

WINNING ENTRY

CENTRE FOR SCIENCE AND ENVIRONMENT - GREEN SCHOOL AUDIT

*Applicant: Satya Bharti Government Primary School,
Salgawali, Achrol, Rajasthan*

Water chapter

Task	Max points	Points scored
Water consumption	15	0
Sanitation facilities	15	15
Conservation practices	10	9
Rainwater harvesting	25	25
Waste water reuse/recycle	30	13
School initiatives	10	10
Total score	100	71.27

Details provided by the school

Water consumption

Standard consumption Per capita/Per day	Day Scholar	Day Boarding	Residential
	13 - 17 litres	17 - 23 litres	125 - 135 litres

Water consumption (per capita)	2.5
--------------------------------	-----

Water conservation practices

The school scores 1 point only if it follows a practice in totality.

Install float valves in all tanks to stop overflow	1
----------------------------------------------------	---

Plug leakages in water pipelines and	1
--------------------------------------	---

Sanitation practices

Load means number of people using one unit of the facility.

Total strength:	4009
-----------------	------

Ideal load	
------------	--

Day Scholar	Day Boarding	Residential
		1

taps in the school		g			
Install drop taps at all outlets	1	Number of water closets:			107
Set up drip or sprinkler irrigation systems in school	0	45	35	25	80
Put dual flushes for all water closets or alternative flush system	1	Number of urinals:			80
Keep hand wash/soap near ablution taps	1	50	40	30	90
Ensure toilets are cleaned 4-6 times a day	1	Number of drinking water taps:			90
Install flush system on urinal	1	50	50	50	73
Fix exhaust fan or adequate ventilation in toilets	1	Number of ablution taps:			73
Use of bio-disinfectant and deodorant	1	Rainwater harvesting			
		Harvesting potential = Area x Average annual rainfall x Run-off coefficient			
		Run-off coefficients: Rooftop 0.85; Paved 0.70; Unpaved 0.35			
		Rooftop Paved Unpaved			
		Land area in square meters:			
		20500	28000	2176	
		Average annual rainfall in millimetre:			No data
		Points scored			
		15	7.5	2.5	
		Maximum points			
		15	7.5	2.5	
		Waste water reuse/recycling			
Most schools use waste water for gardening; some use it in toilets and for cleaning.					
		0000			

potential in litres of water per day:	Its
Actual waste water reuse in litres of water per day:	4000 Its

Final Scores

Water chapter

Air chapter

Land chapter

Energy chapter

Waste chapter

Task	Max points	Points scored
Oxygen balance	10	3
Air pollution levels (urban)	10	8
RSPM (rural)	10	NA
Health of School vehicles	25	23
Commuting practices	30	20
Ventilation in rooms	15	13
School initiatives	10	10
Total score	100	77.19

Details provided by the school

Commuting practice			
Total strength of the school:			4009
	Public transport	Personal vehicles	Non-polluting transport
Per cent people travelling by:	80	1.4	18.6

Final Scores

Water chapter

Air chapter

Land chapter

Energy chapter

Waste chapter

Task	Max points	Points scored	Details provided by the school
------	------------	---------------	--------------------------------

Green area	10	7
Tree canopy area	10	8
Land use	10	10
Biodiversity	40	26
Pesticide use	20	20
School initiatives	10	10
Total score	100	80.88

Green area

Total land area in square meters:
For 33 per cent of total land area in square meters under green cover a school gets 10 points.

41360

Points scored by the school: 7

	Primary School	Senior Secondary School	Composite School
Standard built area	1.8	3.4	2.6
Standard playfield area	1000	10000	10000

Per capita built area in school: 3.2

Area of the play field: 9726

Biodiversity

Standard in number of different species: 100 species of plants & 50 species of fauna

Number of different plant species present in school: 62

Number of different fauna (animals, birds, insects) species present in school: 29

Oldest tree approximate age: No data

Endangered specie: Snake

Final Scores

Water chapter

Air chapter

Land chapter

Energy chapter

Waste chapter

Task	Max points	Points scored
Energy consumption	30	30
Sourcing of energy(urban)	15	4.567
Best practices	10	9
Energy saved	35	35
School initiatives	10	10
Total score	100	88.567

Details provided by the school
Energy consumption

Total strength: 4009

 Per capita/per day energy consumption in Megajoules: 7.01 MJ
(1kwh = 3.6 Megajoules)
Sourcing of energy

Percent sourced from fossil fuels: 94%

Percent sourced from grid supplied electricity: 3.33%

Percent sourced from wood/biomass:

Percent sourced from renewable sources: 0.8%

Special comments: Use of Solar 0.8%

Energy conservation practices

The school scores 1 point only if it follows a practice in totality. The third practice is worth 3 points.

Do you turn off the lights when not required?	1
Are the tubelights and bulbs in your school clean?	1
How many Tubelights/CFL tubes does your school have? Number of Tubelights/CFLs / Total number of lighting points x 100 x 0.03	2
Are the filters of air conditioners cleaned every month?	1
Are the air conditioners in your school set to 27 degrees celsius, which is considered to be the most suitable temperature for the human body?	1
Are refrigerators kept away from direct sunlight and sources of heat?	1
Are the refrigerators in your school properly sealed?	1
Are computer monitors in your school turned off when not in use?	1

Task	Max points	Points scored	Details provided by the school		
Quantity produced	15	15	Solid waste production		
Solid waste collection	15	15	Day scholar school	Day boarding school	Residential school
Reuse and Recycling of solid waste	40	27.24	Standard	150 grams	200 grams 350 grams
Solid waste	20	0			

disposal			Solid waste produced	0.316gms
School initiatives	10	10	Solid waste segregation by per cent produced	
Total score	100	65	By students, when they dispose solid waste:	100%
			By house keeping staff, when they collect solid waste:	100%
			Solid waste reuse/recycle in per cent	
			<i>Solid waste sold or given to the 'Kabadiwala' is considered to be reused/recycled</i>	
			Per cent students using second hand books:	38.96%
			Composting in school:	Yes
			Paper recycling in school:	Yes
			Plastic waste per cent reused/recycled:	62.5%
			Paper waste per cent reused/recycled:	100
			Silt waste per cent reused/recycled:	90%
			Food waste per cent reused/recycled:	100
			Horticultural waste per cent reused/recycled:	75.5
			Wood/glass/metal scrap per cent reused/recycled:	50
			Electronic/computer consumables per cent reused/recycled:	83.3