

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



**SHRACHI**  
Agrimech  
Khushali Hamesha

**ECOPAL**  
SANITATION REVOLUTIONISED

COMMUNITY

Aerobic Bio Toilet

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# 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 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.



# KEY PROJECTS

## CESC Nirmal Kolkata

33 Shrachi EcoPal Bio Toilets, as a part of the NIRMAL KOLKATA 2, sponsored by CESC CSR were installed at Chetla lock gate, Kolkata.



## Moradabad Smart City

Smart self-cleaning toilet blocks at Moradabad under Moradabad Smart City Project. Shrachi Ecopal in consortium with Sukriti Social Foundation is heralding a new era in urban sanitation.



## Sikkim Project

Shrachi EcoPal Biotoilets were installed by Government of Sikkim to fulfill the requirement in schools and monasteries. Twin PPGI puff panels were used in the construction of these toilets.



# KEY PROJECTS

## WORLD VISION PROJECT



Shrachi Ecopal Bio Toilets in use at Delhi & Gurgaon slums, Humanitarian Project jointly managed by Global NGO World Vision and Bank of America.



Pre-Fab portable FRP bio-toilets are being installed on the rooftops of slum dwellers in Lalbagh Delhi, funded by Global NGO World Vision through Bank of America CSR.



# WOMEN WELFARE INITIATIVES

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## TATA METALLIK'S PINK TOILETS

Specifically made to cater to women employees



## ROTARY CLUB OF NEW HORIZON






Bhubaneshwar, toilets for slum dwelling women, PGPI models showcased

# 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:

**3** GOOD HEALTH AND WELL-BEING



**4** QUALITY EDUCATION



**5** GENDER EQUALITY



**6** CLEAN WATER AND SANITATION



**9** INDUSTRY, INNOVATION AND INFRASTRUCTURE



**11** SUSTAINABLE CITIES AND COMMUNITIES



**13** CLIMATE ACTION



# 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





New Portable Toilet Products

## OUR WASH RANGE OF PRODUCTS



Menstrual Hygiene Equipment



Handwashing Stations

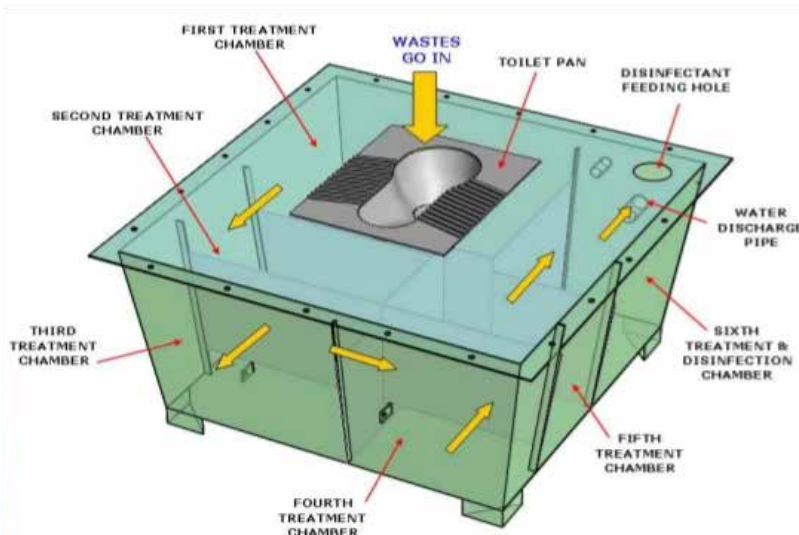
# ECOPAL TECHNOLOGY

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 CO<sub>2</sub>

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 CO<sub>2</sub>.

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.

# CERTIFICATION



# TESTIMONIALS



ACKNOWLEDGEMENT BY HON'BLE MAYOR MR. FIRHAD HAKIM



MR. SANDIP - SRIJONEE UDYOG

# 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





## 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.

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### BTL EPC LTD

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