



GREEN SCHOOLS PROGRAMME

Responses for Green Schools Programme Audit 2016

School Name: MOUNT CARMEL SCHOOL
Address: SECTOR - 22, PHASE I, DWARKA,
Delhi, West Delhi, Delhi, India
Coordinator Name: Mrs. Ranjini Ramesh



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

MOUNT CARMEL SCHOOL

2

Address

SECTOR - 22, PHASE I, DWARKA, Delhi, West Delhi, Delhi, India

3

Telephone Number (Landline Number with STD code)

(ISD) 91 (STD) 91 (NUMBER) 28052001

4

Mobile Number (Mobile Number with STD code)

(ISD) 91 (Number) 9312024629

5

Principal Name

Mrs. Sunita Howell

6

GSP Coordinator Name

Mrs. Ranjini Ramesh

7

GSP Coordinator Email

ranjiniramesh@mountcarmeldelhi.com

8

GSP Coordinator Mobile Number

(ISD)91 (Number) 9818809856

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:4
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	1201	1039	2240
Teachers	18	89	107
Non-Teaching Staff	9	19	28
TOTAL	1228	1147	2375

4(b) How many visitors visit your school

1193

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

222

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

July, Aug, Sep, Oct, Nov

7 Where is the school located?

Urban Area



AIR

Task 1: Air Audit Team

Teachers

Sno.	Name	Email
1.	BHAVNA SETH	BHAVNA SETH

Administrative staff

Sno.	Name	Email
1.	S. Laurence	laurence@mountcarmeldelhi.com
2.	Vijay Kumar	vijaykumar@mountcarmeldelhi.com
3.	Marks Sonar	markssonar@mountcarmeldelhi.com

Students

Sno.	Name	Email	Grade/Class
1.	Saachi Chauhan	saachichauhan2309@mountcarmeldelhi.com	10
2.	Tanishka Singh	tanishkasingh0107@mountcarmeldelhi.com	10
3.	S. Seshagiri	s.seshagiri2512@mountcarmeldelhi.com	10
4.	Arnav Jhatta	arnavjhatta0507@mountcarmeldelhi.com	10
5.	Prakriti Kareer	prakritikareer2709@mountcarmeldelhi.com	10
6.	Aasthaa Poonia	aasthaapoonia0110@mountcarmeldelhi.com	10

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

1 How many classrooms does your school have?

54

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)
4C	63.00	25.10	39.84
5B	63.00	25.10	39.84
6D	63.00	25.10	39.84

7A	63.00	25.10	39.84
7B	63.00	25.10	39.84
8F	63.00	25.10	39.84
9B	63.00	25.10	39.84
10F	63.00	25.10	39.84
11C	63.00	25.10	39.84
12D	63.00	25.10	39.84
TOTAL	630.00	251.00	

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?

A combination of school-owned and operator-owned vehicles

3(a)

Provide details of school-owned motorized vehicles .

	Buses	Cars	Vans	Others	Total
No. of vehicles	11	5	0	0	16
No. of vehicles more than five years old	5	2	0	0	7
Air conditioned	0	5	0	0	5
No. of vehicles with PUC done	11	5	0	0	16
Parking area (m2)	1110	84.24	0	0	1194.24

Supporting Documents

1. Doc4.docx

3(b)

Specify the type of fuel used by your school vehicles:

	Diesel	Petrol	LPG	CNG	Electric	Hybrid
--	--------	--------	-----	-----	----------	--------

Bus	0	0	0	11	0	0
Car	5	0	0	0	0	0
Van	0	0	0	0	0	0
Other vehicles	0	0	0	0	0	0
SUB-TOTAL	5	0	0	11	0	0

No documents uploaded by the school.

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	890	4	3	897
Public Bus	45	0	0	45
School Transport(Other than bus)	35	2	0	37
Public transport (other than bus, Metro, car pool)	45	7	2	54
Taxi four-wheeler	593	31	3	627
Taxi three-wheeler	12	0	0	12
Personal four-wheeler	200	46	13	259
Personal two-wheeler	53	11	5	69
Bicycle	60	1	0	61
On foot	300	5	2	307
Others (non-motorised)	7	0	0	7
SUB-TOTAL	2240	107	28	2375

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

5

How many students suffer from respiratory ailments ?

56

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.	Mrs LEELA ALAGESAN	leelaalagesan@mountcarmeldelhi.com

Administrative staff

Sno.	Name	Email
1.	Lawrence	

Students

Sno.	Name	Email	Grade/Class
1.	SARTHAK JUNJUHA	sarthakjanjuha095@gmail.com	10
2.	CHAITANYA GUPTA	chaitanyagupta01@gmail.com	10
3.	SRISHTI OJHA	shrishtiojha10@gmail.com	10
4.	HARSHITA JAIN	jainvassociates@rediffmail.com	10
5.	ASHI RATHI	ashirathi2805@mountcarmeldelhi.com	9
6.	RUDHI GUPTA	rudhigupta1304@mountcarmeldelhi.com	9

Task 2: How much energy does your school consume?

1 Does your school have access to an electricity bill?

Yes

Supporting Documents

1. Doc1.pdf

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)	13687.66	49275.58	1
Electricity from generator (diesel) (litres)	300	13680.00	1
Petrol (litres)	0	0.00	0
Diesel (litres)	510	23256.00	4
CNG (kilogrammes)	2229	116799.60	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)	0	0.00	0
Wind (kwh)	0	0.00	0
LPG (kilogrammes)	65	3354.00	3
Piped Natural Gas (kilogrammes)	0	0.00	0
TOTAL	16791.66	206365.18	

Supporting Documents

1. Doc2.pdf

4

What appliances does your school have?

	Number	Size	BEE Star Rating
Air Conditioners	56	1.5	3
Refrigerator	9	165	4
Microwave	6	15	3
Tube Lights	284	40	3

CFL Bulbs	10	12	4
LED Lights	132	60	4
Fans	304	50	2

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?

165

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.	Divya Singh	divyasingh@mountcarmeldelhi.com

Administrative staff

Sno.	Name	Email
1.	Divya Singh	divyasingh@mountcarmeldelhi.com

Students

Sno.	Name	Email	Grade/Class
1.	Nikita	nikita2001@mountcarmeldelhi.com	9
2.	Gursheen	gursheenkaursachdeva1601@mountcarmeldelhi.com	9
3.	Jobanpreet	jobanpreetbrar2808@mountcarmeldelhi.com	9
4.	Avi	avibhatnagar2701@mountcarmeldelhi.com	9
5.	Shruti	shrutimehta1611@mountcarmeldelhi.com	9
6.	Abhinav	abhinavkumar2709@mountcarmeldelhi.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
Yes

2 Does your school serve midday meals?
No

2(a) Do students bring their own lunch from home?
Yes

Supporting Documents

1. gsp4.docx

2(a)(1)

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

2000.00

2(a)(2)

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

1500.00

2(a)(3)

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

No

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	2	3000	7
Instant Noodles like Knorr, Cup-a-noodles, Top Ramen, Wai-wai, Yippee, Foodles, Maggi, etc	0	0	0
Potato fries and Burgers	2	100	7
Confectionery items (chocolate, candies, gums)	3	500	7
Ice-cream	7	2500	7
Carbonated beverages	0	0	0
Sugar sweetened noncarbonated beverages	2	1500	7
Packaged/Bottled Nimboo Paani/ Lassi/ Flavoured milk	1	100	7

Packaged/Bottled Energy Drinks

0

0

0

Supporting Documents

1. gsp food1.docx

4

Does your school serve traditional Indian snacks?

Yes

4(a)

Please provide the details:

	Number of plates sold when on the menu
Samosas	45
Idli/vada and sambhar	0
Pav bhaji	12
Momos	0
Others	0

4(b)

Give descriptions for rare local snacks served in your school:?

none

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?

Yes

7(a)

Please provide the names?

Dairy Milk, Snickers, Perk, Mars

8

Are your school events such as quiz shows, talent shows, debates sponsored by food

companies/brands?

No

Supporting Documents

1. gsp food3.pdf



LAND

Task 1: Land Audit Team

Teachers

Sno.	Name	Email
1.	Shija John	shijajohn@mountcarmel.com

Administrative staff

Sno.	Name	Email
1.	Mr.Lawrence	
2.	Mr.Malkeet Singh	

Students

Sno.	Name	Email	Grade/Class
1.	Pinky Godara	pinkygodara2807@mountcarmeldelhi.com	10
2.	Kangana Kumar	kanganakumar2407@mountcarmeldelhi.com	10
3.	Saanjali		10
4.	Hephshiba Nanda		9
5.	Milli Kathuria		9
6.	Pihoi		9
7.	Harsh		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)	8,094
Ground coverage area	2,323
Green landscaped area on-ground	584
Surface parking area	1,194
Play area that is paved/ concrete on ground	2,000
Play area that has grass on ground	234

Service Area on ground	1,661
Roof and terrace area	728
Green cover on exposed roof & terrace	0
Total built up/constructed area	9,290
Total no. of floors	4
Others	470

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	30	2	32
Animals	0	0	0

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. land_gsp.pdf
2. LAND GSP.pdf
3. LAND GSP 3.pdf



WATER

Task 1: Water Audit Team

Teachers

Sno.	Name	Email
1.	VIJAYA RAMADOSS	vijayaramadoss2009@gmail.com

Administrative staff

Sno.	Name	Email
1.	Lawrence	

Students

Sno.	Name	Email	Grade/Class
1.	Himani		9
2.	Khushi Agarwal		9
3.	Miriam		8
4.	Radhika Sharma		8
5.	Nikita Aggarwal		10
6.	Joy Nath		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	4000
Toilet flushing	7000
Personal cleaning	0
Washing clothes	500
Cooking	250
Cleaning Utensils	250
Washing Vegetables	100

Mopping floors	500
Gardening	700
Total	13300

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

2 Where does the water your school uses, come from?

Ground water

3 Who supplies the water in your school?

Municipality, 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?	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?	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)

Yes

Supporting Documents

1. green school programme.pdf

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?.

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.

Mopping, Toilets

6(b)(2)

Does your school have rainwater storage tank?

Yes

6(b)(2)(a)

Total capacity of storage tank (litres)

100000.00

6(b)(2)(b)

Total number of storage tanks

1.00

6(b)(2)(c)

Location of tanks:

Underground

6(b)(2)(d)

Material options for tanks

PVC

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

Filter unit, Storage tank

6(d)(1) Where is your filter unit?

Before storage tank

6(d)(2) Types of filter used in your school:

Sand gravel filter

6(e) Rate your catchment on cleanliness:

Good

No documents uploaded by the school.

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?

Do not follow any such pattern

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?	No
Are the toilets accessible and safe to use for differently abled staff (teaching and non-teaching)?	No
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?

15

9 How many hand pumps do you have?

0

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

215

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

	Girls	Boys	Common	Total
Number of toilets	45	40	0	85

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

40

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

2

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

Once a day

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

17

Does your school treat wastewater?

Yes

18

Does your school reuse the treated wastewater?

Yes

18(a)

How does your school reuse wastewater?

Flushing

No documents uploaded by the school.



WASTE

Task 1: Waste Audit Team

Teachers

Sno.	Name	Email
1.	RANJINI RAMESH	ranjiniramesh@mountcarmeldelhi.com

Administrative staff

Sno.	Name	Email
1.	S.Laurence.	laurence@mountcarmeldelhi.com

Students

Sno.	Name	Email	Grade/Class
1.	ARYA	aryakaul2208@mountcarmeldelhi.com	10
2.	ANINYA	aninyasethi1712@mountcarmeldelhi.com	10
3.	NIPUN	nipunrana0801@mountcarmeldelhi.com	10
4.	VARUN	varunsangwan0103@mountcarmeldelhi.com	10
5.	NEHA	nehaanand2207@mountcarmeldelhi.com	10
6.	VANSHIKA	vanshikakapoor1710@mountcarmeldelhi.com	10

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	54	0	54	0	0
Playgrounds	1	0	1	0	0
Common area (e.g. reception, corridors)	1	0	1	0	0
Staffroom	5	0	5	0	0

Laboratory	3	0	0	0	3
Canteen	1	0	0	0	1
Clinic/ Sick room	1	0	0	1	0
Library	2	0	2	0	0
Toilets	50	0	50	0	0
Others	0	0	0	0	0
Total	118	0	113	1	4

Supporting Documents

1. dustbins.docx
2. d2.docx

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	10
Kitchen waste	15
Paper	413.3
Plastic	13
Wood, glass, metal, classroom furniture	70
E-waste	136.5
Biomedical waste	0.1
Sanitary waste	15
Construction and Demolition (C & D) waste	0
Hazardous waste	0.01
Total Generated Solid Waste (in kilogram)	672.91

No documents uploaded by the school.

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?

Yes

Supporting Documents

1. com.docx

5a What is the methodology used?

Natural composting without added microbes

5b What is the quantity of compost that is generated per month(in kilogram)?

6.00

5c What is the purpose of the compost that is generated per month?

For horticultural purposes

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)

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	79	79	
VCR or DVD players	2	2	
Refrigerators and freezers	9	9	
Washing machines	1	1	
Air conditioners	56	56	
Heaters	2	2	
Microwaves	6	6	
Ovens	1	1	

Toasters	1	1	
Electric Kettles	5	5	
Personal computers (CPU, mouse, screen and keyboard included)	325	325	
Laptop computer (CPU, mouse, screen and keyboard included)	8	8	
Notebook computers	0	0	
Notepad computers	0	0	
Printers	48	48	
Copying equipment (Photocopiers)	10	10	
Projectors	5	5	
Whiteboards	6	6	
Electrical & electronic typewriters	0	0	
Pocket & desk calculators	0	0	
Fax machines	1	1	
Telex	0	0	
Telephones	59	59	
Pay telephones	0	0	
Mobiles	7	7	
Answering systems	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?

Kabadiwalla/ Scrapdealer

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?

Yes

Supporting Documents

1. street play.docx

13a

What form do these awareness drives take?

By the showcasing of posters and stickers

14

Is the study of the environment integrated into the curriculum?

Yes

Supporting Documents

1. survey 1.docx
2. survey canteen.docx



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?

2015-16

1(b)

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

2

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?

Technology and Expertise to setup a water treatment plant and paper recycling plants, Air Purifying machine, Solar Plant

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?

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?

37.00

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 5 star appliances used by school
6. Photographs of lunch boxes
7. Picture of Canteen selling UPPF
8. Traditional food items sold in canteen
9. Pictures of Green Cover
10. Pictures of landscaped area
11. Pictures of playground with more than two dustbins
12. Picture of types of solid waste generated
13. Pictures of recycling units - composting pit, paper recycling machine, selling paper to kabadiwala, recyclers, etc
14. Pictures of housekeeping staff disposing different types of solid waste
15. Pictures of various school initiatives e.g. rally, debate, street play, art competition, etc
16. Pictures of respective audit teams doing survey