

PRONTO BIO-TOILET, WOCKHARDT FOUNDATION

• Background

According to UNICEF & WHO estimates – 1/7th of the World population still openly defecate in the absence of Toilets. Of these, 60% live in India. The Global impact of poor sanitation on Human & Infant Health is profound. It is estimated that 10 Million Children die under the age of 5, globally yearly due to improper Sanitation. Of these, 2.4 Million Children belong to India.

Wockhardt Foundation emulates its parent organisation Wockhardt's priority on education, hygiene and healthcare that enhance quality of life. Wockhardt Foundation's focus on sanitation is built around its belief that lack of toilets is more than just a sanitation problem. Wockhardt eyes the bigger problem: children fall ill due to the germs spread from open defecation resulting in their absence from school, hindrance in learning and growing.

Wockhardt Foundation has launched the '**Pronto Bio-Toilet**' Programme to improve hygiene among the masses and curtail ailments caused on account of dearth of proper sanitation facilities in the country. **Pronto Toilet movement** aims to build low cost individual sanitation solutions at schools and communities to accomplish the vision of clean India.

The Pronto Bio-Toilet is a futuristic solution for a challenging national problem of disposal of solid human waste in an eco-friendly, economical and hygienic manner. Owing to its wide adaptability, efficient functioning and environment friendly nature, the Bio Toilet is capable of alleviating the issues concerning open defecation in India.

• Location, Date

Pan India, 2015

• Areas

Rural and Urban

• Stage/Scale

Pilot

• Objective of the assignment

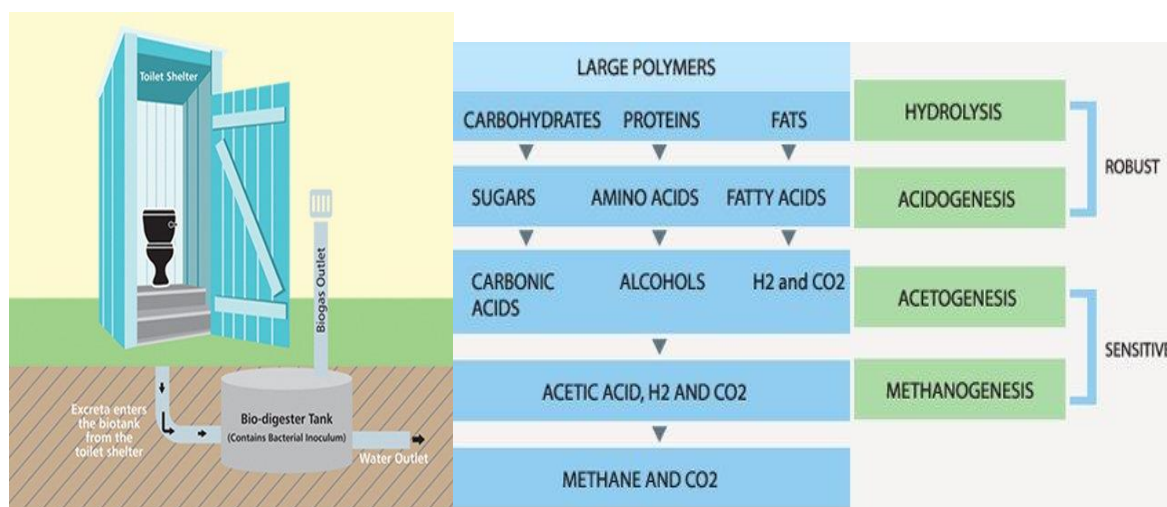
To ensure Pure Waste Discharge from a toilet, thus playing a critical role in preventable healthcare

• What was done

- Initially, two bio-toilets were installed at the Bharat Nagar slum in Mumbai, two more on the national highway to Jaipur which are being used by the public, and another two were installed at a school in Haryana. As many as 130 such toilets were installed in Karoti village, 110 km from Mumbai, and few in Bangalore.
- In both Pronto Toilet and Pronto Bio-Toilet movements, apart from toilet construction, the company also gives emphases on generation of awareness among citizens about sanitation and its linkages with public health. These schools have got environmentally trendy toilets with technology, installation and maintenance support of Wockhardt

Foundation. Similar partnerships have created sanitation solutions in places like Jhabua in Madhya Pradesh, Rajahmundry in Andhra Pradesh and many other places in India.

- The features of the toilet includes:
 - 100% sludge – Free disposal of human waste
 - Eco Friendly - Decomposes solid waste to water and biogas
 - Eliminates need for expensive waste treatment
 - Clean discharge - The water discharged from the Pronto Bio-Toilet is colorless, odorless and devoid of solid particles
 - 100% hazard free – On a dry weight basis, 90% of the solid waste is reduced
 - 100% maintenance free – Bio-Digester tanks do not require any form of maintenance
 - No repeat dosing of bacterial inoculum
 - Easy to transport and install in any terrain
 - Plays a critical role in preventable healthcare



• Impact

Workhardt has already built 898 toilets across India under this programme.



- **Challenges and Issues**

Not available

- **Innovation**

The bio-digester technology, developed by the Wockhardt Foundation, uses the psychrophile bacteria, which is found in Antarctica, to break down human excreta into usable water and gas through an anaerobic process. The technology of using the bacteria was tested by the Defence Research and Development Organisation (DRDO) in Antarctica. Also the residual water from Pronto Bio-Toilet

- Is colorless, odorless and devoid of any solid particles
- Requires no further treatment / waste management
- Can be used for irrigation purposes

- **Lessons learnt**

With the successes and learning, Wockhardt Foundation is setting even bigger targets with a grand mix of modern technology and innovative partnerships for benefit of common people, environment and India.

- **Financials**

Not Available

- **Economic sustainability/Revenue Model**

Wockhardt Foundation is a national, not-for-profit organization engaged in social service and human welfare activities. The company in partnership with various companies and institutions raise funds to install these toilets.

- **Implementer Contact Persons**

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- **Sources and References**

- Company Website
- <http://www.bio-toilet.org/>