

# Responses for Green Schools Programme Audit 2016

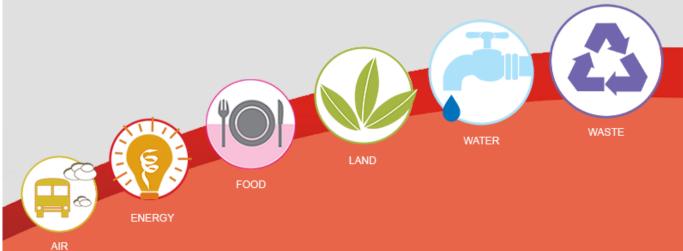
School Name: KV IIT Kanpur

Address: IIT Campus Kalyanpur Kanpur UP

208016, Kanpur, Kanpur, Uttar Pradesh,

India

Coordinator Name: Sanjeev Kumar



# 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
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KV IIT Kanpur

2 Address

IIT Campus Kalyanpur Kanpur UP 208016, Kanpur, Kanpur, Uttar Pradesh, India

Telephone Number (Landline Number with STD code)

(ISD) 91 (STD) 0512 (NUMBER) 2590145

Mobile Number (Mobile Number with STD code)

(ISD) 91 (Number) 7380539643

5 Principal Name

Rajendra Nivrutti Wadalkar

6 GSP Coordinator Name

Sanjeev Kumar

GSP Coordinator Email

sanjeevforever4@gmail.com

GSP Coordinator Mobile Number

(ISD)91 (Number) 9616962031

Category Of The School

Day Scholar

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?

Central Board of Secondary Education

Total permanent population of the school

	Male	Female	Total
Students	1205	832	2037
Teachers	25	35	60
Non-Teaching Staff	9	1	10
TOTAL	1239	868	2107

4(b) How many visitors visit your school

1225

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?

Aug, Sep, Oct

Where is the school located?

Urban Area



### Task 1: Air Audit Team

### **Teachers**

Sno.	Name	Email
1.	Atar Singh	Atar Singh
2.	Durgesh Kumar Singh	durgesh1964@gmail.com
3.	Esha Srivastava	esha.srivastava@rediffmail.com

### **Administrative staff**

Sno.	Name	Email
1.	Rajendra Nivrutti Wadalkar	rwadalkar1@gmail.com

#### **Students**

Sno.	Name	Email	Grade/Class
1.	Vishesh Shukla	padams96@gmail.com	10
2.	Aakarsh Mishra	aakarshtmi099@gmail.com	10
3.	Akash Pandey	akashpandey570@gmail.com	10
4.	Himanshu Shekhar	himanshushekhar904@gmail.com	10
5.	Safal Kanaujia	skanaujia04@gmail.com	10
6.	Ratnesh Tiwari	kailashpandey1967@gmail.com	8
7.	Prajwal Pandey	prajwalpandey2002@gmail.com	8
8.	Harshit Pandey	harshitp197@gmail.com	8
9.	Zoya	abcxeroxs@gmail.com	8
10.	Sujal Deshmukh	sujaljdeshmukh@gmail.com	7

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

How many classrooms does your school have?

45

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 X section c	46.24	18.32	39.61
Class IX section d	49.25	14.67	29.79
Class I section b	45.56	13.05	28.64
Class II section a	48.94	18.32	37.43
Class V section d	44.89	18.32	40.80
Class VIII section c	44.89	18.32	40.80
Class VII section e	44.21	13.05	29.52
Class IV section a	47.49	14.81	31.18
Class XII section e	51.12	12.86	25.15
Class XI section b	43.15	18.32	42.45
TOTAL	465.73	160.01	

# 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?

School does not use or own 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	251	24	0	275
School Transport(Other than bus)	0	0	0	0
Public transport (other than bus, Metro, car pool)	0	0	0	0
Taxi four-wheeler	232	4	0	236
Taxi three-wheeler	23	0	0	23
Personal four-wheeler	34	4	0	38
Personal two-wheeler	405	24	1	430

Bicycle	906	4	9	919
On foot	127	0	0	127
Others (non-motorised)	59	0	0	59
SUB-TOTAL	2037	60	10	2107

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



Does the school laboratory have air quality monitoring equipment?

No

Yes

No documents uploaded by the school.

6(a) 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.	Rupam Mishra	rupamalok@gmail.com
2.	Santosh Kumar Pal	pal77san@gmail.com
3.	Rajesh Mishra	rajeshs_sharma@yahoo.com

### **Administrative staff**

Sno.	Name	Email
1.	Rajendra Nivrutti Wadalkar	rwadalkar1@gmail.com

#### **Students**

Sno.	Name	Email	Grade/Class
1.	Akash Verma	classmate1958@gmail.com	10
2.	Amrendra Maurya	amaurya@outlook.com	10
3.	Ramdas Tiwari	it8ishan@aol.com	10
4.	Mallika Venkatesh	arundatisusheela@gmail.com	10
5.	Harsh Vardhan	harshitmishra125@ovi.com	10
6.	Pratyush	pratyush0304shaily@gmail.com	8
7.	Prarabhya Singh	akilesh123@gmail.com	8
8.	Swati Raman	d.raman@licindia.com	8
9.	Kushal Pandey	sandeeppandey2567@gmail.com	8
10.	Arun Krishna	musicianat2005@gmail.com	7

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



Does your school have access to an electricity bill?

Yes

### **Supporting Documents**

1. KVIITK\_Electricity\_Bill.jpg

### 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)	7400	26640.00	2
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)	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)	57	2941.20	2
Piped Natural Gas (kilogrammes)	0	0.00	0
TOTAL	7457.00	29581.20	

No documents uploaded by the school.

What appliances does your school have?

	Number	Size	BEE Star Rating
Air Conditioners	7	1.5	3
Refrigerator	3	190	3

Microwave	0	0	0
Tube Lights	370	40	0
CFL Bulbs	75	11	0
LED Lights	0	0	0
Fans	250	75	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?

225

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.	Pradeep Singh	pradeep.inder@gmail.com
2.	Rakesh Kumar Sriwastawa	rakeshkumar.sriwastawa@gmail.com
3.	Snehlata Sharma	ssharma.kv@gmail.com

### **Administrative staff**

Sno.	Name	Email
1.	Rajendra Nivrutti Wadalkar	rwadalkar1@gmail.com

### **Students**

Sno.	Name	Email	Grade/Class
1.	Abhishek Pathak	amadhurpathak@gmail.com	10
2.	Milind Singh	milinds301@gmail.com	10
3.	Om Gonade	om.gonade123@gmail.com	10
4.	Pawan Kumar	sureshmehto.68@gmail.com	10
5.	Gargi Pathak	amadhurpathak@gmail.com	10
6.	Anshu Pal	mukeshr.123@sushmagmail.com	8
7.	Sachin Tiwari	shivamtiwari31297@gmail.com	8
8.	Shubhanshu Verma	himanshu.vaa143@gmail.com	8
9.	Kanchan Yadav	vikasy2001@gmail.com	8
10.	Amartya Roy	amartyaroy1234@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

Yes

Does your school serve midday meals?

No

Do students bring their own lunch from home?

Yes

### **Supporting Documents**

1. Lunch.jpg

2(a)(1) How many students out of total student population bring home-made lunch?

2000.00

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

37.00

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

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	3	2100	6
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	7	3000	7
Carbonated beverages	0	0	0
Sugar sweetened noncarbonated beverages	9	3200	6

Packaged/Bottled Nimboo Paani/ Lassi/ Flavoured milk	5	350	7
Packaged/Bottled Energy Drinks	0	0	0

1. School\_Canteen.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	0
Others	3

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

Chat, bhelpuri and idli are served in our school in different seasons.

Does your school serve traditional Indian beverages?

Yes

5(a) Details are as follows:

	Number of servings sold when on the menu
Nimboo pani	50
Sweet lassi	100
Salted butter milk	200
Aam Panna	100

Others 0

### 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

### **Supporting Documents**

1. Food\_Audit.jpg



# **Task 1: Land Audit Team**

### **Teachers**

Sno.	Name	Email
1.	Sushma Singh	sushsingh79@gmail.com
2.	Lallu Maurya	mauryakviit@gmail.com
3.	Nidhi Mishra	nidhimishra15@yahoo.com

### **Administrative staff**

Sno.	Name	Email
1.	Rajendra Nivrutti Wadalkar	rwadalkar1@gmail.com

### **Students**

Sno.	Name	Email	Grade/Class
1.	Anshuman Singh	anshuman234@gmail.com	10
2.	Prabhanshu	yadav.iitk@gmail.com	10
3.	Mayank Kashyap	rkashyap@iitk.ac.in	10
4.	Nikhil Verma	nverma26feb@gmail.com	10
5.	Harshit Mishra	harshitmishra1255@gmail.com	10
6.	Deepesh Trivedi	deepeshtrivedi35@gmail.com	8
7.	Pratham Shukla	shuklaspratham10@gmail.com	8
8.	Shashank Rawat	shashankrawat2003@gmail.com	8
9.	Alpana	alpanaiit2003@gmail.com	8
10.	Raja Sundar	krajasundar@gmail.com	7

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

Complete the table:

	Your school's area
Site area in square meter (m2)	47,245
Ground coverage area	5,490

Green landscaped area on-ground	41,755
Surface parking area	921
Play area that is paved/ concrete on ground	1,096
Play area that has grass on ground	40,834
Service Area on ground	0
Roof and terrace area	5,490
Green cover on exposed roof & terrace	0
Total built up/constructed area	5,490
Total no. of floors	1
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	21	0	21
Animals	0	0	0

# Task 4: Find out if your school uses pesticides

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

No

### **Supporting Documents**

- 1. KVIITK\_1.JPG
- 2. KVIITK\_2.JPG
- 3. Construction\_Plan.jpg
- 4. MEASURE.jpg
- 5. Parking\_Area.JPG



# WATER

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

#### **Teachers**

Sno.	Name	Email
1.	Kavita Singh	kavita.ks624@gmail.com
2.	Raj Kishor Katiyar	samtakishor17@gmail.com
3.	Archana Shukla	emailarchanashukla@gmail.com`

### **Administrative staff**

Sno. Name		Email	
1.	Rajendra Nivrutti Wadalkar	rwadalkar1@gmail.com	

### **Students**

Sno.	Name	Email	Grade/Class
1.	Ayush Dabra	ayushdabra2@gmail.com	10
2.	Divyansh	divyanshsingh001@live.com	10
3.	Divyanshi Mishra	divyanshimishra2014@gmail.com	10
4.	Amrita Singh	sushsingh79@gmail.com	10
5.	Divyanshi Mishra	divyanshimishra2014@gmail.com	10
6.	Kratika Kushwaha	kratikakushwaha@outlook.com	10

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

Calculate your school's water consumption, per activity.

Activity	Total Quantity (litres per day)
Drinking	2107
Toilet flushing	5103
Personal cleaning	0
Washing clothes	0
Cooking	15
Cleaning Utensils	100

Washing Vegetables	30
Mopping floors	200
Gardening	500
Total	8055

## 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?
Private supplier

Does your school get daily water supply?
Yes

19-24 hours

# Task 4: What are the water conservation practices followed in your school?

What are the water conservation practices your school follows.

If supply of water is daily, please tick the correct option

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

- 1. Waterpoint.jpg
- 2. Watertank.jpg
- 3. Wastewater Management in Kendriya Vidyalaya.docx
- 4. Water\_Audit.jpg

## Task 5: Does your school harvest rainwater?

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

No

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

7849

# 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?
48

How many hand pumps do you have?

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

20

0

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

	Girls	Boys	Common	Total
Number of toilets	6	6	1	13

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

22

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

16

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

Yes

ls the water supply sufficient?

Yes

Are the toilets cleaned?

Yes

16(a) If yes, please specify

Once a day

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

Does your school treat wastewater?

No

Does your school reuse the treated wastewater?

Yes

18(a)

How does your school reuse wastewater?

Recharge Ground Water

No documents uploaded by the school.



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

#### **Teachers**

Sno.	Name	Email
1.	Brijesh Kumar Chaubey	chaubey.brijeshkumar@yahoo.in
2.	Poonam Singh	ponam.cktd@gmail.com

#### **Administrative staff**

Sno.	Name	Email
1.	Rajendra Nivrutti Wadalkar	rwadalkar1@gmail.com

### **Students**

Sno.	Name	Email	Grade/Class
1.	Sagar Gurang	sagaryaani@gmail.com	10
2.	Vaibhav Sharma	vaishar34@gmail.com	10
3.	Tanuj Gupta	tanujg32@gmail.com	10
4.	Yogesh Kumar	dinesh@iitk.ac.in	10
5.	Princy Shakya	princyshakya33@gmail.com	10
6.	Sumit Singh	sumitbhadauriya15@gmail.com	8
7.	Jayendra Tiwari	jtiwari22@gmail.com	8
8.	Ayush	ayushvish4@gmail.com	8
9.	Vipasha Jayant	nepalsingh275@gmail.com	8
10.	Ansh Pant	anshpant2004@gmail.com	7

# 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)

Waste collection points in your school.

	Total No. of collection points	No bin	One bin	Two bins (wet & dry)	Three bins or more
Classrooms	45	0	0	45	0
Playgrounds	4	0	0	4	0
Common area (e.g. reception, corridors)	4	0	0	4	0
Staffroom	2	0	2	0	0
Laboratory	9	0	0	9	0
Canteen	2	0	1	1	0
Clinic/ Sick room	1	0	1	0	0
Library	1	0	0	1	0
Toilets	11	0	11	0	0
Others	1	0	1	0	0
Total	80	0	16	64	0

- 1. Dustbins.jpg
- 2. Wastesegregationinclass.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	150
Kitchen waste	100
Paper	34
Plastic	10
Wood, glass, metal, classroom furniture	50
E-waste	16

Biomedical waste	1
Sanitary waste	13
Construction and Demolition (C & D) waste	8
Hazardous waste	0
Total Generated Solid Waste (in kilogram)	382

- 1. Biowaste.jpg
- 2. Cardboards %26 Tin Container.jpg
- 3. Wood%2C metal%2C furniture etc..jpg
- 4. Construction %26 Demolition.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?

Yes

### **Supporting Documents**

- 1. Compost Pit.jpg
- 2. Compost.jpg
- 3. Indoorcomposter.jpg

What is the methodology used?

Natural composting without added microbes

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

120.00

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

For horticultural purposesFor school garden

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)	<b>✓</b>	×	×	×
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)	×	×	×	4

### **Supporting Documents**

1. School waste collected by IIT Kanpur.jpg

# Task 5: How does your school dispose waste?

8

What is the final destination for waste that is disposed of externally?

Open dumping

1. Disposing solid waste.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	2	2	0
VCR or DVD players	2	2	0
Refrigerators and freezers	3	3	0
Washing machines	0	0	0
Air conditioners	7	7	0
Heaters	2	2	0
Microwaves	0	0	0
Ovens	0	0	0
Toasters	0	0	0
Electric Kettles	5	5	0
Personal computers (CPU, mouse, screen and keyboard included)	109	97	12
Laptop computer (CPU, mouse, screen and keyboard included)	0		
Notebook computers	0	0	0
Notepad computers	0	0	0
Printers	8	8	0
Copying equipment (Photocopiers)	2	2	0
Projectors	26	26	0
Whiteboards	14	14	
Electrical & electronic typewriters	0	0	0

Pocket & desk calculators	3	3	0
Fax machines	1	1	0
Telex	0	0	0
Telephones	7	7	0
Pay telephones	0	0	0
Mobiles	0	0	0
Answering systems	0	0	0

- 1. Computers.jpg
- 2. E-waste.jpg
- 3. Printer %26 Photocopier.jpg

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

Yes

No documents uploaded by the school.

Who collects your e-waste, when not in working condition?

Authorised dealer

### Task 6: School's initiatives

Does the school have a policy on waste?

Yes

### Policy document

11a

### Wastepolicy.JPG

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

Yes

- 1. artcomp.jpg
- 2. debate.jpg
- 3. Rally.jpg
- 4. Sitevisits.jpg

What form do these awareness drives take?

By the showcasing of posters and stickers

Is the study of the environment integrated into the curriculum?

Yes

No documents uploaded by the school.



### **FEEDBACK**

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

Well, we are self-sufficient in doing so but we will be pleased if you all are willing to help us.

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

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

**Checklist of uploaded documents** 

1. Electricity Bill

13(a)

2. Photographs of lunch boxes

6.00

- 3. Picture of Canteen selling UPPF
- 4. Traditional food items sold in canteen
- 5. Pictures of Green Cover
- 6. Pictures of landscaped area
- 7. Pictures of dustbins in classroom showing segregation at source

How many students were involved in the activities?

- 8. Pictures of playground with more than two dustbins
- 9. Picture of types of solid waste generated
- 10. Pictures of recycling units composting pit, paper recycling machine, selling paper to kabadiwala, recyclers,etc
- 11. Pictures of housekeeping staff disposing different types of solid waste
- 12. Pictures of Electronic items used by school and storage of non-working electronic items
- 13. Waste Policy
- 14. Pictures of various school initiatives e.g. rally, debate, street play, art competition, etc
- 15. Pictures of respective audit teams doing survey