

# **SHG Business Models in Sanitation**

June 2022







CRDF CEPT RESEARCH AND DEVELOPMENT FOUNDATION



### **Acknowledgements**

The Swachh Bharat Mission has successfully achieved open defecation free cities and aims towards achieving safe conveyance and treatment of waste. Government of Maharashtra launched "Swachh Maharashtra Mission Urban (SMMU)", in alignment with the Swachh Bharat Mission (Urban), of Ministry of Urban Development, Government of India. The SMMU has developed strategic components to ensure coverage of sanitation facilities to all ULBs in the state. This is being done through financial and programmatic support to households and ULBs for community and/or household level sanitation. It is heartening to note that the state is performing extremely well and making an impact on millions of lives.

The Swachh Maharashtra Mission strategy envisages converging the sanitation aspects with the livelihood opportunities. With SBM providing new infrastructure creation in cities, there emerges a compelling requirement for developing skilled human resources that support its operations, management, and maintenance in a sustainable manner. The Deendayal Antyodaya Yojana-National Urban Livelihoods Mission (DAY-NULM) under the aegis of MoHUA, envisages creation of livelihood opportunities for the urban poor. The SBM- NULM convergence in Maharashtra recognizes the huge opportunity linked to livelihood creation for urban poor, especially for women (eligible under the NULM), and sanitation workers who are the most stigmatized and excluded populations of the country.

Drawing from the principles of DAY-NULM and SBM-U's convergence guidelines, Center for Water and Sanitation (CWAS), CRDF, CEPT University, and Urban Management Centre (UMC) have developed a strategy for the State of Maharashtra to operationalize a convergence plan. This document will help Urban Local Bodies (ULBs) and the SHGs and marginalized communities to identify a suitable business model for the sanitation work opportunity. The team is thankful to the immense support of the Directorate of Municipal Council, Maharashtra, Govt. of Maharashtra- Urban Development Dept and Swachh Maharashtra Mission for Urban Areas.



### Outline

- 1. Context of SBM and NULM convergence
- 2. Engaging SHGs across the sanitation value chain
- 3. Summary of Business Models in sanitation
- 4. Summary of other Business Models in sanitation and SWM
- 5. Key lessons emerging from the existing SHG linked Business Models
- 6. Business Model details and Case Studies



# **Convergence Guidelines by MoHUA**

The Ministry of Housing and Urban Affairs (MoHUA) published the DAY-NULM and SBM convergence guidelines

for the implementation of the program.

"Empowering Marginalized Groups -Convergence Between SBM and DAY-NULM"-March 2018,

The guideline outlines how infrastructure and operational structures specific to each of the two missions may be utilized to achieve dual objectives.





Source : MoHUA, Empowering Marginalized Groups - Convergence Between SBM and DAY- NULM, March 2018

### **Framework for convergence**

Construction of Individual Households Toilets
Construction of Community & Public toilets
Door to Door Collection and Segregation
Behaviour Change communication
Waste to Energy

#### **SWACHH BHARAT MISSION - URBAN**

Social Mobilisation and Institutional Development (SMID)
Employment through Skill Training and Placement (ESTP)
Self -Employment Programme (SEP)

### DAY-NULM

### SANITATION/SBM LIVELIHOODS CONVERGENCE

Strengthening community engagement platforms for sanitation/SWM workers

- Skilling and placement in Sanitation/SWM sector jobs
- Promoting Sanitation/SWM based livelihoods
- Financial Access and support for Sanitation/SWM enterprises
- **Capacity Building of SHGs on Financial literacy/ soft skills/ Entrepreneurship**
- : development modules

Capacity building of Mission Management units for Sanitation/SWM livelihoods

convergence



Source : MoHUA, Empowering

March 2018

Marginalized Groups - Convergence Between SBM and DAY- NULM,

## **Possibilities of Engaging SHGs in the Sanitation Value chain**



1. Operations and maintenance of CT/PTs

- 1. SHGs using Government-owned vehicles for operations for scheduled desludging
- 2. SHGs filling data in monitoring apps during desludging activity
- **3.** SHGs leasing government owned vehicles for demand desludging activity
- 4. SHGs independently running demand based desludging services

- 1. SHGs operating Faecal Sludge Treatment Plants
- **2.** SHGs performing landscaping and urban forestry work at FSTPs
- **3.** SHGs operating sanitation resource center at FSTP site
- 4. Composting at the FSTP site

# Summary of Business Models for SHGs in Sanitation – 1/2

	Name of model	Scope of model	Type of Contract	Value	Capacity Building	
Access	Access and Collection					
1	Operations and maintenance of Community Toilet/Public Toilet by SHGs	ULB awards a contract to a SHG for operating and maintaining the CT/PT blocks. The ULBs will pay monthly fees to the SHGs.	Service contract between ULB and SHG	Opex cost: ~Rs. 20,000 per toilet block per month	No specific capacity building is required	
1a	Operations and maintenance for Community Toilet/Public Toilet by ALFs at <b>Hingoli, Maharashtra</b>	ULB awards a contract to ALF for operating and maintaining the CT/PT.	Work order given by ULB to SHGs. Service contracts for three years	Rs. 13,200 per toilet block per month paid by ULB to ALFs	No capacity building required	
Conve	yance					
2.	SHGs using Government-owned vehicles for operations for scheduled desludging	The SHG group will lease the desludging trucks from ULB and run the operations and maintenance for scheduled desludging service of septic tanks	SHG leasing infrastructure from ULB. Service contract between ULB and SHG	Opex cost: ~Rs. 1500 per trip	Technical capacity building Capacity building on using app for monitoring	
3.	SHGs filling data in monitoring apps during desludging activity	The SHG group will accompany the desludging operator and fill in the data required during desludging. This will be filled on an online platform	Service contract between ULB and SHG	Capex investment ~Rs. 10,000 Opex cost ~ Rs. 15,000	Capacity building on using app for monitoring	
4.	SHGs leasing government owned vehicles for demand desludging activity	The SHG group will lease the desludging truck from the local government and will use it to provide demand-based desludging service in the city.	Service contract between SHG and ULB. SHG leasing infrastructure from ULB	Opex cost: ~Rs. 1500 per trip	Technical capacity building and following SOP Capacity building on using app for monitoring	
4a.	CLF using government owned vehicle for demand based desludging activity in Latur, Maharashtra	The CLF uses desludging truck of ULB to provide desludging service in the city of Vasai-Virar. Total 23 SHG members are involved in this work. The demand reached to CLF through ULB or directly by households too.	Service contract between CLF and ULB	The Solid Waste Department pays Rs. 500 per septic tank cleaning to ALF members	ALF members were trained on usage of PPE and operations of desludging b the ULB.	

## Summary of Business Models for SHGs in Sanitation- 2/2

	Name of model	Scope of model	Type of Contract	Value	Capacity Building
5	SHGs independently running demand based desludging services	The SHG group will buy their own desludging trucks and run the demand based desludging service	License from ULB	Capex investment: 15-20 L per truck Opex: ~ Rs. 1500 per trip	Technical capacity building
Treat	tment				
6	SHGs operating Faecal Sludge Treatment Plants	The SHG group will operate and maintain the FSTP handed over to them by ULB. It will self regulate and monitor the operations as well	Service Contract	Opex cost: ~Rs. 50,000 per month	Technical expertise is to be built of SHGs for operating the FSTP In-depth knowledge of SOP for Operating and maintaining FSTPs
6a.	SHGs operating FSTP at <b>Berhampur, Odisha</b>	The SHG group will operate and maintain the FSTP of Berhampur. The ULB will pay monthly fees to the SHG group	Service contract for 12 months	Contract value of Rs. 158,880 per month	BeMC conducted capacity building of the CLF with the help of SUDA and OWSSB. BeMC trained CLF on using tools and equipment before starting work
7	SHGs performing landscaping and urban forestry work at FSTPs	The SHG group will carry out the landscaping work at the FSTP area, urban forestry maintenance out of treated WW and solids at FSTP	Service contract	Opex cost: Maintenance charge- ~Rs. 15-20,000 per month Labor charge ~Rs. 300/day	Skill development for gardening and for any particular urban forestry method adopted a the site
7a.	SHGs performing landscaping and urban forestry work at <b>Sinnar FSTP</b>	The SHG will maintain the landscape and urban forest at the FSTP site. Of the 3 bids received, one SHG was awarded the contract.	Integrated one year contract for landscape and urban forest work	Contract value of Rs. 35,000 per month	SMC will organize at least one training session for SHG to provide them handholding support to understand landscaping and urban forest maintenance work
8	SHGs operating sanitation resource center at FSTP site	The SHG group will operate and maintain the resource center which will be located at the FSTP site.	Service contract	Opex cost: ~Rs. 10- 15,000	Technical capacity building on operating the devices, etc at the resource center
9	Composting at the FSTP site	The SHG group will operate and maintain the composting facility at the FSTP site	Service contract	Opex cost: ~Rs. 15- 20,000	Skill building on making compost from dried sludge and SWM organic waste

# Summary of Other Potential Business Models for SHGs in Sanitation and SWM – 1/2

	Name of model	Scope of model	Type of Contract	Value	Capacity Building
Othe	er Business models				
1	Sanitary napkin manufacturing unit	The SHG group will manage and implement the production, sales and distribution of napkins. The revenue will be based on the sale of sanitary napkins.	No contract/license required	Capex investment: Rs. 2.5 lakh Opex cost: 1.5 lakh per month	Technical training of SHG group on production technique of napkins
1a.	Production of sanitary napkins by SHGs in <b>Wani, Maharashtra</b>	3 ALF initiated 'Stay Fine', a women's based enterprise was established. They used the seed capital of the SHG's revolving fund under the ALF. ULB has provided designated space to the enterprise in the council office. The sanitary napkins are sold door-to-door through ASHA workers	No contract/license	Capex investment: Rs. 4.5 lakh	Capacity Building of SHGs by ULBs to initiate enterprise ULB organised multiple study tours for women to understand the production process involved in setting up a sanitary napkin production unit
2	Vermicomposting unit	The SHGs will set up the Vermicompost unit and prepare the vermicompost. The revenue will be based on sale of vermicompost and earthworms.	No contract/license required	Capex investment: Rs. 5,000 Opex cost: Rs. 2,000 per cycle	Skill building on making compost
3	Engaging SHGs in Door to Door Waste Collection in <b>Bhadravati,</b> Maharashtra	The SHGs conduct door to door waste collection from households, segregation and composting in Bhadravati. The SHG will lease the collection vehicles from ULB	7 months Contract between ULB and SHG	The SHG will collect Rs. 38 per household	
4	Engaging SHG for Door to Door Waste Collection in <b>Tuljapur,</b> Maharashtra	SHG women have been contracted in their own ward to collect door to door waste. They are appointed as "Swachhta Tai". They are also involved in awareness activities in relations to SWM	Contract between ULB and SHG		



# Summary of Other Potential Business Models for SHGs in Sanitation and SWM- 2/2

	Name of model	Scope of model	Type of Contract	Value	Capacity Building
Othe	r Business models				
5	Engaging SHG in cleaning and supervision of waste collection in <b>Panchgani, Maharashtra</b>	SHG performs sweeping, and provides supervision of segregated waste during door to door waste collection. One SHG is responsible for cleaning while the other two are involved in supervision of segregation of waste	Two years Contract between ULB and SHG	Rs. 8,000 per person per month is paid by ULB	Skill building workshops are conducted with SHG groups monthly on various topics related to solid waste management
6	Engagement of SHG in Operations and Maintenance of Hand Wash Facilities in <b>Sinnar,</b> <b>Maharashtra</b>	Supervision of functioning of Hand Washing Facilities by SHGs SHG members monitor facilities regularly and report to SMC in provided format. They also create awareness about hand-washing practices	SHGs are engaged for monitoring and awareness in their localities		SHG attends the fortnightly meetings organised by SMC to discuss on points related to hand washing facilities.
7	Engaging SHGs for awareness in communities in <b>Mira</b> <b>Bhayander, Maharashtra</b>	SHGs are engaged for awareness in communities for dry and wet waste segregation and other SWM awareness. They also prepared facemasks during Covid- 19 period.	Work order was given by ULB to SHGs		SHG women trained in vocational courses such as tailoring have been stitching masks for sale to citizens



### **Key lessons emerging from the existing SHG linked Business Models (1/2)**

### **Contracts leveraging SHGs**

### **Background**

### <u>Lessons</u>

- The process of bidding or tendering for contracts require potential bidders to have high turnovers, even when the work is small and could easily be done by an independent SHG
- A major challenge for SHGs is inconsistent payment cycles

- SHG-friendly and context-specific EOI/RFP/contracts are needed; ULBs need to adopt clauses that allow SHGs to fulfil alternative criteria to qualify for the bidding process
- Incentivize engagement of SHGs for formal contract for municipal services either through state; directives through GR or linking with flagship programme is a key
- Need to ensure payment based on work done by SHG with regularity

### **Key lessons emerging from the existing SHG linked Business Models (2/2)**

### Handholding support and guidance

### **Background**

• The SHGs are unaware of the work opportunities in the sanitation sector

### <u>Lessons</u>

- To encourage and support the SHGs in taking up sanitation related work, handholding support from the ULBs is needed
- ULBs need to identify particular areas of work in which the SHGs can be involved and raise awareness in its regards

### **Capacity Building**

### Background

• Many SHGs lack in entrepreneur development

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SHGs

• Continuous skill development is needed to strengthen the

### <u>Lessons</u>

- Capacity building of SHGs in the field of work is needed.
- Technical/ skill development lessons, entrepreneurial skill development and support is required for SHGs



# SHGs at Community Toilets/ Public Toilets

# **BM-1: Operation & Maintenance of Community Toilet/ Public Toilet contracted to SHGs (1/2)**



#### Funding and Financing:

Capex Cost By ULB/state government Opex cost By SHG Expenditure 1. Operations and maintenance of toilets under Opex: Cleaning agents SHG to bear charges for all petty expenses consumed on site: Brooms, wipers, • cleaners, dustpan, dustbins, etc. Petty expenses = ~10,000 2. Human resources 2 worker per toilet block in single shift – 4 worker per toilet block ٠ Cost: 4000\*4= 16.000 ٠ 3. Electricity cost and periodic maintenance of CT/PT will be funded separately by ULB.

3. Electricity cost and periodic maintenance of CT/PT will be funded separately by ULB. Provision of water supply will be the responsibility of the ULB

Sources of revenue for SHGs:

• The SHGs funds the cost through a fixed O&M fee from the municipality.

**Model description:** ULB awards a contract to a SHG for operating and maintaining the CT/PT. The ULBs will pay monthly fees to the SHGs. Payment can be decided against a fixed deliverable. Minor repairs are such as for handles, tap, bulb, etc. will be done by SHGs.



#### Mode of operation:

Mode of Operation	Service contract between SHG and ULB
Payment to SHG as per service contract	The municipality typically funds it through a combination of local taxes and state and national government financial assistance



### **BM-1: Operation & Maintenance of Community Toilet/ Public Toilet contracted to SHGs (2/2)**



Monitoring/ performance evaluation for service contract payments
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- ULB to deploy the City Engineer / Sanitation inspector for overall supervision/ inspection of CT/PTs
- SHGs to maintain daily attendance record
- Signed daily checklist sheet of cleaning items at CT/PTs to be submitted to ULB every month



#### **Risks:**

Delayed payments to SHGs



### **Capacity building**

No specific capacity building is required



# Case 1a: Operation & Maintenance of Community Toilet / Public Toilet contracted to SHGs in Hingoli, Maharashtra (1/2)

The ALFs have been involved in good morning pathaks during making Hingoli ODF and are now involved in O & M of toilets. In order to implement this a resolution was passed in June 2017 in the general body meeting that under the Swachh Maharastrha Abiyan, SHGs would be involved in O&M of all CT/PTs in the city. Work orders were signed by the ALF and the ULB, with a period of engagement for 3 years.



S N	Name of ALF	No. of SHGs in the ALF	Total no. of women
I	Rajmata Jijau, Jijamata nagar	15	150
2	Sambhaji Vidyasagar,	15	150
	Mastanshah nagar		
3	Niranjan Baba,	20	200
	Mahadevwadi		
4	Savitribai Phule,	10	100
	tofkhana		
5	Amar, Risala	20	200
and a	Total	80	800
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### Funding and Financing:

**Capex Cost** By ULB/state government **Opex cost** By SHG Expenditure 1. Operations and maintenance of toilets under Opex: Petty expenses: Cleaning agents, brooms, wipers, cleaners, bucket, mug, etc. Minor repairs to the handles, tap, bulb, etc. 2. Human resources 2 worker per toilet block in single shift. The women work in two shifts -• 5.30 am to 10 am/ 5 to 7 pm - 4 worker per toilet block • The SHGs funds the cost through a fixed O&M fee from the municipality. Amount Sources of revenue for SHGs: received to the ALF per toilet block is Rs. 13,200. Mode of operation:

Mode of Operation

Work order given by ULB to SHGs. Service contracts for three years

### **Case1a: Operation & Maintenance of Community Toilet / Public Toilet contracted to SHGs in Hingoli, Maharashtra (2/2)**







Sambhaji Vidyasagar Vastitar Sangh has received a national award on 3<sup>rd</sup> position – 'Swachhata **Excellence** Award' in 2018

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# SHGs for desludging service

# **BM-2: SHGs using Government-owned vehicles for operations for scheduled desludging (1/2)**



**Model description:** In this model, the SHG group will lease the desludging trucks from ULB and run the operations and maintenance for scheduled desludging. Under scheduled desludging, all septic tanks in a city are desludged once during a fixed cycle. So pre-defined septic tanks will have to be desludged by the SHG group daily. The SHG will need to have a contract for carrying out scheduled desludging activity in the city.





#### Mode of operation:

Sources of revenue

for SHGs:

Mode of Operation	Contract with ULB
Payment to SHG as per service contract	The municipality typically funds it through the sanitation tax/ local taxes

septic tanks cleaned per month

• The SHGs funds the cost through fees from the municipality against the number of

# **BM-2: SHGs using Government-owned vehicles for operations for scheduled desludging (2/2)**



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### Monitoring/ performance evaluation for service contract payments

- ULB to deploy the City Engineer / Sanitation inspector for overall supervision/ inspection of desludging operations
- Paper based monitoring capturing details of septic tank cleaning with signatures of households and FSTP operator. To verify if the collected septage is disposed at the designated site
- A monitoring app can be developed which monitors if the desludging trucks emptied the designated septic tank and disposed the septage at the FSTP/designated disposal site. It will also geotag the household, truck and FSTP site.

#### **Risks:**

- Breakdown of vehicles which will lead to delay in work
- Delayed payments by ULB



### **Capacity building**

- Technical capacity building
- Capacity building on using app for monitoring

# **BM-3: SHGs filling data in monitoring app (SaniTab/ SaniTrack) or conducting surveys during desludging services (1/2)**



**Model description:** In this model, the SHG group will accompany the desludging operator and fill in the data required during desludging. This will be filled on an online platform and later any data entry in relations to this will be the responsibility of the SHG group. Monthly payment will be released by the local government as per the contract between SHGs and ULBs.



Capex Cost	By SHG/ By ULB
Investment under Capex	Android phones- 2 phones- Rs 10,000
Opex cost	By SHG
Expenditure under Opex:	<ol> <li>Operations and maintenance</li> <li>Human resources         <ul> <li>1 on field data manager</li> <li>1 data operator</li> <li>Cost: 1*8,000 + 1* 8,000= 16,000</li> </ul> </li> <li>Repairs         <ul> <li>Minor repairs cost ~500 rs/month</li> </ul> </li> </ol>
Sources of revenue for SHGs:	• The SHGs funds the cost through fixed monthly fees from the municipality

Mode of Operation	Contract with ULB
Payment to SHG as per service contract	The municipality typically funds it through the sanitation tax/ local taxes

# **BM-3: SHGs filling data in monitoring app (SaniTab/ SaniTrack) or conducting surveys during desludging services (2/2)**



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### Monitoring/ performance evaluation for service contract payments

- ULB to deploy the City Engineer / Sanitation inspector for overall supervision/ inspection of desludging operations
- All details under the data entry checklist against all the septic tanks cleaned per month



### **Risks**:

• Delayed payments by ULB



### **Capacity building**

• Capacity building on using app for monitoring

# **BM-4: SHGs leasing government owned vehicles for demand desludging activity (1/2)**



**Model description:** In this model, the SHG group will lease the desludging truck from the local government and will use to provide demand-based desludging in the city. The household's grievances for desludging the septic tank will be addressed by the SHGs and the households will pay the desludging charges at the Local government office. After completing the desludging activity, SHG members will generate a bill and submits to the ULB based on which they will be paid Rs per tank.

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### **Funding and Financing:**

Capex Cost	By ULB/state government		
Opex cost	By SHG		
Expenditure under Opex:	<ol> <li>Operations and maintenance         <ul> <li>Cleaning septic tanks- per trip cost= ~1500 rs/trip</li> <li>Per trip cost will cover fuel cost</li> </ul> </li> <li>Human resources</li> </ol>		
	<ul> <li>1 driver, 2 helpers</li> <li>Cost: 1*15,000 + 2* 10,000= 35,000/ month</li> </ul>		

3. Repairs

• Minor repairs cost ~5000 rs/month

4. Periodic maintenance and any major repair of the desludging vehicle will be funded separately by ULB.

- Sources of revenue for SHGs:
- The SHGs funds the cost through fees from the municipality against the number of septic tanks cleaned



### Mode of operation:

Mode of Operation	License from ULB and leasing infrastructure from ULB
Payment to SHG as per service contract	The municipality typically funds it through the user charges which are received from the households who gets their septic tanks cleaned

# **BM-4: SHGs leasing government owned vehicles for demand desludging activity (2/2)**



### Monitoring/ performance evaluation for service contract payments:

- ULB to deploy the City Engineer / Sanitation inspector for overall supervision/ inspection of desludging operations
- To generate bills against each septic tank emptied to be submitted to ULB. The bill must have the signature of the household where desludging was conducted.
- A monitoring app can be developed which monitors if the desludging trucks emptied the designated septic tank and disposed the septage at the FSTP/designated disposal



### **Risks:**

site

- Breakdown of vehicles which will lead to delay in work
- Delayed payments to SHGs
- Low/uncertain demand for cleaning of septic tank

### Capacity building

- Technical capacity building and following SOP
- Capacity building on using app for monitoring



# **Case 4a: Engagement of SHGs in desludging activity in Latur**



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### **Funding and Financing:**

Capex Cost	By ULB/state government/donor	
Opex cost	By SHG	
Expenditure under Opex:	Operations and maintenance Human resources	
Sources of revenue	• The SHGs will collect Rs. 1.5/ liter	

- The SHGs will collect Rs. 1.5/ liter for desludging the septic tank
- The revenue will depend on the number of septic tanks and amount of septage the SHGs desludge



### Mode of operation:

for SHGs:

Mode ofService permission given to the SHGs by the ULBOperation

# **BM-5: Demand based desludging independently run by SHGs (1/2)**



**Model description:** In this model, the SHG group will buy their own desludging trucks and run the operations and maintenance of the demand based desludging activity. The SHG will need to take license/contract for carrying out desludging activity in the city.

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Capex Cost	By SHG	
Investment under	<ul> <li>For desludging truck capacity 3 kl: 25 lakh;</li> </ul>	
Capex cost	• For desludging truck capacity 5 kl: 40 lakh	
Opex cost	By SHG	
Expenditure under Opex:	<ol> <li>Operations and maintenance         <ul> <li>Cleaning septic tanks- per trip cost= ~1500 rs/trip</li> <li>Per trip cost will cover fuel cost</li> </ul> </li> <li>Human resources         <ul> <li>1 driver, 2 helpers</li> <li>Cost: 1*15,000 + 2* 10,000= 35,000/ month</li> </ul> </li> <li>Repairs         <ul> <li>Minor repairs cost ~5000 rs/month</li> </ul> </li> <li>Periodic maintenance and any major repair of the desludging vehicle             <ul> <li>Periodic maintenance ~10,000 Rs/month</li> </ul> </li> </ol>	
Sources of revenue for SHGs:	<ul> <li>The SHGs funds the cost through the user charges paid to them by the housel whose septic tanks are cleaned</li> </ul>	



### Mode of operation:

Mode of Operation License from ULB

# **BM-5: Demand based desludging independently run by SHGs (2/2)**



#### Monitoring of desludging service

• ULB to deploy the City Engineer / Sanitation inspector for overall supervision/ inspection of desludging operations

### **Risks:**

- Breakdown of vehicles which will lead to delay in work
- Investment required is high
- Low/uncertain demand for cleaning of septic tank



### **Capacity building**

• Technical capacity building





# SHGs at Faecal Sludge Treatment Plant (FSTP)

# **BM-6: SHGs operating Faecal Sludge Treatment Plants (1/2)**



#### Model description:

In this model, the government finances, designs and constructs the FSTP. The SHG group will operate and maintain the FSTP. It will self regulate and monitor the operations as well. Monthly payment will be released by the local government as per the contract between SHGs and ULBs.





### **Funding and Financing:**

Capex Cost	By ULB/state government/donor	
Opex cost	By SHG	
Expenditure under Opex:	<ol> <li>Operations and maintenance activities (Based on technology)         <ul> <li>Scraping of dry sludge from SDBs</li> <li>Replanting Phytorids whenever required</li> <li>Operating the motor pumps</li> <li>Maintaining the site</li> <li>SHG to bear charges for all petty expenses consumed on site during the regular course of O&amp;M allotted to them under the Contract: Brooms, wipers, cleaners, dustpan, dustbins, etc- ~Rs. 5000 per month</li> </ul> </li> <li>Human resources         <ul> <li>1 FSTP operator- Rs. 15,000 per month</li> <li>2 Helpers- 2* Rs. 10,000 per month</li> <li>1 Guard- 8,000 per month</li> <li>Salary: 43,000 per month</li> </ul> </li> <li>Electricity cost and periodic maintenance of FSTP units will be funded separately by ULB. Water supply will be provided by ULB.</li> </ol>	
Sources of revenue for SHGs: Mode of oper	<ul> <li>The SHGs funds the cost through a fixed O&amp;M fee from the municipality.</li> <li>They can also raise revenue from the sale of reuse products.</li> </ul>	
Mode of Operation	Service contract between SHG and ULB	
Payment to SHG as per service contract	The municipality typically funds it through a combination of local taxes and state and national government financial assistance	

# **BM-6: SHGs operating Faecal Sludge Treatment Plants (2/2)**



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### Monitoring/ performance evaluation for service contract payments:

- ULB to deploy the City Engineer / Sanitation inspector for overall supervision of FSTP
- SHGs to maintain daily attendance record
- Daily logbook book maintenance at FSTP for disposal of sludge through desludging vehicles
- Logbook maintenance of sludge scrapping frequency and replanting phytorids with images
- Getting quality of treated samples checked regularly. Test reports to be provided.



### **Risks:**

Delay in payments by the ULB



### **Capacity building and resources needed**

- Technical expertise is to be built of SHGs for operating the FSTP ٠
- In-depth knowledge of SOP for Operating and maintaining FSTPs
- Regular coordination meetings between SHGs and ULBs
- ULB to provide additional compensation for these tasks along with adequate training, tools, equipment and PPE.

### **Case 6a: Operation and maintenance of FSTP at Berhampur, Odisha by City Level Federation of SHGs (1/3)**

**Funding and Financing:** 

Capex Cost

Berhampur Municipal Council is the custodian of the FSTP and Agrata CLF is the city level Federation of all the SHGs in the city and is engaged in taking up the task of operation and maintenance work at FSTP. After the joint inspection by BeMC and CLF, the FSTP was handover to CLF for its O&M.

By ULB/state government/donor





Opex cost	By SHG
Expenditure under Opex:	<ol> <li>Operations and maintenance activities         <ul> <li>CLF shall bear all expenses related to operation and maintenance of the SeTP</li> <li>CLF to bear charges for all petty expenses consumed on site during the regular course of O&amp;M : Brooms, wipers, cleaners, dustpan, dustbins, etc- ~Rs. 5000 per month</li> </ul> </li> <li>Human resources         <ul> <li>1 Chemist cum plant manager- Rs. 26,000 per month</li> <li>1 pump driver cum electrician- Rs. 17,500 per month</li> <li>2 Sludge cum vacuum tank operator- Rs. 34,000 per month</li> <li>3 watchman- Rs. 45,000</li> <li>2 Gardener- Rs. 30,000</li> </ul> </li> </ol>
	3. Any other form of maintenance activities such as preventive or breakdown maintenance shall be the responsibility of BeMC. Tools, equipments, PPE kits will also be provided by BeMC. expenditure for compliances, certifications, tests, equipment at the lab as prescribed
Sources of revenue for SHGs:	<ul> <li>The SHGs funds will be compensate by the BeMC for deploying human resource and performing their duties</li> <li>CLF can take-up related revenue generating activities such as composting, reuse of biosolid, etc. within the SeTP premises with written approval from BeMC</li> <li>If tipping fee is introduced in future through cesspool operation vehicles, the same will be collected by CLF and the same will be deducted from amount paid by BeMC to CLF.</li> </ul>

### **Case 6a: Operation and maintenance of FSTP at Berhampur, Odisha by City Level Federation of SHGs (2/3)**





Mode of Operation

### Monitoring/ performance evaluation for service contract payments:

Service contract between CLF and ULB

- BeMC shall deploy one senior Engineer as the Nodal Officer to have overall supervision of SeTPs and deploy a subordinate engineer for assisting him or her to discharge this function
- Daily attendance and HR deployment shall be verified by Nodal officer appointed by BeMC.





#### **Risks**:

Delayed payment by BeMC.



#### **Capacity building and resources needed**

- BeMC shall take responsibility of the capacity building of the CLF with the help of SUDA and OWSSB.
- BeMC shall ensure CLF is trained on using these tools and equipment before starting work

### Case 6a: Operation and maintenance of FSTP at Berhampur, Odisha by City Level Federation of SHGs (3/3)

Specific responsibilities of the local government or OWSSB:

- BeMC to handover proper working FSTP
- Any other form of maintenance activities such as preventive or breakdown maintenance shall be the responsibility of BeMC.
- Tools, equipments, PPE kits will also be provided by BeMC
- Adequate consumables, equipment, tools, PPE and supplies to conduct the laboratory tests for various parameters of the septage
- To support CLF on testing and regular technical support on managing the SeTP, a technical resource shall be provided by OWSSB at its own cost and deputed at the SeTP
- To submit quarterly report to the state
- It shall conduct bi-monthly review of the O&M along with CLF, Technical resource deployed at the SeTP.
- To ensure disposal of all septage at SeTP by all desludging operators
- To ensure adequate and regular supply of organic municipal solid waste for co-composting inside the SeTP

#### Specific responsibilities of the CLFs:

- CLF to keep record of PPE. CLF on their own shall procure PPE anytime as per requirement.
- It shall submit a list of all the members/ SHG who would be engaged at the plant along with the resolution signed by all members/SHG to be engaged at the SeTP including their assigned roles and remuneration agreed mutually
- CLF shall always ensure that necessary know-how, expertise and personnel are identified and engaged
- The CLF shall ensure proper safety precautions are taken while operating the SeTP and will use Personal Protective Equipment (PPE)
- The CLF shall ensure for a regular health check-up of all its members



# BM-7: SHGs performing landscaping and urban forestry work at FSTPs (1/2)



**Model description:** In this model, the SHG group will carry out the landscaping work at the FSTP area, urban forestry maintenance or Cultivating cash crops out of treated WW and solids. Monthly payment will be released by the local government as per the contract between SHGs and ULBs. The revenue from the reuse products can be given as an incentive to the SHG group members.



#### Funding and Financing:

By ULB/state government/donor Capex Cost **Opex cost** By SHG Expenditure 1. Operations and maintenance activities under Opex: Daily maintenance of landscape and urban forest site Mowing/trimming of all lawn areas- Rs. 10,000-20,000 Periodical spraying of pesticides Watering the plants regularly Procurement of various materials like plants, fertilizers, pesticides, lawn mower and other garden tools (khurpi, rake, shovel, hedge shears, pruning shears) required for upkeep of the landscaped areas shall be done by the SHG- ~ Rs. 5000 per month 2. Human resources Labour charges- Rs. 300/day • 3. Electricity cost and water supply will be provided and funded by the ULB. Water from the treated effluent tank will be used for watering the plants in landscape area and urban forest. Additional requirement of water will be satisfied by the ULB Sources of revenue The SHGs funds the cost through a fixed O&M fee from the municipality. • They can also raise revenue from the sale of fertilizer or vegetation/ plantation grown for SHGs: at FSTP landscape/urban forestry site. Mode of operation:

Mode of Operation	Service contract between SHG and ULB
Payment to SHG as per service contract	The municipality typically funds it through a combination of local taxes and state and national government financial assistance



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# **BM-7: SHGs performing landscaping and urban forestry work at FSTPs (2/2)**





### Monitoring/ performance evaluation for service contract payments

- ULB to deploy the City Engineer / Sanitation inspector for overall supervision/ inspection of FSTP site who will also inspect the FSTP landscape and urban forestry areas
- SHG will maintain a daily log book of the work done and materials used
- Monthly payment will be made to the SHG against submission of bills, list of materials/plants procured and activities that they have undertaken in a given month



#### **Risks:**

Delayed payments by ULB



### Capacity building

• Skill development for gardening and for any particular urban forestry method

adopted at the site

# **Case 7a: Contract awarded to SHG for maintaining landscape and urban forest at Sinnar FSTP site (1/2)**

A tender was floated by Sinnar Municipal Council for SHGs to maintain the landscape and urban forest at Sinnar FSTP. 3 bids were received from 3 SHGs. From this, the contract was awarded to one SHG group. The total contract value is of Rs. 35,000 per month which will be paid by the ULB to the SHG group.

SHGs to

<u>ه</u>	Funding and F	inancing:	
Local government	Capex Cost	By ULB/state government/donor	
	Opex cost	By SHG	
Payment under contract	Expenditure under Opex:	<ol> <li>Operations and maintenance activities</li> <li>Daily maintenance of landscape and urban forest site- cleaning, cutting and</li> </ol>	
to maintain Landscape/urban forest at FSTP		<ul> <li>trimming of plants, spraying insecticides, applying manure, watering plants</li> <li>Procurement of various materials like plants, fertilizers, pesticides, lawn mower and other garden tools (khurpi, rake, shovel, hedge shears, pruning shears) required for upkeep of the landscaped areas shall be done by the SHG</li> <li>Human resources <ul> <li>Labour charges</li> </ul> </li> <li>Electricity cost and water supply will be provided and funded by the ULB. Water from the treated effluent tank will be used for watering the plants in landscape area and urban forest. Additional requirement of water will be satisfied by the ULB</li> <li>Total Opex cost ~ Rs. 35,000 per month</li> </ul>	
	Sources of revenue for SHGs:	• The SHG will funds the cost through a fixed O&M fee from the municipality.	
	Mode of ope	Mode of operation:	
	Mode of Operation	Service contract between SHG and ULB	
2020/6/24 16:01         2020/6/24 16:02           2020/6/24 16:01         CENES           CENES         CENES           CENES         CENES           CENES         CENES           CENES         CENES	Payment to SHG as per service contract	The municipality typically funds it through a combination of local taxes and state and national government financial assistance	
# Case 7a: Contract awarded to SHG for maintaining landscape and urban forest at Sinnar FSTP site (2/2)





#### Monitoring/ performance evaluation for service contract payments

- SHG will maintain a daily log book of the work done and materials used
- Monthly payment will be made to the SHG against submission of bills, list of materials/plants procured and activities that they have undertaken in a given month



### **Risks:**

SMC will open an escrow account in a nationalized bank to ensure timely monthly payment to SHG. This account will have a deposit equal to at least three months of payment to SHG. This will reduce the risks of delayed paments



### **Capacity building**

• In case the SHG is not aware on how to carry out maintenance work for the garden and urban forest at the FSTP, SMC will organize at least one training session for SHG to provide them handholding support to understand this

# **BM-8: SHGs operating sanitation resource center at FSTP site** (1/2)









### Funding and Financing:

Capex Cost	By ULB/state government/donor
Opex cost	By SHG
Expenditu under Ope	
	<ul> <li>2. Human resources <ul> <li>1 resource center in-charge</li> <li>1 helper</li> <li>Cost: 1*8,000 + 1* 5,000= 13,000</li> </ul> </li> <li>3. Electricity cost and water supply will be provided and funded by the ULB</li> </ul>
Sources of rev	• The SHGs funds the cost through a fixed O&M fee from the municipality.

Sources of revenue for SHGs: The SHGs funds the cost through a fixed O&M fee from the municipality.



### Mode of operation:

Mode of Operation	Service contract between SHG and ULB
Payment to SHG as per service contract	The municipality typically funds it through a combination of local taxes and state and national government financial assistance

# **BM-8: SHGs operating sanitation resource center at FSTP site** (2/2)





#### Monitoring/ performance evaluation for service contract payments

- ULB to deploy the City Engineer / Sanitation inspector for overall supervision/ inspection of FSTP site who will also inspect the resource center
- Details of numbers of SHG members that will be employed. Daily attendance record to be maintained by SHGs



#### **Risks:**

• Delayed payments by ULB



### **Capacity building**

• Technical capacity building on operating the devices, etc at the resource center



# **BM-9: Composting at the FSTP site (1/2)**





### **Funding and Financing:**



Model description: In this model, the SHG group will operate and maintain the composting facility at the FSTP site. Monthly payment will be released by the local government as per the contract between SHGs and ULBs.



for SHGs:

• The sale of the compost will be an additional source of income for SHGs



### Mode of operation:

Mode of Operation	Service contract
Payment to SHG as per service contract	The municipality typically funds it through a combination of local taxes and state and national government financial assistance

# **BM-9: Composting at the FSTP site (2/2)**



### Monitoring/ performance evaluation for service contract payments

- ULB to deploy the City Engineer / Sanitation inspector for overall supervision/ inspection of FSTP site who will also inspect the resource center
- Details of numbers of SHG members that will be employed. Daily attendance record to be maintained by SHGs
- A log book to be maintained by SHGs of the daily activities carried out



### Capacity building

**Risks:** 

• Skill building on making compost from drier sludge and SWM organic waste



# SHGs involved in other sanitation activities

# **Production of sanitary napkins by SHGs in Wani, Maharashtra** (1/2)

Capex Cost       By SHG         Capex Cost       By SHG         Capex Cost       By SHG         Copex cost       Copex cost         Copex cost       Production of sanitary napkins         Production of sanitary napkins       Production of napkins         Production of sanitary napkins are sold door to door. The revenue of SHGs will be through sality of sanitary napkins.         Copex cost       Sources of revenue for SHGs:         Copex cost       Sources of revenue for SHGs:         Copex cost       Sources of revenue for SHGs:         Copex cost       Production of copex-top         Copex cost       Sources of revenue for SHGs:         Copex cost       Copex cost	\$	Funding and F	inancing:
Correction Capex investment seed capital of 4.5 lacs from the revolving fund of the SHGs   Correction By SHG   Correction By SHG   Correction Corrections and maintenance activities   Production of sanitary napkins Production of sanitary napkins   Production of sanitary napkins Production of sanitary napkins   Production of sanitary napkins Production of sanitary napkins   Production of sanitary napkins are sold door to door. The revenue of SHGs will be through salit of shartery napkins.   Production of sanitary napkins.			
Cost       The ULB provided a space in ULB office unit for the set up of this enterprise         Diger Parishad, Gandhi Chowk Wani, District Yavatmal 445304       Gost       By SHG         Staffens is utra this sanitary napkins, which is made of bet quality raw materials; therefore STAFFNE offers more number of production of sanitary napkins       9 Production of sanitary napkins         Staffens is utra this sanitary napkins, which is made of bet quality raw materials; therefore STAFFNE offers more number of production of napkins       9 Production of sanitary napkins         Staffens for use       Directions for use was number of staffens more number of production of napkins       9 Production of sanitary napkins are sold door to door. The revenue of SHGs will be through sale for SHGs:         Staffens for use and the number of staffens more numere of staffens more number	STAYFINE	Capex Cost	By SHG
Description   Support   Support </td <td>UV Treated, Premium Quality, Ultra Thin Sanitary Napkin</td> <td>-</td> <td>· · · · · · · · · · · · · · · · · · ·</td>	UV Treated, Premium Quality, Ultra Thin Sanitary Napkin	-	· · · · · · · · · · · · · · · · · · ·
<ul> <li>Expenditure under Opex:</li> <li>Styre Furshad, Gandhi Chowk Wani, District Yavatnal 44534</li> <li>Expenditure under Opex:</li> <li>Styre Furshad, Gandhi Chowk Wani, District Yavatnal 44534</li> <li>Expenditure under Opex:</li> <li>Styre Furshad, Gandhi Chowk Wani, District Yavatnal 44534</li> <li>Expenditure under Opex:</li> <li>Styre Furshad, Gandhi Chowk Wani, District Yavatnal 44534</li> <li>Styre Furshad, Candhi Chowk W</li></ul>		cost	The ULB provided a space in ULB office unit for the set up of this enterprise
Ngar Parishad, Gandhi Chowk Wani, District Yavatmal 445304       under Opex:              • Production of sanitary napkins.             • Production of napkins.             • Labour charges             • Labour charges             • Labour charges             • The sanitary napkins. and of operations:             • The sanitary napkins.             • Operation             • The sanitary napkins.             • The sanitary napkins.             • The sanitary napkins.             • The sanitary napkins.             • The sanitary napkins             • The sanitary napkins.		Opex cost	By SHG
<ul> <li>StayFiNE is ultra thin sanitary napkins, which is made of best qualify raw materials: therefore STAYFINE offers more comfort for long hours even in sudden heavy flow.</li> <li>Directions for use</li> <li>Directions for use</li> <li>Charles and the stage of the ways and the stage of your networks.</li> <li>Attained For. No. MH87/17.</li> <li>Directions for use</li> <li>Attained For. No. MH87/17.</li> <li>Directions for use</li> <l< td=""><td></td><td>•</td><td>•</td></l<></ul>		•	•
<ul> <li>2. Human resources</li> <li>2. Labour charges</li> <li>2. Labour charges</li> <li>3. Labour charges</li> <li>4. Labour charges</li> <li>4. Labour charges</li> <li>5. The sanitary napkins are sold door to door. The revenue of SHGs will be through sale of sanitary napkins.</li> <li>5. The sanitary napkins.</li> <li>5. The sanitary napkins.</li> <li>5. Mode of operation:</li> <li>5. Mode of Three ALF have come together to form an enterprise by the name of J2P</li> </ul>	Nagar Parishad, Gandhi Chowk Wani, District Yavatmal 445304	under Opex:	
STAYFINE is ultra thin sanitary napkins, which is made of search quality raw materials; therefore STAYFINE for some comfort for long hours even in sudden heavy flow.       Sources of revenue       • <t< th=""><th></th><th></th><th>2. Human resources</th></t<>			2. Human resources
comfort for long hours even in sudden heavy flow.         Directions for use         Pael of the release paper from the back of the pade.         1 Stek the pade of your party cretch and press flowing.       Directions for use         1 Stek the pade of the release paper from the way.       Directions for use         1 Stek the pade of your party cretch and press flowing.       Directions for use         1 Stek the pade of your party cretch and press flowing.       Directions for use         1 Attriated F.RG. NO. MH/87/17.       Battel His:         PRENA ALF.RG. NO. YTL00002072018.       Battel His:         Mign are:       Mign are:         J2PP Industries       Mode of operation:         Nagar Parishad, Gandhi Chowk Wani, District Yavatmal 445304       Mode of			Labour charges
Directions for use   1) Pred of the release paper form the back of the page rad threw tip in a dusthin.   2) Stick the pad on your panty crotch and press firmly.   3) Foid the wings around the back.   Aital ALF RG, NO. MH/87/17, PRAGATI ALF RG, NO. YTL00002122018 Batch No.: Mig. Date : Batch No.: Mig. Date : Mig. Date :<		Sources of revenue	• The sanitary napkins are sold door to door. The revenue of SHGs will be through sale
Mital ALF RG. No. MH/87/17, PRERNA ALF RG. No. YTL00002122018       Mits. Bate : Exp. Bate : Exp. Bate : MRP :         J2P Industries       Nagar Parishad, Gandhi Chowk Wani, District Yavatmal 445304         Mode of       Three ALF have come together to form an enterprise by the name of J2P	1) Peel of the release paper from the back of the pad.     1) Wrap the pad in paper       2) Stick the pad on your panty cortch and press firmly.     and threw it in a dustbin.       3) Peel off the release paper from the wings.     2) To prevent clogging of       4) Fold the wings around the sides of your panty crotch, drains, do not flush pads.	for SHGs:	· · ·
Nagar Parishad, Gandhi Chowk Wani, District Yavatmal 445304       Mode of       Three ALF have come together to form an enterprise by the name of J2P	AITAI ALF RG. NO. MH/87/17, PRAGATI ALF RG. NO. YTL00002072018, PREPNA ALF RG. NO. YTL00002172018 <b>Exp. Date</b> :	Mode of ope	eration:
Wide of The eAct have come together to form an enterprise by the name of 521			Three ALE have some together to form on enterning by the same of LOD
Operation Industries Under Which Stavtine has been jaunched	Ragar Farianad, Sanum Onown Wall, District Tavatinal 445304	Mode of Operation	Inree ALF have come together to form an enterprise by the name of J2P Industries under which Stayfine has been launched



# Production of sanitary napkins by SHGs in Wani, Maharashtra (2/2)



# **Risks**:

- The women could not resume the initiative during the lockdown and were involved in stitching face masks from their respective homes.
- The enterprise is currently working towards finding clients and are exploring initiatives to supply the produce.



### **Capacity building**

• Technical capacity building on preparing sanitary napkins

### Engaging SHGs in Door to Door waste collection in Bhadravati, **Maharashtra**



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### Funding and Financing:

By SHG
<ol> <li>Operations and maintenance activities         <ul> <li>4 SHG groups are involved in door to door collection, waste segregation and composting activities</li> <li>Procuring PPE kits for workers</li> <li>12,000 households are to be covered</li> <li>ULB will provide vehicle maintenance, in case the expenditure is less than Rs. 500 the SHG will undertake the repair work. In case the expenditure incurred is more than Rs. 500, the ULB will undertake the cost.</li> </ul> </li> </ol>
•



#### Mode of operation:

Service contract between SHG and ULB

Mode of Operation



### Monitoring/ performance evaluation for service contract payments

The SHG will not receive any payment for the day when waste is not collected if unavailability ٠ of vehicle.

# **Engaging SHG for Door to Door waste collection in Tuljapur**

ULB has collectivised women into an various SHGs who have been contracted through a contractor for various SWM activities. SHGs are involved in Swachh Maharashtra activities. Uniforms were also provided by ULB to the SHG members and the member was appointed as "Swachhta Tai". ULB has been appreciating the activities done by the SHG members by giving Best Swachhata tai Awards on monthly basis.



Mode of

Operation

UB

Service contract between ULB and SHG

### **Engaging SHG in cleaning and supervision of waste collection in Panchgani (1/2)**

Pachgani Municipal Council has collectivitised 28 women into 3 SHG groups called the 'Swachagrahis. One SHG comprising of 10 women is responsible for the cleaning of table land while other two groups comprising of 18 women in total accompany the waste collection vehicle and supervise waste segregation. The SHGs oversee the segregation of dry waste into blue dustbins and red dustbins and talk to citizens about importance of segregation of waste.



Funding and F	<b>Financing:</b> By ULB/state government/donor		
Capex Cost			
Opex cost	By SHG		
Expenditure	1. Operations and maintenance activities		
under Opex:	1. One SHG will conduct sweeping		
	2. Two SHGs are involved in supervision for segregation of waste		
	2. Human resources		
	Labour charges		
Sources of	<ul> <li>The SHG will funds the cost through a fixed O&amp;M fee from the</li> </ul>		
revenue for	municipality. Rs. 8000 per person per month		
SHGs: Mode of ope	eration:		

Mode of Operation Service contract between SHG and ULB

### **Engaging SHG in cleaning and supervision of waste collection in Panchgani (2/2)**



India



Monitoring/ performance evaluation for service contract payments

• The council monitors the activities of the SHG groups through geo tagged photos shared on the whatsapp groups. According to the city officials, geo tagging also assists in grievance redressal as the complains can be directed to the worker and addressed directly



20°C

68°F

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### **Capacity building**

 Skill building workshops are conducted with SHG groups monthly on various topics related to solid waste management

### **Engagement of SHG in operations and maintenance of hand wash** facilities in Sinnar

Sinnar Municipal Council (SMC) with support from Water and Sanitation (CWAS), CRDF, CEPT University has provided pedal operated hand-washing (HW) facilities at 22 different locations in the city. Self-help groups (SHGs) and communities have been involved at the various level of decision making and monitoring of the facilities. SMC, through its SHG groups under NULM also identified SHG members who could monitor these facilities regularly and have provided them with monitoring formats on which the SHGs record their observation and report to SMC



CEPT

Fu	und	ing	and	F
		·····		

### inancing:

Capex Cost	By ULB		
Opex cost	By ULB		
Expenditure	No expenditure to be incurred by SHG. Opex expenses are done by council		
under Opex:	Activities carried out by SHGs:		
	1. Monitoring handwashing facilities		
	2. Awareness generation for hand washing		
Sources of revenue for	<ul> <li>The activity is conducted free of cost for now</li> </ul>		

#### Mode of operation:

Mode of Operation

SHGs:

SHGs are engaged by ULBs for monitoring and awareness in their localities

## **Engaging SHGs for awareness in communities in Mira Bhayander**

Municipal Corporation released a ten day tender to engage 10 SHG groups for awareness activities. 10 SHG groups have been allocated 20 societies each in six wards of the city. A total of 110 women have been engaged for the activities. The SHGs have been provided permit letters by corporation to conduct awareness sessions in residential socities in each ward. The SHG groups have been conducting awareness programs on dry and wet waste segregation and disposal of diapers and sanitary napkins with markings. In group discussions with women, the SHG groups have been focusing on process of home composting in buildings. The SHG groups have taken sessions with society members on Reduce, Reuse and Recycle

	TURNE: 2013/201 / 2013/201 / 2013/201 / 2010/201 / 2010/201	<b>S</b> Funding and F	Funding and Financing:		
The set of	मिरा-भाइंदर महानगरपालिका पुरुष वार्षाय पार MIRA-BHAIDAR MUNICIPAL CORPORATION व. संरत गंधे पर, प्रस्ते नित्तमे वार्ष (र.), त. त. वर्ष्ट्रबर्ग्र व प्रतार प्रतियोध पर, प्रस्ते नित्तमे वार्ष (र.), त. त. वर्ष्ट्रबर्ग्र व प्रतार प्रतियोध पर, प्रस्ते नित्तमे व्या (र.), त. त. वर्ष्ट्रबर्ग्र व प्रतार प्रतियोध पर, प्रस्ते नित्तमे व्या (र.), त. वर्ष्ट्रबर्ग्र व प्रतार प्रतियोध पर, प्रस्ते नित्तमे व्या (र.), त. वर्ष्ट्रबर्ग्र व प्रतार प्रतियोध पर, प्रस्ते नित्तमे व्या (र.), त. वर्ष्ट्रबर्ग्र व्या (र.), त. वर्ष्ट्रवर्ग्र व प्रकार के व्या (र.), त.)	Capex Cost	By ULB		
	vitit, # Theoffnerres adjust street with X A. To trait addr. and the X A. To trait addr.	Opex cost	By SHG		
O BERMINITES HER	New > evens where 2011 when IEC Activity pert accorpt executed. The setter employment where have been been been default down (BBB) and down its Around and 2010 cell and down according the according and the principal of all down (BBB) and the activity of any down and a setter down and its 1000000 from whethere we are even at principal and its the initial according and the according and the according and the according and the according and the its according and the according and the according and the according and the according and the its according and the ac	Expenditure	1. Operations and maintenance activities		
	In the field Automatic Company of Execution Servey (in the control Servey (in a control Servey) and it is instance.     Other Automatic Company of Execution Servey (in control of the parameters and the control of the control o	under Opex:	1. Conducting awareness programs on various topics: waste		
	(K. and K. and K		segregation, composting at home, reuse and recycle		
PADE MATE DAyandar, Maharashtra, India Diguna Santa Santa Santa Santa S	तिर - सर्टर प्रत्ये संगेरपत्नी प्रत्यों सेवाला सेवला प्रत्यालय कृता त्याय कार देताता कार्यवनी काप्यता तहत.	کی Mode of oper	ration:		

Mode of Operation Service contract between SHG and ULB



CWAS CENTER FOR WATER AND SANITATION

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The Center for Water and Sanitation (CWAS), CRDF at CEPT University carries out various activities – action research, training, advocacy to enable state and local governments to improve delivery of services.



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