

WE OPEN THE DOOR TO A HEALTHY TOMORROW. YOU'RE WELCOME!



SHOWCASE - SANITATION ACCESSIBLE TO ALL



PROJECT FOR KOLKATA POLICE

The earlier scenario

The Kolkata Traffic Police previously lacked toilet facilities. Either they would use some nearby school or look for open spaces. As a result, they were unable to carry out their duties as efficiently as they would have liked.



Our installations

In October 2017, Shrachi sponsored several Ecopal Bio toilets for the Kolkata Police, that got installed at major parts of the city, experiencing very high traffic.

Our Bio Toilet installation at Santosh Mitra Square Puja

Training

After successful installation of the bio-toilet units, the policemen were given sanitation training as well as a list of maintenance DOs and DON'Ts to ensure effortless use and operation.



// Now that we have our toilet, there is no need for us to search for places to defecate or urinate in the open, which was a major problem we used to face earlier. //

The current scenario

Numerous policemen benefit every day from the installations. Below are the glimpses from various parts of the city.





PROJECT FOR MINE WORKERS HINDALCO SAMRI MINES

The earlier scenario

The area had witnessed natural calamity. As a result, the toilet and sanitation facilities became really poor. There was immediate requirement to set up toilets.



Our installations

Shrachi was bestowed with the responsibility of restoring proper sanitation facilities in the villages of Balramgaunge District, Chhattisgarh. Shrachi installed a number of Ecopal Bio Toilets to regenerate hygiene for all.

Training

After the successful installation of the Bio Toilets, the miners and labourers were imparted training on sanitation, hand-washing and use of toilet techniques.

“After the calamity struck us, sanitation became a real issue as the toilets got destroyed. We are extremely thankful to Shrachi for restoring sanitation facilities in the entire area.”

The current scenario

The mines are now clean and sanitary. As a result the mine workers and their families are healthier, happier and less prone to disease.





PROJECT FOR SCHOOL CHILDREN IN ASSOCIATION WITH UNICEF & ROTARY INTERNATIONAL

The earlier scenario

Previously the sanitation scenario in schools of this district was not very conducive to learning, particularly for the girl students. There were no proper toilets in most of these schools, and often students had to defecate in the open. As a result student drop out rates in the area were very high.



Our installations

Shrachi installed Ecopal Bio Toilets across the district schools of Odisha during October 2017.

Training

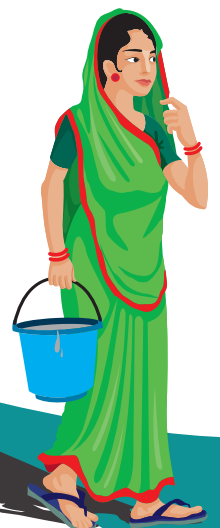
After the successful installation of the Bio Toilets, the students, teachers and supporting faculty were trained on the best practices in toilet and menstrual hygiene.



This is a futuristic step. We can't thank Shrachi enough for this amazing initiative. This is especially useful for the girl students. We expect the dropout rate will lessen to a considerable extent in the coming days.

Current Scenario

The students are now happy and attend school with confidence. The newly installed toilets and sanitation facilities have reduced the absenteeism and dropout rates considerably.





PROJECT FOR SLUM DWELLERS IN ASSOCIATION WITH AROH FOUNDATION

The earlier scenario

Innumerable families residing in the slum areas of Meghalaya lacked toilet facilities. Because of this, their hygiene suffered and they were susceptible to major waterborne diseases like diarrhea, cholera, etc.

Training

After the successful installation of each of these Bio Toilets, Shrachi imparted training to the families on proper hand-washing and toilet use techniques.



Our installations

In 2017, Shrachi took on the challenge to provide adequate sanitation to the underprivileged families who did not have proper toilets. Shrachi installed a large number of Ecopal Bio Toilets to uplift the lives of people residing there.



"We are immensely grateful to Shrachi for being so considerate. We have benefited immensely as we don't need to defecate in the open anymore."

Current Scenario

People staying in the slum area of Meghalaya now have better sanitation and hygiene conditions. Their difficulties have now been taken care of, to a large extent.








SHRACHI & THE WASH MOVEMENT

- It aims to provide affordable access to WASH services to thousands of people, thereby promoting hygiene and environment-friendliness.
- As a part of the Swachh Bharat Abhiyan, Shrachi supports the WASH (Water, Sanitation and Hygiene) Movement.
- It looks to create healthy living and working conditions, leading to control of water-borne diseases and reduction of school drop-outs in rural areas.
- It aims particularly to improve the lives of girls and women in the society and empower them for a brighter future.
- It strives towards increasing the GDP of the country, addressing the 6 per cent GDP lost due to spread of diseases by open defecation.
- It integrates solar LED lights for night-time toilet use and solar pumps to augment water supply, in areas where even power distribution is a challenge.
- The global concept of WASH is recognized by the UN in its Sustainable Development Goals.
- WASH projects help create an open defecation-free (ODF) world.

ECOPAL – WASHING AWAY WORRIES

Shrachi as a part of the WASH Movement provides the following facilities:

-  Eco-friendly Bio Toilets, called Ecopal
-  Affordable water supply and purification systems
-  Hand-washing stations
-  Sanitary napkin vending machines and incinerators
-  Behavioural training and demand generation

Steps taken by us to address the major issues:



Providing 100% treatment of human waste and waste water, without manual scavenging through Bio Toilets in rural schools, slums, villages, construction sites, factory, exhibitions and more.

Training and capacity building to educate the users about cultivating the habit of using eco-friendly facilities, helping them understand the importance of maintaining proper WASH standards for a cleaner and a safer world.

SHRACHI & ITS COMMITMENT TO SUSTAINABLE DEVELOPMENT GOALS

Shrachi supports the Sustainable Development Goals set by the UN to achieve a better and more sustainable future for all. It addresses the global challenges including those related to sanitation and hygiene. Let's discuss some of the goals we collectively join hands towards:



PRESENTING ECOPAL RANGE OF BIO TOILETS

Ecopal – Premium



Key Features

Premium Spacious Toilet | Commode with Cistern
FRP | Wash Basin PVC Hand Shower | Brass Water Tap
Cabinet Mirror | Tissue Paper with Holder Light with
Holder | Liquid Soap Container | Cloth Hanger



Material of Construction

PVC / Glossed FRP | Superstructure | FRP Biodigester



Superstructure

Length- 1220mm | Breadth- 1220mm | Height- 2000mm



Size of Bio-digester Tank

Length- 1300mm | Breadth- 1300mm | Height- 350mm



Average Usage Per Day

30 Uses / Day / Bio Toilet



Applications

Parks | Beaches | Schools | Individual Household
Construction Sites | Bus Stands etc



Ecopal – Community



Key Features- Multiple Chambers of Pans & Urinals in a Single Module as per Customer Requirement



Material of Construction- PVC Superstructure | FRP Biodigester



Superstructure- As per Customer Requirement



Size of Bio-digester Tank- As per Customer Requirement



Average Usage Per Day- 30 Uses / Day / Pan



Applications- Village Community | Urban Slum | Community Schools



Ecopal – Classic



Key Features

Entry-level Compact Model with Indian Pan | Water Tap | Light with Holder | Liquid Soap Container | Cloth Hanger



Material of Construction

Steel/FRP Superstructure | FRP Biodigester



Superstructure

Length- 1100mm | Breadth- 1100mm | Height- 2000mm



Size of Bio-digester Tank

Length- 1100mm | Breadth- 1100mm | Height- 550mm



Average Usage Per Day

30 Uses / Day / Bio Toilet



Applications

Villages | Slums | Construction Sites | Individual Households, etc

Ecopal – E-Toilet



Automated

Door opens on coin drop, button push, on entering inside, lights operate automatically



Water Consumption

Fully automated flush system & taps



Cleaning

Pressurized wall cleaning using high pressure water jet with pre-programmed intervals



Robust and Strong

304 Grade stainless steel



Portable

Can be lifted by crane



Spacious

4x4 feet inside space



Online Control & Monitoring

The toilet sends usage statistics via GPRS that can be sent to cleaning authority/Municipal Corporation, as required



Sewage Treatment

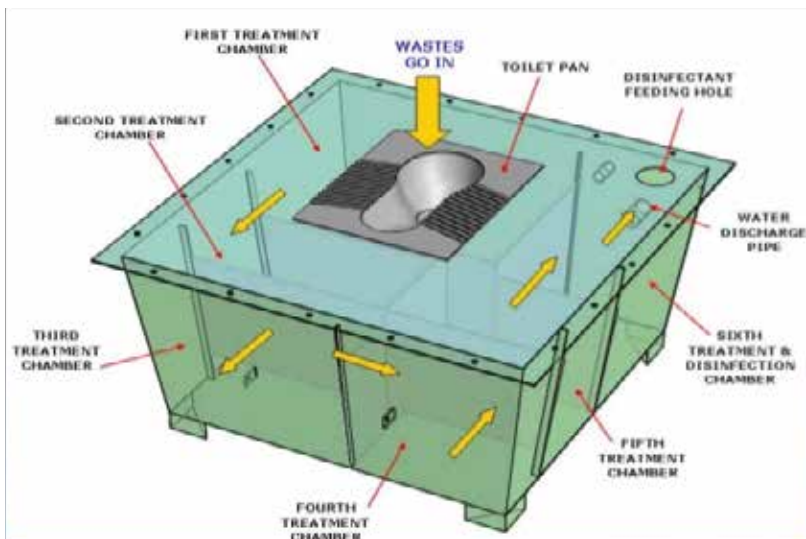
ECOPAL TECHNOLOGY

Ecopal's technology is eco-friendly and mindful to local conditions.

An inexpensive and easy-to-operate alternative to traditional waste disposal, aerobic biotoilets are a great way to meet the UN Sustainable Development Goals while supporting the Indian government's vision of a cleaner, healthier society.

Shrachi's Aerobic Bio Toilet comes with the following features:

- No sewer lines • No septic tank • No maintenance • No manual scavenging • Customisable and made to order



Technical features of aerobic media

Multi strain Aerobic Bacterial Culture

- Strain 1:** Releases amylase that digests complex polysaccharides (carbohydrate)
- Strain 2:** Releases cellulolytic enzyme that digests cellulosic/fibrous substrates
- Strain 3:** Releases lipolytic enzyme that digests lipids (fats & oils)
- Strain 4:** Releases proteolytic enzyme that digests complex proteins
- Strain 5:** Neutralizes odour

Unique features of Ecopal

The Biological Digestion process

- 1 Human waste goes into the system
- 2 Purpose built bio-digester tank
- 3 Bio-digestion process takes place in the multichambered bio digester tank
- 4 Waste is converted primarily into water
- 5 Water flows into disinfection chamber and is disinfected
- 6 Non toxic, non pathogenic, neutral water discharged with traces of CO₂

C

Controls disease

Ecopal provides 100% treatment of wastes and waste water so there is no requirement of manual scavenging and simultaneously controls spread of water borne diseases like diarrhea, cholera, amoebic dysentery etc.

L

Light-weight

Ecopal is portable prefabricated units which can be relocated and reinstalled, thus no permanent land acquisition is needed.

E

Eco-friendly

Ecopal uses quick acting Multi Strain Aerobic Bacteria which completely digests human waste within 24 hrs.

A

Anti-odour

Ecopal is odour-free and discharges non toxic, non pathogenic water with traces of CO₂.

N

No maintenance

Ecopal is virtually maintenance-free and requires much less water than conventional sanitation systems. It uses Aerobic bacteria for bio digestion process.

CLIENTS

APPROVALS

- Technology approved under Swachh Bharat Mission Guidelines
- Ministry of Urban Development
- Ministry of Drinking Water and Sanitation, Government of India
- PMO appointed Maheslkar Committee
- CII for rural schools
- FICCI – Implementing Partner

A FEW GLIMPSES INTO THE DIFFERENT SECTORS WE SERVE

Paramilitary



Security Services



Parks



Rural Communities



Construction Sites





SHRACHI[®]
Dreamer. Doer.

ABOUT US

The Shrachi Group is one of Eastern India's leading conglomerates that has its presence in all major regions of the country. Its diversified business verticals range across Real Estate, Engineering and EPC, Agro-machinery and Stationery sectors.

For over two decades, our Agro division has been catering to the requirements of small and marginal farmers by contributing towards increased productivity and mechanisation. As pioneers in introducing cost-effective power tillers in India in the early 90's, we have grown to become one of India's leading farm machinery providers with a product portfolio that include power tillers, power weeders, reaper, garden tools and tractor implements.

Lately the company has ventured into the water, health and sanitation realm and now provides turnkey hygiene solutions and training through its aerobic biological toilet range. Bio-digester toilets are primarily designed to convert human excreta into bio-friendly waste. BTL EPC LTD has been one of the key players in this segment and have gradually become the preferred choice for its users.

BTL EPC LTD

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