



**GOVERNMENT OF
TRIPURA**

**COMPLIANCE STATUS
OF
THE DIRECTIONS OF
HON'BLE NATIONAL
GREEN TRIBUNAL
IN
O.A. NO. 606/2018
IN
THE MATTER OF SOLID
WASTE & SEWAGE
MANAGEMENT OF
THE STATE OF
TRIPURA**



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NATIONAL RECOGNITION ON CLEANLINESS

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HE Smt. Droupadi Murmu, President of India, conferred the glorious award of **Most Clean State in India (states with less than 100 ULBs category)** to Tripura, under Swachh Survekshan 2022.



Agartala Municipal Corporation was awarded under “**Special Mentions (3 lakhs- 10 lakhs category)**” by MoHUA under Indian Swachhata League, 2022.



Mohanpur Municipal Council has been awarded as the “**Cleanest City (northeast zone-population between 15000-25000) & cleanest city within Tripura (population <100000 category)**” in Swachh Survekshan 2023 on 11-01-2023.



Agartala Municipal Corporation has received the “**Cleanest City in Tripura**” award in the category of city within Tripura (population > 100000 category) in Swachh Survekshan 2023 on 11-01-2023.

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Direction of Hon'ble NGT on OA 606/2018 on 13-04-2023

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- In OA 606/2018's last hearing, Chief Secretary of Tripura presented the existing status on state's Solid and Liquid (Sewage) Waste Management to Hon'ble NGT on 13-04-2023. Hon'ble NGT observed the following:

1

Solid Waste Processing: No GAP in Solid Waste processing in Urban Tripura (at para 32 of Hon'ble NGT Order Dated 13-04-2023).

- **Solid Waste Generation** -333.1 TPD , **Collection** -333.1 TPD & **Processing** - 333.1 TPD.

2

Used Water Management: Gap of 73.68 MLD in used water management (sewage treatment).

3

Ring Fencing of an amount of INR 282.58 Cr to mitigate the gaps observed by Hon'ble NGT in above mentioned components.

- Six monthly compliance report submitted at regular intervals :
- First report submitted on **09-11-2023**
 - Second report submitted on **14-05-2024**

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Separate Ring Fenced Bank Account Opened in Tripura Grameen Bank ||
A/C: 8004010016746

1390 Ring Fenced Fund Details

- As per decision of the Cabinet, state has already Ring Fenced an amount of Rs. 282.58 crores vide Notification No. F.1 (14) - GA(CAB)/2005 Dated 13-01-2023 (Rs. 147.58 Cr) and Notification No. F.1 (2) -GA(CAB)/2016 Dated 19-04-2023. (Rs. 135 Cr).
- A separate Ring Fenced bank a/c was opened in Tripura Garmin Bank.
 - **A/C Name-** Ring Fenced Account for Waste Management Tripura.
 - **A/C No.**– 8004010016746.
- The present account balance of the Ring Fenced Account is Rs.191.58 Cr.
- Rs. 50 Cr. has already been utilized since the last hearing i.e. 13-04-2023.
 - 35 Cr. to Agartala Smart City for STPs construction.
 - 6.17 Cr to augment capacity of Chandinamura STP by installing pumping stations and allied works. (Completion Date- Nov, 2024).
 - 8.82 Cr to AMC for waste processing at DC Nagar.

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Cabinet Memorandum of 147.58 Cr.

31/01/23
S.D.N.V.

RECEIVED
Date: _____
U.D. DEPARTMENT
GOVERNMENT OF TRIPURA

**MOST IMMEDIATE
CABINET MEETING**

GOVERNMENT OF TRIPURA
GENERAL ADMINISTRATION (CONFIDENTIAL & CABINET) DEPARTMENT
No. F.1 (14)-GA(CAB)/2005 January 13, 2023

MEMORANDUM

Subject: - Record of decision of the meeting of the Council of Ministers held on 3rd January, 2023.

A copy of the record of decision of the meeting of the Council of Ministers held on 3rd January, 2023 as approved by the Chief Minister is forwarded under Rule 20 (2) of the Rules of Executive Business.

(Saurav Das)
Under Secretary
Government of Tripura

Cabinet Memorandum of 135 Cr

135 Cr. of 200 / 2023

RECEIVED
Date: 19/04/2023
U.D. DEPARTMENT
GOVERNMENT OF TRIPURA

**MOST IMMEDIATE
CABINET MEETING**

GOVERNMENT OF TRIPURA
GENERAL ADMINISTRATION (CONFIDENTIAL & CABINET) DEPARTMENT
No. F.1 (2)-GA(CAB)/2016 April 19, 2023

MEMORANDUM

Subject: - Record of decision of the meeting of the Council of Ministers held on 18th April, 2023.

A copy of the record of decision of the meeting of the Council of Ministers held on 18th April, 2023 as approved by the Chief Minister is forwarded under Rule 20 (2) of the Rules of Executive Business.

(Saurav Das)
Under Secretary
Government of Tripura

To
The Secretary
Urban Development Department

Copy with the enclosure forwarded to the Secretary to the Governor of Tripura, Raj Bhawan, Agartala for information of the Governor.

(Saurav Das)
Under Secretary
Government of Tripura

Exposure Visit On Solid And Liquid Waste Management To Various States (as per Hon'ble NGT's direction)



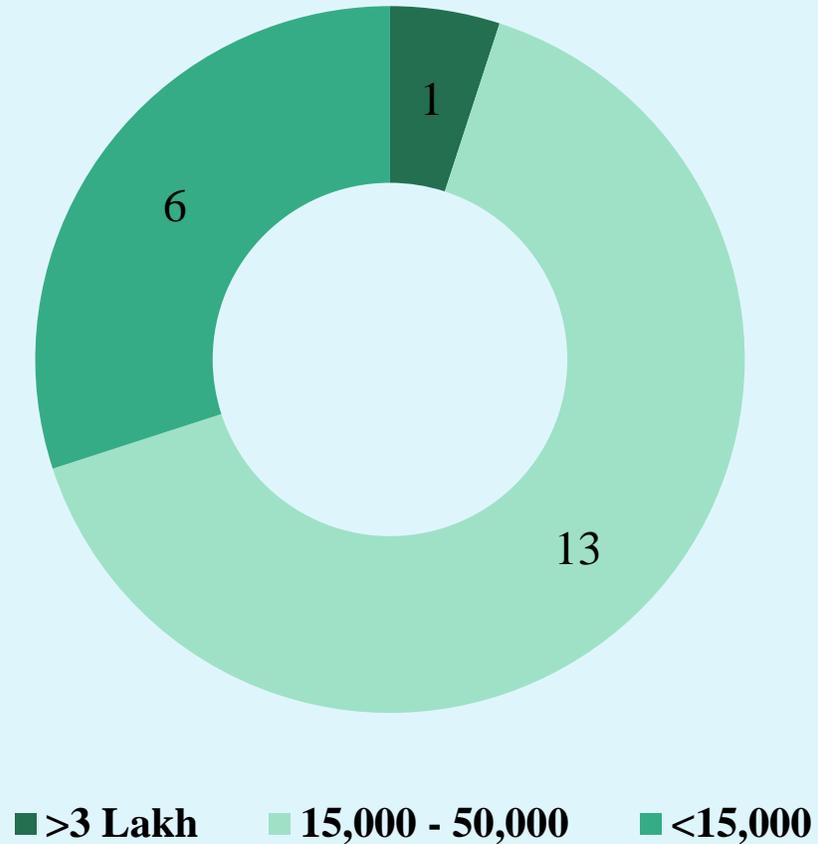
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SOLID WASTE MANAGEMENT IN URBAN AREAS

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Distribution of Urban Local Bodies in Tripura based on population (2022)

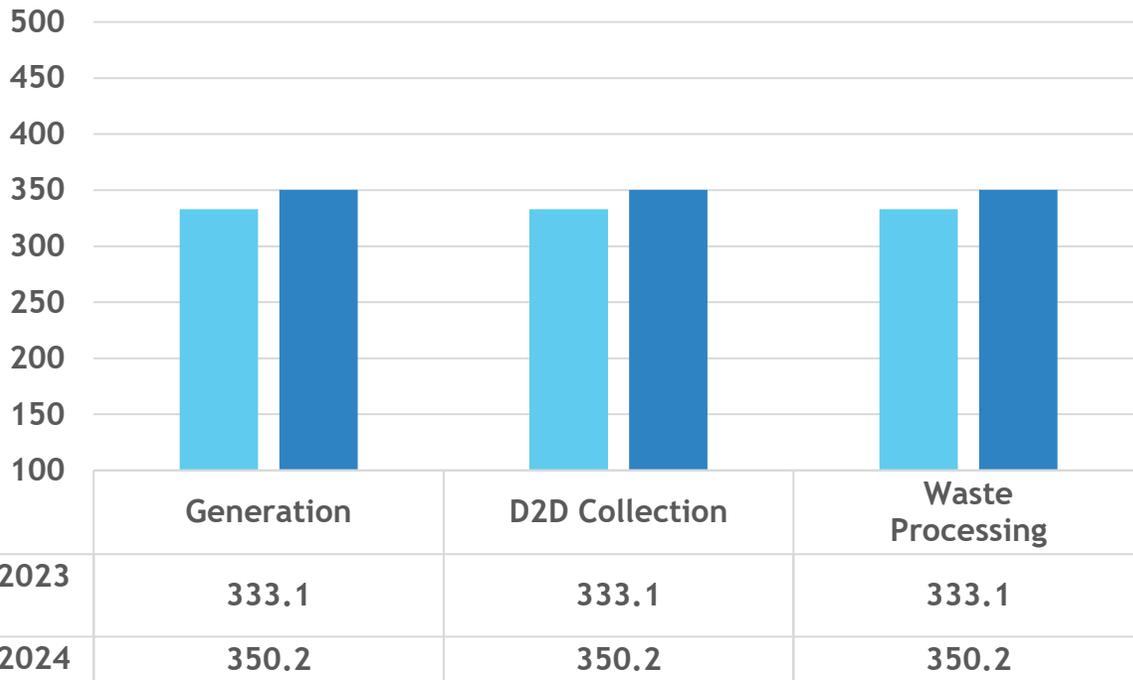


Demographic Background

Demographic Details of Urban Tripura

- Total Urban Local Bodies : 20
- No. of Municipal Corporation : 1 (Agartala)
- No. of Municipal Council : 13
- No. of Nagar Panchayat : 6
- Total Wards in 20 ULBs : 334
- Urban Population (2022-23) : 9,57,107

Progress In Solid Waste Management ¹³⁹⁴ In Last One Year In 20 ULBs



ULB wise solid waste generation data ([Click here for Annexure 1](#))

- **All 334 wards have 100% door-to-door collection and processing.**
- **Total 446 TPD Solid Waste Processing Capacity (19 nos. MRF Centres & 85 nos. Segregation Centers) available in 20 ULBs.**
- **At present the state has surplus capacity of solid waste processing facilities & all the processing facilities have been designed keeping in view the projected increase in waste generation up till 2031.**

Achievement Since Last Hearing

Particulars	As On 13-04-2023	As On 10-05-2024
Solid Waste Processing Capacity in 20 ULBs	336 TPD	446 TPD

NB:

- Waste quantification survey was done by Third Party Agency during 2021-22 for all 20 ULBs where population was 9,17,633 and estimated waste generation was 333.1 TPD.
- However, as per the record of the Directorate of Economics & Statistics, Govt. of Tripura the population of 20 ULB for 2022-23 is 9,57,107. On the basis of this 2022-23 population, the waste generation of 20 ULBs is estimated to be proportionately increased to 350.2 TPD.
- Accordingly, 350.2 TPD waste is being collected and processed in 20 ULBs.

Name of ULB	No. of MRF Centres	Capacity of MRF Centres (in TPD)	No. of Segregation Centres	Capacity of Segregation Centres (in TPD)
Agartala MC	2*	275	16	22
Bishalgarh MC	0	Using plant of Agartala MC	2	3
Kamalpur NP	1	6	3	4
Dharmanagar MC	1	15	3	4
Panisagar NP	1	10	3	4
Kailashahar MC	1	10	3	4
Kumarghat MC	1	10	4	6
Ambassa MC	1	10	4	6
Khowai MC	1	10	6	8
Teliamura MC	1	10	6	8
Ranirbazar MC	1	10	3	4
Jirania NP	0	Using plant of Ranirbazar MC	3	4
Santirbazar MC	1	10	3	4
Mohanpur MC	1	10	5	7
Sabroom NP	1	10	5	7
Melaghar MC	1	10	3	4
Sonamura NP	1	10	3	4
Udaipur MC	1	10	3	4
Amarpur NP	1	10	3	4
Belonia MC	1	10	4	6
Total	19	446	85	117

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Processing Facility in 20 ULBs is 446 TPD

- **Segregation Centre-** Dry Waste collection, basic segregation and storage.
- **Waste Processing Facility/MRF Centre -** For both Wet & Dry waste processing.
- Segregation Centre cater to a cluster of wards, which are in-turn linked to a designated decentralised ULB wise Waste Processing Facility/MRF Centre.

* 1 MRF 25 TPD & 1 MRF 250 TPD

Solid Waste Management Approach

1396

Tier 1 (D2D Collection)

Waste segregation at source and door to door waste collection.

Tier 2 (Dry Waste Segregation Centre)

To store the daily collected dry waste and further segregation into broader categories.

Tier 3 (MRF Centre)

For processing both wet waste (biodegradable) and dry waste (non-biodegradable) at Solid Waste Processing Facility/MRF Centres by involving allied machineries and trained manpower.

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Tier 1 – Door to Door Collection

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- Women Self Help Groups (SHGs) are actively engaged in door-to-door waste collection initiatives.
- At the point of collection, SHGs are enforcing basic waste segregation at source, categorizing waste into dry and wet components.

Agartala



Khowai



Santirbazar



Panisagar



Sabroom



Dharmanagar



Jirania



Udaipur



1397

Tier 2 - Transportation and Segregation at Segregation Centres

1398

- Dry waste is transported to 85 waste segregation centers spread across 20 Urban Local Bodies (ULBs).
- Further segregation of dry waste into broader categories is done at segregation centres.

Transportation to Segregation Centres

Ranirbazar



Melagarh



Sonamura



Panisagar



Segregation at Segregation Centres

Udaipur



Amarpur



Bishalgarh



Dharmanagar



Tier 3 - Solid Waste Processing For Both Wet & Dry

- ▶ MRF centres are constructed to process both wet waste and dry waste, utilizing machinery such as bailers, shredders, and sievers for waste processing.
- ▶ These plants are operated by trained women SHGs and other trained task force.
- ▶ The State Government has decided to augment MRF infrastructure in a phased manner to meet the requirement of a full-fledged MRF facility. Work orders have been issued through Government e-Marketplace (GeM) for five MRF centres.

Kumarghat
1399



Kailasahar



Khowai



Sabroom



Dharmanagar



1399

Udaipur



Functioning of MRF Centres

1400

Waste Segregation in different ULBs

Kamalpur



Khowai



Dharmanagar



Belonia



Machineries Used In Solid Waste Processing Plants/MRF Centres

Organic Shredder



Hydraulic baler



Siever



1400

Plastic Shredder



Trommel



Workflow of Solid Waste Processing

Dry waste being segregated, stored, sold and transported for recovery/recycling



Wet waste being converted to compost and sold



Road Construction Using Plastic Waste

1402

The Govt. of Tripura has notified the "Policy for use of Waste Plastic in construction and periodical renewal of bituminous road" with detailed procedure for implementation within 50 km periphery of Agartala City vide No.F.6 (129)-PWD(E)/2022/ 5306-456 dated 8th July 2022.

A glimpse of 0.68 km road constructed in Agartala using plastic waste



GOVERNMENT OF TRIPURA PUBLIC WORKS DEPARTMENT

No. F.6(129)-PWD(E)/2022/5306-456

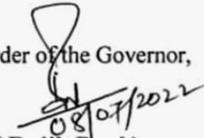
Dated, Agartala, the 8th July, 2022.

NOTIFICATION

The Governor of Tripura is pleased to notify "Policy for use of Waste Plastic in construction & periodical renewal of bituminous road" with detailed procedure for implementation within 50 km periphery of Agartala City.

The Policy for use of waste plastic in construction & Periodical renewal of bituminous road with details standard procedure will remain in operation until further order of the State Government. The State Government shall have full power to amend / modify this policy.

The policy is available in the home page of PWD website with the link <https://pwd.tripura.gov.in/images/circular/5306-456.pdf>.

By order of the Governor,

(Rajib Paul)
Deputy Secretary, PWD

1402

Ongoing Augmentation of MRF Centres

1403

Trommel - Segregation Machine



- The work of augmentation of Solid Waste Processing/MRF Centres has been taken up for 5 ULBs on pilot basis in 2023-24.
- Accordingly, the following machines have been purchased.

Trolley- for movement of segregated waste



Conveyor and Magnetic Separator



1403

Legacy Waste Remediation Since Last Hearing

1404

S. N.	Name of ULBs for remediation	Estimated Qty. (in tons)	Area (In acres)	Land to be Recovered (acres)	Status of Work
1	Santirbazar MC	8571	0.88	0.88	Work to be completed by Dec 2024
2	Belonia MC	19706	4	4	Remediated.
3	Sabroom NP	9367	0.688	0.688	Remediated.
4	Dharmanagar MC	74598	1.5	1.5	1st phase completed. Work to be completed by Dec 2024
5	Panisagar NP	3083	0.2	0.2	Remediated.
6	Kailashahar MC	36510	1	1	Work to be completed by Dec 2024
7	Kumarghat MC	5248	0.45	0.45	Remediated.
8	Udaipur MC	25660	1.48	1.48	Remediated.
9	Amarpur NP	15530	2.37	2.37	Work to be completed by Dec 2024
10	Khowai MC	9340	1	1	Remediated.
11	Melagarh MC	8143	0.65	0.65	Remediated.
12	Sonamura NP	17971	0.4	0.4	Work to be completed by Nov 2024
13	Ambassa MC	5399	0.8	0.8	Remediated.
TOTAL		2,39,126	15.418	15.418	

ULB wise details of the output of Legacy Waste Bio mining and remediation.
 (Click Here for Annexure 2)

The legacy waste dumpsite at Hapania, Agartala with 5400 MT waste, had been scientifically remediated and closed as per NEEERI, Nagpur in the year August, 2022.

Output of Remediated Legacy Waste

1405

Sl. No	Description	Action Taken
1	RDF (Refuse Derived Fuel) Plastics (Packaging Material, Single Use Polythene of various grades), Pet Bottles, Clothes, Gunny Bags etc.	RDF is being sent to Dalmia cement plant.
2	Good Earth/Soil/Enricher The major component recovered is the organic decomposed fraction i.e. good earth/soil.	It is presently being used for filling the low lying land within the ULB.
3	Inert Component and Construction & Demolition Waste Big Boulders, Stones, Bricks	It is recovered on a regular basis and is being used within the site for maintenance of roads.

Agreement between Agency and Dalmia Cement

AGREEMENT

This agreement for co-processing of non-hazardous waste (hereinafter referred to as "Agreement") is entered into on this 15th Day of February 2024 ("Effective Date") at Guwahati, Assam.

BY AND BETWEEN

Mandy Enterprises, a company incorporated under the Companies Act, 1956 having its registered office at W-8, 1st Floor, Opposite Metro Pillar No.232, West Patel Nagar, New Delhi-110008 (hereinafter referred to as "**MANDY ENTERPRISES**", which expression shall, unless repugnant to the context, include its successors and permitted assigns); of the **FIRST PART**.

AND

Dalmia Cement (Bharat) Limited, a company incorporated under the Companies Act, 1956 having its registered office at Dalmiapuram, Lalgudi District, Tiruchirappalli, Tamil Nadu - 621 651 and having its corporate office at 11th-12th Floor, Hansalaya Building, 15 Barakhamba Road, New Delhi 110 001 (hereinafter referred to as "**DCBL**", which expression shall, unless repugnant to the context, include its successors and permitted assigns); of the **SECOND PART**.

For MANDY ENTERPRISES
Auth. Signatory



1405

Remediated legacy waste dumpsites in different ULBs

1406

Legacy Dumpsite at Khowai



Legacy Dumpsite at Kumarghat



1406

Hapania Dumpsite at Agartala remediated earlier



LEGACY WASTE BIO-MINING OF HAPANIA DUMP SITE

Name of the Contractor	: Media Int., Agartala
Project Cost	: Rs 14.50/- Per Sq. Ft.
Work Awarded on	: 01/08/2020
Date of Commencement	: 01/08/2020
Consultant	: NEERI, Nagpur
Date of Completion	: August, 2022

1407

SEWAGE MANAGEMENT IN URBAN AREAS



1407

Sewage Management in Urban Areas

1408

Data Reported As On 13-04-2023		
Quantity of Sewage generation in 20 ULBs) (in MLD)	Treatment Capacity as on 13-04-2023 (in MLD)	GAP
82.4*	8.72	73.68



Achievement Since Last Hearing	
Progress made since previous hearing	Treatment Capacity Added (in MLD)
In-Situ Nala Treatment of 5 drains, Agartala	1.4
8 MLD STP at Akhaura Constructed	8
Total Achievement	9.4



Present Status As On May 2024		
Quantity of Sewage generation in 20 ULBs) (in MLD)	Treatment Capacity as on 10-05-2024 (in MLD)	GAP
82.4	18.12	64.28

Status Of Ongoing Works To Bridge Gap Of 64.28 MLD

Sl. No.	Name of Work	Number of ULB covered	Treatment Capacity (in MLD)	Present Status	Date of Completion
1	2 nos. Oxidation Ponds in 2 ULBs	2	1.0	Works started	31-12-2024
2	In-Situ Nala Treatment of Drains	8	9.7	Works started	31-12-2024
3	11 nos. STPs	11 (One each in 11 ULB)	17.5	Work order issued	31-03-2025
4	4 nos. STP (Katakhal & Kalapania Khal at Agartala)	1	31.5	Works started	31-03-2025
5	1 STP at Howrah (Agartala)		8.0	Under tendering	30-06-2025
	Total	1408²⁰	67.70		

*ULB wise liquid waste generation data ([Click here for Annexure 3](#))

8 MLD STP (Sequential Batch Reactor) AT CHANDINAMURA, AGARTALA & USE OF TREATED WATER

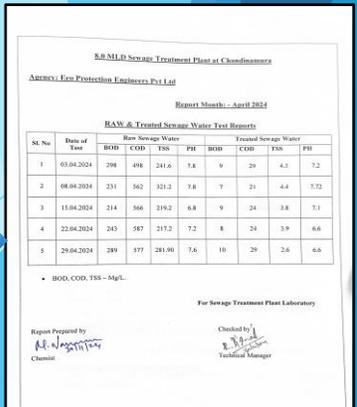
- The present utilisation of the STP is 5 MLD.
- Completion date for remaining capacity utilisation - November 2024.



Re-using the treated water from STP



Sl. No.	Date of Test	Raw Sewage Water				Treated Sewage Water			
		BOD	COD	TSS	PH	BOD	COD	TSS	PH
1	03.04.2024	298	498	241.6	7.8	9	29	4.3	7.2
2	08.04.2024	231	562	321.2	7.8	7	21	4.4	7.7 2
3	15.04.2024	214	566	219.2	6.8	9	24	3.8	7.1
4	22.04.2024	243	587	217.2	7.2	8	24	3.9	6.6
5	29.04.2024	280	577	281.90	7.6	10	29	2.6	6.6



Water Quality Report

1410

8 MLD STP at Akhaura Constructed



- Co-Treatment STP based on SBR(Sequential Batch Reactor) Technology.

1410

1.4 MLD In- Situ Nala Treatment of 5 Drains Flowing to Howrah

Incubation Centre



Screen



Aeration & Enzyme Dosing



Diffuser



Floating Plant Bed



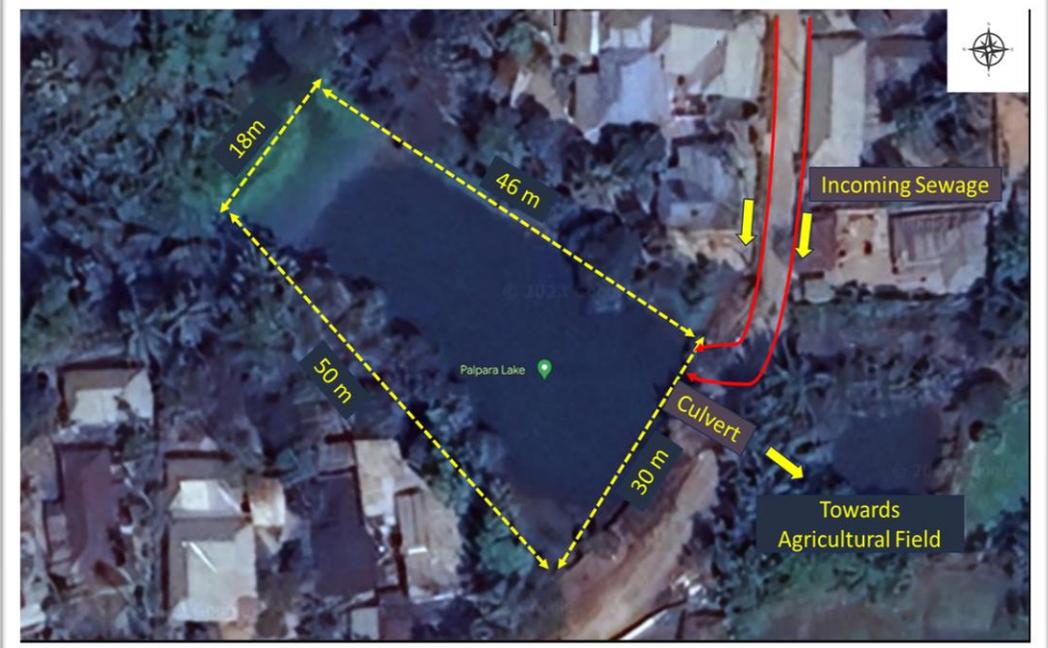
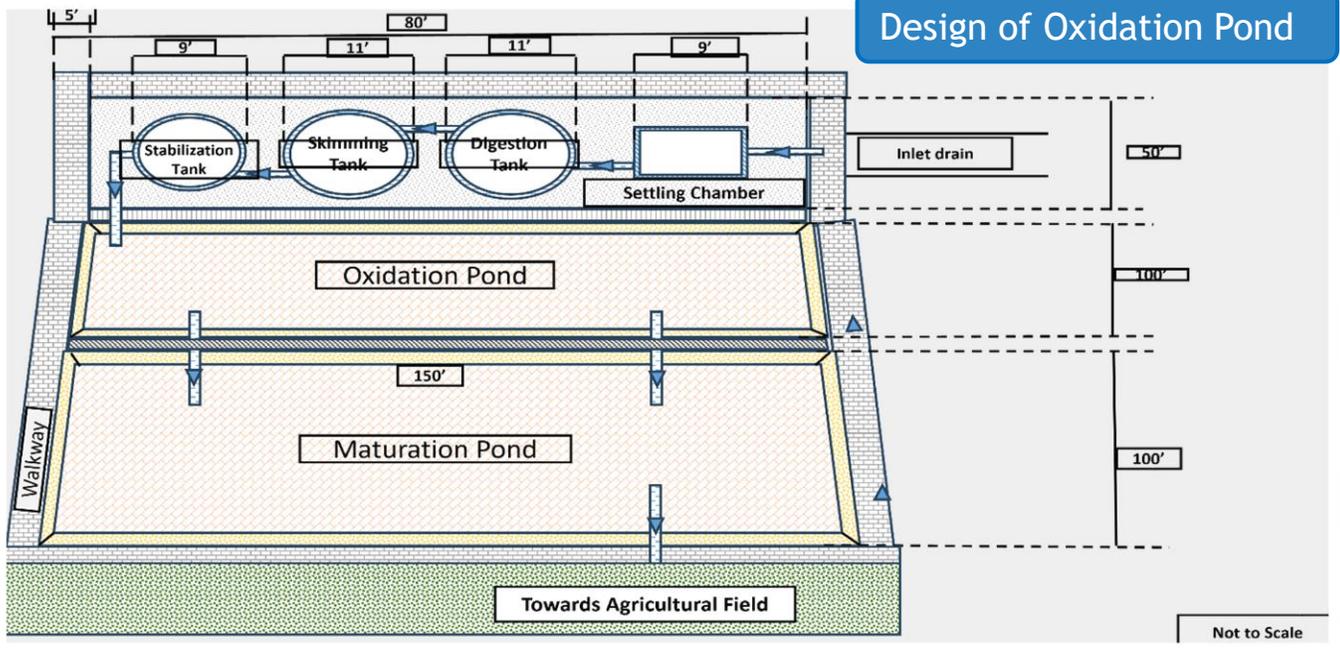
Geo-Bags as Filter Media



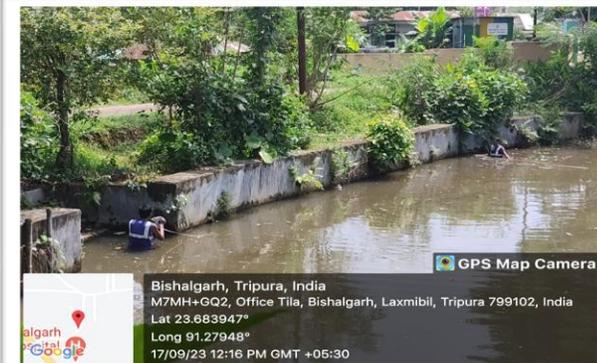
To be completed by
31-12-2024

Oxidation Pond in 2 ULBs (Bishalgarh & Kamalpur)

Design of Oxidation Pond



Location - Kamalpur Lake 1412



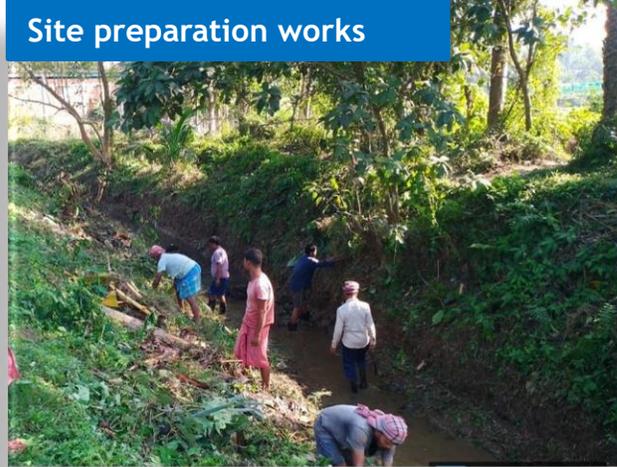
Location- Palpara Lake, Bishalgarh

In- Situ Nala Treatment of Drains in 8 ULBs

Drain width assessment



Site preparation works



De-watering of the treatment site



Preparation of Biocurtains



Preparation of Biomats



RCC work at Treatment Zone



Construction work started for 31.5 MLD STP Over Katakhal & Kalapania Khal Agartala

Boring and piling at STP locations



Pile cap work at STP locations



Sl No.	Name of Project	Latitude	Longitude
1	5 MLD STP at Kalapania Khal	23.833118°	91.252640°
2(a)	10 MLD STP at Katakhal near Ranjit Nagar	23.850253°	91.263913°
2(b)	15 MLD STP at Katakhal near Abhaynagar Bridge	23.841380°	91.287419°
2(c)	1.5 MLD STP at Katakhal near Astabal Bridge	23.842990°	91.283414°

Glimpses of Waste Management Related Activities Across 20 ULBs

Awareness on Source Segregation in Kailashahar



Kailashahar, Tripura, India

Distribution of PPE Kits in Melaghar



Waste to Art innovation by Teliamura



Doormat from waste by Women SHG in Ambassa



Organized Health Camp in Teliamura



Bin Distribution in Belonia



RRR Centre of Melaghar



Raid on single use plastic in Kumarghat



1416

SOLID WASTE AND SEWAGE MANAGEMENT IN RURAL AREAS

1416



SOLID WASTE GENERATION IN RURAL TRIPURA

As per SBM Grameen Framework

- Total GPs/VCs - 1176 Nos.
- Total Rural Population as per 2011 Census - 27,12,464.
- Total estimated Biodegradable Waste in year 2025 - 192.50 TPD (73% of the total solid waste).
- Total estimated Non-Biodegradable Waste in year 2025 - 71.2 TPD (27% of the total solid waste).



Convergence Between Urban And Grameen 1418 Map Displaying Area Coverage And Resource Sharing

Government Of Tripura
 Directorate Of Urban Development
 Swachh Bharat Mission (Urban)
 U.D Bhawan, Sakuntala Road,
 Agartala, Tripura

Government Of Tripura
 PWD (Sanitation Part of DWS)
 Swachh Bharat Mission (Grameen)
 P.N. Complex Cnrkhoboti,
 Agartala, Tripura.

No.F.16 (15) UDD/DUD/SBM/2019 (P-1) Dated: Agartala The September, 2023

MEMORANDUM OF UNDERSTANDING

Sub: Faecal Sludge Management (FSM) and Non-Bio Degradable Dry Waste Management including Plastic Waste Management (PWM) in rural areas by co-using the existing and proposed treatment/processing facilities (STP/FSTPs and Tertiary Waste Treatment Plants) of ULBs-reg.

Management of solid and liquid waste has been mandated as the responsibility of Urban Local Bodies (ULBs)/ Rural Local Bodies (RLBs) and that of the State Government by Hon'ble NGT (an arm of the Hon'ble Supreme Court of India). Various specific Hon'ble NGT Orders, such as O.A. 606/2018 w.r.t. Solid Waste Management, O.A. 593/2017 & O.A. 673/2018 w.r.t. Liquid Waste Management and Polluted River Stretches, O.A. 247/2017 w.r.t. Plastic Waste Management has already been issued to State with various Directives. However, failing to comply the Directives may attracts imposition of huge financial penalty on State.

Whereas, a letter was issued by Secretaries of both the Ministries vide D.O.No.S-18011/6/2021-SBM-DDWS dated 14th September, 2021, highlighting scope to formulate State Level implementing Strategies where resources of Urban and Rural thus created could be co-used respectively by Urban Local Bodies (ULBs) / Rural Local Bodies (RLBs) or in a cluster approach.

Whereas, Urban Development Department and PWD (DWS) Department hereby decides to leverage the existing and proposed infrastructure of both Urban and Rural w.r.t solid and liquid waste management to be co-used by each other to cater to the requirements of respective urban/rural areas and thus aid in complying with the directive of Hon'ble NGT.

Whereas, a brief convergence on the various scopes of solid and liquid waste management infrastructure sharing and co-use by Urban Local Bodies (ULBs) and Rural Local Bodies (RLBs) has been decided in the following manner:

1. **Faecal Sludge Management (FSM) in rural areas:**
 i) Convergence on Faecal Sludge and Septage Management (FSSM) shall ensure Gram Panchayats (GPs) of Tripura to avail facilities infrastructures like 17.5 MLD STP with co-treatment facility which are proposed to be constructed in a de-centralized manner at 11 Municipal Councils namely Dharmanagar, Udaipur, Mohanpur, Kailashahar, Ranirbazar, Melaghar, Belonai, Khowai, Kumarghat, Ambassa and Teliamura. District Magistrate & Collector shall involve their respective BDOs to tag the Gram Panchayats which are within approximately 20 KM. distance from the ULB with proposed STP / FSTPs (to be constructed in Gram Panchayats). GPs have to be categorised into 3(three) groups such as falling under (10/15/20 Km.) for the purpose of notifying fixed tariffs/slabs.

Page 1 of 3

be handed over to the beneficiary immediately prior to actual weighing. The charges should be collected on site compulsorily.

04.

● 2. Non-Bio Degradable Dry Waste Management including Plastic Waste Management (PWM) in rural areas:

- Each district shall tag their respective GPs to a suitable Urban Local Body for transportation of segregated dry waste.
- GPs shall be responsible to transport segregated dry waste only to the Tertiary Waste Treatment Plant of the tagged ULB. The GP shall ensure that no wet waste / C&D waste/Hazardous waste & E-waste are transported to the Tertiary Waste Treatment Plant. The frequency of transport shall depend on the volume to be transported. The Blocks can construct interim storage as per requirement. The Blocks may choose to procure a trailer to compress plastic waste before transportation to increase transport efficiency.
- The disposal of the received dry waste shall be the responsibility of the tagged ULBs.
- The ULBs shall dispose-offrecyclable dry waste through recyclers and other suitable mechanism following relevant Rules and Guidelines as amended from time to time.
- The GPs shall bear the cost of transportation of the segregated dry waste to the tagged Tertiary Waste Treatment Plant.
- ULB shall not make any payment on account of the revenue earned by it on processing of the said dry waste nor charge any cost for processing of the dry waste to the GPs.
- On delivery to the Tertiary Waste Treatment Plant site acknowledgement of materials received indicating approximate quantity or volume from the GPs may be done by the ULBs.

As FSM & PWM are activities regulated by the relevant Environment Acts, Rules, Regulations & Orders of Hon'ble NGT and time bound actions are warranted. District Magistrate & Collectors are requested to plan, execute and monitor faecal sludge and plastic waste management in both urban and rural areas as per above guidelines.

The tagging of all GPs within 20 km to proposed facilities of PWM and STPs/FSTPs may be completed by 18.10.2023 and list to be shared with the Government in both the Departments.

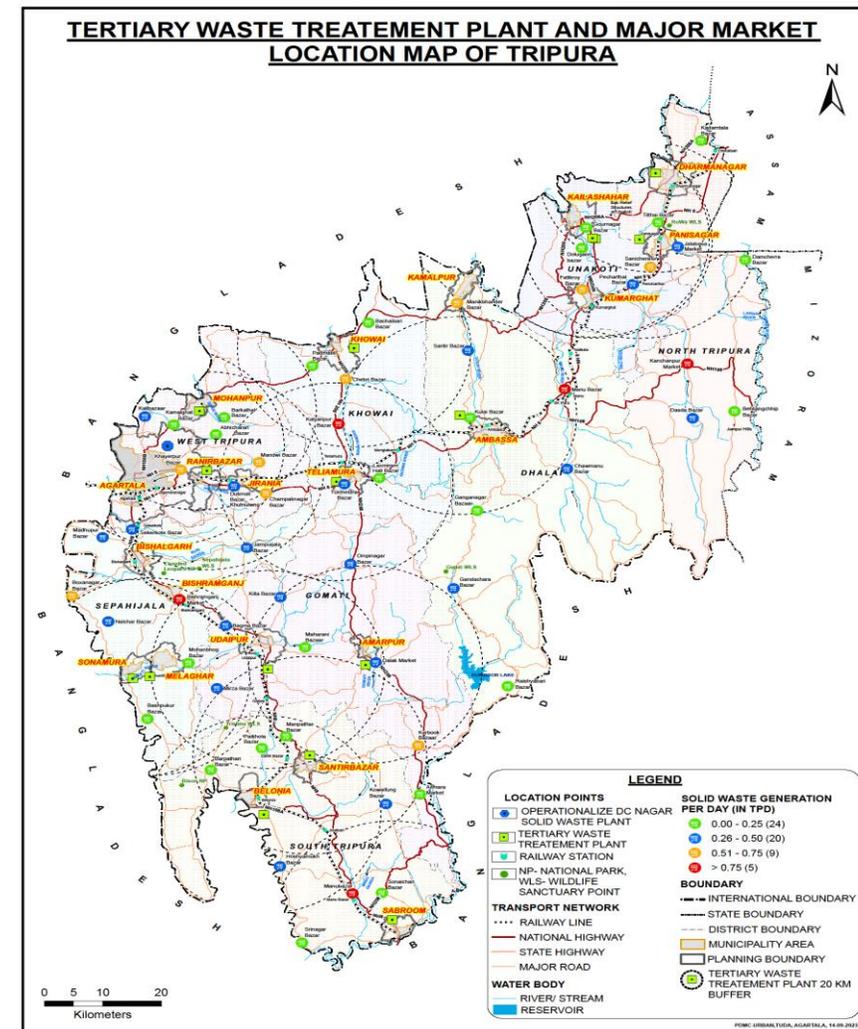
(Dr. Sanjeev R. Rathod, IAS)
 Secretary
 PWD (Sanitation Part of DWS)
 Government of Tripura

(A.K. Sanyal)
 Secretary
 Urban Development Department,
 Government of Tripura

Copy to:

- The Mission Director, SBM-U & SBM-G, for kind information and necessary action.
- The District Magistrate & Collector, 8 District, for kind information and necessary action.
- The Municipal Commissioner, AMC, for kind information and necessary action.
- The Member Secretary, TSPCB, for kind information and necessary action.
- The Chief Executive Officer, 13 Municipal Councils, for kind information and necessary action.
- The Executive Officer, 6 Nagar Panchayats, for kind information and necessary action.

Page 4 of 5



Highlights of MOU Between Urban and Grameen

1419

Faecal Sludge Management (FSM)

- Gram Panchayats (GPs) of Tripura shall avail the proposed STP/FSTP facilities of ULBs which are approximately within 20 K.M. distance GP.
- GPs have to be categorised into 3(three) groups such as falling under (10/15/20 Km.) for the purpose of notifying fixed tariffs/slabs.
- Interested Rural Households (Households having toilets with Single Pit/Septic Tank) may send their Faecal Sludge to the proposed STPs/FSTPs of the tagged ULB on payment of notified service charges.
- These GPs may be encouraged to utilize the entire value chain of the FSM being constructed/ proposed under ULBs.

Non-Biodegradable Dry Waste Management including Plastic Waste Management (PWM)

- Each district shall tag their respective GPs to a suitable Urban Local Body for transportation of segregated dry waste.
- GPs shall be responsible to collect segregated dry waste and transport it to the Solid Waste Processing Plant of the tagged ULB, cost of transportation to be borne by GPs.
- The Blocks shall construct interim Dry Waste storage sheds with a bailer machine as per requirement.
- The disposal of the received dry waste shall be the responsibility of the tagged ULBs and in doing so no revenue will be shared by ULB for processing of Dry waste of GPs.

1419

Biodegradable Waste 1420 in Rural Tripura

Sl. No.	Subject	Quantity in TPD	Description
1	Total Biodegradable Waste Generation	192.50	-
2	Present treatment Capacity	227.5	<ul style="list-style-type: none">✓ Individual Compost Pit - 62,518 (16.19 TPD)✓ Cattle feeding (Cows, pigs and goats) - 37,946 (123.16 TPD)✓ Community Compost Pit- 3404 (88.15 TPD)✓ Individual Biogas Plant- 640 (0.16 TPD)

*District wise bio-degradable waste data (Click here for Annexure 4)

Management of Biodegradable Solid Waste

1421

Household Biogas Plant



Cattle Feeding (Pig)



Cattle Feeding (Goat)



Community Compost Pits



1421



Individual Compost Pits



Non- Biodegradable Waste in Rural Tripura

1422

SL. NO.	SUBJECT	QUANTITY IN TPD	DESCRIPTION
1	Total Non-Biodegradable Waste Generation	71.20	All 1176 GPs/VCs
2	Waste Segregation Facility & Management	56.99	942 segregation storage in village level and using Plastic Waste Management facilities under urban areas.
3	Gap	14.21	<p>Action Plan to mitigate 14.21 TPD Gap in 2024-25 is as per SBM Grameen Guidelines:</p> <p>FY 2024-25- 14.21 TPD :</p> <ul style="list-style-type: none"> • Setting up of 234 segregation, storage units at village level in cluster mode. • Setting up of at least 8 Plastic Waste Management Unit at Block level and by co-using the facilities of Urban MRF Centres. • Completion Date – 31st March 2025

1422

***District wise non bio-degradable waste data (Click here for Annexure 5)**

Management of Non-Biodegradable Solid Waste

1423

North Tripura District



Waste Collection in different villages

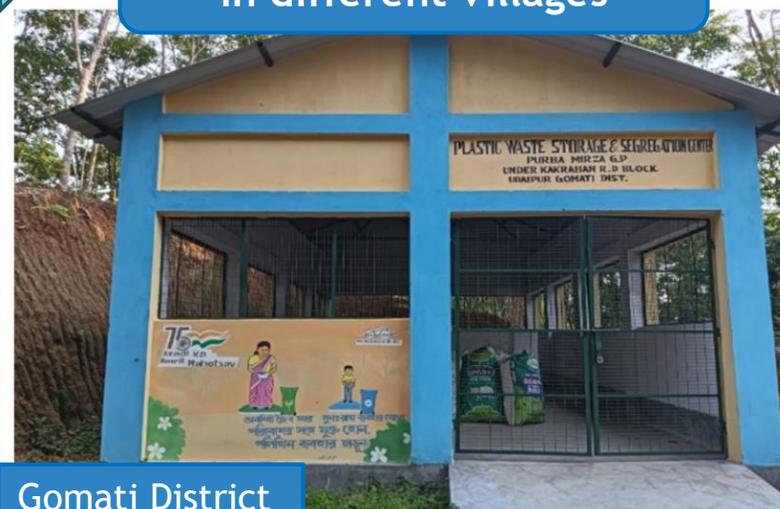


Sepahijala District

Unakoti District



Waste Segregation Center in different villages



Gomati District

1423

Non- Biodegradable waste from villages is transported to and processed in Urban MRF centres under the Rural-Urban Convergence

Notifications issued by various Blocks connecting its villages to Urban MRFs

GOVERNMENT OF TRIPURA
OFFICE OF THE BLOCK DEVELOPMENT OFFICER
MANDWI R. D. BLOCK
WEST TRIPURA
Dated 08/11/2023

To
The Chairman, DSBM/C
G.M. & Collectors, West Tripura District,
Agartala.

Subject - Sending of information regarding Faecal Sludge Management and Non-Bio Degradable Dry Waste management including plastic Waste Management under Mandwi RD Block, West Tripura.

Ref. No. - F.11(DM/W/SSB/MC/2023-24)5377-78, dt:02-11-2023.

Sir,
In reference to the subject cited above, I am furnishing herewith below the information regarding Faecal Sludge Management and Non-Bio Degradable Dry Waste management including plastic Waste Management under Mandwi RD Block as per prescribe format which was received from your kind end.

Category	One way distance of VC from road side ULB area	Name of VC	Total distance (In Km)	Approximate fuel requirement in Litres @ 5 Km. Per Litres.	Fuel charges @90 per Litres.	Base price for FSSM @900 per Litres.	Total charges In Rs
A	6	Asri	12	3	270	4000	4270
A	9	Ashghar	18	4	360	4000	4360
				5	450	4000	4450
				4	360	4000	4360
				7	630	4000	4630
				6	540	4000	4540
				6	540	4000	4540
				6	540	4000	4540
				3	270	4000	4270
				6	540	4000	4540
				6	540	4000	4540
				5	450	4000	4450
				6	540	4000	4540
				6	540	4000	4540
				3	270	4000	4270
				6	540	4000	4540
				7	630	4000	4630
				6	540	4000	4540
				4	360	4000	4360
				6	540	4000	4540
				7	630	4000	4630
				5	450	4000	4450
				4	360	4000	4360
				7	630	4000	4630

GOVERNMENT OF TRIPURA
OFFICE OF THE BLOCK DEVELOPMENT OFFICER
DUKLI R.D. BLOCK, WEST TRIPURA
Dated: 09-11-2023

To
The Chairman,
District Swachh Bharat Mission Management Committee (G)
(District Magistrate & Collector)
West Tripura, Agartala.

Subject - Sending of information regarding Faecal Sludge Management and Non-Bio Degradable Dry Waste management including Plastic Waste Management under Dukli RD Block.

In reference to the subject mentioned here in above and I am sending of information regarding Faecal Sludge Management and Non-Bio Degradable Dry Waste Management under Dukli RD Block.

Category	One way distance of VC from ULB boundary (Kms)	Name of VC	Total distance (km)	Approximate fuel requirement (Litres per hour)	Fuel charges @90 per Litre	Base price for FSSM @900 per Litre (Rs)	Total Charge (In Rs.)
A	6	ANANDANAGAR	12	2.4	216	3000	3216
A	1	BELABAR	2	0.4	36	3000	3036
I	11	BIKRAMNAGAR	22	4.4	396	3000	3396
C	3	CHARIPARA	6	1.2	108	3000	3108
M	25	EAST JARULBACHAI	50	10	900	3000	3900
C	3	ISHANCHANDRA NAGAR	6	1.2	108	3000	3108
L	15	JARUL BACHAI	30	6	540	3000	3540
H	10	KALIDAS	20	4	360	3000	3360
E	10	KANCHANMALA	20	4	360	3000	3360
E	5	MADHUBAN	10	2	180	3000	3180
F	6	MALHINDOLA	12	2.4	216	3000	3216
A	1	MALAYNAGAR	2	0.4	36	3000	3036
I	12	PANDEBPUR	24	4.8	432	3000	3432
J	10	SINAGAR	20	4	360	3000	3360
C	3	SURYAMANI NAGAR	6	1.2	108	3000	3108
L	20	JARUL BACHAI WEST	40	8	720	3000	3720
B	2	BAGMANA	4	0.8	72	3000	3072
C	3	BALLABPUR	6	1.2	108	3000	3108
D	4	CHOWMURANI BAZAR	8	1.6	144	3000	3144
J	12	PICHALI	24	4.8	432	3000	3432
G	8	KATHALTALI	16	3.2	288	3000	3288
H	9	SEKERKOTE	18	3.6	324	3000	3324
B	5	WEST ANANDANAGAR	10	2	180	3000	3180
		Total	368	73.6	6624	69000	75624

This is for kind information and doing the needful please.

Yours faithfully,
[Signature]
Block Development Officer
Dukli RD Block, West Tripura.

Grey Water Management in Rural Tripura

Sl. No.	Subject	Quantity in MLD	Remarks
1	Total Grey Water Generation	145.03	<ul style="list-style-type: none"> All 1176 GP/VC
2	Present Treatment Capacity	101.48	<ul style="list-style-type: none"> ✓ Individual Soak Pit-14442 (2.82 MLD) ✓ Community Soak Pit- 4646 (29.89 MLD) ✓ Kitchen Garden- 351254 (68.77 MLD)
3	Gap	43.55	<p>Action Plan to mitigate Gap in 2024-25 is as per the SBM-G guidelines:</p> <p>Planned infra in FY 2024-25 - 48.62 MLD:</p> <ul style="list-style-type: none"> Individual Soak Pit-107738 (21.05 MLD) Community Soak Pit-4286 (27.56 MLD)

1424

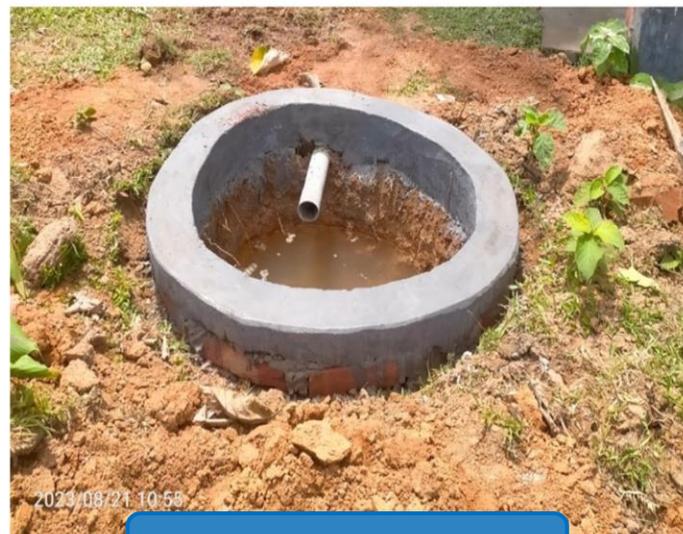
*District wise greywater management data ([Click here for Annexure 6](#))

Grey Water Management

1425



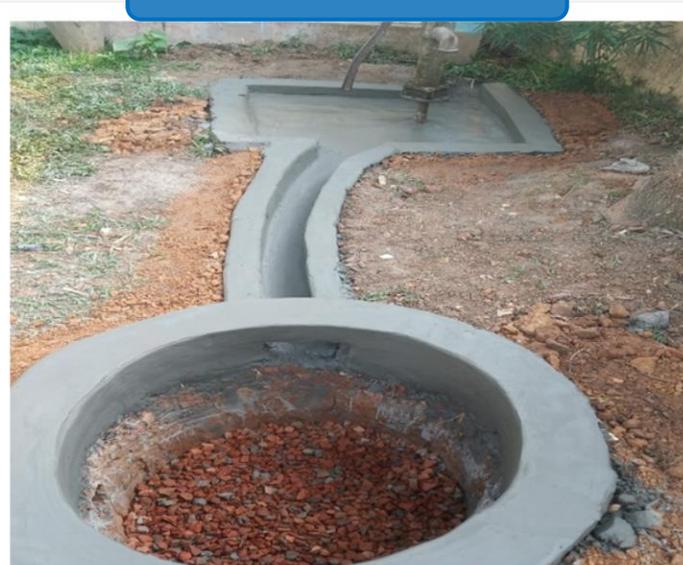
Kitchen Gardens



Individual Soak Pits



Community Soak Pits



1425



Achievements Since Last Hearing

Sl. No.	Items	Achievements (in numbers)
1.	Individual Compost Pit	15,527
2.	Community Compost Pit	2764
3.	Segregation Shed	44
4.	Individual Soak Pit	8217
5.	Community Soak Pit	3735

Faecal Sludge Management in Rural Tripura

1427

- In rural areas, households rely on on-site sanitation and predominantly on twin pit system which do not generate faecal sludge.
- MoU signed with ULBs for all 58 blocks to treat faecal sludge generated in rural areas.
- 20971 Single pit toilets have been converted into twin pits during 2023-24
- 8(eight) FSTPs(one for each District) will be constructed on cluster basis with technical assistance from 'Consortium for DEWATS Dissemination(CDD), India' during 2024-25, from the SBM-G fund.

Retrofitting of single pit to twin pit



Notification enabling use of Urban Cesspool vehicles in rural areas for toilets with septic tank

Village HHs co-use nearby ULB FSM facilities under the Urban-Rural Convergence MoU



District Swachh Bharat Mission Management Committee (D) (District Magistrate & Collector) West Tripura, Agartala

Subject - Sending of information regarding Faecal Sludge Management and Non-Bio Degradable Dry Waste Management including Plastic Waste Management under Dukt. RD Block.

As per the Subject Mentioned here in above and I am sending of information regarding Faecal Sludge Management and Non-Bio Degradable Dry Waste Management under Dukt. RD Block

Sl. No.	Block Name	No. of FSTPs	Approximate total population (as per the last census)	Total FSTPs (as per the last census)	Area under the FSTPs (in Sq. Mtr.)	Total Charges (in Rs.)
1	ANANDANAGAR	12	2,4	216	3000	3216
2	BELAKAR	2	0,4	36	3000	3036
3	BISWANANAGAR	22	4,4	396	3000	3396
4	CHARIPARA	8	1,2	108	3000	3108
5	EAST JARULBACHAI	30	10	900	3000	3900
6	SHANSHANDIA	8	1,2	108	3000	3108
7	JARUL BACHAI	30	6	540	3000	3540
8	KALIAS	20	4	360	3000	3360
9	KANDHANALA	20	4	360	3000	3360
10	MADHUSAN	30	2	180	3000	3180
11	MARSHINGOLA	12	2,4	216	3000	3216
12	MALAYANAGAR	2	0,4	36	3000	3036
13	PANDARPUR	24	4,8	432	3000	3432
14	SHUNLAGAR	30	4	360	3000	3360
15	SHIVAMARI	8	1,2	108	3000	3108
16	WEST JARULBACHAI	40	8	720	3000	3720
17	BAKASIA	4	0,8	72	3000	3072
18	BALLASPUR	8	1,2	108	3000	3108
19	CHENKUNGANI	8	1,6	144	3000	3144
20	PULTALI	24	4,8	432	3000	3432
21	KATMALEALI	16	3,2	288	3000	3288
22	SEKEROTE	18	3,6	324	3000	3324
23	WEST ANANDANAGAR	30	2	180	3000	3180
Total		368	73,6	6624	60000	75624

This is for kind information and doing the needful please.

Yours faithfully,
 (Signature)
 Addl. Block Development Officer
 Dukt. RD Block, West Tripura.

1427

Allocation for Building SBM-G Infrastructure

1428

Components	2024-25 (in Lakhs)
SBM(G)	13,738.67
15th FC	5196.08
MGNREGA	4619.02
Total	23,553.77

▶ Fund allocated under different central schemes will suffice for construction of solid and liquid waste management assets in the rural areas of the state.

▶ Target for making all villages model ODF Plus has been fixed as per the SBM-G guidelines.

Capacity Building and IEC initiatives

1429

IEC Sessions and Creatives

West Tripura District



Old Agartala Block



Rajnagar Block



State, District and Block Level Orientation Programme For SLWM Activities

B.C. Nagar Block



Rajnagar Block



1429

Poangbari Block



11/02/2022 11:58

Tepania Block



1430

Thank You

1430



ULB wise Solid Waste Generation

Sl No.	Name of ULB	Population (2021-22)	Solid Waste Generation (2021-22) (In TPD)	Population (2022-23)	Solid Waste Generation (2022-23) (In TPD)
1	Agartala MC	539302	230	580126	247.4
2	Mohanpur MC	20013	5.61	20041	5.6
3	Ranibazar MC	16819	4.85	17331	5.0
4	Jirania NP	13568	3.89	13698	3.9
5	Santirbazar MC	15285	3.05	15285	3.1
6	Belonia MC	21433	4.92	21433	4.9
7	Sabroom NP	8828	2.53	6954	2.0
8	Dharmanagar MC	48074	13.84	48822	14.1
9	Panisagar NP	11371	2.57	11371	2.6
10	Kailashahar MC	24011	6.79	24926	7.0
11	Kumarghat MC	15223	4.47	15223	4.5
12	Udaipur MC	39088	9.37	39071	9.4
13	Amarpur NP	12106	3.55	12294	3.6
14	Khowai MC	21823	6.42	21823	6.4
15	Teliamura MC	23501	7	25134	7.5
16	Bishalgarh MC	22152	6.5	22152	6.5
17	Melagarh MC	20064	5.65	20064	5.7
18	Sonamura NP	15799	3.77	13166	3.1
19	Ambasa MC	16127	4.53	16073	4.5
20	Kamalpur MC	13046	3.77	12120	3.5
Total		917633	1431 333.1	957107	350.2

ULB wise Bio-mined Waste from Legacy Dumpsites

1432

Go Back

ULB WISE DETAILS OF REMEDIATION- MAY '24				OUTPUT *				
Sl. No.	Name of ULBs for remediation	Estimated qty. (in tons)	Area (In acres)	Quantity of good soil recovered (in tons)	Quantity of inerts (in tons)	Quantity of C&D (in tons)	Quantity of RDF (in tons)	Total land recovered (in acres)
A	B	C	D	F	G	H	I	J
1	Belonia MC	19706	4	4789	9754	1419	1774	4
2	Sabroom NP	9367	0.688	2276	4637	674	843	0.688
3	Panisagar NP	3083	0.2	749	1526	222	277	0.2
4	Kumarghat MC	5248	0.45	1275	2598	378	472	0.45
5	Udaipur MC	25660	1.48	6235	12702	1848	2309	1.48
6	Khowai MC	9340	1	2270	4623	672	841	1
7	Melagarh MC	8143	0.65	1979	4031	586	733	0.65
8	Ambassa MC	5399	0.8	1312	2673	389	486	0.8
9	Santibazar MC	8571	0.88	1500	3599	420	480	0.65
10	Dharmanagar MC	74598	1.5	13092	26669	3879	4849	0.75
11	Kailashahar MC	36510	1	4436	9036	1314	1643	0.45
12	Amarpur NP	15530	2.37	2097	4271	621	777	1.15
13	Sonamura NP	17971	0.4	3882	7907	1150	1438	0.32

1432

* The bio-mined waste loses around 8-10% of its weight due to loss of moisture content over the time period of waste mining.

ULB wise Sewage Generation

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Go Back

Sl. No.	ULB Name	Population	Sewage Generation in ULBs @ 103 LPCD for Agartala * and @ 56 LPCD for Other towns ** with 10% infiltration. (In MLD)	
1	Agartala MC	539839		61.0
2	Dharmanagar MC	47988		3.0
3	Panisagar NP	11371		1.0
4	Kailashahar MC	24011		1.0
5	Kumarghat MC	15223		1.0
6	Ambassa MC	16127		1.0
7	Kamalpur NP	12116		1.0
8	Khowai MC	21823		1.0
9	Teliamura MC	23501		1.0
10	Ranirbazar MC	16819		1.0
11	Jirania NP	13568		1.0
12	Mohanpur MC	20013		1.0
13	Bishalgarh MC	22236		1.0
14	Melaghar MC	20064		1.0
15	Sonamura NP	13117		1.0
16	Udaipur MC	39088		2.0
17	Amarpur NP	12102		1.0
18	Belonia MC	21433		1.0
19	Santirbazar MC	15285		1.0
20	Sabroom NP	6936	1433	0.4
Total		9,12,660		82.4

*Water Supply for Agartala MC is @ 128 Liters/per capita/per day (80% of 128L PCD = 103 LPCD)

**Water Supply for remaining ULBs is @ 70 Liters/per capita/per day (80% of 70 LPCD = 56 LPCD)

(As per CPHEEO, Sewage generation is 80% of water supply)

District wise Biodegradable Solid Waste Generation and Management

[Go Back](#)

Sl.No.	District	Total Biodegradable Solid Waste Generaton (in TPD)	Total Waste Managed (in TPD)
1	Dhalai	22.92	27.5
2	Gomati	27.11	27.2
3	Khowai	20.47	20.57
4	North Tripura	20.0	26.2
5	Sepahijala	33.0	40.18
6	South Tripura	25.0	32.6
7	Unakoti	16.0	18.4
8	West Tripura	28.0	34.7
	Total	192.50	227.35

1434

District wise Non-Biodegradable Solid Waste Generation and Management

1435

Go Back

Sl.No	District	Total Non- biodegradable Solid Waste Generaton (in TPD)	Total Waste Managed (in TPD)
1	Dhalai	8.54	6.832
2	Gomati	10.27	8.216
3	Khowai	7.51	6.008
4	North Tripura	7.45	5.96
5	Sepahijala	12.17	9.736
6	South Tripura	9.07	7.256
7	Unakoti	5.98	4.784
8	West Tripura	10.24	8.192
	Total	71.20 1435	56.99

District wise Grey Water Generation and Management

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Go Back

Sl.No	District	Total liquid Waste Generaton (in MLD)	Total liquid waste managed (in MLD)
1	Dhalai	15.21	10.64
2	Gomati	19.45	13.62
3	Khowai	11.38	7.96
4	North Tripura	17.2	12.04
5	Sepahijala	28.5	19.95
6	South Tripura	19.6	13.72
7	Unakoti	14.19	9.933
8	West Tripura	19.5	13.59
	Total	145.03	101.48

1436