



# Convergence in NREGS and TSC

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Solid-Liquid Waste Management  
(SLWM)

District : Junagadh



# Components

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- Solid waste - collection, transportation, and disposal
- Liquid waste (grey water) management
- Ownership of the project by the PRIs.
- Turning SLWM into a Profitable activity



# Solid Waste

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- Collection, Transportation and Disposal
  - Door to door collection
  - Cleaning of streets
  - Interim storage and final disposal of the waste at the outskirts of the village
- Equipments
  - Tricycle; wheel barrow; containers; litter bins; broom; etc.



# Liquid Waste – design as per CEPT Uni.

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- A network of Underground PVC pipes gutter connecting every house
- All backward class HH/Area covered in the project
- Junction/Inspection chambers at appropriate distance. The base of chamber at lower level than inflow- outflow pipes
- Pipes finally drain into stabilizing ponds at different locations depending upon the gradient
- Design (pipe diameter, etc) caters to the population growth in next 30 years



# **PIPALAVA VILLAGE (MALIYA HATINA)**

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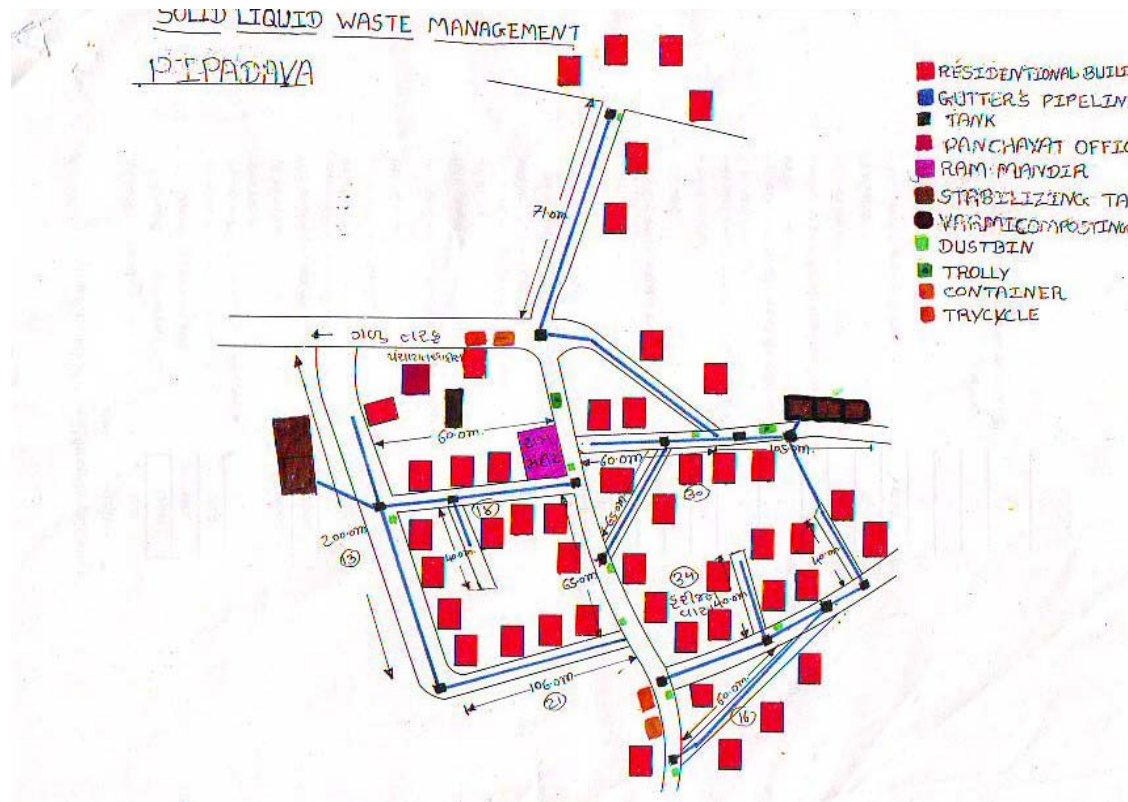
- **88 households (2001); 151 (projected for 2011)**
- **Sanitation equipments**
  - **wheel barrows 4, litterbins 6, tricycles 2, and containers 2**
- **Drainage system network of 1751 mtrs. long PVC pipes.**
- **Provision of 45 junctions or inspection chambers.**
- **Total expenditure of Rs. 5.95 lacs labour (62.11%), and Rs 3.63 lacs material (37.89%), Total Estimated Cost Rs. 9.58 lacs**
- **Public contribution of Rs. 1.09 lacs.**

# PIPALAVA VILLAGE (MALIYA HATINA)

## CONVERGENCE OF SCHEMES AND ITS COMPONENT

SR. NO	HEAD	AMOUNT Rs. In lacs	PERCENTAGE	REMARKS
1	2	3	4	5
1	NREGS (1) LABOUR :	2.78	67.08 %	NREGS CONTRIBUTES 43.21% OF TOTAL COST
	(2) MATERIAL :	1.36	32.92 %	
	TOTAL :	4.14	100 %	
2	TSC*	4.35	80 %	TSC CONTRIBUTES 45.41% OF TOTAL COST
	*incl. PVC PIPE & SANITATION EQUIP. Rs. 3.01 lacs			
3	PUBLIC CONTRIBUTION	1.09	20 %	PUBLIC CONTRIBUTES 11.38%
	TOTAL :	9.58		

# Pipalva, Taluka Maliya (Hatina)



# DISTRICT RURAL DEVELOPMENT AGENCY, JUNAGADH EXCAVATION UNDER NREGS





**DISTRICT RURAL DEVELOPMENT AGENCY,  
JUNAGADH  
LAYING & JOINING OF PIPES FOR DRAINAGE**



# DISTRICT RURAL DEVELOPMENT AGENCY, JUNAGADH JUNCTION & INSPECTION CHAMBER



**DISTRICT RURAL DEVELOPMENT AGENCY,  
JUNAGADH  
DOOR TO DOOR COLLECTION BY TRICYCLES**





# PRIs Ownership

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- Village Sanitation Committee, headed by Sarpanch implements the project
- Gram panchayat levies sanitation tax, helps meet expenses
- It appoints SHG/ Sakhi Mandal or contract based sweepers

The District / Taluka DRDA provides necessary technical / financial support



# Perspective

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- Survey and designs completed for another 12 villages, thereby covering 1village/ taluka
- Still further 35 Sarpanches have shown keen interest to implement SLWM in their villages.



# Converging the scarce resources

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- NREGS – labour intensive work
- TSC (SLWM fund)
- PRIs Contribution –
  - Nirmal Gaam Puraskar
  - Samras scheme
  - Panchayat Svabhandol

Target is to utilise 13<sup>th</sup> finance commission funds given to PRIs for development (30% of which is for Sanitation)



# A Profitable Venture in Future

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- Solid Waste – segregated waste to be disposed off for composting. Technical support from Junagadh Agriculture Uni.
- Liquid Waste – treatment of water in stabilising pond/tank and reusing for agriculture/ horticulture