

**GOVERNMENT OF MEGHALAYA
FORESTS AND ENVIRONMENT DEPARTMENT**

No. FOR/CC/8/2019/Vol III/197

Dated Shillong 16th June, 2023

From: Dr. Manjunatha C, IFS
Secretary to the Govt. of Meghalaya.
Forests and Environment Department

To: The Registrar General
Hon'ble National Green Tribunal (Principal Bench)
New Delhi

**Sub: Six Monthly Progress Report in compliance to direction passed by Honble NGT
vide order dated 22.12.2022 in OA No. 606/2018**

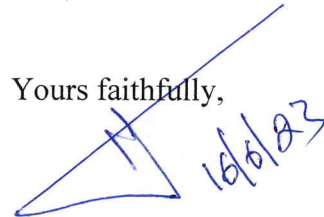
Sir,

With reference to above cited subject, I have the honour to submit herewith Six Monthly Progress Report in compliance to direction passed by Hon'ble NGT vide order dated 22.12.2022 in O.A No. 606/2018 for kind consideration.

Soft copy of Report in searchable PDF/OCR support PDF has been enclosed.

Encl: As above

Yours faithfully,



(Dr. Manjunatha C, IFS)
Secretary to the Government of Meghalaya
Forests and Environment Department

SIX-MONTHLY REPORT OF COMPLIANCE WITH ORDER DATED 22.12.2022 OF THE HON'BLE NATIONAL GREEN TRIBUNAL (P.B) IN OA No. 606/2018 IN RE: COMPLIANCE TO MUNICIPAL SOLID WASTE MANAGEMENT RULES, 2016 AND OTHER ENVIRONMENTAL ISSUES

The Hon'ble NGT (Principal Bench) vide judgment and order dated 22.12.2022 in OA No. 606/2018 had made several observations/directions in the context of Meghalaya:

- (i) The State of Meghalaya will take further measures in relation to solid and liquid waste management by innovative approach and stringent monitoring, ensuring that gaps in solid and liquid waste generation and treatment are bridged at the earliest, shortening the proposed timelines, adopting alternative/interim measures to the extent and wherever found viable.
- (ii) Environment Restoration plans shall be executed at the earliest simultaneously in all districts/cities/ towns/ villages in a time bound manner.
- (iii) It will be open to the State Government to plan raising of requisite funds from generators/contributors of waste or by any other legal means.
- (iv) In the recent order of Hon'ble NGT dated 01.09.2022 in O.A No. 606/2018 (in respect of State of West Bengal) compensation was determined @ Rs. 2 Crore per MLD for untreated liquid waste and for unprocessed legacy waste @ Rs. 300 per MT to be utilized for restoration measures, including preventing discharge of untreated sewage and solid waste treatment/processing facilities etc.
- (v) Applying the latter compensation scale, considering the statement the gap in sewage generation and treatment is taken to be 50 MLD and gap in solid waste management around 3 lakh MT legacy waste the estimated environmental compensation comes to around Rs 109 Crores.
- (vi) The Hon'ble Tribunal took due notice of the letter of financial commitment filed by the State Government on 22nd December 2022 in the Hon'ble NGT to bridge the gap in solid and liquid waste management in the State wherein the State had pledged a sum of Rs 109 Crores for the aforesaid purpose which will be kept in a ring fenced account to meet the expenditure required on account of the gap in solid and liquid waste management.

- (vii) In due acceptance of the aforesaid pledged sum of Rs 109 Crores, the Hon'ble NGT was pleased to refrain from imposing any punitive compensation on the State of Meghalaya.
- (viii) The Hon'ble NGT also took due note of the statement of funds available with the State of Meghalaya to undertake solid and liquid waste management for a total sum of Rs 234.05 Crores, which was duly depicted in the PPT presentation filed by the State in the NGT and confirmed by the Chief Secretary during interaction with the NGT during the course of hearing.
- (ix) The Hon'ble NGT also directed that Six monthly progress reports with reference to progress achieved in utilization of the aforesaid compensation sum for the purpose of liquid and solid waste management shall be filed by the Chief Secretary with a copy to the Registrar General of the NGT by e-mail at judicial-ngt@gov.in preferably in the form of searchable PDF/OCR Support PDF and not in the form of Image PDF and copies thereof may be furnished to the NMCG, MoUD and CPCB part from placing the same on the website of the State Government.

In compliance with the directions of the Hon'ble NGT, the State Govt. has taken several steps to improve the solid and liquid waste management scenario in the State. All efforts have been made to collect the requisite committed fund to meet the expenditure on account of the gap in solid and liquid waste management as directed by the Hon'ble NGT vide their order dated 22.12.2022.

The details of the funds: (i) collected and placed in the Ring fenced account which is being operated by the Chief Secretary, Govt of Meghalaya, (ii) the funds utilized after 22nd Dec 2022, being the date of judgment of the Hon'ble NGT as referred above, for the purpose of meeting the gap pertaining to solid and liquid waste management in the State though were not placed in the Ring fenced Account because of the constraints imposed by the project/scheme sanctioning authority and other operational reasons, and (iii) the sum utilized from the Ring fenced Account for the aforesaid purpose are enclosed as **Annexure I**. The total sum collected and spent so far since 22nd Dec 2022 is Rs 119.96 lakhs which is exclusive of a further sum of Rs 16 crores deposited in the Ring fenced account for undertaking solid and liquid waste management in the Rural areas of Meghalaya.

With reference to physical progress in the Solid Waste Management sector, the State has increased its collection and processing of solid waste thereby reducing the gap correspondingly. Besides the above, a detailed Action Plan has been drawn by the State Government under the Swachh Bharat Mission 2.0 to further upgrade and improve solid waste management in terms of collection, segregation and setting up processing facilities and requisite proposal for sanction of funds has been submitted. The State is also exploring novel forms of technology particularly “waste to energy” as part of its efforts to manage the solid waste in the Municipal towns.

Insofar as Legacy Management is concerned DPR on Legacy Waste Treatment is under preparation by Shillong Municipal Board after NEISICS has given an approval for DPR preparation which would be finalized soon. Under the Swachh Bharat Mission (U) 2.0, NARC has approved the Legacy Waste Treatment project and allocated funds for the same which are likely to be released and legacy waste treatment would commence forthwith after that. The DPR for legacy waste treatment is being modelled along the concept of bioremediation of the capped land fill site and its reclamation thereafter through raising a plantation. Thus a well conceived plan for legacy waste treatment is in place which would be implemented soon.

In the sanitary land fill site sector finalization of sites for setting up of permanent Sanitary Landfill (SLF's) are at an advanced stage in the ULBs where there is presently no such land fill site. The Urban Affairs Department in addition to the existing landfill site at Marten, Shillong, has also finalized and acquired another site at Nonghali in Shillong. The site at Nonghali was finalized and acquired after seven years of arduous negotiations which will cater to Shillong Agglomeration and its peripherals, Jowai and Ribhoi district other towns till a proper Sanitary Landfill Site is in place in the other towns of Khasi- Jaintia Hills districts. Currently land survey is in progress at this site which will be completed shortly and immediately thereafter Environmental clearance would be sought under the category of B2 projects for expeditious environmental clearance and thereafter be opened for utilization.

In the Liquid Waste Management sector, the civil works with respect to FSTP's and onsite STP's are nearing completion and most of them are awaiting power supply for the purpose of being commissioned. Insofar as nullah-in-situ remediation is concerned, trial

run has begun in some and civil works are nearing completion in all the remaining drains. In addition to the above, a detailed Action Plan has been drawn up by the State Government under the Swachh Bharat Mission 2.0 to further improve liquid waste management in terms of setting up of decentralised Sewage Treatment Plants (STP) and requisite proposal for sanction of fund has already been submitted to the appropriate authority.

The details relating to progress in Liquid (sewage) Waste Management in the State is enclosed herewith as **Annexure II** comprising various items of progress depicted in tabular forms summarizing the current status of liquid waste management in Meghalaya (Table 1), existing Liquid Waste Management facilities in Shillong Municipality (Table 2), liquid Waste Management facilities under construction in Shillong (Table 3), STPs under construction in Shillong (Table 4), FSTPs under construction in various ULBs in the State (Table 5), and details of infrastructure proposed to be constructed for Liquid (Sewage) Waste Management in the State (Table 6). The photographs of STPs and FSTPs under construction in areas under various municipal boards and awareness programmes conducted to spread awareness about liquid waste management are also enclosed as photoplates within this Annexure.

The details of financial progress relating to Liquid (sewage) Waste Management is enclosed herewith as **Annexure III** comprising in tabular format the summary of financial progress relating to liquid waste management under various schemes for areas falling under various Municipal Boards (Table 7).

The details of Physical Progress relating to Solid Waste Management in Meghalaya is enclosed herewith as **Annexure IV** comprising in tabular format the current status of Legacy Waste Management in Meghalaya (Table 8), summary of current status of ward wise details of Solid Waste Management in Meghalaya (Table 9), summary of current status of Solid Waste Management in Meghalaya with reference to the status at the time of last hearing i.e., 22nd Dec 2022 (Table 10), and current status of setting up Sanitary Land fill sites in various ULBs in Meghalaya (Table 11), and projects approved under SBM 2 for solid waste management (Table 12).

Quarterly progress report in relation to Solid Waste Management in the State of Meghalaya (Municipal areas) for the IV quarter of financial year 2022-23 viz., January - March 2023 is enclosed herewith as **Annexure V**.

The progress relating to solid waste and liquid waste management in Rural Areas is enclosed herewith as **Annexure VI**.

Summarizing the essential details it is stated that the sum committed to the Hon'ble NGT by the State Government has been complied inasmuch as a total sum Rs 109 Crores have been committed in an irrevocable manner for solid and liquid waste management in the State. A sum of Rs 71.16 Crores has been incurred as expenditure for solid and liquid waste management in the State after 22nd December 2022 pursuant to the judgment of the Hon'ble NGT dated 22.12.2022 though the said sum could not physically be deposited in the ring fenced account. The requisite formality of depositing the said sum first in the ring fenced account and thereafter withdraw the same and utilize the prior deposited sum could not be strictly followed for operational reasons and the constraints imposed by the sanctioning authority with respect to the financial procedure. Nevertheless expenditure has been incurred for the sum of Rs 71.16 crores as stated above post 22nd Dec 2022 till date. However, despite the constraints, a sum of Rs 48.53 Crores has actually been deposited in the Ring fenced Account operated by the Chief Secretary, Govt of Meghalaya. Out of the sum of Rs 48.53 Crores physically deposited in the ring fenced account a sum of Rs 5.27 Crores has been withdrawn and utilized for solid and liquid waste management in the State to meet the gap as pointed out by the Hon'ble NGT. Thus a total sum of Rs 119.69 Crores have been actually deposited in the account of the State Government solely for the purpose of undertaking solid and liquid waste management in the State of Meghalaya post 22nd Dec 2022 pursuant to the direction of the Hon'ble NGT dated 22.12.2022. The latter is exclusive of the sum of Rs16 crores ring fenced for the purpose of liquid and solid waste management in the State in rural areas under Swacch Bharat Mission pursuant to the judgment of the Hon'ble NGT on 22.12.2022. A detailed report on progress in solid and liquid waste management in Rural areas of Meghalaya in 2022-23 has been enclosed at Annexure VI of this report. Insofar as liquid waste management in the municipal areas of the State substantial progress has been achieved within this intervening period of six months evident from the fact that STP and FSTP construction in various municipal bodies

are likely to be commissioned by August 2023 awaiting electrical supply and the civil work has been completed in most of the cases. Insitu nullah remediation too has reached completion for most of the drains in Shillong town and would be fully activated after the test results pursuant to trial runs are received, which is expected to be soon. There has been strident progress in legacy waste remediation too as depicted in Table 12 at Annexure IV of the report.

In conclusion it is stated that the State Government is committed to bridge the entire gap in solid and liquid waste management determined by the Hon'ble NGT in their judgment dated 22.12.2022 at the earliest and no stone has been left unturned in this regard and substantial progress in this direction has already been achieved in these six months.

DETAILS OF SUMS DEPOSITED IN THE ACCOUNT OF THE STATE GOVERNMENT INCLUDING THE “RING-FENCED ACCOUNT” FOR UNDERTAKING SOLID AND LIQUID WASTE MANAGEMENT (in Crores of Rupees)					
	A	B	C	D	E
I	Funds Committed for Solid Waste Management in Urban Area	Expenditure incurred after 22.12.2022 (without being deposited in Ring Fenced Account) for Solid and Liquid Waste Management	Amount deposited in Ring Fenced Account for Solid and Liquid Waste Management	Amount utilized from Ring Fenced Account for Solid and Liquid Waste	Funds expected to be transferred
1	15 th Finance Commission	12.83	8.13		
2	Grant in Aid		16.50		
3	Swachh Bharat Mission (Urban)				7.47
4	Smart City	16.00	0.01		
5	Environmental Compensation for Solid and Liquid Waste Compensation for Jowai		10.00		
	Subtotal 1	28.83	34.64		7.47
II	Funds Committed for Liquid Waste Management in Urban Area				
1	15 th Finance Commission	0.69	13.87	5.27	
2	Grant-in-Aid	0.18			
3	Swachh Bharat Mission (Urban)		0.02		18.12
4	Smart City	19.31			
5	AMRUT	22.41			
	Subtotal 2	42.60	13.89	5.27	18.12
	TOTAL (1+2)	71.43	48.53	5.27	25.59
	GRAND TOTAL (column B+C))	119.96			
	Rupees One Hundred and Nineteen Crores Sixty Nine Lakhs				
	GRAND TOTAL (column B+C+ E))	145.55			
	One Hundred Forty Five Crore Fifty Five Lakhs Rupees				

ANNEXURE -II**Current Status of Liquid Waste Management in the State of Meghalaya****Table - 1**

Particulars	Quantity of sewage (MLD)
Current Sewage Generation	51
Existing Treatment Facilities capable of treating the sewage presently	0.115 MLD being treated
Sewage treatment plants whose construction has been completed but are awaiting power connection and are likely to be operational very soon	13.915 MLD would be treated when these treatment plants are commissioned
Timeline	August 2023

PS : The remaining gap in liquid waste management(36.97 MLD) is being addressed through projects proposed under Swachh Bharat Mission 2.0 (U), XV Finance Commission Funds, State Catalytic Funding for SDG, North East Special Infrastructure Development Scheme (NESIDS) and AMRUT 2.0 and the STP construction etc would commence soon.

Details of existing liquid waste treatment facilities in Shillong

Table No. 2

	Details of Existing Treatment facilities	
i	Number of existing FSTPs	1
ii	Existing Treatment Capacity	0.115 MLD
iii	Location of FSTP	Marten
iv	Project cost	Rs 2 Crores

**Liquid Waste Management (LWM) facilities already constructed and
LWM facilities under construction in Shillong and Jowai Towns**

Table 3

Nullah In-situ Remediation in areas under Shillong Municipal Board			
Location	No of in-situ nullah Treatment Plants	Present Status	
		% of construction	Remarks
i. Pomdngiem Drain (also referred as Wah Thangsniang Drain)	1	100% completed	Trial run has been completed and water quality lab test report is awaited from MSPCB
ii. Oakland Drain	1	100% completed	Trial run completed
iii. Lawmali Drain	1	Civil works 100% completed. Water treatment infra ready for installation and will be installed soon after monsoon.	
iv. Wahingdoh – Raimohan Drain	1	Civil works 99% completed. Water treatment infra is ready for installation and will be installed soon after monsoon.	
v. Polo Drain	1	Civil work 100% completed. Water treatment infra ready for installation, will be installed soon after monsoon.	
Nullah In-situ Remediation in areas under Jowai Municipal Board (
Location	No of Treatment Plants	Present Status(all facilities are likely to be completed and commissioned by July-August 2023)	
		Status of construction at the time of hearing before NGT in Dec-2022	
i. Syntu Ksiar (near Myntwa Stream)	1	50%	80%
ii. Panaliar	1	50%	75%
iii. Caroline Colony	1	50%	70%
iv. Ladthadlaboh west	1	50%	75%
v. Khimusniang	1	50%	80%
vi. Umshangiar	1	50%	80%
vii. Iawmusniang	1	50%	65%
viii. Mynthong1	1	50%	75%
ix. Mynthong2	1	50%	70%
x. Panaliar Mutong	1	50%	80%
xi. Liar Kdongtreriat Panaliar	1	50%	80%

STPs under construction in Shillong (nearing completion)**Table – 4**

STP: Shillong Municipal Board				
Location	No of Treatment Plants	Capacity	Status	
			Dec-22	Present Status
i. Municipal filling point, Kenches Trace	1	3.17 MLD	80%	80%
ii. Junction of Wahthangsniang and Umkhras	1	0.28 MLD	Yet to start because of land ownership issues	
iii. Junction of Wahingdoh and Umkhras	1	7.12 MLD	90%	90%
iv. Junction of Wahdasoi and Umkhras	1	0.85 MLD	90%	90%
v. By the site of Wahpomdngiem behind SMB Complex at Bishop Cotton Road	1	2.00 MLD	80%	80%

FSTPs under construction in various ULBs**TABLE 5**

FSTP					
Name of ULBs	No of Treatment Plants	Capacity	Status		Remarks
			Dec-22	Present Status	
Shillong Municipal Board	1	0.35 MLD	70%	90%	Civil Works completed and awaiting power connection
Tura Municipal Board	1	50KLD	85%	95%	Civil Works completed and awaiting power connection and consent to operate to MSPCB
Jowai Municipal Board	1	50KLD	70%	85%	Expected to complete the Civil work and become operational by October 2023
Resubelpara Municipal Board	1	30 KLD	80%	90%	Civil Works completed and awaiting power connection and consent to operate from MSPCB
Baghmara Municipal Board	1	15 KLD	50%	95%	Civil Works completed and awaiting power connection
Williamnagar Municipal Board	1	30 KLD	-	-	Work Order to contractor has been issued and primary equipment has been purchased. Construction work is expected to start soon.

**Liquid Waste Management Projects approved
Under SBM (U) 2.0 for which funds are likely to be released soon**

Table 6

SN	Name of ULBs	Procurement of Cesspool		I & D Infrastructure		Treatment System STPs (70% population, 1 no of STPs)		Total Proposed Budget
		Quantity	Estimated cost (In Cr)	Length (in KM)	Estimated cost (In Cr)	Quantity (In MLD)	Estimated cost (In Cr)	
1	Shillong Municipal Board	0	0	0	0	0	0	0
2	Tura Municipal Board	1	0.25	6	3	7.5	11.25	14.5
3	Nongstoin Town Committee	1	0.25	3	1.5	3	4.5	6.25
4	Jowai Municipal Board	1	0.25	3	1.5	2.5	3.75	5.5
5	Williamnagar Municipal Board	1	0.25	3	1.5	2.5	3.75	5.5
6	Resubelpara Municipal Board	1	0.25	2	1	2	3	4.25
7	Mairang Town Committee	1	0.15	2	1	1.5	2.25	3.4
8	Nongpoh Town Committee	1	0.15	2	1	1.5	2.25	3.4
9	Baghmara Municipal Board	1	0.15	2	1	1	1.5	2.65
10	Shillong Cantonment board	0	0	0	0	0	0	0
	TOTAL	8	1.7	23	11.5		32.25	45.45

In crores of rupees

SBM Budget	Proposed Budget	Central Share	State Share	Gap which will be met by the State
45.3	45.45	40.8	4.65	0.15

Annexure - III

**DETAILS OF PROJECTS AND FUNDS UTILIZED AND DEPOSITED IN THE ACCOUNT OF THE STATE GOVERNMENT INCLUDING THE “RING-FENCED ACCOUNT” FOR LIQUID WASTE MANAGEMENT
(in Rupees)**

TABLE 7

Name of Scheme	Name of ULB	Particulars	Name of project/activities undertaken	Expenditure incurred after 22.12.2022 (without being deposited in Ring Fenced Account) for Solid and Liquid Waste Management	Amount deposited in Ring Fenced Account for Solid and Liquid Waste Management	Amount utilized from Ring Fenced Account for Solid and Liquid Waste	Funds expected to be transferred
15 th Finance Commission	Shillong Municipal Board	Tied Grant (1st instalment)	Cleaning of Wahumkhrab river, Polo Shillong Phase II	-	6,32,69,978.00	5,27,27,689.00	-
		Tied Grant (2 nd Instalment)	Provision of Conduit for Domestic Waste Water from Household Draining into Wahumkhrabupto the ETP at Wahingdoh.	-	5,30,82,650.00	-	-
		Untied Grant (2 nd Instalment)	Provision of of Conduit for Domestic Waste Water from Household Draining into Wahumkhrabupto the ETP at Wahingdoh	-	1,06,63,256.00	-	-
	Williamnagar Municipal	Tied Grant (2nd	Supply, Installation, Testing & Commissioning for Septage	44,29,600.00	18,98,400.00	-	-

Name of Scheme	Name of ULB	Particulars	Name of project/activities undertaken	Expenditure incurred after 22.12.2022 (without being deposited in Ring Fenced Account) for Solid and Liquid Waste Management	Amount deposited in Ring Fenced Account for Solid and Liquid Waste Management	Amount utilized from Ring Fenced Account for Solid and Liquid Waste	Funds expected to be transferred
	Board	instalment)	Treatment Plant at Willamnagar				
	Tura Municipal Board	Tied Grant (2nd instalment)	Procurement of 1 (one) no of 4x4 Cesspool Tanker 1000 litre.	-	19,85,000.00	-	-
	Jowai Municipal Board	Tied Grant (2 nd Installment	Payment of Tata LPT III 2 6000 leters water tanker	25,00,000.00	-	-	-
		Tied Grant (2 nd Installment	(i)Drilling of 4 nos. of 6 inch bore well (ii)Installation of 2 nos of submersible pumo sets (iii)Drawal of power line at Sabah Muswang FSSTP Plant Jowai	-	4937160.00	-	-
		Tied Grant (2 nd Installment	Construction of overhead reserves at Sabah Muswang FSSTP Plant, Jowai	-	1237972.00	-	-
		Tied Grant (2 nd Installment	Construction of Quarters for pump operator & ch0wkidar at Sabah Muswang FSSTP Plant, Jowai	-	1579603.00	-	-
			Sub-Total(i)	69,29,600.00	13,86,54,019.00	5,27,27,689.00	-

Name of Scheme	Name of ULB	Particulars	Name of project/activities undertaken	Expenditure incurred after 22.12.2022 (without being deposited in Ring Fenced Account) for Solid and Liquid Waste Management	Amount deposited in Ring Fenced Account for Solid and Liquid Waste Management	Amount utilized from Ring Fenced Account for Solid and Liquid Waste	Funds expected to be transferred
Shillong Smart City Limited			Waste Water Treatment through in-situ Nallah Treatment /technology at various Location in Shillong	19,31,00,000	-	-	-
			Sub-Total (ii)	19,31,00,000	-	-	
SBM	Williamnagar Municipal Board		Liquid Waste Management	-	2,22,222.00	-	18,12,00,000.00
			Sub-Total (iii)	-	2,22,222.00	-	18,12,00,000.00
AMRUT			Design, construction, erection, installation and successful commissioning of faecal sludge &septage treatment plant (FSSTP) of capacity 350m3/day, nallah waste water treatment of 2000m3/day, sewage pumping station and all appurtenant structures and allied works complete including onsite treatment of nallahwaste water at 4 locations	22,41,04,164.00	-	-	-
			Sub-Total (iv)	22,41,04,164.00	-	-	-
Grant-in-Aid	Tura Municipal Board		Construction of soak pit at Dumping site RongkhonSongital	6,24,252	-	-	-

Name of Scheme	Name of ULB	Particulars	Name of project/activities undertaken	Expenditure incurred after 22.12.2022 (without being deposited in Ring Fenced Account) for Solid and Liquid Waste Management	Amount deposited in Ring Fenced Account for Solid and Liquid Waste Management	Amount utilized from Ring Fenced Account for Solid and Liquid Waste	Funds expected to be transferred
							-
			Supply installation, Testing and Commissioning of Septage Treatment Plant (STP) at RongkhonSonggital Tura	12.00.000	-	-	
			Sub-Total (v)	18,24,252.00	-	-	-
			Total (i)+(ii)+(iii)+(iv)+(v)	42,59,58,016.00	13,88,76,241.00	5,27,27,689.00	18,12,00,000.00

Annexure -IV**Current status of Legacy Waste Management in Meghalaya****TABLE 8**

Particulars	Quantity (Tons)	No. of ULBs	1. DPR on Legacy Waste Treatment is under preparation by Shillong Municipal Board after NEISICS has given approval for DPR preparation.
Legacy Waste to be cleared	2,88,037.50	7	
Cleared	0	7	2. Under the Swachh Bharat Mission (U) 2.0, NARC has approved the Legacy Waste Treatment and allocated funds for the same which are likely to be released soon.
Timeline	2024		

Summary of current status of Solid Waste Management in Meghalaya (ward wise details)

Table 09

Collection: Door - Door					
Dec 2022 (Last Hearing)		Present Status		Dec 2024 (Target)	
Wards	Percentage	Wards	Percentage	Wards	Percentage
78	81%	84	88%	96	100%
Solid Waste: Segregated					
Dec 2022 (Last Hearing)		Present Status		Dec 2024 (Target)	
Wards	Percentage	Wards	Percentage	Wards	Percentage
38	40%	64	67%	96	100%
Transported: Segregated Waste					
Dec 2022 (Last Hearing)		Present Status		Dec 2024 (Target)	
Wards	Percentage	Wards	Percentage	Wards	Percentage
38	40%	46	48%	96	100%
Decentralized Processing					
Dec 2022 (Last Hearing)		Present Status		Dec 2024 (Target)	
N0 (Units)	Quantity (TPD)	N0 (Units)	Quantity (TPD)	N0 (Units)	Quantity (TPD)
9	11.83	9	12	34	47.9
Processing Plants					
Dec 2022 (Last Hearing)		Present Status		Dec 2024 (Target)	
N0 (Units)	Quantity (TPD)	N0 (Units)	Quantity (TPD)	N0 (Units)	Quantity (TPD)
2	63.5	3	73.5	6	245
Sanitary Landfill Site					
Present Status			Dec 2024 (Target)		
N0 (Units)	Quantity (Ton)	ULBs Covered	N0 (Units)	Quantity (Tons)	No of ULBs
1	134129	2	6	1161472	7

**Summary of current status of Solid Waste Management in Meghalaya
with reference to the status at the time of last hearing (Dec 2022)**

Table - 10

Particulars	Dec-22		Present Status	
	Quantity	Percentage	Quantity	Percentage
Quantity of MSW generated (TPD)	182.5	100%	182.5	100%
Quantity of MSW collected (TPD)	143 *	78%	147	81%
Gap in MSW Collection (TPD)	39.5	22%	35.5	19%
Quantity of segregated & transported (TPD)	82.25	45%	82.25	45%
Gap in segregated & transported Waste (TPD)	100.25	55%	100.25	55%
Quantity of MSW processed (TPD)	45.3	25%	78.6	43%
Quantity of MSW disposed in secured landfill site (TPD)	59.1	32%	30.1 *	16%
Gap in Solid waste Management UTs (TPD) [1(a)-I(d)-1(e)]	78.1	43%	73.8	40%

*The figure stated pertains only to solid waste disposed in sanitary land fill site in Marten pertaining to Shillong.

Current status of setting up Sanitary Land fill sites in various ULBs in Meghalaya

Table 11

Towns	District	Location	Area	Progress	Remarks
Shillong	East Khasi Hills	Nonghali	200 Acre	Land Survey is under progress after which the Environment Clearance will be obtained.	Nonghali site will cater to Shillong Agglomeration and its peripheral places, Jowai, Ribhoi district and other towns till a proper Sanitary Landfill Site is in place in other towns of Khasi Jaintia Hills districts.
Jowai	West Jaintia Hills	-	-	New Expression of Interest was floated on 8th June 2023	
Tura	West Garo Hills	Wakkagre	9 Acre	Direct purchase of the land fill site is being done for which Rs 1.5 Crore has already been paid	
Williamnagar	East Garo Hills	Rongakgre	37 Acre	Proposal has been moved to State Government by the Director, Urban Affairs opt for Direct Purchase	
Resubelpara	North Garo Hills		14 Acre	Awaiting approval from the Directorate on the Site finalization	
Baghmara	South Garo Hills	Arapara	15 Acre	Awaiting for approval from the Directorate on the Site finalization	

PROJECTS APPROVED

UNDER SBM (U) 2.0 FOR SOLID WASTE MANAGEMENT

Table 12

SN	Name of ULBs	Wet Waste Processing (Compost Plant)		Dry Waste Processing (MRF)		Sanitary Landfill Site		Dumpsite Remediation		Total Proposed Budget
		Quantity (in TPD)	Estimated Cost (Cr)	Quantity (in TPD)	Estimated Cost (Cr)	Quantity (in TPD)	Estimated Cost (Cr)	Quantity (in TPD)	Estimated Cost (Cr)	
1	Shillong Municipal Board	0	0	25.00	2.1250	15.00	0.9750	0	0	3.1000
2	Tura Municipal Board	0	0	10.50	0.8925	6.00	0.3900	10000	0.55	1.2825
3	Nongstoin Town Committee	7.00	0.8050	4.50	0.3825	2.50	0.1625	0	0	1.3500
4	Jowai Municipal Board	6.00	0.6900	4.00	0.3400	2.00	0.1300	54000	2.97	1.1600
5	Williamnagar Municipal Board	5.50	0.6325	3.50	0.2975	2.00	0.1300	30000	1.65	1.0600
6	Resubelpara Municipal Board	4.50	0.5175	3.00	0.2550	1.50	0.0975	29000	1.60	0.8700
7	Mairang Town Committee	3.50	0.4000	2.00	0.1700	1.50	0.0975	0	0	0.6700
8	Nongpoh Town Committee	3.00	0.3450	2.00	0.1700	1.00	0.0650	10000	0.55	0.5800
9	Baghmara Municipal Board	3.00	0.3450	2.00	0.1700	1.00	0.0650	10000	0.55	0.5800
10	Shillong Cantonment board	0	0	2.00	0.1700	0.00	0.00	0	0	0.1700
TOTAL		32.5	3.7375	58.5	4.9725	32.50	2.1125	143000	7.87	18.6875
SBM Budget		Proposed Budget		Central Share		State Share		Gap		
18.67		18.69		16.821		1.869		0.02		

ANNEXURE - V

Submission of Quarterly Progress Report for Solid Waste Management for the quarter Jan -March, 2023					
Questions		Remarks			
Number of ULBs		7			
Overall waste management status on States/UT		Meghalaya			
a	Quantity of MSW generated (TPD)	182.5			
b	Quantity of MSW collected (TPD)	147			
c	Quantity of segregated & transported (TPPD)	76.75			
d	Quantity of MSW processed (TPD)	78.6			
e	Quantity of MSW disposed in secured landfill site (TPD)	30.1			
f	Gap in Solid waste Management UTs (TPD) [1(a)-1(d)-1(e)]	73.8			
g	Solid waste Management Plan				
Waste Collection		Existing	Target	Gap	Timeframe
a	ULBs in which waste door-to-door collection is implemented (No)	84 wards in 7 ULBs	96 wards in 7 ULBs	12 wards in 7 ULBs	2024
b	ULBs in which segregation of waste is implemented (No)	64 wards in 7 ULBs	96 wards in 7 ULBs	32 wards in 7 ULBs	2024
c	ULBs in which transportation of segregated waste is implemented (No)	46 wards in 7 ULBs	96 wards in 7 ULBs	50 wards in 7 ULBs	2024
Waste Processing					
Material Recovery facilities					
(i)	Total Capacity (TPD)		47.93		2024
(ii)	Number	9	34		2024
(iii)	Number of ULBs covered	3	7		2026
Recycling		(Not yet started)			

(i)	Total Capacity (TPD)	0	0	0	0
(ii)	Number	0	0	0	0
(iii)	Number of ULBs covered	0	0	0	0
	Composting				
(i)	Total Capacity (TPD)	63.5	245	181.5	2024
(ii)	Number	2	7	5	2024
(iii)	Number of ULBs covered	2	7	5	2024
	Biomethanation				
(i)	Total Capacity (TPD)	0	0	0	0
(ii)	Number	0	0	0	0
(iii)	Number of ULBs covered	0	0	0	0
	RDF				
(i)	Total Capacity (TPD)	10	20	10	2024
(ii)	Number	1	6	6	2024
(iii)	Number of ULBs covered	1	7	6	NA
	Waste to Energy Plants				
(i)	Total Capacity (TPD)	10	20	10	2025
(ii)	Number	1	2	1	2025
(iii)	Number of ULBs covered	0	0	0	0
	Waste Disposal				
	Landfill				
(i)	Total Capacity (Tons)	134129	1161472	1027343	2026
(ii)	Number	1	7	6	2026
(iii)	Number of ULBs covered	1	7	6	2026
	Legacy Waste Management				
a	Number of Dumpsites (No)	6	7	1	2024
b	Quantity of waste dumped at dumpsites (Tons)	288037.5	288037.5	0	2026

c	Number of Dumpsites Cleared (No)	0	7	7	2025	
d	No of dumpsites in which bio mining has commenced	0	7	7	2025	
e	Time frame for clearing all dumpsites	0	7	7	2025	
	Other Information					
a	Information regarding development of model towns/cities/villages	68 no. of model villages have been created in the state.				
b	Creation of Environmental cell	yes				
c	Standardization of rates for procurement of services/equipment (to do away with the tendering process) required for solid waste management	Yes (as per Meghalaya Solid Waste Management and Bye Law 2020)				
Improvements Since Last Hearing						
Item	Present Status	Status at the time of last hearing	Whether directed timelines have been adhered or not?			
Door to door collection (%)	87%	77.28%	yes			
Source segregation of waste (%)	67%	28.57%	yes			
Waste Processing (TPD)	78.6	6.14	yes			
Dumpsites capped (No.)	0	0				
Dumpsites Bio-remediated (No.)	0	0				

Annexure -VI**Progress of Work under Swachh Bharat Mission, Meghalaya for the year 2022 - 2023.**

PHE Department as part of its ongoing programme on rural sanitation under Swachh Bharat Mission Gramin has reported the required progress through field completion of worksnamely, construction of Individual Household Latrines (IHHL), Community Sanitary Complexes (CSC), Plastic Waste Management (PWM) Units, household level and community level wastewater soakpits, composting units as well as construction of community storage shed under its solid and liquid waste management (SLWM) component.

During the year, 19,855 units of Individual Household Latrines were constructed and 119 nos. of Community Sanitary Complex across the State. A total of Rs 27.49 Crores and Rs 3.47 Crores has been utilised against IHHL and CSC respectively out of which Rs.2.43 crores under IHHL and Rs.2.63 crore under CSC were spent during the period from January 2023 to May 2023

Under Plastic Waste Management (PMU), a block- level implementation model has been developed that includes vertical, namely, construction of working-cum-segregation shed, installation of bailing machine, shredder and dust remover, institutionalising backward linkage with villages for collection and transportation of plastic waste to the PWM Unit as well as forward linkages for resale of plastic waste to recyclers, use in road construction and as RDF in cement factories. Operation and maintenance has been handed over to the Plastic Waste Management Committee headed by the B.D.O as the Chairman, for which a business model is being worked out.

Name of Districts	Name of Blocks	SI No	Name of villages	Status	
				Construction	Operation
East Khasi Hills	Mawryngkneng	1	Pomlahier, Mawryngkneng	completed	operational
	Mawkynrew	2	Jongksha	completed	operational
	Pynursla	3	UrksewWahpathaw	completed	operational
	KhatarShnong	4	Kyrdemkhla	completed	By July 2023
	Shella	5	Laitryngew	completed	By July 2023
	Sohiong	6	Marpna	completed	By July 2023
	Mawphlang	7	Wahlyngkien	near completion	By Aug. 2023
East Garo Hills	Samanda	8	Chiminmingre	completed	By July 2023
West Garo Hills	Selsella	9	Baklagre	completed	By July 2023
West Khasi Hills	Nongstoin	10	Mawthawniaw	near completion	By Aug. 2023
South West Khasi Hills	Mawkyrwat	11	Nonglang	completed	By July 2023

A total of Rs 0.57 crores was utilised for above PWM works out of which Rs.0.28 crores was spent during the year 2022-23 and Rs.0.09 crores was during the period from January 2023 to May 2023.

On solid and liquid waste management, the State has reported completion of multiple works, namely, construction of soak pits, compost pits, storage shed and procurement of garbage bins and handcrafts, as per details below.

Sl. Nos.	Name of the Districts	Nos. of Villages	Nos. of Units constructed/procured							Total Fund Utilised in Lakhs Rupees
			Individual Soakpits	Individual Compost Pits	Community Compost Pits	Community Storage Shed	Soakpit for institutions	Garbage bins	Handcrafts	
1	East Jaintia Hills	1	-	-	-	-	2	-	-	0.51
2	North Garo Hills	1	-	-	2	1	-	-	-	0.30
3	Ri Bhoi	55	1178	397	36	24	37	287	41	147.75
4	South Garo Hills	7	183	183	-	7	-	366	-	20.4
5	West Khasi Hills	1	70	-	1	1	-	140	1	3.50
Total		65	1431	580	39	33	39	793	42	172.46

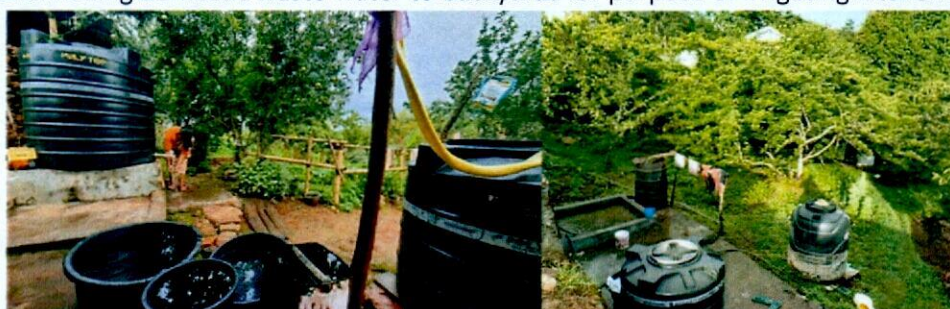
A total amount of Rs 1.72 Crores was utilised for the above works, out of which, Rs.0.53crore was spent during the period from January 2023 to May 2023.





For enhancing the efforts of the State against the mandate of achieving optimum management of waste in rural areas, the Department is promoting the local indigenous methods which are user friendly and eco-friendly and widely practiced by the rural household, namely:

- a) Channelling domestic waste water to backyards for purpose of irrigating kitchen garden



- b) Utilisation of household biodegradable waste:

- as feeds for homestead/backyard livestock, namely, piggery and poultry

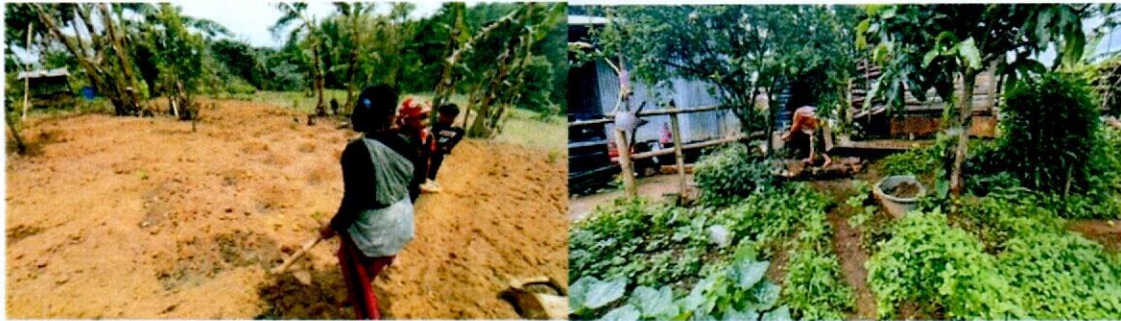


- as compost materials usually placed at the roots of the vegetables, flowers or fruit trees.



- as ingredients for composting by topping them up in a container or a pit dug in the soil

A case study of using greywater for irrigating kitchen garden has been conducted in Umroh Village, Mawpat Block, East Khasi Hills District, wherein, the effect of this practice is clearly visible when there has been noticeable enhanced growth of garden vegetables and fruit trees.



Before

After

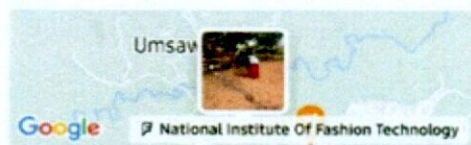


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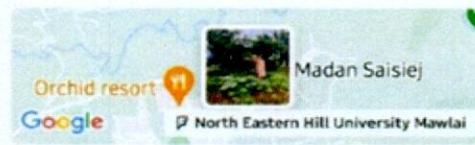


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JX4F+PVM, Umroh Road, Umroh, Meghalaya 793012, India

Before

After

In consultation with Department of Drinking Water and Sanitation, Ministry of Jal Shakti, Swachh Bharat Mission Gramin Meghalaya is advocating the massive adoption of these indigenous method as the most applicable and reliable option for not only safe disposal of household wastewater and biodegradable waste but also in their effective and meaningful utilisation for other resourceful proposes thereby ensuring waste management at source and promoting no waste strategies.

The works done by the State on rural sanitation have been shared in various national platforms promoted by Department of Drinking Water and Sanitation, Ministry of Jal Shakti, in the course of

which, many learning and sharing visit were made to the state by various agencies and Officials, namely:

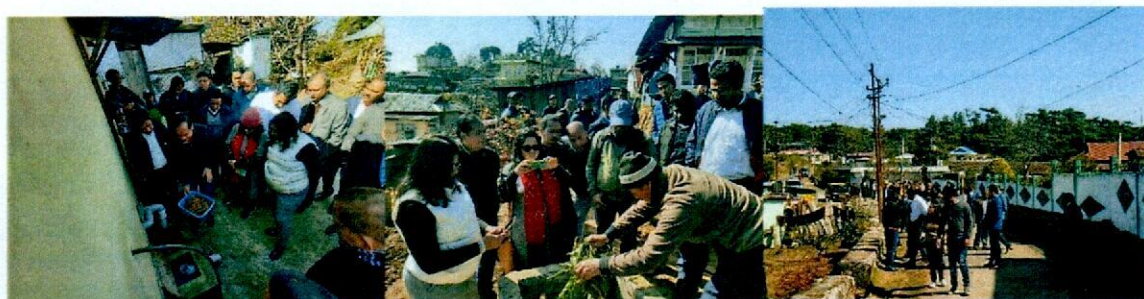
1. 16th November 2022:

Learning Visit of Shri. Shrikant Navrekar, Water Aid India & Member, Technical Expert Committee, Ministry of Jal Shakti. 16th November 2022, Mawdun Village, Sohiong Block, East Khasi Hills District.



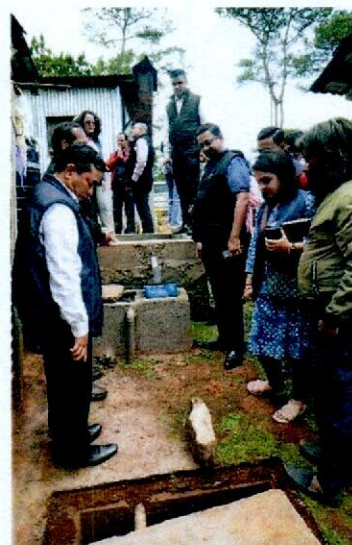
2. 13th January 2023

Learning Visit of National Audit team led by the Director General and the Principal Accountant General, Meghalaya and NIUA Delhi at Laitmynsaw Village, Myliem Block, East Khasi Hills District



3. 2nd May 2023 :

Inspection Visit of Joint Secretary to Govt. of India, Ministry of Jal Shakti,



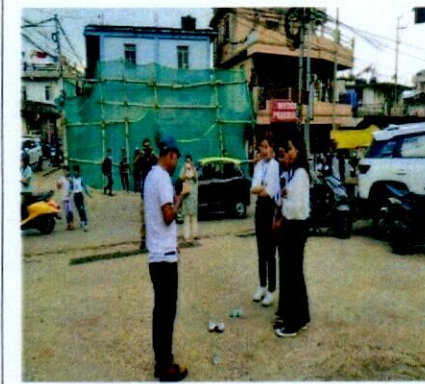
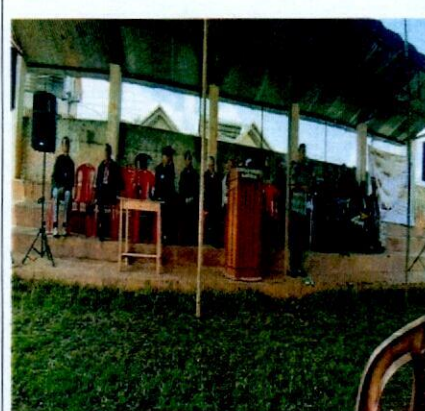
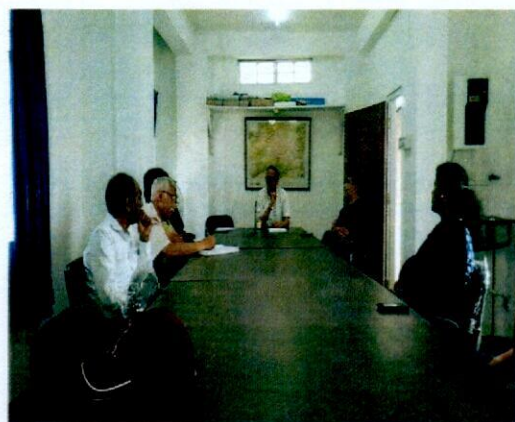
5th June 2023 to 10th June 2023


Conduct of Risk Based Audit in East Khasi Hills District by Ministry Audit Team, Ministry of Jal Shakti :



**Awareness Programme on Liquid Waste Management
(April to June 2023)**

SN	Name of the Programme	Date conducted	Location
1	Locality Level Awareness Programme	1st April 2023	Cleve Colony
2	Planning Meeting	7th April 2023	Jailroad
2	Locality Level Awareness Programme	12th April 2023	Laban DorbarShnong
3	Locality Level Awareness Programme	22nd April 2023	LumkshaidDorbarShnong
4	Locality Level Awareness Programme	6th May 2023	MawpremDorbarShnong
5	Street Play on Stakeholders Participation	19th May 2023	Dhankheti, Malki, Barik
6	Awareness Programme for Officers of Power Grid on SWM Rules 2016	25th May 2023	Power Grid
7	Refresher Course on SWM Rules: SWM Officers SMB	26th May 2023	Raitong Building
8	Refresher Course on SWM Rules: Processing and Treatment Operators	27th May 2023	Marten
9	Street Play on Stakeholders Participation	30th May 2023	LapalangRynjah
10	Refresher Course on SWM Rules: Solid Waste Collection and Transportation Cell SMB	30th May 2023	Raitong Building
11	Street Play on Your Waste is your Responsibility	5th June 2023	Dhankheti, Malki, Police Bazaar



JOWAI: SABAH MUSWANG	
DEC 2022	Present
	
RESULBELPARA: JONGLAPARA	
	
TURA: DOLDEGRE	
	
BAGMARA: DOLDEGRE	
	