

CII Conference on Alternate Fuels & Raw Material Usage

23 & 24 October 2024

Presented by: **Sampurn(e)arth Environment Solutions Pvt. Ltd., Mumbai**



Comprehensive relook for inclusive RDF sourcing practices

Sampurn(e)arth Environment Solutions Pvt. Ltd., Mumbai



Sampurnearth – its story

1. Sampurnearth in Waste Management - Housing Societies – Dry & Wet waste
2. Mumbai Ward experience – Chembur, Bhandup and Mulund
3. Goa Waste Management facility – UNDP, Godrej funding
4. EPR Coprocessing - Hindustan Unilever, Godrej, Britannia, Marico, etc.
5. Covid initiative – 2500 waste workers in 15 major towns supported - over Rs.1.00 Cr. funded by Godrej, Tetrapak, Swedish Chamber of Commerce & Business associates
6. Plastics recycling – Unilever funding – Project Transform – Granules & Lumps
7. EPR compliance – Recycling Plastic & Sale of Credits; Mithapur DWPC – Tata Chemicals Ltd.

Now let us look at our Bicholim Project

Sampurn(e)arth Environment Solutions Pvt. Ltd., Mumbai



Bicholim project key areas



**INFORMATION, EDUCATION
AND COMMUNICATION**

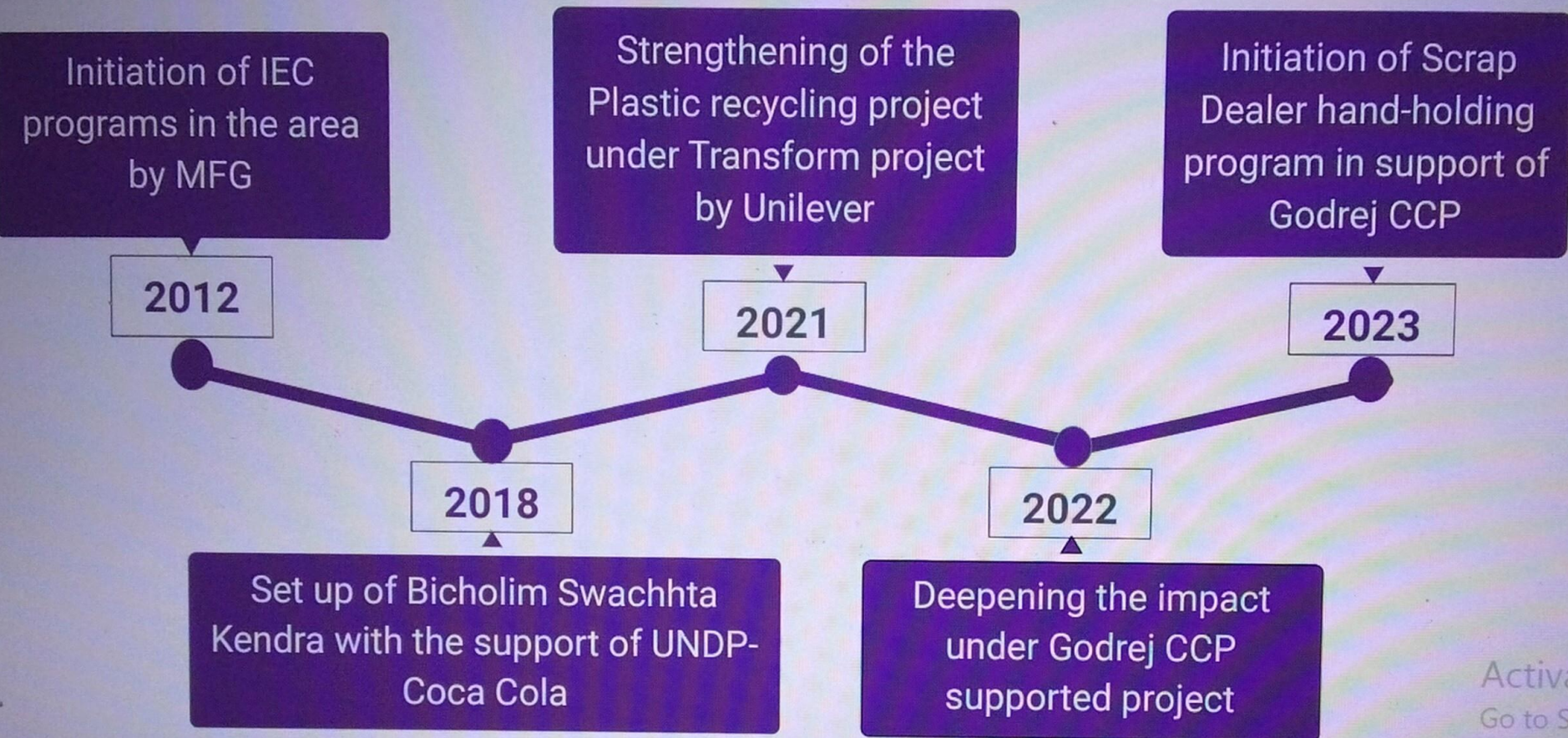


SOCIAL SUPPORT



OPERATIONS

History of the project

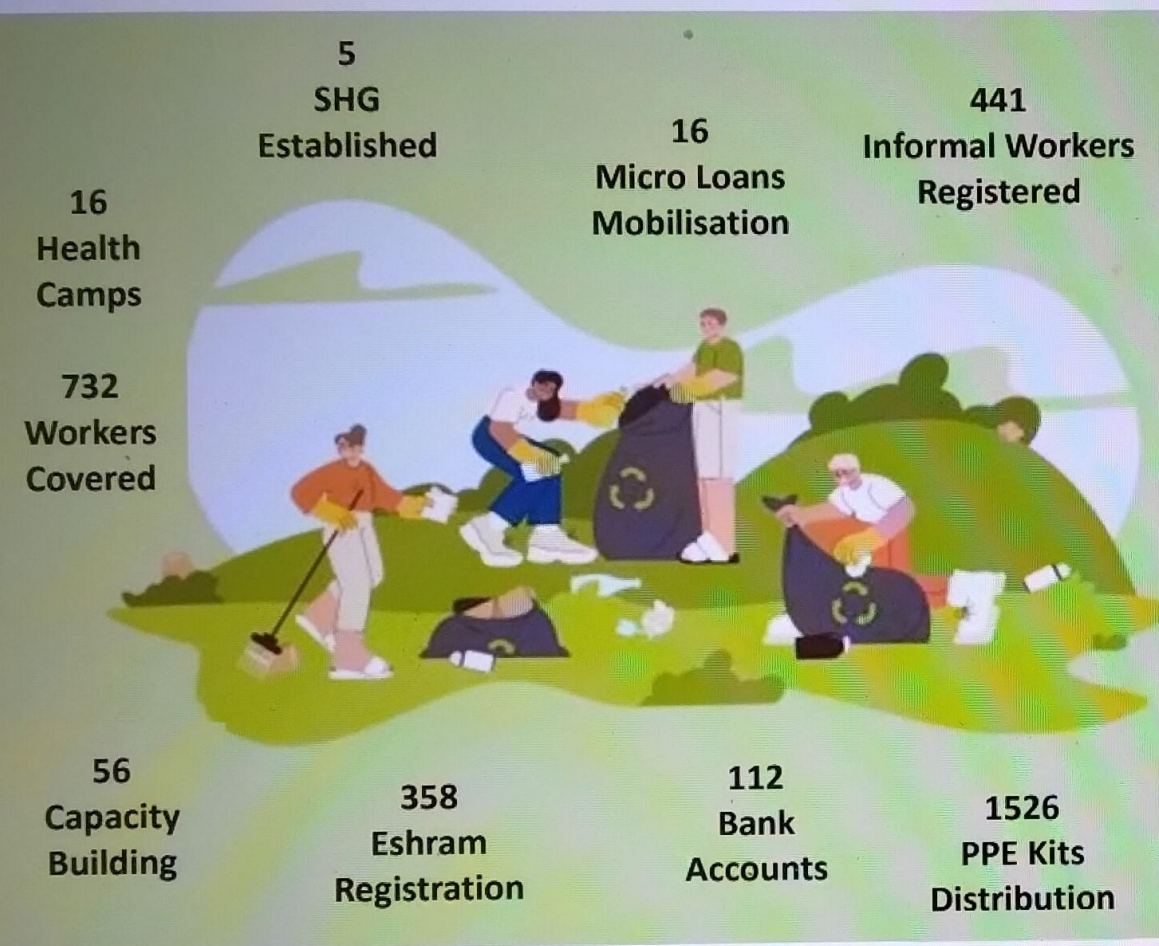


Bicholim, Goa IEC activities

Sl. No.	Activity	Numbers	Sl. No.	Activity	Numbers
1	SHG Meetings	237	7	Panchyat/ULB Meetings	205
2	School Awareness	105	8	Street plays	13
3	Cleanliness drives and Rallies	33	9	Ward level youth, group special events and VO meetings	126
4	Competitions	29			
5	Door-to-Door awareness drives	121	10	Special market awareness (Bicholim)	3000 households
6	Exposure visits	37	11	Workshops for Panchayat functionaries	3



Community engagement and Social Support Programs



The Program Outcomes for last Financial year at Goa


Area Covered	3 Municipal Council 30 Panchayats with 50,540 Families
Waste recovery Percentage at Bicholim MRF(Recycled at % of total incoming waste)	55%
Total Waste Handled	1800 MT
Low Value Plastics Recycled	217 MT
RDF Sent to Cement Factories from Scrap Markets to support authorized disposal	156 MT
Total Direct Employment Generated	200+ people (>80% local employment)
Total Indirect Employment Generated/Supported	280 People




The Integrated Story in Goa

Awareness

Segregated Dry Waste Collection System clubbed with awareness programs and IEC drives.

 HOUSEHOLDS

 BULK GENERATORS
hotels, resorts,
weekly vegetable
market areas

 PUBLIC SPACES and
Tourist spots.

ULB and Panchayat Consultation and Handholding


Formalization and Mainstreaming of Informal waste workers


Scrap Dealers and
Other Informal Waste
Worker Groups

Other MRFs in Goa &
Bulk Waste Generators


Bicholim Municipal
Council


30 Village Panchayats
Collection Centers In
Bicholim and Sattari


Harvalem
Aggregation &
Secondary
Sorting Centre


Bicholim MRF
(Material Recovery
Facility)

Processing Capacity Building


Cement Factories and
Co-Processing of
Non-Recyclables


Pissurlem
Low Value
Flexible
Plastic
Recycling
Facility


Other Recycling
Facilities

Active
Go to S

Mithapur Dry Waste Processing Centre



Sampurn(e)arth Environment Solutions Pvt. Ltd., Mumbai

Mithapur Plant – Beach Cleanup & TCL Engineer Team Visit



Mithapur DWPC Coastal Clean up & Deepavali celebration



Sampurn(e)arth Environment Solutions Pvt. Ltd., Mumbai

Today's RDF supply chain scenario

1. Cement Co's. source waste from MRFs, Biomining sites, Paper Mills, Agents
2. Most economical cost (including freight) is the deciding factor
3. Unshredded and Unbaled RDF is supplied to the Cement plants
4. Cement plants invest in Shredding facilities at their plants
5. MRFs/Biomining sites generally do not have shredding facility
6. MRF/Bio-mining contractor employs Waste workers.
7. PPE usage by waste workers is minimal.
8. Transport cost high due to Unbaled waste and Diesel vehicles (not CNG)

RDF supply scenario – Few thoughts

1. As share of Alternate Fuels increases, can Shredding and Baling be done at MRFs/Biomining sites too?
2. Can **nearby** cement **companies collaborate** to fund such facilities?
3. Can uniform pricing be adopted for sourcing RDF?
4. How much of your CSR spends can go to Waste worker's well-being and PPE
5. Can the waste trucks be run on CNG, where possible?
6. Can Cement companies fund Plastics recycling facilities?

Upgrading the MRFs



Shredding Machine



Baling Machine

Sampurn(e)arth Environment Solutions Pvt. Ltd., Mumbai

CPCB new initiative on Plastic & Coastal waste

1. **Lost & Discarded Fishing Gears & High-Littering Plastic wastes in Coastal areas.**
2. **In 2022-23 Annual Report 13 State PCBs located in coastal areas generated 2.37 Million tonnes of plastic waste.**
3. **Within the proximity of all the 12 Blue Flag Beaches plastic recycling facilities.**
4. **Target – 12 plastic recycling units & 13 Nylon fishing gear/Net recycling units.**
5. **Sampurnearth has decided to collaborate in setting up a unit at Mithapur (Near Shivrajpur Beach)**
6. **Sampurnearth may collaborate for setting up units at Karwar & Padubidri, Karnataka. The collaboration would be limited to Design, Source, Install & Commission the Plant & Machinery and handle O& M operations for 2 to 3 years. Not the investment and O&M costs.**

Waste Management of Amaravati (AP) City

1. **Sampurnearth is keen to collaborate with CII in working towards a comprehensive Municipal waste solution for Amaravati City, Andhra Pradesh.**
2. **The proposal will cover handling both the Dry & Wet waste.**
3. **CII will have to find the funder for this project.**
4. **Sampurnearth will conduct a field survey, propose a solution that includes the Design, Sourcing, Installation & Commissioning the Biogas and MRF facilities. It shall also include conducting Waste Awareness campaign.**

Thank you!

Sampurn(e)arth Environment Solutions Pvt. Ltd., Mumbai

