

Material Recovery Facility, Bicholim

The Goa Waste Management Corporation has partnered with United Nations Development Program (UNDP) a subsidiary body of United Nations for a project concerning Plastic Waste Management wherein the UNDP has agreed upon to operate GWMC established Material Recovery Facility (MRF) at Bicholim at no cost to GWMC. The Bicholim MRF caters to dry waste of 1 Municipal Council and 30 Village Panchayats along with Schools dry waste in 4-way segregated manner.

Project Area Name

Bicholim Taluka		Sattari Taluka	
Village Panchayat	Municipal Council	Village Panchayat	Municipal Council
Harvalem	Bicholim	Pissurlem	Valpoi
Sarvan	Sankhali	Querim	
Pilgao		Morlem	
Mulgao		Poriem	
One-maulinguem		Nagargaon	
Pale		Mauxi	
Surla		Dongurli -Thane	
Velguem		Guleli	
Navelim		Cotorem	
Cudnem		Bhironda	
Amona		Savordem	
Sal		Honda	
Mencurem			
Latambarcem			
Adwalpal			
Sirigao			
Mayem			
Naroa			

a) Waste transaction details:

Waste flow at the center is from Bicholim Municipal council and Panchayats through GWMC vehicle, School and College 4 way segregated dry waste is also transported through GWMC vehicle. Under this project the valuable Recyclable dry waste is directly purchased from the concerned Village Panchayats. A standard rate list is also submitted to all concerned Village Panchayats.

To process this waste, Machinery is made available at the site which helps in value addition.

- a) Conveyor Belt- This machine is provided by GWMC. It helps in streamlining the segregation of the waste. It is installed at site.
- b) Baling Machine- This machine is provided by GWMC to the project. This machine helps in compressing the segregated PET bottle, MLP, Paper etc. it helps in reducing the volume of the waste and including non-recyclables which further goes to Cement Plant as RDF for co-incineration.
- c) Phatka- This machine put through UNDP. This is used in cleaning the dust from the thing plastic.
- d) Shredder- This machine put through UNDP. This is used in shredding the thin plastic into 3 to 4 mm chips.
- e) Extruder- This machine put through UNDP. This is used to make Granules.

Manpower (Safai Mitraa) on boarding details:

safai mitras are employed at the Material Recovery Facility. They are provided with Personal protective equipment like Gloves, Mask, t-shirt, Uniform, Boots, safety spectacles.

SHG – Two SHGs has been formed at the center for waste pickers. Name of SHG-

Brahmaneshwar Swachhta kendra & Jai Santoshi Mata Swachhta Kendra

Through this project we are working on the capacity building, income generation, Health, Bank linkages, Insurance of the Safai Mitras. The salary of the safai mitras are transferred into their respective bank Account.

b) IEC Activities details:

Mineral foundation Goa (MFG) has been appointed by UNDP to carry out IEC activities within the project zone. Major achievement through this project is the preparation of Village Waste Management Plan for concerned Village Panchayats of project zone, as per the guidelines of GWMC. Daily field members of MFG visits the panchayats and council area for awareness and segregation session at the house hold level. This has shown results in getting source segregated waste from household. Bags has been distributed to all households within the jurisdiction of Village Panchayats for storing and collection of waste which is further segregated at sorting and collection centers present within the jurisdiction of every Panchayats.

No	ULBs Covered	Types of Activity	Target Audience
1	Bicholim Municipal Council	Health camp was organized for the safai mitra and their family members.	Safai mitras
2	Panchayat	Village mapping and Resource maps where made for 10 panchayats rest 20 panchayats are under process.	Citizen, Panchayats officials
3	Panchayat	Meeting with the village panchayats members to apprise them on the project. How this project will help them in collecting and processing of the dry waste.	Officials
4	Panchayat	Training of the waste pickers working in the panchayats for door to door collection. They were trained on the category of 4 way segregation proposed by GWMC.	Waste pickers
5	Panchayat	SHG Awareness and bag distribution. Awareness and training conducted for different SHG's and citizens to facilitate source segregation.	Citizen, SHG members
6	BMC	Bulk Generators Identification.	Hotel, Shops etc

7	Panchayats	Cluster Formation- Zoning of wards within the VP to ensure effective door to door collection.	Officials
9	Panchayats	Rally-Rally on Waste issue conducted by Women SHG in their ward in VP Latambarcem.	Citizen
10	Panchayats	School Awareness- Awareness session for Govt. School in VP Salem.	Students
11	Valpoi Council	RWA formation-Identification of possible areas for RWA formation in Valpoi Council. Field IEC staff visited different colonies and met people. 1 colony identified.	Citizen
12	Panchayats	Household Visit- Houses visited prior to actual collection in Village panchayats (VP). To ensure and help segregation and collection made in proper manner.	citizen
13	BMC	Training and Orientation session for health and sanitation worker of Bicholim council.	Officials
14	MRF, Bicholim	Weekly talk with Safai mitras working at MRF, Bicholim	Safai mitras.

Photographs at MRF, Bicholim



Fig 1: Safai Mitras at Bicholim MRF



Fig 2: Training for Safaii Mitras by GWMC official at Bicholim MRF



Fig 3: Manual Sorting



Fig 4: Bailing Machines