



एक कदम स्वच्छता की ओर



Gram Panchayat “Lana Bhalta”

A Model Panchayat for Waste Management

**RURAL DEVELOPMENT DEPARTMENT
HIMACHAL PRADESH**

About GP “Lana Bhalta”



- GP is nestled in the beautiful and serene valley of Rajgarh (Peach valley of India) in Himachal Pradesh. 115 kms away from Shimla.
- GP have taken commendable initiatives to ‘Go Green’.
- GP is an excellent S&LWM model carried out with the help of PPP.
- Pollution in the GP, be it of Air, Soil, Water or Sound, is managed with state of the art means and innovative methods and machines uniquely designed by the ‘Sevadars’ of Divine Valley to retain its tranquility.



GP Statistics



| | |
|--------------------------------|------|
| No of Revenue Villages | 9 |
| No of wards | 7 |
| No of Households | 333 |
| No. of SC families | 172 |
| No. of BPL families | 26 |
| Total Population | 1561 |
| No. of Government Schools | 8 |
| No. of Private Schools | 3 |
| No. of Colleges | 2 |
| No. of Universities | 1 |
| No. of Veterinary Dispensaries | 1 |
| No. of Health institutions | 2 |
| No. of NGOs (Trusts/MM/YM) | 7 |

GP Sanitation Statistics



| | Before 2005 | In 2015 |
|---|--------------------|----------------|
| No of Households | | 300 |
| No. of Households with toilet | | 300 |
| % Coverage of IHHL | 10% | 100% |
| No. of Bio-gas Plants | 0 | 52 |
| No. of Compost pits | 0 | 170 |
| No. of Chulah Geiger | 0 | 65 |
| No. of Soak Pits | 0 | 333 |
| No. of Roof Top Water Harvesting structures | 0 | 95 |

Sanitation Awards won by the GP



- Nirmal Gram Puraskar in 2009.
- Maharishi Valmiki State Sanitation Award:
 - Block Level 1st in 2013
 - District & Division level 1st in 2014

S&LWM in the GP



- The waste generated by the population in the GP is approx 800 to 1000 kg/ day.
- **2 types of Dust Bins** for WET WASTE & DRY WASTE Collection.

- Solid Waste is further collected, with a help of a trolley, to Central Waste Management Unit.
- **Dichlorvos 76 % ec** is sprayed onto entire waste to make it bacteria free.
- Thereafter this waste is again manually segregated in various containers, their weight is measured and recorded in Register of the Unit and then is decomposed or sold to Trash agents.
- Dry Waste is segregated into 5 categories:
- **Naturally degradable Waste:** Food items, Paper, Plants, Vegetation & Grass
 - **Oily waste:** It is first put in a **Rotary Drum Composter** having a capacity of approx 175kg/ day, then dried in a **Dryer** and then mixed with Wood Powder and Cow dung mixture which is again put in Rotary Drum Composter. This mixture gets converted to **Manure** in a week's time which is used in our Gardens.
 - **Oil free waste:** the raw vegetables are converted into small pieces by a **Crusher**. Other oil free food, like cooked rice, roti etc are transported by a closed trolley to a **Vermi composting** pit where earthworms are put above it and covered with wet jute cloth. In a span of 60 to 80 days, the waste gets converted to Manure.

S&LWM in the GP



- **Recyclable Waste:** Glass, Tin, Paper, Shoes etc.
- All these are segregated manually accurately and sold to Trash buyers.
- **Reusable Waste:** Building Material, stones, Bricks, rubble etc. is put into a separate bin and further used for construction of upcoming buildings/ complexes at Baru Sahib.
- **Mixed Waste:** Trashed Clothes, Tetra Packs, Waste Plastic, Toys etc. they are sold by weight for recycling to Trash Buyers.
- **Toxic Waste:** Medicines, Paint, Bulbs, Fluorescent Tubes, Spray Cans, Shoe Polish, Disinfectant containers etc.
- This waste is quite hazardous therefore is very carefully managed. Bio Medical waste at Akal Charitable Hospital is segregated initially in various categories by colour coded bins. Thereafter it is sprayed (as all other waste is done) with **Dichlorvos 76 % ec** and the dry Toxic waste is burnt in an **Incinerator (again one custom designed for Baru Sahib)**. Liquid Toxic waste mixed with caustic solution is put in a cemented pit. Disinfectant containers, Spray cans, Paint cans, shoe polish cans etc are immersed in 2% bleach solution for 48 hours, after which they are spray with **Dichlorvos** and sold by weight to recyclers.
- E waste is sprayed with 2% bleach solution and then sold.

S&LWM in the GP



- **Sanitary Pads** have a separate bin in the Academy where they are transferred to **Incinerator** by a trolley and burnt.
- **Segregation Process:** It is done manually to maximum possible accuracy. This model is only one in Himachal Pradesh where proper safety measures for workers are taken. They are equipped and protected with masks, gloves, Gum boots etc. Besides, time to time medical checkup of the workers is done.
- **Compost Machine:** we have latest machine that as per defined process converts food waste into manure.
- **Incinerator Disposal System:** This is one of the best technically designed Gas free **Ventury Incinerator**. The smoke emitted from it is not hazardous as before releasing, it is chemically treated. The Incinerator is constructed at a height and is bordered for protection. The pollution department inspects the area regularly and has rated us as one of the best zones in the State.
- The Incinerator Ash is collected and put in a covered cemented pit that is built at a height away from population and any of the pipelines in the region. No water logging happens in this area during monsoon.

S&LWM in the GP



- **Earth Worm Farming:** Our dedicated team at Baru Sahib, with zeal of giving best to Divine Valley, keep constantly evolving with holistic solutions that are intended for inclusive growth. We have brought a specie of Earthworm from Madhya Pradesh which decomposes organic matter in 120 days and other local specie decomposes in 100 days. The **cross breed** of both species we got does the same task in 40 days which is the least calculated time for breaking compost material. This is another innovation of Baru Sahib. These earth worms are used in our Vermi composting unit / pit.
- **Vermi composting** pit where earthworms are put above it and covered with wet jute cloth. In a span of 60 to 80 days, the food waste mixed with paper gets converted to Manure.
- **Syringe Crusher (Innovated at Baru Sahib):** This is a unique model, crafted at Baru Sahib. The Unit Comprises of a hollow pipe with an opening at the side from where the disinfected / treated plastic syringes are put in pipe. Then they are crushed by a solid metal pipe with a thrust, which is governed by a lever. The crushed plastic material is expelled from another opening at the bottom and then sold as per weight.
- The above practice ensures to restrict misuse of syringes; secondly they acquire very little space when carried down.

S&LWM in the GP



- **Autoclave / Microwave Unit:** This is used to treat Bio medical waste of category 3, 4, 6 and 7. Daily the waste is disposed where it is kept for about 15 - 20 minutes in the machine in a temperature measuring 121 degree Celsius. This kills all the micro organisms present in the waste.
- **Sharp Disposal:** Needles, blades, glass etc. colour coded as red in hospitals are disposed in this unit by two methods.
 - First they are immersed in 2% bleach solution for 48 hours, then put in Autoclaving machine for disinfecting. They are put in brick making mould above a layer of cement, then further covered with layer of cement again. After drying these bricks are used near Incinerator or others places.
 - First they are immersed in 2% bleach solution for 48 hours, then put in Autoclaving machine for disinfecting. Then put in **Sharp Disposal** Unit which is a cemented pit constructed at a height at which is away from vicinity of any of the pipelines. A four inch covered pipe is put in this pit where all these sharp items are put and is covered with a heavy lid.
- **Maintaining records:** the waste disposed in all above categories is recorded with detailed accuracy. The disposal areas are guarded properly and cleanliness of these demarcated areas from normal population and animals too is maintained under strict norms.



Photo Gallery

S&LWM Plant in GP



Water filtration Mechanism

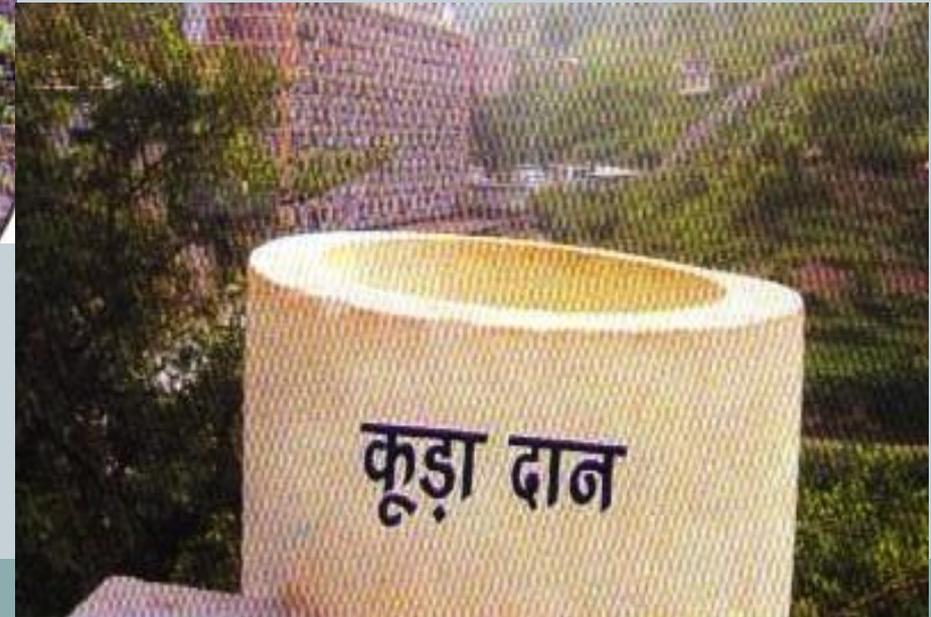


IEC Messages in Schools/ AWs/ GPs



ग्राम पंचायत में लाना भ्रष्टा में आने वाले आंगनबाड़ी केंद्रों में जानकारी देते हुये चार्ट के आन्तरिक दृश्य

Dustbins in Schools/ AWs/ GPs





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Thanks

Swachh Bharat Mission-Gramin

**District Rural Development Agency, Sirmaur
Himachal Pradesh**