



Affordable and appropriate options
that respond to diverse consumer needs and aspirations

**Workshop on sustainable rural sanitation for
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AAETI , Nimli, Alwar, Rajasthan, India**

By

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Toilet Technology park– Tiruchirappalli – Gramalaya



National Institute of Water and Sanitation- NIWAS

An approved National Key Resource Centre - KRC of MDWS, Government of India



Vision of Gramalaya

Gramalaya envisions a society in which all people will have equal rights and access to protected water, sanitation health and improved income status without gender discrimination.

Gramalaya – Tiruchirappalli

- 1987 for past 31 Years on WASH.
- Based at Tiruchirappalli, Tamil Nadu.
- Presently covering 6 states of India namely Tamil Nadu, Andra Pradesh, Telangana, Karnataka , Pudhucherry & Kerala
- Founder Mr. S.Damodaran, Gramalaya who have more than 34 experience on WASH

Milestones

- 1st ODF slum – Kalmandai -2000
- 1st ODF village – Thandavampatti – Aaraichi Panchayat, T.pet block -2001
- Easy flush pan and Child Friendly Toilets
- Toilet & Water Technology park - NIWAS
- Eco san model toilets – water logging area
- More than 600,000 IHHLs constructed in 6 states of India

Milestones.,

- Exclusive MFI for Watercredit – Guardian formed by Gramalaya -2007
- **AWASH Committees – WASHMAN COMMITTEES .**



FIVE PILLARS OF SANITATION

Good Hygiene is defined as people having easy access to using and maintaining the following five essentials.



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+



+



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CLEAN WATER

Having access to clean, pathogen & chemical free water for drinking & cooking. Centralized, community level, or household water treatment solutions.

TOILETS

Having access to consistently using toilets that are well designed, clean & disabled friendly. Sewage management systems that ensure waste generated.

HANDWASHING WITH SOAP

Being aware of the need of and consistently washing hands with soap at critical times - before eating, after defecation, & after handling child feces - to avoid ingesting pathogens.

MENSTRUAL HYGIENE

Being aware of the need of and consistently using safe menstrual hygiene practices including appropriate products (low cost pads, cloth, cups) and other local solutions.

NUTRITION

Eating a balanced diet is vital for good health and well being. Food provides our bodies with the energy, protein, essential fats, vitamins and minerals to live, grow and function properly.

India's FIRST 100% Open Defecation-free Slum





Smart toilet with incinerator

Sub structure of Toilets



12 holes in each Ring



Gramalaya - Cost effective toilet technology

Myths and conception



**30 years back constructed toilets,-
twin pit was opened for study purpose**



Gramalaya - Cost effective toilet techniques

1st house ...,,



Gramalaya - Cost effective toilet techniques

Manure as compost – ready for Agriculture



10 Kilo gram Manure



Gramalaya - Cost effective toilet techniques

Human Excreta has become as manure



Manure.,



Gramalaya - Cost effective toilet techniques

1989 - Mr.Natrajan's Toilet- Rasipuram, Tamil Nadu



Gramalaya - Cost effective toilet techniques

2nd house... pit is opened by our team



2nd house .,



Gramalaya - Cost effective toilet techniques

Twin pits are getting filled .,,



Plastering of cover slab



Gramalaya - Cost effective toilet techniques

Single pit filled, what next



Gramalaya - Cost effective toilet techniques

Single pit filled ..,



Gramalaya - Cost effective toilet techniques

Elurpatti village, Mr. Mohanasundaram's house (emptying on regular intervals)



Incinerator Attached Toilet



Glimpse of Smart toilets

VST, Hyd.,
for poor
farmers



Ongc
support



Bill Ford
for ST
communi
ties

Features of Smart Toilets

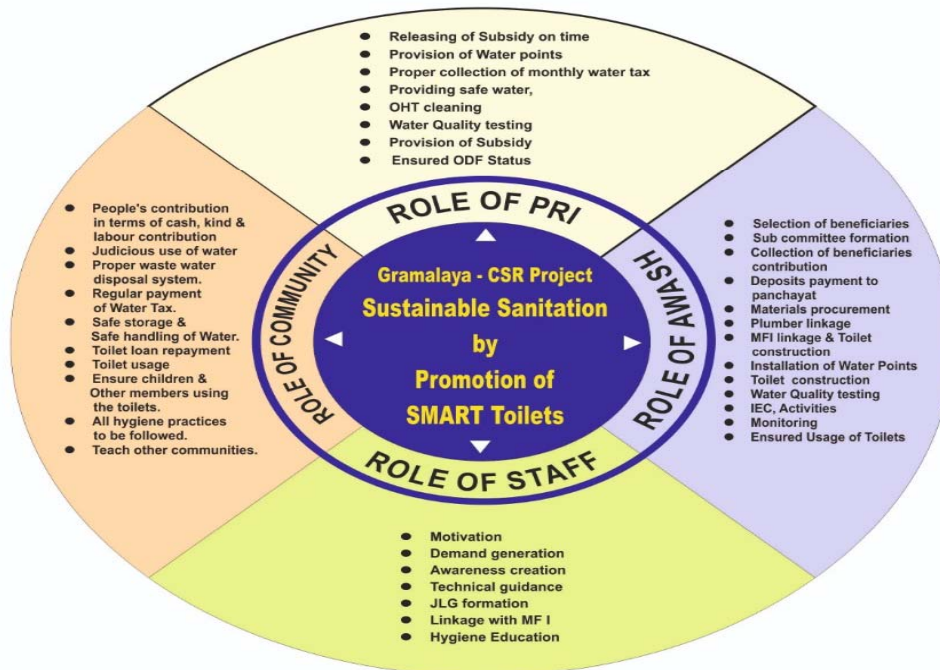
- No emptying of pits / 5 to 7 years – pit capacity /No recurring cost .
Zero waste Toilet /Kitchen Garden /Ensuring participation and contribution
- Suitable in the place of non- availability of STP. /Trained masons who can easily construct the Smart Toilets . Women and AG friendly toilets /No maintenance cost involved in the twin – leach pit toilets / This model toilet considered as a Sustainable and replicable model
- **Replicability**
Still there is a need for Sustainable and Community ODF is needed, though, it is declared as ODF
CASE STUDY : GAJA cyclone - Smart toilets saved life of 17 Rural poor in Pudukottai Dt.,
- Safety for all particularly Mentally disorder Girls & women

Impacts of the program



Puducherry U.T Lt., Governor Dr.Kiranbedi, IPS honors Gramalaya by giving award during the ODF declaration ceremony

Gramalaya - Tiruchirapalli
Stakeholder's role in Gramalaya - CSR Project



Role of Corporate

Extending Financial Support
Monitoring the implementation
Participation in the special events
Volunteering program

Role of SBM / RD dept.,

Releasing incentives
Monitoring the implementation
Ensuring elimination of OD
Volunteering program
IEC activities



Also called as Zero Waste Toilet

Nutrition from waste water from bathroom in a SMART toilet promoted by Gramalaya - Zero Waste Toilet




Toilet beneficiaries of Gramalaya project are getting bottle gourd, pumpkin, bitter gourd, ridge gourd and other nutritious vegetables

Reusable cloth pads for menstrual hygiene and for protecting our environment



An initiative of Gramalaya to supplement the efforts of Swachh Bharat Mission for MHM promotion and solid waste management



Why reusable clothpads



- Disposables pads – A product called dioxin with plastic chemicals and pesticide residue. Harmful
- Commercial sanitary napkins are resulted in allergy, dryness of the skin, itching to the women
- Disposed on the streets adding more garbage
- Clogging the drains and polluting our water bodies and environment
- Commercial sanitary napkins would take 500 – 800 years to decompose

MHM and feel free cloth pads OF GRAMALAYA in promoting SBM MISSION





Advantages of using the reusable clothpads

- Pleasant feeling
- Could be used continuously for 8 hours
- Easy to wash and to maintain
- Economically cheaper! Saves money!!
- Promoted to safeguard women's health

By using Feelfree cloth pads, we can reduce, reuse and recycle the waste



Promoted through online platforms

www.feelfreeclothpads.com

www.amazon.in



WASH, Mhm AND NUTRITION PROMOTION THROUGH CSR INITIATIVES

- Comprehensive Hygiene Promotion Projects.
- Gramalaya is promoting not only just toilets but also with bathroom facilities. The bathroom waste water is used for raising kitchen garden for nutritious vegetables. The toilets are designed as zero waste toilet where human excreta is recycled as manure. The FeelFree reusable cloth pads are useful in promoting menstrual hygiene practices among women and adolescent girls. The communities are provided with Nutrition importance so as to make a healthy and disease free society

Menstrual cloth pads are women friendly, washable, reusable , and degradable



By encouraging reusable cloth pads, we can reduce the garbage and solid waste disposal problems



A range of reusable cloth pads designed by gramalaya



XL PACK



XXL PACK

PERIOD PANTIES



**FEELFREE AND
PADFREE**



More than 3 lakh pads are distributed in Tamil Nadu and in India

- In the 6 Southern States in India, more than 3 lakh pads are distributed in the last three years.
- Under CSR initiatives of HDFC Ltd., 10,000 packets (40,000 pads) are being distributed in Pudukottai District, Tamil Nadu.
- The Bank of America – Merrill Lynch Capital CSR initiatives, cloth pads are promoted in 14 Blocks of Tiruichirappalli District
- Feelfree cloth pads are marketed throughout India by online platforms like **Amazon.com** and **www.feelfreeclothpads.com**



For more details on our work, please visit our website links :

- <http://www.gramalaya.org/musiri-town-panchayat.php> - Merrill Lynch CSR initiatives
-
- <http://www.gramalaya.org/the-smart-toilets.php>. - SMART toilets initiatives
- www.youtube.com/watch?v=xFFi2dhOVEQ&t=2s
- <https://>. - HT Parekh Foundation



Thanks!



Any questions?