



# **GSP Award Ceremony**

## **Feb 7, 2018**





# We are the Change

**Awareness: learn**

**Action: do**

**Impact: measure**





# Key elements

- Green School Audit is **online**
- No registration or participation fee
- **CSE rates the school** – you send the report to us and we assess you, based on your school score and our interactions with you
- Focus areas - **solid waste and water and sanitation**
- Benchmark performance. Improve your practices based on **performance report**
- Audit for **Primary Schools**
- Free GSP **Mobile App**
- **Digital Certificate for GSP school team**
- **School visits** for data validation and video documentation
- **Excursion trip** for winners





## KEY element

- Recognise schools who have **demonstrated change over the past year and improved** their management of resources

Green School is about **our practice.**

**We walk the talk**

**We are the change**





# GSP Audit 2017 - snapshot

Category	Number of Schools
Green (70% and above)	54
Yellow (50%-69.9%)	357
Orange (35%-49.9%)	640
Red (below 34.9%)	142





# GSP Audit 2017 - snapshot

- 29 states and 5 UTs participated in the GSP Audit
- For the past two years, Punjab has been the leading state with highest participation
- This year, there is a new **Number 1!**





# Report Card

- 4000+ schools are part of the GSP network
- But many others are using this tool to audit and **to bring change**

Year	Registrations	Submissions	% (increase in submissions)
2015	1418	534	
2016	2518	700	31%
2017	2863	1193	70%





## Recap

- Total schools registered: 2863
- Total schools who submitted data; 1200 schools (700 submitted last year)
- Total schools assessed as being above 70 per cent: 54
- Of these 54, verification, interviews were conducted; 34 shortlisted
- **Final: 13 made it!**







# We will walk the talk

## We will be the change

- This has to be our motto
- We know that we can make a difference with our actions
- This is learning by doing
- **Real change. Measurable and actionable**





# Report card: Change is in the air

- **More schools are adopting solar energy; not for show but for use**
- 119 schools have solar
- 116 solar heaters of which 42 both solar energy and water heaters
  
- **More schools are harvesting the raindrop; conserving water**
- 434 schools have Rain Water Harvesting,
- 127 store it
- 176 schools recharge;
- 125 do both;
- **But we find only 20 have filter units: UNFINISHED AGENDA**





# We are the change

## More schools are waste-managers

- 917 schools segregate waste at source – **huge number**
- 581 schools practice composting, both natural and mechanical
- 403 schools send e-waste to authorised dealer/ dismantler/ manufacturer
- 269 schools treat waste water





# Future is ours to make

- We know that we have a crisis
- Air is polluted; rivers are dying; garbage is leading to bad health
- But what we are showing is that schools will be living demonstrations and places of learning of what can the alternative future be
- **This future is ours to make**





# CHANGEMAKERS



# Changemaker

## Kendriya Vidyalaya Ottapalam, Kerala

<b>GSP Audit 2017</b>	<b>2017</b>	<b>2016</b>
Category	<b>Green</b>	<b>Yellow</b>
Window Floor Ratio	<b>33.92 per cent increase: Ventilators are now opened partially</b>	26.7 per cent
Green Cover	<b>Status same as in 2016 but planted 500 potted plants in five different school gardens Partnered with KVK and Krishi Bhawan for seeds</b>	45 per cent
Solar Energy	<b>400 Kwh: added more one more solar panel of capacity half KWh</b>	202 KWh
Electrical Energy	<b>100 LEDs, 40 CFLs, 20 Tubelights (phasing out tubelights)</b>	0 LEDs, 0 CFLs, 250 tubelights





# Changemaker

## Kendriya Vidyalaya Ottapalam, Kerala

GSP Audit	2017	2016
Biogas Energy	Used in the chemistry lab for experiments	No biogas plant
Composting	Pit composting, bio-bin, vermi composting. 7 kgs compost generated every month	Pit composting
Water Harvesting	Renovated and redesigned in 2016 and 2017	Installed in 2004, but not maintained





# Changemaker

## Delhi Public School, Patna

GSP Audit	2017	2016
Category	Green	Yellow
Mobility: SMV	97 per cent	86 per cent
Air Quality Monitoring system	Portable system, that students have been taught to use	
Food	Stopped distribution of packaged food; Suggested menu included in the almanac	Yes
Land- Green area	51 per cent	43 per cent
Composting	Vermi composting helps generate around 133 kgs of compost	Composting helps generate compost of 50 kgs
E waste	Authorised dealer – Karo Sambhav (NGO)	-







# Changemaker

## Delhi Public School, Patna

GSP Audit	2017	2016
RWH- area harvested	<b>70 %; storage + recharge; cleaned twice a year</b>	20 %; Storage only
Recharge	<b>Trenches + filter unit constructed for RW recharge</b>	-
Measuring the depth of the water table	<b>Water level data pre and Post monsoon monitored</b>	-





# Changemaker

## Kendriya Vidyalaya Army Cantt, Pangode, Kerala

GSP Audit	2017	2016
Category	Green	Orange
Energy	<b>2 out of 8 tubelights used in 90 per cent classrooms. 16 LEDs, 10 CFLs, 376 tubelights; phasing out tubelights</b>  <b>Have cut down electricity bill by 55 per cent</b>	No energy saving policy; 0 LEDs, 4 CFLs, 470 tube lights
Energy	<b>Biogas plant in school used in pantry</b>	No biogas plant
Land	<b>50 per cent; fruit garden, vegetable garden, nakshatra garden added</b>	26 per cent; medicinal garden only





# Changemaker

## Kendriya Vidyalaya Army Cantt, Pangode, Kerala

GSP Audit	2017	2016
Water	<p><b>Rain water recharge - almost 100 per cent</b></p> <p><b>Storage tank installed in 2017, capacity - 5,000 litres</b></p> <p><b>Used for gardening only</b></p>	No Storage. Only recharge
Waste	<p><b>5 vermi composting tanks (with vermi wash unit); one compost pit</b></p> <p><b>Total compost per month: 240 kgs</b></p>	No composting





# Changemaker

## The Fabindia School, Pali, Rajasthan

GSP Audit	2017	2016
Category	Green	Yellow
Solar Energy	13.5 kw	3.5 kw
Food	Stopped distribution of packaged food in functions	Yes
Land	50 per cent, Organic farming begun, plantation in school forest	25 per cent
RWH - area harvested	Unpaved + Rooftop	Unpaved
Waste water system	RO Water used in toilet	-
Waste segregation at source	One bin – 2; Two bin for segregation- 29	One bin – 37; Two bin- 2; Three bin 0
Composting	Composting started in 2017, 12 kgs per month	absent in 2016





# Changemaker: Residential

## Motilal Nehru School of Sports, Rai

GSP Audit	2017	2016
Category	Green	Green
Solar Energy	3200 KWh Solar, 150 more panels added	3100 KWh
Electricity drawn from diesel generator	After addition of solar panels, diesel consumption decreased to 300 litres	500 Litres
Rain water Harvesting	New Recharge structures added (22,000 litres)	Recharge well
Food and waste	Manure 8500 kgs (school's dairy farm) + horticulture waste 1500 kgs  Shared with community	1500 kgs horticulture waste only





# New Entrant: Choithram School, Indore, Madhya Pradesh

- All vehicle have PUC; 91 per cent population uses SMV, 6 per cent NPT, 2 per cent Private
- School has an Air quality Monitoring equipment
- 0 LEDs, 0 CFLs, 40 Tubelights. (Post Audit proposal passed to install LEDs)
- Solar water geysers
- No promotional food item distributed in school
- Lunch in school is served in steel utensils only
- Green area: 79 per cent
- RWH recharge structure, cleaned pre monsoon
- 15.26 per capita per day consumption of water: within range
- 5 lakh litres of waste water treated and reused
- 50-60 kgs compost generated per month through '*khamba composting*'
- E waste given to an authorised dealer





# New Entrant: New Digamber, Indore, Madhya Pradesh

- Have bought 9 BS-IV buses
- Mobility: SMV – 96 per cent; NPT – 2 per cent
- Solar Panels used for street lighting, **Next year: should go solar to a greater extent**
- All appliances BEE 5 star or 3 star rated
- Green area – 72 per cent
- No provision for selling packaged food; Mid-Day Meal for all students, as a school's initiative
- Waste water treatment system present (though urban school)
- RWH -- 90 per cent
- Load on DWT high, PCPD lower than the range (13l – 17l): **Unfinished agenda**
- Segregation at source - 2 bin
- PCPD – 25 gms; 52 per cent wet waste; 48 per cent waste recycled; C&D waste, E-waste - **100 per cent recycled!**
- **Sanitary waste is incinerated**
- 82 kgs compost generated per month





# Categories

Air, Energy, Food,  
Land, Water, Waste







## Category – Air

**Kendriya Vidyalaya 1, RCF, Kapurthala, Punjab**  
(Old School: won 'Efficient Composter' 2015)

- Have scored full in Air section
- The school does not own any vehicles
- 99 percent students and staff commute by **Non-polluting mode of transport** – Bicycles or on foot  
(Improvement from 93 per cent in 2015)
- The Window Floor ratio – 10 per cent *above the minimum (5 per cent)*





**Category – Energy**  
**East Point School, Delhi**  
(Old School, Green in 2016)

- **More than half (62 per cent) of energy requirement in school met by Solar (reduction in bill)**
- Use of CFLS and LEDs (141)- more than the use of tubelights (74)





## Food - Category

### Pragyan School, Greater Noida, Uttar Pradesh (New GSP school)

- School MDM initiative for all
- Food menu plan is sent to parents, a month in advance
- No UPPF sold or distributed and no sponsors either
- Height and weight of students is measured bi-annually
- Organic farming – whole school approach
- Primary section practice gardening in school while senior students sell plant saplings and organic manure during PTM





## Category - Land

**DRV DAV Public School, Phillaur, Punjab**  
(Old school, Yellow category in 2016)

- Green Area – 70 per cent
  - (The school has purchased 16200 sq mtr land this year and that is also a green covered area: certificate provided)
- Biodiversity – total 182 species of plants and animals reported





## Category- Water

**Gyanodaya Public School, Damoh, Madhya Pradesh**  
(Old School: Green and # 4 Ranked in 2016)

- Improvement from last year:
  - The recharge filter unit has been changed
  - 100 per cent area under RWH!
- School has capacity for 600 KLD Sewage Treatment Plant (600 meters from school)
- Mechanism used is activated sludge process
- Both quality and quantity is monitored and improvement observed





## Category – Waste

### Indirapuram Public School, Pratap Vihar, Delhi (Yellow category in 2016)

- **Efficient waste segregation**
- **Waste recycling and disposal mapped for every category**
- 405 kgs of wet waste generated, each 3-chambered compost pit generates 40 kgs per month
- 202 kgs of paper waste sent to recycling unit and other dry/ recyclable waste used in craft
- 5 kgs of E waste per month given to the authorised dealer
- **GSP Audit 2017 waste analysis** showed - Total waste generated increased: 202 kgs newspaper subscribed by students now collected by school unlike in 2016





## State Award: Andhra Pradesh

- Highest registration of schools who have participated in the GSP audit: 547
- Highest number of submissions: 167
- Workshops, trainings and really building a culture of green schools in the state





# Green Schools

- These are schools who have made it to the final list
- These are our green schools, who we now stay with us; win an award next year and keep improving so that they become models for the whole country to follow







# List of Green schools at the Award Ceremony

- Army Public School Delhi Cantt, South West Delhi, Delhi
- Ashok Memorial Public School, Faridabad, Haryana
- ASN Senior Secondary School, East Delhi, Delhi
- Bal Bharati Public School, Manesar, Gurugram, Haryana
- Bal Bharati Public School Noida, Uttar Pradesh
- Kendriya Vidyalaya Sikh Lines, Meerut, Uttar Pradesh
- Montfort Inter College, Lucknow, Uttar Pradesh
- Mount Litera Zee School, Moga, Punjab
- Nirmal Bhartia School, South West Delhi, Delhi
- Queen'S Valley School, South West Delhi, Delhi
- Rajkiya Kanya Madhya Vidyalaya Sasaram, Rohtas, Bihar
- Sachdeva Global School, South West Delhi
- Salwan Public School, Ghaziabad, Uttar Pradesh
- Shri Ram Centennial School, Indore, Madhya Pradesh
- SRT Dav Public School, Bilga, Jalandhar, Punjab
- St. Edmund's School, Jaipur, Rajasthan
- St.George's School, South Delhi, Delhi
- Swarnprastha Public School, Sonipat, Haryana
- The International School Agra, Uttar Pradesh
- The Shri Ram School, Aravali, Gurugram, Haryana
- The Shri Ram School, Mousari, Gurugram, Haryana
- Vidya Devi Jindal School, Hissar, Haryana
- Zila Parishad High School, Pathikonda, Chittoor, Andhra Pradesh





# Sit and Draw Competition Winners





**Thank You**