ms. RICHA BHATIA	richabhatia0102@gmail.com

#### Students

Sno.	Name	Email	Grade/Class
1.	BHAVIK DHUPHAR	bhavikdhuphur@gmail.com	7
2.	SAARTHAK SHARMA	savita.sharma0609@gmail.com	7
3.	AMISHI AGGARWAL	amishi2512@gmail.com	7
4.	HARSHIT KHURANA		8
5.	ISHIKA MANCHANDA		6
6.	ISHT JAIN		7

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

1 How many classrooms does your school have?

52

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)
Class Nursery section A	11.25	7.80	69.33
Class KG section B	11.25	7.80	69.33
Class 1 section D	26.32	7.80	29.64
Class 2 section C	25.32	7.80	30.81

Class 4 section D	29.90	6.60	22.07
Class 6 section B	54.67	15.80	28.90
Class 7 section C	53.30	14.40	27.02
Class 9 section A	20.74	7.80	37.61
Class 10 section B	21.74	7.80	35.88
Class 11 section B	64.80	21.50	33.18
<b>TOTAL</b>	<b>319.29</b>	<b>105.10</b>	

### 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-owned vehicles

**3(a)** Provide details of school-owned motorized vehicles .

	Buses	Cars	Vans	Others	Total
No. of vehicles	6	3	0	1	10
No. of vehicles more than five years old	4	0	0	0	4
Air conditioned	0	0	0	0	0
No. of vehicles with PUC done	6	3	0	0	9
Parking area (m2)	150	50	0	5	205

No documents uploaded by the school.

**3(b)** Specify the type of fuel used by your school vehicles:

	Diesel	Petrol	LPG	CNG	Electric	Hybrid
Bus	0	0	0	6	0	0
Car	3	0	0	0	0	0
Van	0	0	0	0	0	0

Other vehicles	0	1	0	0	0	0
<b>SUB-TOTAL</b>	<b>3</b>	<b>1</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>0</b>

### Supporting Documents

1. GAS BILL %28Small%29.jpg
2. SCHOOL BUS %28Large%29.jpg
3. SURVEY 1 %28Large%29.jpg
4. SURVEY 2 %28Large%29.jpg

## 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
School Bus	250	9	6	265
Public Bus	168	15	4	187
School Transport(Other than bus)	0	0	0	0
Public transport (other than bus, Metro, car pool)	1659	18	0	1677
Taxi four-wheeler	0	14	0	14
Taxi three-wheeler	50	0	0	50
Personal four-wheeler	50	15	0	65
Personal two-wheeler	100	18	4	122
Bicycle	30	0	2	32
On foot	102	0	0	102
Others (non-motorised)	58	0	0	58
<b>SUB-TOTAL</b>	<b>2467</b>	<b>89</b>	<b>16</b>	<b>2572</b>

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

5

How many students suffer from respiratory ailments ?

10

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?

Yes



## ENERGY

### Task 1: Energy Audit Team

#### Teachers

Sno.	Name	Email
1.	SUNAYANA SINGH	sunayana41@gmail.com

#### Administrative staff

Sno.	Name	Email
1.	Mr. KHALIL	khalilahmed0109@gmail.com
2.	Ms. RICHA BHATIA	richabhatia0102@gmail.com

#### Students

Sno.	Name	Email	Grade/Class
1.	ANUJ PATTANAYAK	anuj3001@gmail.com	10
2.	ANIRUDH DUTTA	duttaanirudh111@gmail.com	10

### 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?

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)	6706	24141.60	1,5
Electricity from generator (diesel) (litres)	30	1368.00	1



Petrol (litres)	15	700.50	4
Diesel (litres)	150	6840.00	4
CNG (kilogrammes)	2040	106896.00	4
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)	15	54.00	1
Wind (kwh)	0	0.00	0
LPG (kilogrammes)	28	1444.80	3
Piped Natural Gas (kilogrammes)	0	0.00	0
<b>TOTAL</b>	<b>8984.00</b>	<b>141444.90</b>	

### Supporting Documents

1. ELECTRICITY BILL %28Medium%29 %282%29.jpg

4

What appliances does your school have?

	Number	Size	BEE Star Rating
Air Conditioners	20	1.5	3
Refrigerator	2	165	3
Microwave	2	17	3
Tube Lights	140	40	0
CFL Bulbs	60	23	0
LED Lights	15	12	0
Fans	250	125	0

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?

240

6

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

Yes

6(a)

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

Solar

**Supporting Documents**

1. solar panel.JPG



## FOOD

### Task 1: Food Audit Team

#### Teachers

Sno.	Name	Email
1.	Ms. POOJA SINGH	poojasinghhwa@outlook.com

#### Administrative staff

Sno.	Name	Email
1.	Mr. KHALIL	khalilahmed0109@gmail.com
2.	Ms. Richa Bhatia	richabhatia0102@gmail.com

#### Students

Sno.	Name	Email	Grade/Class
1.	RADHEY SOMANI	adarshsamani@gmail.com	9
2.	VISHESH CHHABRA	vchhabra19102@gmail.com	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?

No

2(a)

Do students bring their own lunch from home?

Yes

No documents uploaded by the school.

2(a)(1)

How many students out of total student population bring home-made lunch?

2217.00

2(a)(2)

Of the students who bring lunch from home, how many bring packaged food?

0.00

2(a)(3)

Do teachers have the responsibility to ensure that students are carrying lunch from home?

Yes

**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	4	200	10
Packaged/Bottled Nimboo Paani/ Lassi/ Flavoured milk	2	800	10
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	50
Idli/vada and sambhar	20
Pav bhaji	0
Momos	0
Others	28

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

Bread Roll, Veg. Roll, Kathi Roll, Chole - Bhatura , Aloo - Poori

5 Does your school serve traditional Indian beverages?

Yes

5(a) Details are as follows:

	Number of servings sold when on the menu
Nimboo pani	30
Sweet lassi	0
Salted butter milk	25
Aam Panna	0
Others	10

#### 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

No documents uploaded by the school.



## LAND

### Task 1: Land Audit Team

#### Teachers

Sno.	Name	Email
1.	Ms. JYOTI SHARMA	jyo.sh51a@gmail.com

#### Administrative staff

Sno.	Name	Email
1.	Ms. VINEETA SHARMA	nitusharma75@gmail.com
2.	Ms. RANJANA RAUTELA	ranjanasrautela72@gmail.com

#### Students

Sno.	Name	Email	Grade/Class
1.	CHIRAG BANSAL	cbansal338@gmail.com	10
2.	LAKSHIT RUSTAGI	lakshitrustagi@gmail.com	10
3.	ARYAN KESHRI	keshriaryan5@gmail.com	10

### 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)	8,684
Ground coverage area	4,799
Green landscaped area on-ground	2,620
Surface parking area	50
Play area that is paved/ concrete on ground	502
Play area that has grass on ground	704
Service Area on ground	10
Roof and terrace area	1,959
Green cover on exposed roof & terrace	0

Total built up/constructed area	9,336
Total no. of floors	3
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	200	10	210
Animals	15	0	15

### Task 4: Find out if your school uses pesticides

4

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

No

No documents uploaded by the school.





## WATER

### Task 1: Water Audit Team

#### Teachers

Sno.	Name	Email
1.	Ms. PIU CHATTERJEE	piu2003ch@gmail.com

#### Administrative staff

Sno.	Name	Email
1.	Mr. KHALIL AHMED	khalilahmed0109@gmail.com
2.	Ms. RICHA BHATIA	richabhatia0102@gmail.com

#### Students

Sno.	Name	Email	Grade/Class
1.	ISHAAN AGGARWAL	ishaan2300@gmail.com	7
2.	CHIRAG BANSAL	cbansal338@gmail.com	10
3.	LAKSHIT RUSTAGI	lakshitrustagi@gmail.com	10
4.	ANSH JAIN		7
5.	NALIN KHANNA		7
6.	GARV SADH		7

### 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	2000
Toilet flushing	4000
Personal cleaning	1500
Washing clothes	0
Cooking	0
Cleaning Utensils	0
Washing Vegetables	0

Mopping floors	1500
Gardening	3000
Total	12000

### 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?

Municipality

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?	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?	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

No documents uploaded by the school.

**Task 5: Does your school harvest rainwater?**

6

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

No

6(a)

Calculate your school's rainwater harvesting potential (in litres).

1738700

**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?

20

9

How many hand pumps do you have?

0

10

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

25

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

	Girls	Boys	Common	Total
Number of toilets	34	15	0	49

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

33

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

1

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

More than 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

Wastewater flows directly to the drains

No documents uploaded by the school.



## WASTE

### Task 1: Waste Audit Team

#### Teachers

Sno.	Name	Email
1.	Ms. SWATI ARORA	aroraswati@gmail.com
2.	Ms. RASHMI AGGARWAL	rashmiagarwal888@gmail.com

#### Administrative staff

Sno.	Name	Email
1.	Mr. KHALIL AHMED	khalilahmed0109@gmail.com
2.	Ms. RANJANA RAUTELA	ranjanasrautela72@gmail.com

#### Students

Sno.	Name	Email	Grade/Class
1.	LAKSHIT RUSTAGI	lakshitrustagi@gmail.com	10
2.	CHIRAG BANSAL	cbansal338@gmail.com	10
3.	ARYAN KESHRI	keshriaryan5@gmail.com	10
4.	NANDINI SHASTRI		7
5.	NITYA JAIN		7
6.	ISHIKA JAIN		7

### 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. Students and teachers
2. Housekeeping (Sweeper)
3. Ragpicker

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	52	32	20	0	0
Playgrounds	3	0	0	3	0
Common area (e.g. reception, corridors)	10	0	5	5	0
Staffroom	1	0	1	0	0
Laboratory	7	0	7	0	0
Canteen	1	0	0	1	0
Clinic/ Sick room	1	0	1	0	0
Library	2	0	2	0	0
Toilets	5	0	0	5	0
Others	8	0	8	0	0
Total	90	32	44	14	0

### Supporting Documents

1. waste saggri..JPG
2. Class rooms without dustbins.doc

## 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	80
Kitchen waste	10
Paper	50
Plastic	5
Wood, glass, metal, classroom furniture	10
E-waste	2

Biomedical waste	2
Sanitary waste	50
Construction and Demolition (C & D) waste	0
Hazardous waste	0
Total Generated Solid Waste (in kilogram)	209

No documents uploaded by the school.

#### 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	50
Kitchen waste	10
Paper	50
Plastic	0
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)	110

5 Does your school have a composting facility?

Yes

## Supporting Documents

1. vermi compost pit.JPG
2. RECYCLING UNIT %28Large%29.jpg
3. roli poli.JPG

5a

What is the methodology used?

Mechanical composting (with electricity/ machines)Other: Vermi composting pit

5b

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

25.00

5c

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

For horticultural purposesFor school garden

6

Does your school encourage students &amp; 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. RECYCLING UNIT %28Large%29.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)

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	4	4	0
VCR or DVD players	48	48	0
Refrigerators and freezers	2	2	0
Washing machines	0	0	0
Air conditioners	20	20	0
Heaters	2	2	0
Microwaves	2	2	0
Ovens	2	2	0
Toasters	1	1	0
Electric Kettles	1	1	0
Personal computers (CPU, mouse, screen and keyboard included)	50	50	0
Laptop computer (CPU, mouse, screen and keyboard included)	2	2	0
Notebook computers	0	0	0

Notepad computers	0	0	0
Printers	8	8	0
Copying equipment (Photocopiers)	4	4	0
Projectors	17	17	0
Whiteboards	10	10	0
Electrical & electronic typewriters	0	0	0
Pocket & desk calculators	5	5	0
Fax machines	1	1	0
Telex	0	0	0
Telephones	14	14	0
Pay telephones	4	4	0
Mobiles	0	0	0
Answering systems	0	0	0

No documents uploaded by the school.

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?

Authorised dismantler

## Task 6: School's initiatives

12

Does the school have a policy on waste?

Yes

Policy document

waste policy docu..jpg

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 , As part of extracurricular activities such as guest lectures , By the showcasing of posters and stickers

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?

2008

1(b)

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

Three times

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?

We would like you to help us for Rainwater harvesting and waste water treatment .

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?

More than twice

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?

20.00

### Checklist of uploaded documents

1. Fuel Bills
2. Picture of School owned vehicles
3. Electricity Bill
4. Picture of Renewable sources of Energy
5. Pictures of dustbins in classroom showing segregation at source
6. Pictures of recycling units - composting pit, paper recycling machine, selling paper to kabadiwala, recyclers,etc
7. Certificate of disposing e-waste from authorised dealer/dismantler
8. Waste Policy