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

Workshop on sustainable rural sanitation for African stakeholders, March 26-29, 2019
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.

<table>
<thead>
<tr>
<th>CLEAN WATER</th>
<th>TOILETS</th>
<th>HANDWASHING WITH SOAP</th>
<th>MENSTRUAL HYGIENE</th>
<th>NUTRITION</th>
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<tbody>
<tr>
<td>Having access to clean, pathogen &amp; chemical free water for drinking &amp; cooking. Centralized, community level, or household water treatment solutions.</td>
<td>Having access to consistently using toilets that are well designed, clean &amp; disabled friendly. Sewage management systems that ensure waste generated.</td>
<td>Being aware of the need of and consistently washing hands with soap at critical times - before eating, after defecation, &amp; after handling child feces - to avoid ingesting pathogens.</td>
<td>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.</td>
<td>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.</td>
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India's FIRST 100% Open Defecation-free Slum

KALMANDHAI - INDIA'S FIRST 100% SANITISED SLUM
WHERE OPEN DEFECTION IS TOTALLY - ESCHewed BY THE COMMUNITY
EVERYONE USES THE TOILET

(A COLLABORATIVE VENTURE OF TIRUCHI CORPORATION, WATER AID, GRAMALAYA AND THE PEOPLE OF KALMANDHAI)
Smart toilet with incinerator
Sub structure of Toilets
12 holes in each Ring
Myths and conception
30 years back constructed toilets, a twin pit was opened for study purpose.
1st house ..,
Manure as compost – ready for Agriculture
10 Kilo gram Manure

Gramalaya - Cost effective toilet techniques
Human Excreta has become as manure
Manure,
1989 - Mr. Natrajjan’s Toilet - Rasipuram, Tamil Nadu
2nd house..., pit is opened by our team
2nd house,

Gramalaya - Cost effective toilet techniques
Twin pits are getting filled...
Plastering of cover slab
Single pit filled, what next
Single pit filled...
Elurpatti village, Mr. Mohanasundaram’s house (empting on regular intervals)
Incinerator Attached Toilet
Glimpse of Smart toilets

VST, Hyd., for poor farmers

Ongc support

Bill Ford for ST communities
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
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

FEELFREE AND PADFREE

PERIOD PANTIES
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/the-smart-toilets.php](http://www.gramalaya.org/the-smart-toilets.php) - SMART toilets initiatives

- [www.youtube.com/watch?v=xFFi2dhOVEQ&t=2s](https://www.youtube.com/watch?v=xFFi2dhOVEQ&t=2s)

- [https://](https://) - HT Parekh Foundation
Thanks!

Any questions?