



## Setting up of Sanitation facilities with on-site Sanitation technologies

# PROJECT PROPOSAL

**BTL EPC LTD (AGRO) – A SHRACHI GROUP COMPANY**  
BTL EPC Ltd.(Agro) , Shrachi Tower, 7th Floor, 686 Anandapur, EM Bypass, Kolkata - 700 107.

## WHAT BIOLOGICAL TOILET IS?

A **BioToilet** is a next generation eco-friendly waste management solution, which digest and convert solid human waste into neutral water and traces amount of gas, with the help of special bacterial inoculums.

### SPECIAL FEATURES OF BIOLOGICAL TOILETS

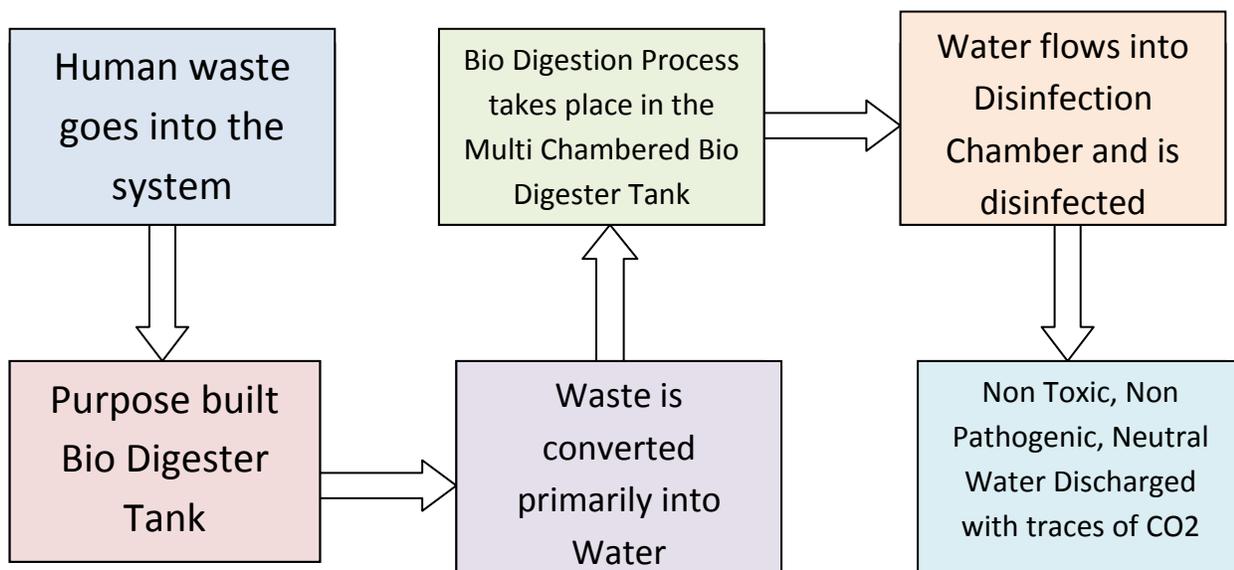
- The Bio Digester tank is a multi-chambered tank
- The wastes are transferred from the toilet pan to the Bio digester tank by a P-Trap which requires very less water.
- The wastes flow from one chamber to another by a special patented process. The multi-strain bacteria convert human waste to water through biological process.
- The Bio digester tank contains multi strain aerobic bacteria that starts the digestion of the wastes in 3 hours and completes the digestion totally within 24 hours.
- The Biological toilet converts the human wastes into water and traces of carbon dioxide.
- It prevents spread of diseases and epidemics caused by harmful E coli spread by dumping of unprocessed human wastes.

Provide a better, hygienic sanitation alternative for the people of the society.

## UNIQUE FEATURES OF OUR PRODUCT ECOCLEAN

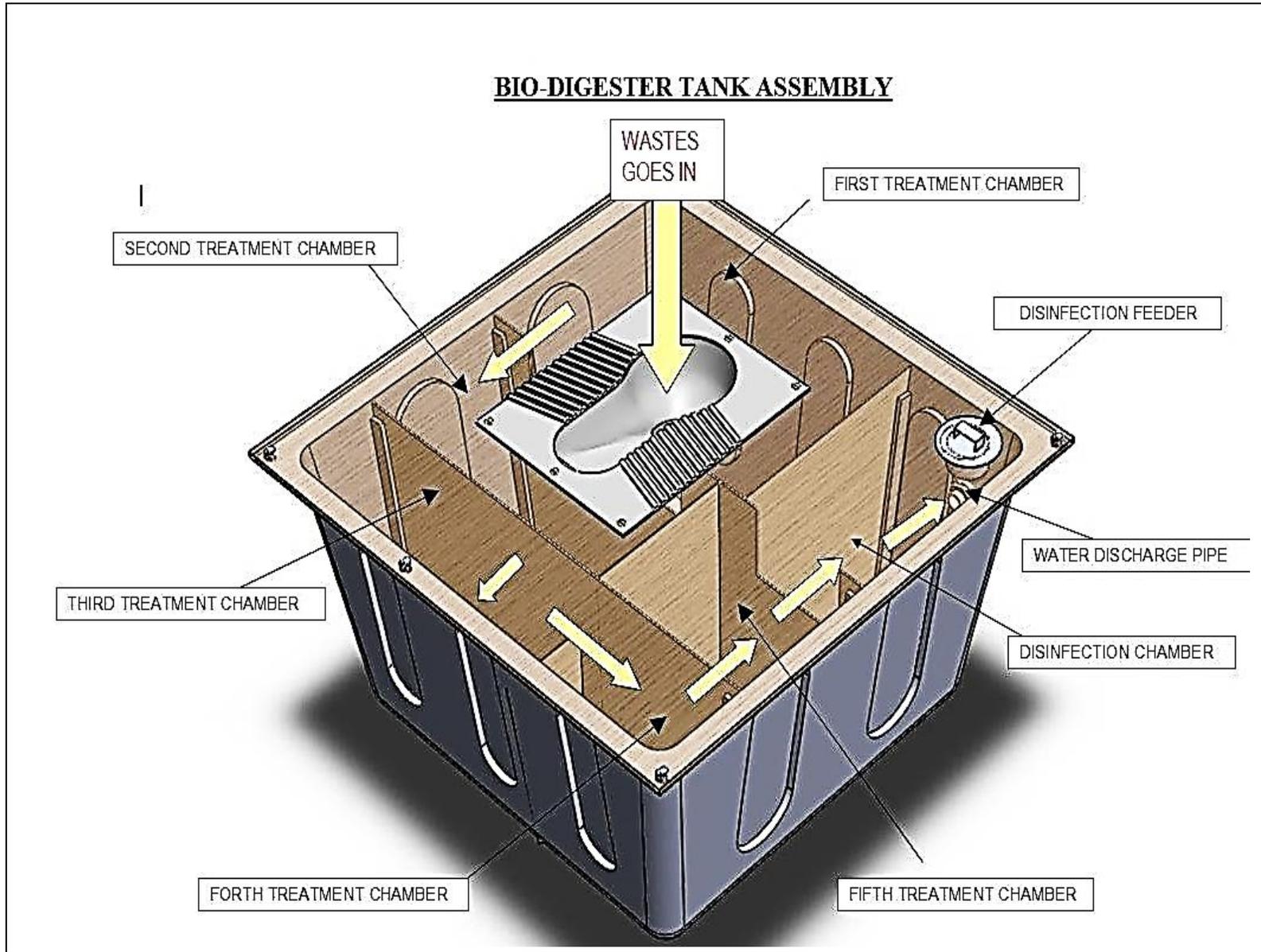
- Eco Clean provides 100% treatment of wastes and waste water so there is no requirement of manual scavenging and simultaneously control spread of water borne diseases like Diarrhea, Cholera, Amoebic dysentery etc
- Eco Clean is portable prefabricated units which can be relocated and reinstall thus no permanent land acquisition
- Eco Clean uses quick acting Multi Strain Aerobic Bacteria which completely digest human waste within 24 hrs
- Eco Clean is odor free and discharges non toxic, non pathogenic water with traces of CO<sub>2</sub>
- Eco Clean is virtually maintenance free and requires much less water than conventional sanitation system. Uses Aerobic bacteria for bio digestion process

## THE BIOLOGICAL DIGESTION PROCESS



# THE BIOLOGICAL DIGESTION PROCESS

UNIQUE 24 HOURS CYCLE



## PROPOSED MODEL- ECOCLEAN CLASSIC PPGI



## **SITE LOCATION FOR INSTALLATION OF BIOTOILET**

- Clean flat land to be provided for installation.
- Water connection for Inlet water for usage in toilets to be provided
- Power connection to be provided for night usage if required.
- Drainage point to be provided
- Daily cleaning to be done by beneficiaries

## **DISCHARGE POINT**

- Bio-toilet effluent should be discharged into free flowing drain that is connected to a sewer line.
- In case, there is no connection to a sewer-line, effluent should be discharged into a soak pit by excavating the soil.

## QUOTATION

Rotary Club of New Horizon, Bhubaneswar

Ref: Rotary/CLPPGI-KOL/01-19

### OUR OFFER:

Item description	No. of Unit	Rate (Rs.)	Price Ex –Cuttack(Rs.)
<p><b>A. <u>ECO CLEAN CLASSIC (PPGI)</u></b>  <b>Aerobic Bio toilet with Bio digester tank</b>            (Single PPGI superstructure 1M x 1M x 2M to be integrated on FRP Biodigester tank 1M x 1M x0.4M, Vol=400L) inclusive of Bio media Kit &amp; Installation. (It can take maximum 20 -30 defecations per day.)            The inclusions are as follows –</p> <ol style="list-style-type: none"> <li>1. Water tap with water inlet connection</li> <li>2. Light with holder</li> <li>3. Indian Pan</li> <li>4. 3 M electric with 1 unit of bed switch,</li> <li>5. Liquid Soap container</li> <li>6. Cloth Hanger</li> <li>7. Outlet connection up to 1ft and soakpit installation</li> </ol>	1	40,000.00	40,000.00*
<p><b>B.</b> Water inlet connection to biotoilet within 25ft from water source per toilet</p>			
<b>GST @18%</b>	-	-	7,200.00
<b>Freight to Cuttack factory</b>	-	-	Inclusive
<b>Local transportation within 30 KM</b>	-	-	Inclusive
<b>Installation</b>	-	-	Inclusive
<b>Biomdia kit/ pan/year</b>	-	-	Inclusive for 1st year
<b>Total</b>	<b>1</b>	<b>1</b>	<b>47,200</b>

**\* Minimum order quantity should be 40 units**

### **Detail Scope of work under BTL EPC LTD:**

- **Dimension of Biotoilet:** Provided in item description
- **Transportation of biotoilets to Cuttack godown:** Inclusive
- **Local transportation/ transfer of raw materials:** Inclusive within 30KM radius from BTL Cuttack godown
- **PCC Civil work for installation of biotoilet: Exclusive**
- **Soak pit Construction:** Inclusive [Diameter: 2ft, Depth: 3ft]
- **Discharge connection:** Inclusive upto 1ft
- **Water inlet connection to toilet:** Will be done by BTL EPC LTD with 1" PVC pipe Within 25 ft from the water source per toilet
- **Fooding & Lodging:** Inclusive for installer of BTL EPC LTD
- **Installation and supervision charges:** Inclusive

### **Detail Scope of work under Rotary:**

- Rotary will communicate with each beneficiary for provision of installation/Construction/plumbing work which can be continued before 10 A.M and after 4.00 P.M
- Electricity connection should be provided during installation at night
- Transportation charges for installer and transfer charges of raw material will be provided by Rotary beyond 30KM radius from BTL EPC LTD Cuttack godown
- Source of water for inlet connection should be provided by Rotary within school. If distance between toilets and water source is more than 25ft, Rotary

will be responsible for additional purchasing of raw materials. Additional plumbing work will be done under BTL EPC LTD supervision

### **Terms & Conditions:**

- The price quoted are no regret Final Price offer
- The above prices are Ex. Godown, Cuttack
- **Validity of offer:** This offer shall remain valid for 15 days for your acceptance from the date and thereafter the same has to be confirmed by us.
- **Payment terms: 100% advance along with confirm Purchase Order**
- **Delivery:** Within **25 - 30 days from the date of the advance.**
- **Taxes :** GST@ **18%** on biotoilet extra
- **Biomedia Kit/ Toilet:** Inclusive for 1<sup>st</sup> year. Rs. 3,500 plus GST@ 12% per biomedia kit will be chargeable after one year as a consumable
- **Warranty:** 1 year from the date of installation against any manufacturing or installation defect

### **NOTE**

- Disputes, if any, will be under Kolkata Jurisdiction only.
- Each unit is capable of handling 30 solid defecation in a day
- 20ML of Bio Media has to be charged every week in each toilet for proper functioning of the toilets.
- NO phenyl/ acid/ hazardous chemical should be used for cleaning of the Bio Toilets and the customer should adhere to the training and Do's and Don'ts which will be imparted during the maintenance training to the assigned person of the customer.
- We are not responsible for Misuse/Overuse/Pilferage/damages etc.

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