



# GREEN SCHOOLS PROGRAMME

## Responses for Green Schools Programme Audit 2016

**School Name:** KATHA LAB SCHOOL  
**Address:** BHUMIHEIN CAMP ,DEMONSTRATION  
BLOCK, GOVINDPURI,, KALKAJI  
EXTENTION , NEW DELHI, South Delhi,  
Delhi, India  
**Coordinator Name:** PARMINDER KAUR GULATI



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

KATHA LAB SCHOOL

2

Address

BHUMIHEIN CAMP ,DEMONSTRATION BLOCK, GOVINDPURI,, KALKAJI EXTENTION ,  
NEW DELHI, South Delhi, Delhi, India

3

Telephone Number (Landline Number with STD code)

(ISD) 91 (STD) 8800 (NUMBER) 797629

4

Mobile Number (Mobile Number with STD code)

(ISD) 91 (Number) 8800797629

5

Principal Name

REETA SUTRADHAR

6

GSP Coordinator Name

PARMINDER KAUR GULATI

7

GSP Coordinator Email

pami\_gulati@yahoo.co.in

8

GSP Coordinator Mobile Number

(ISD)91 (Number) 8373903002

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?

Other: 'National Institute of Open School NIOS'

4

Total permanent population of the school

	Male	Female	Total
Students	700	650	1350
Teachers	9	35	44
Non-Teaching Staff	12	7	19
TOTAL	721	692	1413

4(b)

How many visitors visit your school

30

5

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

204

6

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

Aug, Sep, Oct

7

Where is the school located?

Urban Area



## AIR

### Task 1: Air Audit Team

#### Teachers

Sno.	Name	Email
1.	Vandana Kumari	Vandana Kumari
2.	Monica Sharma	monika4sharma7575@gmail.com
3.	Mridula Srivastava	mridulasre.nd@gmail.com

#### Administrative staff

Sno.	Name	Email
1.	Gautam Gambhir	kathakhazana@katha.org
2.	Ajay	

#### Students

Sno.	Name	Email	Grade/Class
1.	Rajat		10
2.	Payal		9
3.	Janvi		9
4.	Sangeeta		10
5.	Shaffique		9

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

1 How many classrooms does your school have?

10

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)
SST room	24.46	4.08	16.68
Math room	29.65	10.00	33.73
Robotics room	28.71	4.23	14.73

Kaswi room	83.98	9.96	11.86
cfs room	12.26	0.69	5.63
crech	22.99	8.35	36.32
jhunjhun wadi 1	20.10	1.52	7.56
jhunjhun wadi 2	26.94	1.91	7.09
science room	24.46	5.78	23.63
hindi room	61.95	9.36	15.11
<b>TOTAL</b>	<b>335.50</b>	<b>55.88</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 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	65	25	0	90
School Transport(Other than bus)	0	0	0	0
Public transport (other than bus, Metro, car pool)	0	0	0	0
Taxi four-wheeler	0	0	0	0
Taxi three-wheeler	60	4	4	68
Personal four-wheeler	0	0	0	0
Personal two-wheeler	10	5	2	17
Bicycle	10	0	2	12
On foot	1205	10	11	1226
Others (non-motorised)	0	0	0	0

SUB-TOTAL	1350	44	19	1413
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### Task 5: How good is the air you breathe in your school?

5

How many students suffer from respiratory ailments ?

7

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.	PARMINDER	pami_gulati@yahoo.co.in
2.	SERVESH KUMARI	serveshkumari05@gmail.com
3.	NANDITA	nandita_sengupta13@redifmail.com

#### Administrative staff

Sno.	Name	Email
1.	MR. GAUTAM	kathakhazana@katha.org
2.	AJAY	

#### Students

Sno.	Name	Email	Grade/Class
1.	SANGITA		10
2.	VANDNA		10
3.	RAJAT	rajatdas5000@gmail.com	10
4.	AMAN	as78532@gmail.com	10
5.	KADIR		10

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

1

Does your school have access to an electricity bill?

Yes

#### Supporting Documents

1. bill.pdf

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)	2714	9770.40	1,3,5
Electricity from generator (diesel) (litres)	2	91.20	1
Petrol (litres)	0	0.00	0
Diesel (litres)	5	228.00	1
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)	500	1800.00	1,5
Wind (kwh)	0	0.00	0
LPG (kilogrammes)	56.8	2930.88	3
Piped Natural Gas (kilogrammes)	0	0.00	0
TOTAL	3277.80	14820.48	

### Supporting Documents

1. bill.pdf
2. gautam1.pdf2.pdf
3. gautam1.pdf2.pdf12.pdf

4

What appliances does your school have?

	Number	Size	BEE Star Rating
Air Conditioners	0	0	0
Refrigerator	3	289,388,160	4STAR



Microwave	1	28	4STAR
Tube Lights	194	40	0
CFL Bulbs	0	0	0
LED Lights	8	15	0
Fans	90	200	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?

27

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. T.jpg



## FOOD

### Task 1: Food Audit Team

#### Teachers

Sno.	Name	Email
1.	PREMLATA	prem.bhardwaj67@gmail.com
2.	SANJU	singh_sanjuop@rediffmail.com
3.	MRIDULA	mridulasri.nd@gmail.com

#### Administrative staff

Sno.	Name	Email
1.	GAUTAM KAPOOR	kathakhazana@katha.org
2.	AJAY	

#### Students

Sno.	Name	Email	Grade/Class
1.	RAJ		9
2.	DEEPAK		9
3.	ARPIT		7
4.	AMARJEET		8
5.	SAPNA		6

### 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?

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	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	70
Idli/vada and sambhar	0
Pav bhaji	20
Momos	0

Others

50

4(b)

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

Aloo tikki, bread pokada, poha. sprouts,dalia and palak khichri

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	53
Sweet lassi	0
Salted butter milk	0
Aam Panna	53
Others	0

#### 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. 20151116\_120239.jpg
2. 20160310\_033447.jpg



## LAND

### Task 1: Land Audit Team

#### Teachers

Sno.	Name	Email
1.	SUDHIR	sudhir.jha456@gmail.com
2.	PALAK	palakwalia05@gmail.com
3.	NANDITA	nandita_sengupta13@rediffmail.com

#### Administrative staff

Sno.	Name	Email
1.	Mr. GAUTAM	kathakhazana@katha.org
2.	AJAY	

#### Students

Sno.	Name	Email	Grade/Class
1.	ARPIT		8
2.	AMARJEET		8
3.	SUSHMITA		8
4.	ARSHAD		8
5.	SAJJO		8

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

1

Complete the table:

	Your school's area
Site area in square meter (m <sup>2</sup> )	510
Ground coverage area	450
Green landscaped area on-ground	0
Surface parking area	25
Play area that is paved/ concrete on ground	93
Play area that has grass on ground	0

Service Area on ground	80
Roof and terrace area	450
Green cover on exposed roof & terrace	0
Total built up/constructed area	450
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	86	0	86
Animals	8	0	8

### 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. 20160817\_111732.jpg
2. IMG\_0039 %282%29.JPG
3. IMG\_0047.JPG
4. 20151110\_123227.jpg
5. 20151110\_122322.jpg



## WATER

### Task 1: Water Audit Team

#### Teachers

Sno.	Name	Email
1.	SUDHIR	sudhir.jha456@gmail.com
2.	ANJU	anju0282@gmail.com
3.	SARVESH	sarveshkumari05@gmail.com

#### Administrative staff

Sno.	Name	Email
1.	MR.GAUTAM	kathakhazana@katha.org
2.	AJAY	

#### Students

Sno.	Name	Email	Grade/Class
1.	SANGITA		10
2.	RAVI		5
3.	RAJEEV		5
4.	SHAHZADI		6
5.	AMARJIT		8

### 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	1250
Toilet flushing	1300
Personal cleaning	0
Washing clothes	200
Cooking	45
Cleaning Utensils	50

Washing Vegetables	15
Mopping floors	70
Gardening	70
Total	3000

### 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?

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

19-24 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?	No
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?	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?	No
Any other step taken for water conservation? (if Yes, please specify)	Yes

### Supporting Documents

1. 20161109\_124827.jpg
2. 20161109\_122648.jpg
3. RAINWATER.docx
4. map.jpg

## 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).

284760

## 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?

4

9 How many hand pumps do you have?

0

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

8

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

	Girls	Boys	Common	Total
Number of toilets	4	2	4	10

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

3

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

0

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

More than twice 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.	ANJU	anju0282@gmail.com
2.	MANJEET	kaurmanjeet.4219@gmail.com
3.	AJAY KUMAR	ajay934101@gmail.com

#### Administrative staff

Sno.	Name	Email
1.	Mr.GAUTAM	kathakhazana@katha.org
2.	AJAY	

#### Students

Sno.	Name	Email	Grade/Class
1.	SANGITA		10
2.	AMARJEET		8
3.	SHAHZADI		6
4.	RAJEEV		5
5.	ABHISHEK		4

### 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. Housekeeping (Sweeper)

2. Other: children also

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	10	0	10	0	0
Playgrounds	4	0	2	2	0
Common area (e.g. reception, corridors)	2	0	2	0	0
Staffroom	2	0	2	0	0
Laboratory	1	0	1	0	0
Canteen	3	0	1	2	0
Clinic/ Sick room	0	0	0	0	0
Library	1	0	1	0	0
Toilets	2	0	2	0	0
Others	0	0	0	0	0
Total	25	0	21	4	0

### Supporting Documents

1. DSC07237.JPG
2. 20150807\_092616.jpg
3. 20161109\_144538.jpg
4. 20161109\_143352.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	2
Kitchen waste	10
Paper	20
Plastic	0

Wood, glass, metal, classroom furniture	2
E-waste	1
Biomedical waste	1
Sanitary waste	1
Construction and Demolition (C & D) waste	0
Hazardous waste	0
Total Generated Solid Waste (in kilogram)	37

### Supporting Documents

1. DSC07238.JPG

## 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	0
Kitchen waste	0
Paper	20
Plastic	0
Wood, glass, metal, classroom furniture	2
E-waste	0
Biomedical waste	0
Sanitary waste	0
Construction and Demolition (C & D) waste	0
Hazardous waste	0

Total (in kilogram)

22

5 Does your school have a composting facility?

No

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. 888.jpg
2. 555.jpg
3. 20160227\_152438.jpg
4. 20160122\_110111.jpg
5. 20161109\_143050.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. 20161110\_112456-1.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	4	4	0
VCR or DVD players	2	2	0
Refrigerators and freezers	3	3	0
Washing machines	1	1	0
Air conditioners	0	0	0
Heaters	0	0	0
Microwaves	1	1	0
Ovens	2	2	0
Toasters	0	0	0
Electric Kettles	0	0	0
Personal computers (CPU, mouse, screen and keyboard included)	70	70	0
Laptop computer (CPU, mouse, screen and keyboard included)	5	5	0
Notebook computers	0	0	0
Notepad computers	25	25	0
Printers	9	8	1



Copying equipment (Photocopiers)	1	1	0
Projectors	7	7	0
Whiteboards	5	5	0
Electrical & electronic typewriters	0	0	0
Pocket & desk calculators	0	0	0
Fax machines	1	1	0
Telex	0	0	0
Telephones	1	1	0
Pay telephones	0	0	0
Mobiles	7	7	0
Answering systems	5	5	0

### Supporting Documents

1. 20161109\_152318.jpg
2. 20161109\_152635.jpg
3. 20161109\_152651.jpg
4. 20161109\_153051.jpg
5. 20161109\_153202.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?

Yes

### Supporting Documents

1. 555555.jpg

2. 20161109\_144958.jpg
3. 20161109\_144612.jpg
4. 20160305\_144829.jpg
5. one.jpg.jpg

13a

What form do these awareness drives take?

As part of the curriculum

14

Is the study of the environment integrated into the curriculum?

Yes

### Supporting Documents

1. 20161110\_113243.jpg



## 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?

2011\_12

1(b)

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

15

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?

Grant for rain water harvesting .

8

How would you rate the overall design of the audit?

Aspect	Good / Average /Bad
Content	Good
Distribution of time among tasks	Average
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?

300.00

### Checklist of uploaded documents

1. Fuel Bills
2. Electricity Bill
3. Picture of Renewable sources of Energy
4. Picture of Mid-day meal being served
5. Photographs of lunch boxes
6. Traditional food items sold in canteen
7. Pictures of Green Cover
8. Pictures of dustbins in classroom showing segregation at source
9. Pictures of playground with more than two dustbins
10. Picture of audit team weighing solid waste
11. Picture of types of solid waste generated
12. Pictures of housekeeping staff disposing different types of solid waste
13. Pictures of Electronic items used by school and storage of non-working electronic items
14. Pictures of various school initiatives e.g. rally, debate, street play, art competition, etc
15. Pictures of respective audit teams doing survey