



SCHOOL OF ENVIRONMENTAL
COMMUNICATIONS

AAETI

NORTHEAST NARRATIVES 2

Online Briefing Workshops for Journalists
from India's Northeastern Region

SOLID WASTE MANAGEMENT IN INDIA'S NORTHEAST

Understanding key challenges and possible solutions.
Reimagining the stories that can be written

NORTHEAST NARRATIVES - 2

**Key Considerations to
Initiate
Circular Economy in SWM**

Arunachal Pradesh



Parameters	Value
MSW generation	285.65 TPD
MSW Collected	223.56 TPD
MSW Treated/processed	Nil
MSW Landfilled	127.72 TPD
Door to Door Collection	70%
Source Segregation	20%
Bio-degradable waste processing unit capacity	NA (Under Construction)
Non bio-degradable waste processing unit capacity	NA (Under Construction)

Source : CPCB Annual report on MSW 2019-20

Assam



Parameters	Value
MSW generation	1271.3 TPD
MSW Collected	922.4 TPD
MSW Treated/processed	41.6 TPD
MSW Landfilled	880.75 TPD
Door to Door Collection	97 ULBs
Source Segregation	Nil
Bio-degradable waste processing unit capacity	330 TPD
Non bio-degradable waste processing unit capacity	78 TPD

Source : CPCB Annual report on MSW 2019-20

Manipur



Parameters	Value
MSW generation	265 TPD
MSW Collected	192.4 TPD
MSW Treated/processed	103.5 TPD
MSW Landfilled	88.6 TPD
Door to Door Collection	27 ULBs
Source Segregation	22 ULBs
Bio-degradable waste processing unit capacity	200 TPD
Non bio-degradable waste processing unit capacity	NA (Part of WtE Plant)

Source : CPCB Annual report on MSW 2019-20

Meghalaya



Parameters	Value
MSW generation	153.2 TPD
MSW Collected	119.2 TPD
MSW Treated/processed	9.64 TPD
MSW Landfilled	Nil
Door to Door Collection	3 ULBs
Source Segregation	2 ULBs
Bio-degradable waste processing unit capacity	9.6 TPD
Non bio-degradable waste processing unit capacity	No details available

Source : CPCB Annual report on MSW 2019-20

Mizoram



Parameters	Value
MSW generation	348.2 TPD
MSW Collected	313 TPD
MSW Treated/processed	278.4 TPD
MSW Landfilled	Nil
Door to Door Collection	70%
Source Segregation	68.6%
Bio-degradable waste processing unit capacity	No details available
Non bio-degradable waste processing unit capacity	No details available

Source : CPCB Annual report on MSW 2019-20

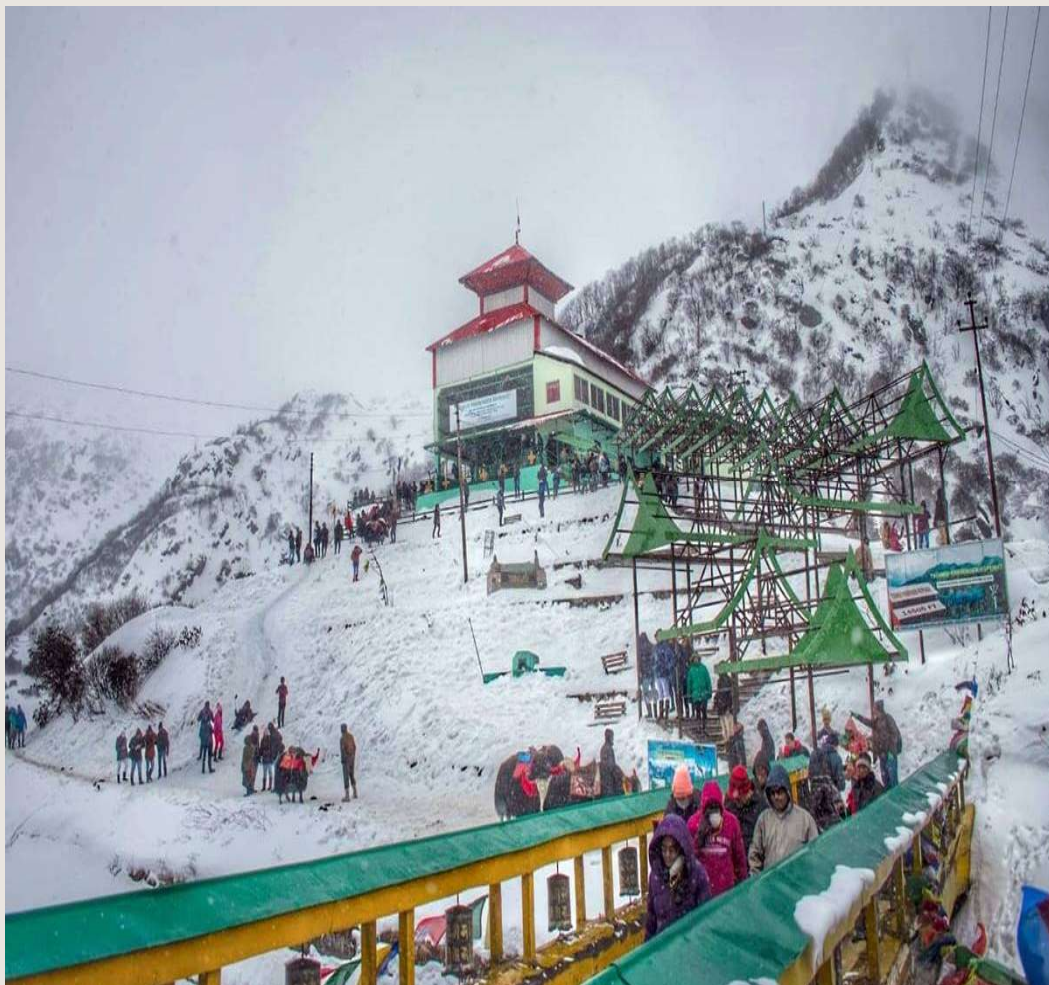
Nagaland



Parameters	Value
MSW generation	306.1 TPD
MSW Collected	256 TPD
MSW Treated/processed	24 TPD
MSW Landfilled	6 TPD
Door to Door Collection	30%
Source Segregation	1%
Bio-degradable waste processing unit capacity	No details available
Non bio-degradable waste processing unit capacity	No details available

Source : CPCB Annual report on MSW 2019-20

Sikkim



Parameters	Value
MSW generation	74.7 TPD
MSW Collected	74.6 TPD
MSW Treated/processed	12.56 TPD
MSW Landfilled	62.03 TPD
Door to Door Collection	Yes
Source Segregation	Yes
Bio-degradable waste processing unit capacity	51.08 TPD
Non bio-degradable waste processing unit capacity	NA

Source : CPCB Annual report on MSW 2019-20

Tripura

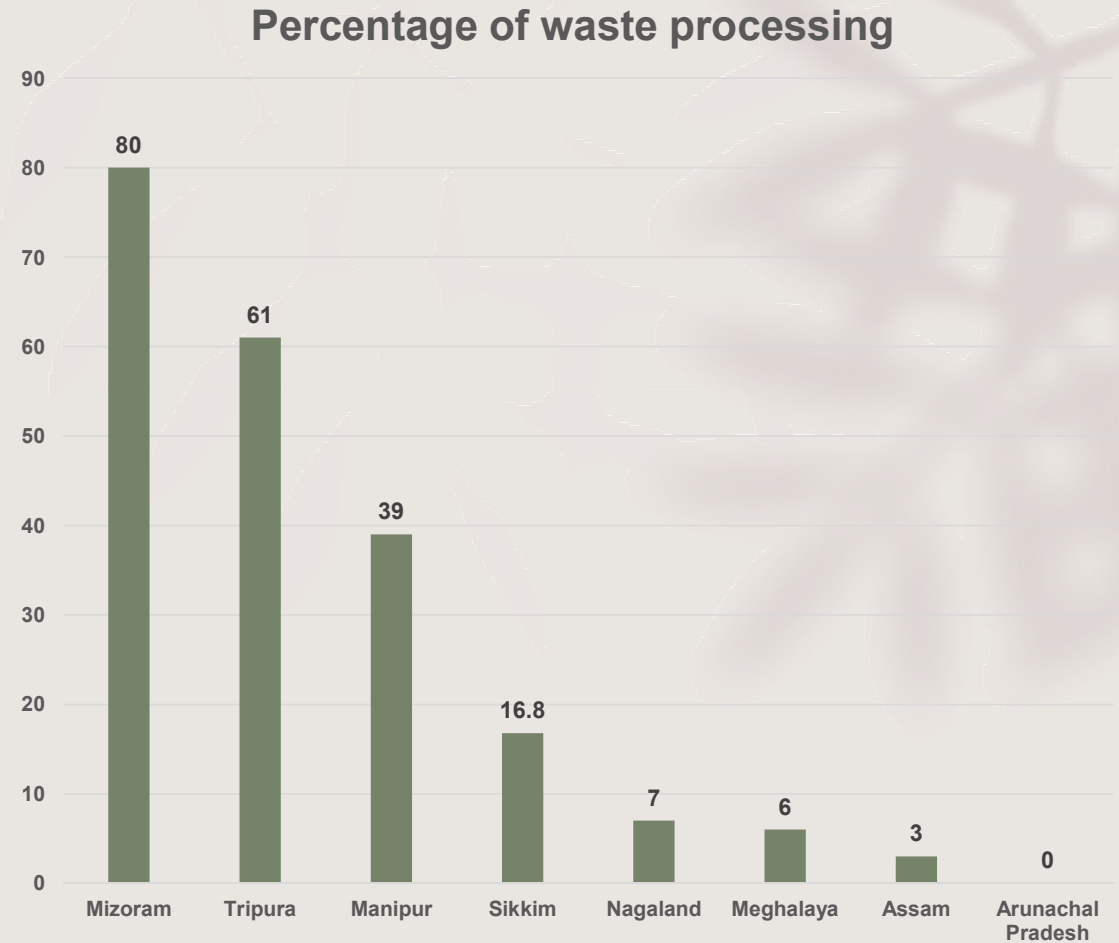


Parameters	Value
MSW generation	411.3 TPD
MSW Collected	380.8 TPD
MSW Treated/processed	253.6 TPD
MSW Landfilled	127.2 TPD
Door to Door Collection	295 wards
Source Segregation	20 wards
Bio-degradable waste processing unit capacity	412.8 TPD
Non bio-degradable waste processing unit capacity	No details available

Source : CPCB Annual report on MSW 2019-20

Observations

- Limited Door to Door collection
- Relatively good waste collection
- Almost negligible Source segregation
- Extremely poor waste treatment/processing (except Mizoram)
- Maximum waste is getting dumped
- Unsustainable SWM system



Gap Analysis

Administration

- Population & demography data
- Property information
- Environment information

Institutional aspects

- Organisational setup
- Reporting mechanisms
- Manpower

Generation, collection & transportation

- MSW generation rates
- Adequacy of primary & secondary collection systems
- Adequacy of transportation systems

Processing & Disposal

- Types of treatment & processing facilities
- Adequacy of treatment & processing facilities
- Adequate disposal facilities

Policy

- Laws
- Rules
- Monitoring & evaluation framework

Financial information

- Financial requirement for MSWM services
- Adequacy of existing funds
- Expenditure vs revenue
- Additional requirement of funds through grants, user fees, taxes and PPP

Way Forward

Rigorous IEC and BCC campaign for source segregation

Capacity Building of all the stake holders.

Formation of by-laws.

Ensure source segregation of waste.

Ensure segregated collection and transportation of waste.

Adopt decentralised waste management.

Develop a monitoring mechanism.

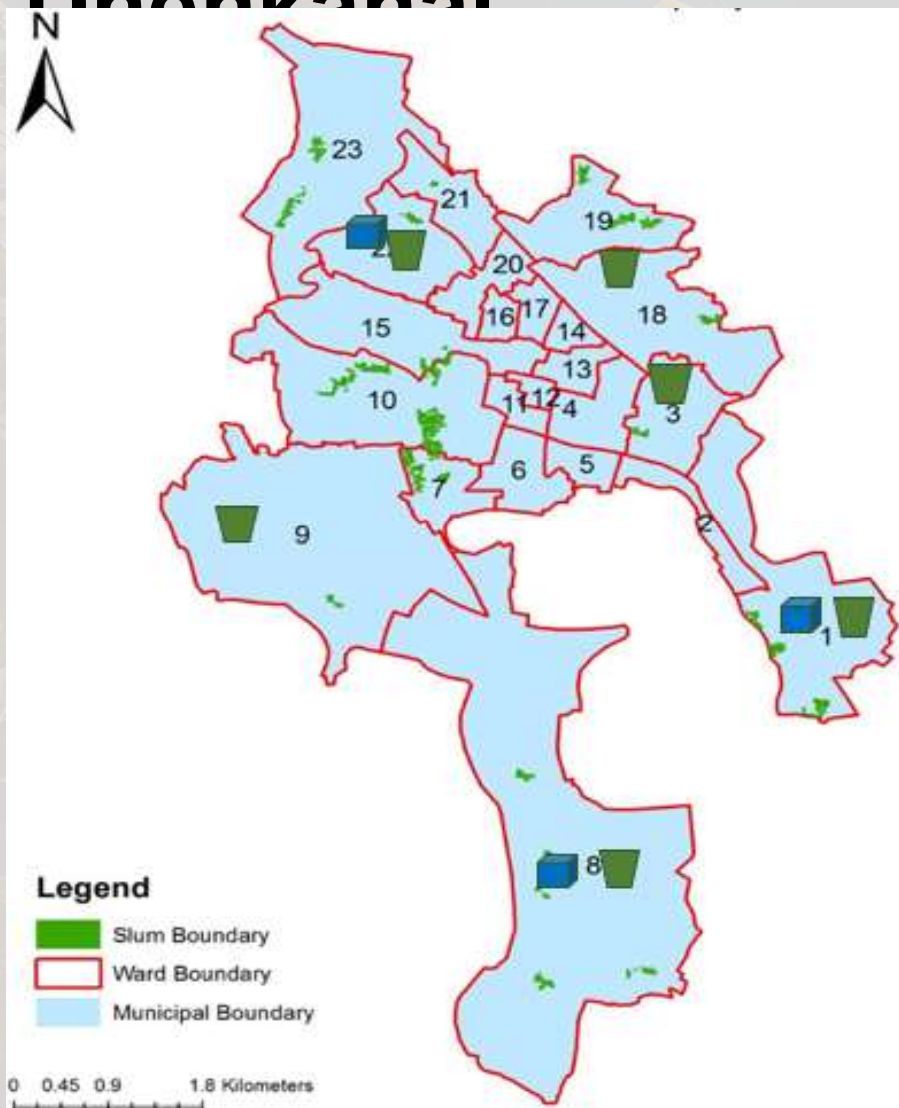
Quality monitoring and marketing of compost.

Quality monitoring and channelization of materials.

Integration of Informal Sector

Remediation of legacy waste dumpsites

Case Study . Dhankamal



MICRO COMPOSTING CENTERS FOR WET WASTE

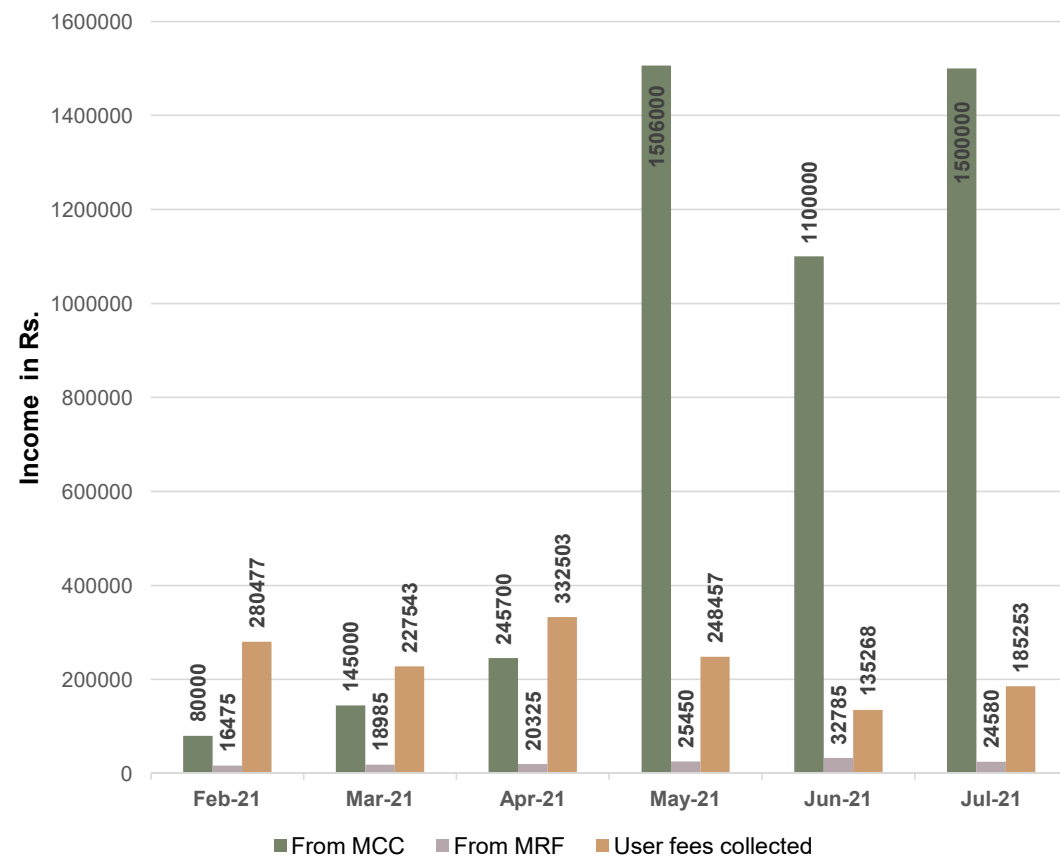
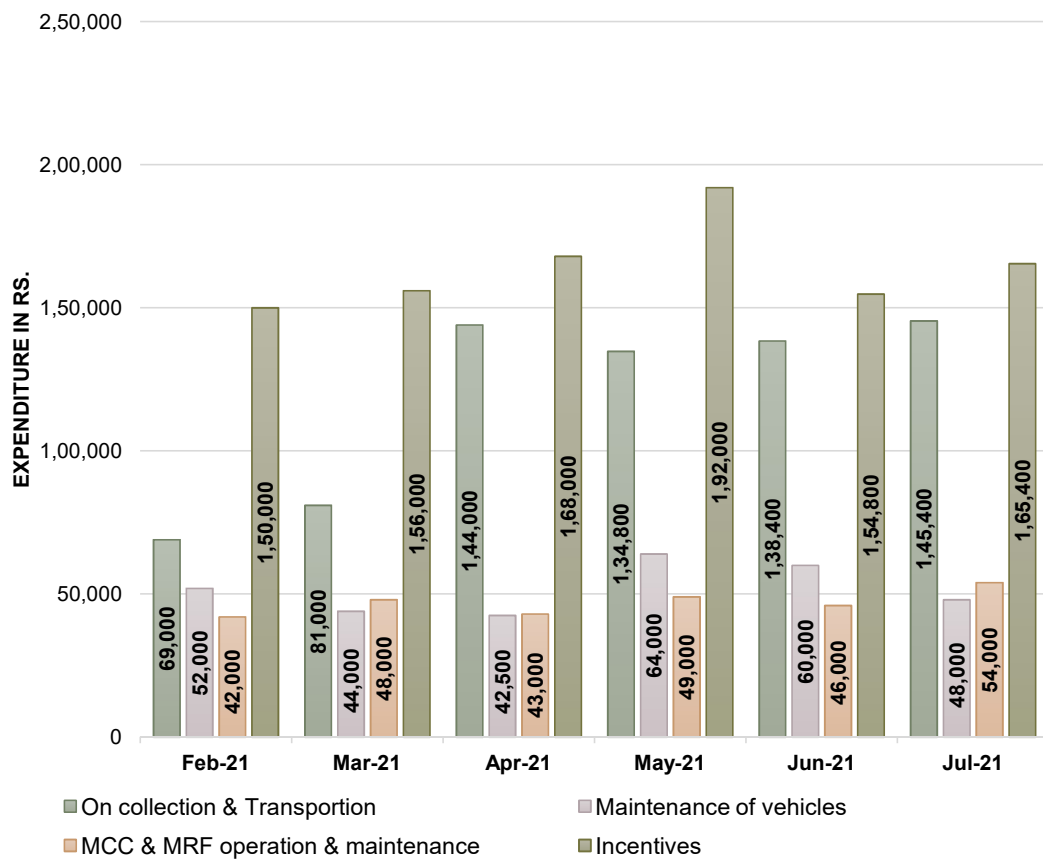
Sl.	ZONE NAME	MCC LOCATION	MCC Capacity	Wards Linked
1	1	Khatagada WD 1	3 TPD	01,02,04 & 06
2	2	Mahisapat WD 8	3 TPD	07,08,10, & 11
3	3	Hata Road WD 22	3 TPD	18,20,21,22 & 23
4	4	Banamaliprasad WD 9	3 TPD	09,13,14 & 15
5	5	Kunjakanta WD 3	1.5 TPD	03,05, & 12
6	6	Bhagabanpur WD 18	1.5 TPD	17, 18 & 19
Total - 6 MCCs			15 TPD	

MATERIAL RECOVERY FACILITY FOR DRY WASTE

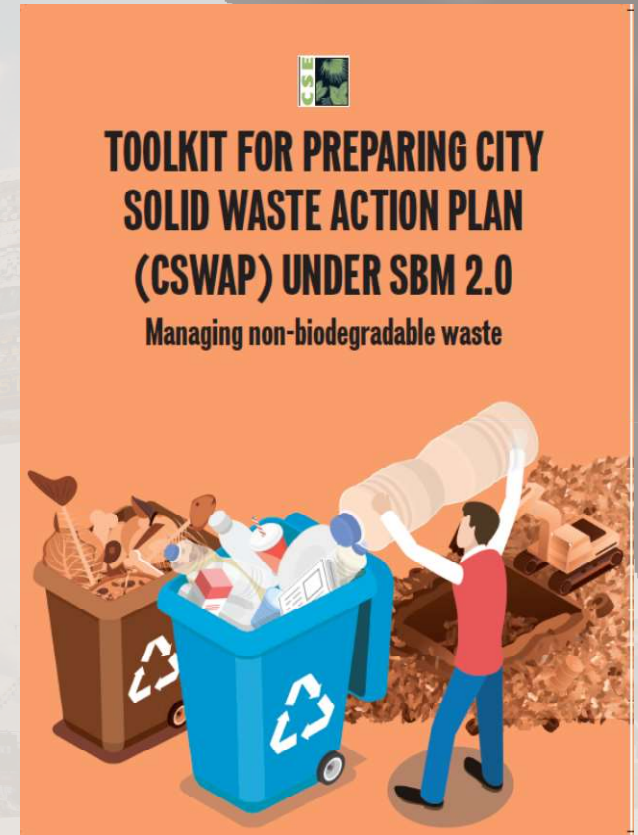
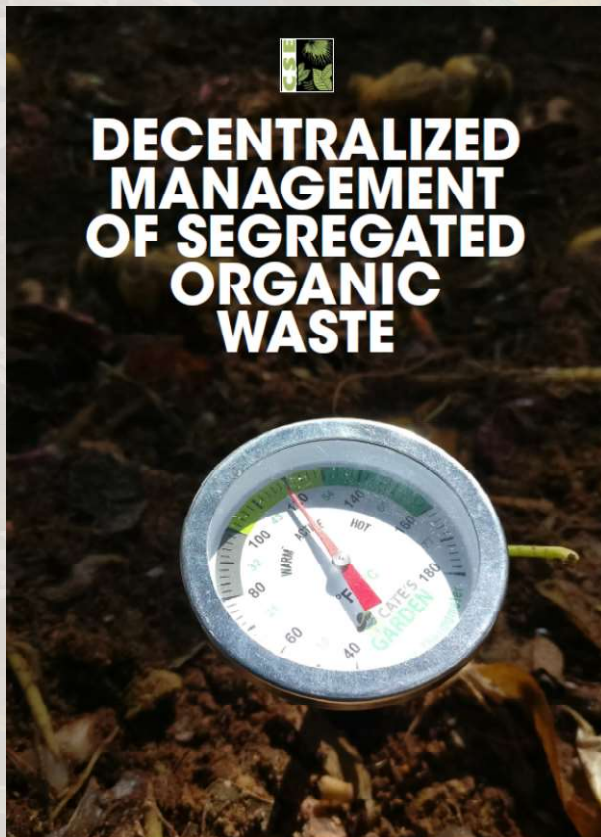
Sl.	ZONE NAME	MRF LOCATION	MRF Capacity	Wards	Total Wards
1	A	Khatagada WD 01	3 TPD	1, 2, 3, 4, 5, 13, 14, 18	8
2	B	Mahisapat WD 08	4 TPD	6, 7, 8, 9, 10, 11, 12, 15,	8
3	C	Hata Road WD 22	3 TPD	16, 17, 19, 20, 21, 22, 23	7
TOTAL 3 MRFs			10 TPD		23

Case Study : Dhenkanal

A Self-sustainable SWM Model



CSE's Publications



<https://www.cseindia.org/decentralized-management-of-segregated-organic-waste-10877>

Releasing Soon

downtoearth.org.in

MRF CENTRE-1

THANK YOU

WELTHCENTRE. KATHAGADA