



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

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







# Changemaker

## Delhi Public School, Patna

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

| <b>GSP Audit</b>            | <b>2017</b>   | <b>2016</b>                                 |
|-----------------------------|---|---|
| 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;<br>Two bin for segregation- 29                     | One bin – 37;<br>Two bin- 2;<br>Three bin 0 |
| Composting                  | Composting started in 2017,<br>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,<br>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<br><br>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

- |    |   |                                    |
|----|---|------------------------------------|
| 1  | Army Public School Delhi Cantt.         | South West Delhi, Delhi            |
| 2  | Ashok Memorial Public School            | Faridabad, Haryana                 |
| 3  | ASN Senior Secondary School             | East Delhi, Delhi                  |
| 4  | Bal Bharati Public School               | Gurgaon, Haryana                   |
| 5  | Bal Bharati Public School Noida         | Gautam Buddha Nagar, Uttar Pradesh |
| 6  | Father Agnel School                     | South Delhi, Delhi                 |
| 7  | Father Agnel School                     | Noida, Uttar Pradesh               |
| 8  | Hayde Heritage Academy                  | Pauri Garhwal, Uttarakhand         |
| 9  | Kendriya Vidyalaya IMA Dehradun         | Dehradun, Uttarakhand              |
| 10 | Kendriya Vidyalaya No -2 Jhansi Cantt   | Jhansi, Uttar Pradesh              |
| 11 | Kendriya Vidyalaya Sikh Lines           | Meerut, Uttar Pradesh              |
| 12 | Montfort Inter College                  | Lucknow, Uttar Pradesh             |
| 13 | Mount Litera Zee School                 | Moga, Punjab                       |
| 14 | Nirmal Bhartia School                   | South West Delhi, Delhi            |
| 15 | Queen's Valley School                   | South West Delhi, Delhi            |
| 16 | Rajkiya Kanya Madhya Vidyalaya, Sasaram | Rohtas, Bihar                      |
| 17 | Sachdeva Global School                  | South West Delhi, Delhi            |
| 18 | Salwan Public School                    | Ghaziabad, Uttar Pradesh           |
| 19 | SRT DAV Public School                   | Jalandhar, Punjab                  |
| 20 | St. Edmund's School                     | Jaipur, Rajasthan                  |
| 21 | St. George's School                     | South Delhi, Delhi                 |
| 22 | Swarnprastha Public School              | Sonapat, Haryana                   |
| 23 | The International School                | Agra, Uttar Pradesh                |
| 24 | The Pinnacle School                     | South Delhi, Delhi                 |
| 25 | The Shri Ram School, Mousari            | Gurgaon, Haryana                   |
| 26 | The Shri Ram School, Aravali            | Gurgaon, Haryana                   |





# List of Green schools

- |    |   |                                    |
|----|---|------------------------------------|
| 27 | Vidya Devi Jindal School                        | Hissar, Haryana                    |
| 28 | Delhi Public School                             | Patna, Bihar                       |
| 29 | Kendriya Vidyalaya Army Cantt. Pangode,         | Thiruvananthapuram, Kerala         |
| 30 | Kendriya Vidyalaya Ottapalam                    | Palakkad, Kerala                   |
| 31 | The Fabindia School                             | Pali, Rajasthan                    |
| 32 | East Point School                               | East Delhi, Delhi                  |
| 33 | Gyanodaya Vidya Mandir                          | Damoh, Madhya Pradesh              |
| 34 | Indirapuram Public School, Pratap Vihar         | Ghaziabad, Uttar Pradesh           |
| 35 | Kendriya Vidyalaya - 1, RCF                     | Kapurthala, Punjab                 |
| 36 | Pragyan School                                  | Gautam Buddha Nagar, Uttar Pradesh |
| 37 | DRV DAV Centenary Public School                 | Jalandhar, Punjab                  |
| 38 | Motilal Nehru School of Sports                  | Sonapat, Haryana                   |
| 39 | Choithram International                         | Indore, Madhya Pradesh             |
| 40 | New Digamber Public School                      | Indore, Madhya Pradesh             |
| 41 | Bharatiya Vidya Bhavans Atmakuri Ramarao School | Hyderabad, Telangana               |
| 42 | Kendriya Vidyalaya Khammam                      | Adilabad, Telangana                |
| 43 | Kendriya Vidyalaya No-1                         | Bangalore Urban, Karnataka         |
| 44 | Kendriya Vidyalaya WCL New Majri                | Chandrapur, Maharashtra            |
| 45 | Kendriya Vidyalaya Wellington                   | Nilgiris, Tamil Nadu               |
| 46 | KGBV KVB Puram                                  | Chittoor, Andhra Pradesh           |
| 47 | Mahindra World School                           | Kanchipuram, Tamil Nadu            |
| 48 | Mount Litera Zee School Jamshedpur              | West Singhbhum, Jharkhand          |
| 49 | Pakyong Junior High School                      | East Sikkim, Sikkim                |
| 50 | Raley Junior High School                        | East Sikkim, Sikkim                |
| 51 | Shri Ram Centennial School                      | Indore, Madhya Pradesh             |
| 52 | Takshshela Junior College                       | Ujjain, Madhya Pradesh             |
| 53 | Z.P.H. School                                   | Srikakulam, Andhra Pradesh         |
| 54 | ZPHS, Pathikonda                                | Chittoor, Andhra Pradesh           |





# Sit and Draw Competition Winners





**Thank You**