

RAJASTHAN

Project Title: Construction of Bio Digester Public Toilets in Ranthambore Fort near Trinetra Ganesh temple		
1	Aim of the project	To provide proper sanitary facilities to the pilgrims and people and to attain ODF status at Ranthambore.
2	Short justification of the project	There are no sanitary facilities available in the area and people defecate in the open. So to provide sanitary and toilet facilities for public, these toilets need to be sanctioned.
3	Whether existing or new project	New project
4	Sector	Rural sanitation
5	Implementing agency and NGOs associated	To be decided
6	Target beneficiaries	The Pilgrims and people around
7	Target geographic location	Near temples located in Ranthambore Fort, District of Sawai Madhopur
8	Project timeline	3 months from commencements
9	Estimated budget	Total amount is Rs. 35 lakhs. (0.70*50 units)
10	Whether it includes capital cost as well as maintenance cost	Only capital cost included
11	Minimum contribution or per unit cost of the project	Rs. 70,000/- per unit
12	Images of proposed project	No

PROFILE

1. GP SHERPUR is part of Block SWAMI MADHOPUR of District SWAMI MADHOPUR in RAJASTHAN.
2. AS PER LATEST SURBEY THERE ARE NO ANY INSANITARY TOILETS (DRY LATRINES)

TOTAL HOUSEHOLDS BLS-2012	NO OF HOUSEHOLDS HAVING NO TOILET	NO OF HOUSEHOLDS HAVING INSANITARY TOILETS (DRY LATRINES)	TOTAL NO OF HOUSEHOLDS TO BE PROVIDED SANITARY TOILETS
1070	1070	0	0


3. Cost of 50 Bio digestor Public toilet at Ranthamore forte near Trinetar Ganesh Temple is Rs. 35,00,000/-

OFFICE OF THE DISTRICT COLLECTOR, SAWAI MADHOPURPROJECT REPORT ON CONSTRUCTION OF BIO-TOILETS AT TRINETRA GANESH TEMPLE,
RANTHAMBORE

Trinetra Ganesh Temple is situated in the Historical Fort of Ranthambore, near village Sherpur, which is 14 kms. away from Sawai Madhopur city. This Fort and the temple are situated in the middle of the Ranthambore Critical Tiger Reserve which attracts a large number of tiger enthusiasts throughout the year. The Trinetra Ganesh temple is also one of the most famous and oldest temples of Lord Ganesh in Rajasthan and attracts over 5 lakh pilgrims over a period of 4 to 5 days during the Shukla Paksha Chaturthi of Bhadrapad (Hindu month). Apart from this, people gather here in thousands on every Wednesday.

Being situated atop a hill and inside the Critical Tiger Reserve, there is no settlement of people in the form of a village or otherwise, nearabouts. Therefore, there is a huge scarcity of water as well as of any permanent public facilities in and around the temple. Whatever little water is made available near the temple for rituals is through transportation of water using mules/donkeys. During the peak seasons, there is a severe problem of open defecation in this area which not only poses an environmental threat but also a major sanitation and health challenge. In this scenario, an urgent need for Bio toilets/ Cry toilets has been felt by officials, temple trustees and many of the environmentalists who work here. However this has not been possible so far due to a paucity of funds. Hence, it is proposed to take up this project with the financial aid of Ministry of Drinking Water and Sanitation.

A tentative estimate of Rs. 31.00 lakhs has been framed with provision of construction of (25-25) 50 Toilets with Bio-Digester. A provision of transportation charges has been added in the estimate because it is not possible to supply the construction material directly at site by motor vehicles and they will have to be transported using mules. This type of toilets are generally not constructed in this area so provision for service of professionals are also taken in the estimate 40% of total cost for technical and Bio-technical advice. This is however, a tentative calculation of the expected costs. After project approval, the actual work order is sought to be given only on the basis of tendering process.


District Collector and District Magistrate
Sawai Madhopur

Toilet with Bio-digester

1. Bio-Digester toilet is characterized by the following:
 - Containment of human excreta
 - Vermiculture based organic composting of feces
 - Nitrification of urine
 - No water use except water used in cleaning
 - Recycling back to the soil (closing the loop on both nutrients and water)
2. Benefits of Bio-digester:
 - No water for flushing required
 - Odor-Free
 - Comfortable to Use
 - Very less maintenance required
 - Cost effective
 - Provides a natural fertilizer
 - Suitable for any geographical terrain
3. Tentative Costing of Bio-digester:

Costing of Bio-digester			
SN	Particular	Size	Price
1	Sub Structure		
1.1	Foundation (9" Bricks Masonry including Excavation, PCC work in foundation)	1600 m ³	5,500
1.2	Platform with pan (Including cement floor)	1 m ³	2,200
1.3	Bio-digester (including all material such as earthworms, jute fiber filter bed etc)	1 m ³	20,000
1.4	One soak pit covered with RCC slab	1 m ³	3,000
2	Super Structure		
2.1	Walls (4 Bricks Masonry with both side cement plaster and stone roof	793 m ³	6,000
2.2	Door (2.25' x 6')	2.25 feet by 6 feet	2,200
3	Water Tank	500 liter	2,500
4	Water supply with 1 2" CPVC pipe and one tap including fitting and air exhaust pipe	8 feet to 10 feet	1,500
5	Miscellaneous		1,000
6	Transportation Charges LS		6,100
	Total		50,000

Add Professional Cost LS 40%

20,000/-

Per Toilet Tentative Cost

Grand Total

70,000/-

Tentative Total Cost of 50 Toilets 70,000 x 50 =

35,00,000.00

Sax 35 Lakhs