



GREEN SCHOOLS PROGRAMME

Responses for Green Schools Programme Audit 2016

School Name: KENDRIYA VIDYALAYA DRDO
Address: DRDO COMPLEX PHASE I , C V
RAMAN NAGAR, BANGALORE,
Bangalore, Karnataka, India
Coordinator Name: SMT. SUJATHA GUNESWARI



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

KENDRIYA VIDYALAYA DRDO

2

Address

DRDO COMPLEX PHASE I , C V RAMAN NAGAR, BANGALORE, Bangalore, Karnataka, India

3

Telephone Number (Landline Number with STD code)

(ISD) 91 (STD) 080 (NUMBER) 25243919

4

Mobile Number (Mobile Number with STD code)

(ISD) 91 (Number) 8147533609

5

Principal Name

DR.(SMT.) NUTAN PUNJ

6

GSP Coordinator Name

SMT. SUJATHA GUNESWARI

7

GSP Coordinator Email

sujathaguneswari@yahoo.com

8

GSP Coordinator Mobile Number

(ISD)91 (Number) 9482439571

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	1094	1031	2125
Teachers	16	47	63
Non-Teaching Staff	5	3	8
TOTAL	1115	1081	2196

4(b)

How many visitors visit your school

500

5

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

240

6

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

Oct

7

Where is the school located?

Urban Area



AIR

Task 1: Air Audit Team

Teachers

Sno.	Name	Email
1.	Mrs.SUJATHAGUNESWARI	Mrs.SUJATHAGUNESWARI
2.	Mrs.Aruna.D.Eknath	arunaklrm@yahoo.co.in
3.	Mrs. Chitra	chitravoc@yahoo.com

Administrative staff

Sno.	Name	Email
1.	Mrs.sujathaguneswari	sujathaguneswari@yahoo.com
2.	Vijay Kumar	vijaykvdrdo@gmail.com
3.	Aruna D Eknath	arunaklrm@yahoo.co.in
4.	Gautam	r.gautam.sm@gmail.com
5.	Hema Ramesh	hemarpai@gmail.com

Students

Sno.	Name	Email	Grade/Class
1.	Lakshmi	lakshmianand22@gmail.com	11
2.	Priyanka	priyanka123@gmail.com	11
3.	Amrutha	ammugshekhar@gmail.com	11
4.	Saloni	salonisingh880@gmail.com	11
5.	Shalini	shalinipandey0610@gmail.com	11
6.	Devasurya	nanudevarajan@gmail.com	11
7.	Aditya Gautam	adi.anang19@gmail.com	11
8.	Uthara	utharasrinivasan@gmail.com	11
9.	R.Juveria Fathima	juvimissu2000@gmail.com	11
10.	Anirudh Varkhedi	anirudhvarkhedi@gmail.com	11

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

1

How many classrooms does your school have?

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)
I-A	95.00	10.00	10.53
II-B	95.00	9.00	9.47
III-C	105.00	9.00	8.57
IV-D	105.00	9.00	8.57
V-A	105.00	9.00	8.57
VI-B	115.00	9.00	7.83
VII-C	120.00	12.00	10.00
VIII-D	130.00	12.00	9.23
IX-A	130.00	14.00	10.77
X-B	130.00	14.00	10.77
TOTAL	1,130.00	107.00	

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?

Operator-owned 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	214	0	0	214
Public Bus	175	2	1	178
School Transport(Other than bus)	0	0	0	0
Public transport (other than bus, Metro, car pool)	297	2	0	299
Taxi four-wheeler	50	0	0	50

Taxi three-wheeler	56	0	0	56
Personal four-wheeler	78	14	0	92
Personal two-wheeler	289	34	2	325
Bicycle	414	0	0	414
On foot	552	11	5	568
Others (non-motorised)	0	0	0	0
SUB-TOTAL	2125	63	8	2196

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

5

How many students suffer from respiratory ailments ?

15

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.sujathaguneswari	sujathaguneswari@yahoo.com
2.	R.Gautham	r.gautam.sm@gamil.com
3.	E.N.Kannan	kannaen2007@yahoo.com

Administrative staff

Sno.	Name	Email
1.	Mrs.sujathaguneswari	sujathaguneswari@yahoo.com
2.	Aruna D Eknath	arunaklkrn@yahoo.co.in
3.	Hema Ramesh	hemarpai@gmail.com
4.	Vijay Kumar	vijaykvdrdo@gmail.com
5.	Chandrasekhar	resekhar59@gmail.com

Students

Sno.	Name	Email	Grade/Class
1.	lakshmianand	lakshmianand22@gmail.com	11
2.	Hamritha	mhamritha09@gmail.com	11
3.	Hinta Rose	rosehinta@gmail.com	11
4.	R.Juveria Fathima	juvimissu2000@gmail.com	11
5.	D.Devasurya	nanudevarajan@gmail.com	11
6.	Aditya Gautam	adi.anang19@gmail.com	11
7.	Amrutha	ammugshekhar@gmail.com	11
8.	Uthara Srinivasan	utharasrinivasan@gmail.com	11
9.	Anirudh Varkhedi	anirudhvarkhedi@gmail.com	11

Task 2: How much energy does your school consume?

1

Does your school have access to an electricity bill?

No

No documents uploaded by the school.

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)	11237	40453.20	3
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)	3.55	183.18	1
Piped Natural Gas (kilogrammes)	0	0.00	0
TOTAL	11240.55	40636.38	

No documents uploaded by the school.

4

What appliances does your school have?

	Number	Size	BEE Star Rating
Air Conditioners	10	1.5	5
Refrigerator	3	90	3

Microwave	1	17.7	5
Tube Lights	440	18	4
CFL Bulbs	0	0	0
LED Lights	0	0	0
Fans	227	72	3

Supporting Documents

1. 5 star.JPG
2. tv.jpg
3. fridge.jpg
4. biometric.jpg

Task 3: Is your school using any renewable sources of energy?

5

What is the average number of sunny days in your area?

135

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.	suathaguneswari	suathaguneswari@yahoo.com
2.	E.N.Kannan	kannaen2007@yahoo.com
3.	vijay kumar	vijaykvdrdo@gmail.com

Administrative staff

Sno.	Name	Email
1.	suathaguneswari	suathaguneswari@yahoo.com
2.	gautam	r.gautam.sm@gmail.com
3.	hema ramesh	hemarpai@gmail.com
4.	chandrasedkhar	resekhar59@gmail.com

Students

Sno.	Name	Email	Grade/Class
1.	lakshmianand	lakshmianand22@gmail.com	11
2.	Uthara	utharasrinivasan@gmail.com	11
3.	R Juveria Fathima	juvimissu2000@gmail.com	11
4.	D Devasurya	nanudevarajan@gmail.com	11
5.	Aditya Gautam	adi.anang19@gmail.com	11

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

Supporting Documents

1. 1bcd2c791709e71c5df2633c00d289f3.jpg

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

2125.00

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	0	0	0
Packaged/Bottled Nimboo Paani/ Lassi/ Flavoured milk	0	0	0

Packaged/Bottled Energy Drinks	0	0	0
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No documents uploaded by the school.

4 Does your school serve traditional Indian snacks?

No

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?

perk,good day,cream bun

8 Are your school events such as quiz shows, talent shows, debates sponsored by food companies/brands?

No

Supporting Documents

1. 20161118_132640.jpg



LAND

Task 1: Land Audit Team

Teachers

Sno.	Name	Email
1.	Sujatha Guneswari	sujathaguneswari@yahoo.com
2.	E.N.Kannan	kannaen2007@yahoo.com
3.	Aruna.D.Eknath	arunaklkrn@yahoo.co.in

Administrative staff

Sno.	Name	Email
1.	Sujatha Guneswari	sujathaguneswari@yahoo.com
2.	E.N.Kannan	kannaen2007@yahoo.com
3.	Aruna.D.Eknath	arunaklkrn@yahoo.co.in

Students

Sno.	Name	Email	Grade/Class
1.	Lakshmi Anand	lakshmianand22@gmail.com	11
2.	D.Devasurya	nanudevarajan@gmail.com	11
3.	Aditya Gautham	adi.anang19@gmail.com	11
4.	R.Juveria Fathima	juuvimissu@gmail.com	11
5.	Anirudh Varkhedi	anirudhvarkhedi@gmail.com	11
6.	Bindsi Sarangi	saranginiranjan@gmail.com	11
7.	pooja raju ganvir	poojarajuganvir@gmail.com	11
8.	Tanya James	jamestanya2000@gmail.com	11

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 ²)	19,911
Ground coverage area	5,921
Green landscaped area on-ground	8,111

Surface parking area	0
Play area that is paved/ concrete on ground	1,911
Play area that has grass on ground	0
Service Area on ground	52
Roof and terrace area	1,753
Green cover on exposed roof & terrace	0
Total built up/constructed area	7,472
Total no. of floors	5
Others	475

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	1493	15	1508
Animals	3	0	3

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. green cover %282%29.JPG
2. lotus.jpg
3. landscape.JPG
4. g cover 1.JPG
5. child.JPG



WATER

Task 1: Water Audit Team

Teachers

Sno.	Name	Email
1.	suathaguneswari	suathaguneswari@yahoo.com
2.	Gautham	r.gautam.sm@gmail.com
3.	Hema Ramesh	hemarpai@gmail.com

Administrative staff

Sno.	Name	Email
1.	suathaguneswari	suathaguneswari@yahoo.com
2.	Chandrasekhar	resekhar59@gmail.com
3.	Vijay Kumar	vijaykvdrdo@gmail.com

Students

Sno.	Name	Email	Grade/Class
1.	lakshmianand	lakshmianand22@gmail.com	11
2.	Manasa.S.H	manasa.sh00@gmail.com	11
3.	R.Juveria Fathima	juvimissu2000@gmail.com	11
4.	L.A.Prathiksha	lkbabu27@gmail.com	11
5.	D.Neha	nehadevendra6760@gmail.com	11
6.	U.S.Aarthi	srini_aarthi.2001@yahoo.com	11
7.	D.Devasurya	nanudevarajan@gmail.com	11
8.	Anirudh Varkhedi	anirudhvarkhedi@gmail.com	11

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	12
Toilet flushing	68
Personal cleaning	2

Washing clothes	0
Cooking	0
Cleaning Utensils	0
Washing Vegetables	0
Mopping floors	16
Gardening	45
Total	143

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

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?	No
If your school has an eco-club, do they have water component?	No
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?	No
Any other step taken for water conservation? (if Yes, please specify)	Yes

Supporting Documents

1. puri.jpg
2. pond %282%29.jpg
3. water2.jpg
4. sustainable-agriculture06%5B1%5D.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).

15

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?

30

9 How many hand pumps do you have?

0

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

40

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

	Girls	Boys	Common	Total
Number of toilets	36	37	0	73

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

12

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

7

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?

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.	E.N.Kannan	kannaen2007@yahoo.com
2.	Vijay Kumar	vijaykvdrdo@gmail.com

Administrative staff

Sno.	Name	Email
1.	Sujatha Guneswari	sujathaguneswari@yahoo.com
2.	Hema Ramesh	hemarpai@gmail.com

Students

Sno.	Name	Email	Grade/Class
1.	L.A.Prathiksha	lkbabu27@gmail.com	11
2.	U.S.Aarthi	srini_aarthi.2001@yahoo.com	11
3.	D.Neha	nehadevendra6760@gmail.com	11
4.	Lakshmi Anand	lakshmianand22@gmail.com	11
5.	R.Juveria Fathima	juvimissu2000@gmail.com	11
6.	D Devasurya	nanudevarajan@gmail.com	11
7.	Aditya Gautam	adi.anang19@gmail.com	11
8.	Anirudh Varkhedi	anirudhvarkhedi@gmail.com	11

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

Waste collection points in your school.

	Total No. of collection points	No bin	One bin	Two bins (wet & dry)	Three bins or more
Classrooms	48	0	48	0	0
Playgrounds	32	0	32	0	0
Common area (e.g. reception, corridors)	12	0	12	0	0
Staffroom	4	0	4	0	0
Laboratory	16	0	16	0	0
Canteen	0	0	0	0	0
Clinic/ Sick room	2	0	2	0	0
Library	2	0	2	0	0
Toilets	98	0	98	0	0
Others	0	0	0	0	0
Total	214	0	214	0	0

Supporting Documents

1. dustbin.JPG
2. 20161118_131040.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	2000
Kitchen waste	0
Paper	23
Plastic	0
Wood, glass, metal, classroom furniture	37.6
E-waste	0

Biomedical waste	0
Sanitary waste	5
Construction and Demolition (C & D) waste	0
Hazardous waste	0
Total Generated Solid Waste (in kilogram)	2065.6

Supporting Documents

1. survey2.JPG
2. 20161118_143847.jpg

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?













No

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)

Supporting Documents

1. disposing.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	2	2	0
VCR or DVD players	7	7	0
Refrigerators and freezers	3	3	0
Washing machines	0	0	0
Air conditioners	10	10	0
Heaters	0	0	0
Microwaves	1	1	0
Ovens	0	0	0

Toasters	0	0	0
Electric Kettles	2	2	0
Personal computers (CPU, mouse, screen and keyboard included)	85	85	0
Laptop computer (CPU, mouse, screen and keyboard included)	0	0	0
Notebook computers	0	0	0
Notepad computers	0	0	0
Printers	10	10	0
Copying equipment (Photocopiers)	2	2	0
Projectors	21	21	0
Whiteboards	6	6	0
Electrical & electronic typewriters	0	0	0
Pocket & desk calculators	4	4	0
Fax machines	2	2	0
Telex	0	0	0
Telephones	25	25	0
Pay telephones	0	0	0
Mobiles	0	0	0
Answering systems	0	0	0

Supporting Documents

1. indu.jpg
2. micro.jpg
3. x1.jpg
4. fridge.jpg
5. comp b.jpg

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. child.JPG
2. children.JPG
3. water activities.JPG

13a

What form do these awareness drives take?

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

Supporting Documents

1. survey.JPG
2. park.jpg



FEEDBACK

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

No

2 Have teachers from your school participated in teacher interactive workshops organized by the GSP team?

No

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?

Encourage more activities related to conservation of environment and create awareness among students about the importance of environment and its uses.

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?

Never

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?

8.00

Checklist of uploaded documents

1. Picture of 5 star appliances used by school
2. Photographs of lunch boxes
3. Pictures of Green Cover
4. Pictures of landscaped area
5. Pictures of bio-pesticides
6. Pictures of dustbins in classroom showing segregation at source
7. Pictures of playground with more than two dustbins
8. Picture of audit team weighing solid waste
9. Picture of types of solid waste generated
10. Pictures of housekeeping staff disposing different types of solid waste
11. Pictures of Electronic items used by school and storage of non-working electronic items
12. Pictures of various school initiatives e.g. rally, debate, street play, art competition, etc
13. Pictures of respective audit teams doing survey