

**GOVERNMENT OF MIZORAM
OFFICE OF THE CHIEF ENGINEER
IRRIGATION & WATER RESOURCES DEPARTMENT
AIZAWL : MIZORAM**

No. W.13055/1/2024-I&WR(CE)/104

:

Dated Aizawl, the 26th March, 2025

To,

The Secretary,
Ministry of Jal Shakti
2nd Floor, Block-III, CGO Complex,
Lodhi Road, New Delhi - 110003.

Subj.: Submission of Monthly progress report of Mizoram upto March, 2025 as per the revised format in compliance to Hon'ble NGT order dated 24.09.2020 in the matter of OA No. 673/2018

Sir,

With reference to the above cited subject, I submit herewith monthly progress report of Mizoram upto **March, 2025** on OA. 673/2018 as per the prescribed format for favour of your kind information and further necessary action.

Enclosed: As above

Yours faithfully,



(LALROTLUANGA)

Member Secretary, RRC

& Chief Engineer,

Irrigation & Water Resources Department

Government of Mizoram

Memo No. W.13055/1/2024-I&WR(CE)/104

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Dated Aizawl, the 26th March, 2025

Copy to:

1. Member Secretary, Central Pollution Control Board for kind information.
2. Sr. PPS to Chief Secretary, Government of Mizoram for kind information.
3. Chairman, RRC & Principal Secretary, EF&CC Dept., Government of Mizoram for kind information.
4. Secretary, Irrigation & Water Resources Department for kind information.
5. Member Secretary, Mizoram Pollution Control Board for information.
6. Members, RRC, Mizoram for information.



Member Secretary, RRC

& Chief Engineer,

Irrigation & Water Resources Department

Government of Mizoram

Monthly Progress Report for the State of Mizoram for the month up to March 2025

(As per revised format)

(in compliance to NGT order dated 24.09.2020 in the matter of OA No.673 of 2018)

Overall status of the State:

I. Total Population: Urban Population & Rural Population (as per 2011 census).

<i>Urban & Rural Population</i>	<i>2011</i>	<i>Projected population in 2024</i>
Urban Population	525435	781561
Rural Population	571771	687873
Total	1097206	1469434

II. Estimated Sewage Generation (MLD) as per projected population for 2021:

Urban	31.37 MLD
Rural (692 villages)	20.44 MLD
Total	51.81 MLD

***Note:** The Sewage Generations have arrived taking into consideration the water supply at 55 lpcd and 70 lpcd in rural and urban respectively.*

III. Details of Sewage Treatment Plant:

• MLD of sewage being treated through alternate technology by PHED:

0.578 MLD (Bio digester) by PHED funded under AMRUT.

- 1) Anaerobic Microbial Inoculum (AMI) manufacturing facility has been set up to culture the bacteria and reproduce them.
- 2) Production of 908 biodigester tanks and 1664 conversion of conventional septic tanks have already been completed.
- 3) Setting up of Septage Management Unit including Anaerobic Microbial Inoculum (AMI) & Bio Digester Manufacturing Facility at Aizawl amounting to Rs. 3.61 Cr has been completed.

• Details of under construction STPs in the State

Name of the Project: Small Bore Sewer System at Tuikual Lui under AMRUT 2

Name of the Implementing Department: PHED Gov't of Mizoram.

Sanction Amount: 39.22 Crores.

Name of Contractor: ACE Alliance Pvt. Ltd.

Capacity: 3.5 MLD

Sl. No.	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I&D or House Sewer Connections	Completion timeline
i	Tuikual stream at Aizawl	3.5 MLD	5%	NA	August 2026 (expected)

• **Present status under Swachh Bharat Mission-Gramin (SBM -G).**

Sl No.	Components	Assets Created
i	Liquid Waste Management (Community Soak Pit)	3840 nos
ii	Individual Household Latrine (IHHL)	56712 nos
iii	Community Sanitary Complex (CSC)	437 nos

Liquid Waste (Grey water) Management - As of today, 3840 numbers of Community Soak Pit has been created covering 623 out of 637 villages. It covers 96000 people which is approximately equal to **sewage treatment of 3.2 MLD** in rural areas.

• **Model Status of Open Defecation Free Plus (ODF-Plus) under Swachh Bharat-Grameen in a village that has: -**

- 1) All households in the village have access to functional toilet facilities.
- 2) All Schools/Anganwadi Centers/ Panchayat Ghar in the village have access to functional toilet for male and female.
- 3) All public places in the village are observed to have minimal litter, minimal stagnant wastewater and no plastic waste dump in public places.
- 4) Village has arrangements for solid waste management.
- 5) Village has arrangement for liquid waste management.
- 6) The village should prominently display ODF-Plus IEC messages through wall paintings/billboard etc.
- 7) Out of 637 villages, 617 has achieved ODF Plus model villages which is 96.86%.

IV. Details of Industrial Pollution:

- No. of industries in the State:
 - 967units
- No. of water polluting industries in the State
 - 106 units
- Quantity of effluent generated from the industries in MLD:
 - 0.08 MLD (Approx)
- Quantity of Hazardous Sludge generated from the Industries in TPD
 - Nil
- Number of industrial units having ETPs:
 - 80 units
- Number of industrial units connected to CETP:
 - Nil (No CETP exists)

- Number and total capacity of ETPs (details of existing/under construction/proposed)
 - 80 units with total capacity of 0.15 MLD (Approx.)
- Compliance status of the ETPs:
 - ETPs are functional and effluents are found to be complied with standards.
- Number and total capacity of CETPs (details of existing/ under construction/ proposed):
 - Nil (No CETP exists)
- Status of compliance and operation of the CETPs: No CETP exists

Town	No. of industries	Industrial discharge	Status of ETPs	Status of CETPs (existing, under construction & proposed)
N/A				

V. Solid Waste Management:

I. URBAN AREAS – PROJECTS UNDER SWACHH BHARAT MISSION (URBAN) 2.0

- 1) Solid Waste Management Centre (SWMC) to be constructed in all 28 urban towns of Mizoram out of 28 urban towns.
- 2) Two existing SWMCs are at Aizawl and Kolasib
- 3) Ongoing SWMCs under construction- Champhai (90%) and Lunglei-I (95%)
- 4) Land development for SWMC started for Lunglei-II, Lawngtlai, Siaha and Saitual. Physical progress for Lunglei-II, Lawngtlai, Siaha and Saitual towns are at 25%, 23%, 20% and 22% respectively.
- 5) Tender for construction of SWMC floated for district headquarters Mamit and Serchhip. Land acquisition under process for district headquarters Khawzawl and Hnahthial.
- 6) Tender for construction of SWMC floated for 14 notified towns.
- 7) Tender for construction of SWMC to be floated for 3 notified towns after completion of land acquisition.

II. RURAL AREAS – PROJECTS UNDER SWACHH BHARAT MISSION (GRAMEEN)

- 1) Solid Waste Management (community compost pit) - 3350 nos (624/637 villages)
- 2) Liquid Waste Management (community soak pit) - 3840 nos (623/637 villages)
- 3) Plastic Waste Management (block level) - 8 units (2 unit ongoing)

III. RURAL AREAS – PROJECTS UNDER PHE DEPARTMENT

1. STP under construction at Tuikual stream under Swachh Bharat Mission (Grameen)
 - a) Name of Project: Sewerage and Septage Treatment Plant at Tuikual Lui (Small Bore Sewer).
 - b) Sanction Amount: 39.22 Crore
 - c) Name of Contractor: Ace alliance private Ltd.
 - d) Physical progress: 5% (work under progress)
 - e) Capacity of the Plant: 3.5 MLD
2. Other steps taken on Septage and Sanitation under AMRUT
 - a) Anaerobic Microbial Inoculum (AMI) facility has been set up to culture the bacteria and reproduce them.
 - b) Bio Digester: 908 bio-digester installed and 1664 conversion of conventional septic tanks have been already installed.
 - c) Septage Management Unit including Anaerobic Microbial Inoculum (AMI) & Bio Digester Manufacturing Facility amount to 3.61 Cr has been completed.

VI. Bio-medical Waste Management:

- Total Bio-medical waste generation:
 - 620.42 Kg/day
- No. of Hospitals and Health Care Facilities: 393
 - 393 (Total)
 - (Bedded Hospitals & Nursing Home - 82, Clinics & Dispensaries- 281, Veterinary institution-18, Pathological laboratories- 8, Research Institution- 1, AYUSH- 3)
- Status of Treatment Facility/CBMWTF
 - Treatment Facility – 3 Nos. of incinerator
 - Captive Disposal – Deep burial pit/sharp pit
 - CBMWTF: Construction of CBMWTF catering five districts namely, Aizawl, Kolasib, Serchhip, Saitual, Mamit districts completed and the state Govt. floated tender for operation of the facility and the bid result is being awaited.

VII. Hazardous Waste Management:

- Total Hazardous Waste generation
 - 18.455 MTA (As per Annual Inventory report 2023-2024)
- No. of Industries generating Hazardous waste
 - 21
- Treatment Capacity of all TSDFs:
 - No TSDF exists at present.
- Avg. Quantity of Hazardous waste reaching the TSDFs and Treated:
 - N/A
- Details of on-going or proposed TSDF:

- Suitable Site at Industrial Growth Centre, Luangmual, Aizawl has been identified by the State Govt. for setting up common TSDF. The Commerce and Industries department is in search of consultancy firm for setting up of the common TSDF but is held back due to non-availability of empanelled firm in the state. The problem has been conveyed to the higher authority

VIII. Plastic Waste Management:

- **9 Plastic Waste Management Unit (PWMUs)** have been proposed out of which 8 units have been set up.
- **1 PWMU** is under construction at Seling (for Darlawn and Thingsulthliah block) and proposed to be completed within 2024-25 FY.
- **1 PWMU** is under construction at Serchhip (for Serchhip and East Lungdar Block) in convergence with UD&PA and proposed to be completed within 2024-25 FY.
 - ***Total Plastic Waste Generation*** : 3049.90 TPA (in Aizawl Municipal Corporation area, as per their Annual Report 2023-2024) and 2418.617 TPA (in 13 Urban Towns under UD&PA Department as per their Annual report 2023-2024)
 - ***Treatment/Measures adopted for reduction or management of plastic waste*** :
 - ***Constitution of enforcement Squad*** :
Enforcement Squad constituted in every districts to actively monitor and to take action against the use of banned SUP items and ensure compliance with regulations.
 - In Aizawl District (AMC area) the 2nd Inspection Team was constituted vide UD&PA Notification No.B.13016/80/2022-UD&PA dated 20.04.2023 which supersedes EF&CC Notification No. B.11013/28/2022-FST dated 20.10.2022.
 - Inspection Team on Enforcement of ban of SUP in Lunglei Municipal Council's area and in Lunglei District other than LMC was notified vide UD&PA Notification No. B.13016/80/2022-UD&PA/PART dated 18.09.2023.
 - Enforcement drives on banned SUP items conducted every month in Aizawl Municipal Corporation Area and several districts of Mizoram.
 - 2129.169 kgs of banned SUP items were seized during January 2024 – December 2024 as per report received from AMC, outside AMC and other District Authorities. Shops and vendors selling such items were fined and warned.
 - Backtracking on manufacturer of SUP items conducted by Mizoram PCB twice. During this inspection, banned SUPs with no manufacturer details are found which was reported to be distributed by cargo trucks coming from other States, barring further tracking.
 - Nodal Officers for Enforcement Teams were appointed in every districts for monthly online report to CPCB Online Monitoring Module for Compliance of SUP Portal.
 - New Log-in IDs for field Inspection app are being requested from CPCB for each District.

- Monthly Enforcement Drive Reports are shared in the monthly review meeting under the Chairmanship of Chief Secretary to assess performance and ensuring better outcomes in the future. za
- Awareness campaigns are regularly conducted across all districts to discourage the use of Single Use Plastics items and promote the adoption of eco-friendly alternatives.
- Details of eco-alternative manufacturing industries are available on Mizoram PCB's website to ensure easy public access and encourage the adoption of eco-friendly alternatives.
- Exhibition of eco-alternatives conducted by Mizoram PCB on 02.12.2023 to promote sustainable practices and encourage their widespread adoption.
- Cleanliness Drives conducted by the State UD &PA Department and Mizoram PCB consistently in collaboration with NGOs & Educational Institutions to ensure stoppage of flow of littered plastic waste leaking into natural water bodies, streams and rivers.
- Extensive Awareness Campaigns were launched in beating plastic pollution to schools and colleges by Mizoram PCB.
- Assessment of Plastic Waste generation done by the Aizawl Municipal Corporation (AMC) for Aizawl, UD&PA Department in Urban Towns and the PHED in Rural areas under the supervision of Mizoram PCB.
- PWMU: 1 Unit function at Aizawl Village and 1 Unit under construction at Seling. Material Recovery Facility is expected to operate during 2025.

IX. Detail Status of IHHL, FSTP, STP, CT/PTs and Desludging in the State:

Total no of IHHL Constructed under SBMG by PHED- 56712 nos.

X. Details of Alternate Treatment Technology being adopted by the State/UT:

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XI. Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in situ treatment:

- Water quality of the polluted drains has been regularly monitored by Mizoram Pollution Control Board on quarterly basis and the data is accessible at <https://mpcb.mizoram.gov.in>

XII. Details of Nodal Officer appointed by Chief Secretary in the State/UT:

-Mr. Lalrotluanga, Chief Engineer, Irrigation & Water Resources Department, Govt. of Mizoram Vide Notification No.A.46012/1/2019-GAD Dt.27.02.2020

XIII. Details of meetings carried under the Chairmanship Chief of Secretary in the State/UT:

- State Level Monitoring Committee has been constituted under the Chairmanship of Chief Secretary, Govt. of Mizoram notified vide letter No.C.18013/2/2020-

I&WR/243dt.21.07.2020. The Committee comprises of the following members:

1. Chief Secretary	Chairman
2. Principal Secy. /Secy., EF&CC	Member
3. Secy., PHED	Member
4. Secy., LRS &WCD	Member
5. Secy., UD&PA	Member
6. Commissioner, AMC	Member
7. Chairman, MPCB	Member
8. Secy., IWRD	Member Secy.

- Review meeting under the Chairmanship of Chief Secretary, Govt. of Mizoram with Secretaries of the concerned departments to oversee implementation status of the Action Plan in the matter of the orders of the Hon'ble NGT in O.A No.673/2018 was held on 2nd February 2021.

XIV. Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river:

- Analysis of three (3) polluted river has been regularly undertaken by Mizoram Pollution Control Board and the water quality data of polluted stations is accessible at <https://mpcb.mizoram.gov.in/page/polluted-river-data>. Polluted river data for the month of January 2025 is enclosed at Annexure-I.

XV. Ground water regulation

- In Mizoram, surface water serves as the main sources of water for drinking, domestic and industrial purposes. Ground water extraction is insignificant in Mizoram and even though the State Govt. has 'The Mizoram Water Resources (Management & Regulation) Act 2024' and 'The Mizoram Ground Water (Control and Regulation) Ordinance, 2023', followed in the state.

XVI. Good irrigation practices being adopted by the State:

- Although e-flow is not yet assessed, discharge of streams/ rivers are never fully diverted for irrigation purposes.
- Guidelines for 'Environment Health & Social Safety' are incorporated in the Dept's Construction Manual which is expected to be approved soon.

XVII. Rainwater Harvesting:

- State Govt. has framed Rain Water Harvesting Policy for the state of Mizoram which is expected to be notified soon.
- Various stakeholder departments such as, PHE, Rural Development, PWD, AMC have taken up schemes for implementing construction of rainwater harvesting structures in the state.
- AMC has mandated provision of rainwater harvesting facility and discharge

of rainwater in AMC Building Regulation, 2012 No 5(6) and No.32.

- For rejuvenation of polluted rivers, construction of rainwater harvesting structures have been proposed to be constructed in the river catchment areas for which concerned department, PHED has initiated actions.

XVIII. Demarcation of Flood plain and removal of illegal encroachments:

- Not relevant for the state as Mizoram is a hilly region and has no floodplain zone.

XIX. Maintaining minimum e-flow of river:

For assessment of e-flow of the rivers, Gauge and Discharge (GD) station has been set up and data collection is underway along with analysis and generation of rating curves. Fixation of e-flows for the major river is expected soon with reliable data obtained from IWRD.

XX. Plantation activities along the rivers:

- Environment, Forests and Climate Change Department has been taking up plantation drives in the catchment areas of the polluted rivers with a targeted area of 595.5 ha out of which about 186.8 ha had been already covered.

Division	Month	River	Catchment area covered (in Ha)	Activity carried out	Expenditure incurred (Rs in lakh)	Name of Plan/Scheme	Remarks
Kolasib	April to November, 2024	Tlawng	1984.44	NIL	NIL	NIL	Fund is yet to be received
Aizawl	April to November, 2024	Tlawng	NIL	NIL	NIL	NIL	NIL
		Chite					
		Tuikual					
		Tuirial					
Lunglei	April, May, July, August, September, October, November, 2024	Tlawng	NIL	NIL	NIL	NIL	NIL
		Mat					
	June, 2024	Tlawng	30.98	Roadside Tree Plantation	1.5	Green Mizoram Day, World Environment Day	
		Mat	NIL	NIL	NIL	NIL	
LADC	April to November, 2024	Saikah River	NIL	NIL	NIL	NIL	No funds received during the reporting period
Champhai	April-November, 2024	Tiau	CAMP ANR	10	NIL	NIL	NIL
			MPCDA	200			
		Tuipui	NEC, Afforestation of Denuded Hills in Champhai District	369	NIL	NIL	No funds received during reporting period
			Nagar Van	100			

			CAMPA ANR	15			
			GIM	80			
			SPA CAMPA	19			
			RAMP	50			
		Tuivawl	GIM	1200	NIL	NIL	
			CAMPA ANR	10			

XXI. Development of biodiversity park:

- Some of the rivers already have Riverine Reserved Forests of about 800 metres on either side of the riverbanks which are well protected. As such, a separate biodiversity park was not proposed for rejuvenation of the polluted rivers, instead plantation drives have been undertaken in the catchment area of the polluted rivers.

XXII. Re-use of Treated Water:

The treated sewage water shall be utilized as per the action plan such as agriculture, irrigation/horticulture, and industrial re-use, construction activities, fire tender and urban reuse when the STP is fully operation.

XXIII. Model River being adopted by the State & Action Proposed for achieving the bathing quality standards:

- In Pursuance of the minutes of the RRC Meeting held on 20.06.2022, meeting of the expert team under the Chairmanship of Principal Secretary, EF&CC Dept, Govt. of Mizoram was held on 26.07.2022 to discuss Preparation of Action Plan for rejuvenation of Chite stream which is identified as a model polluted river. The meeting decided to select one (1) institution under Mizoram University in association with Save Chite Lui Co-ordination Committee for preparation of the action plan on urgent basis and follow up action be carried out vigorously by the stakeholders.

XXIV. Status of Preparation of Action Plan by the 13 Coastal States:

- Not applicable to the state of Mizoram as Mizoram is a landlocked state and has no coastal areas.

XXV. Regulation of Mining Activities in the State/UT:

- In Mizoram, there are no major mining activities yet. Most of the mining activities are that of minor mineral mining such as sandstone (stone quarry) and sand mining (sand extraction from river beds)
- Mining activities are strictly regulated in the state under The Mizoram Minor Minerals Concession Rules, 2000, notified by the State Govt. on 20.09.2005 as per the provisions of Section 15 (i) of The Mines and Minerals (Development and Regulation) Act, 1957.
- Apart from the above Rules, provisions under Central Act and Rules such as, The Explosive Rules, 2008 and The Mines Act, 1952 are effectively followed.

XXVI. Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring:

- Actions have been taken and fines imposed from time to time against the identified polluters, law violators in the past. However, during the reporting months, there is no such action taken.

DETAILS OF POLLUTED LOCATIONS & RESULTS OF FIELD PARAMETERS FOR THE MONTH OF JANUARY, 2025																
Sl. No.	Station Code	Name of Station	Location	A. STATIONS DETAILS												
				Sampling Date	Sampling Time	Used Based Class	Major Polluting Sources	Visibility Effluent Discharge	Use of water in Down Stream	Weather	Depth of Water Body (m)	Human activities	Floating matter	Colour	Odour	Flow (m/s)
				1	2	3	4	5	6	7	8	9	10	11	12	13
1	3718	Chite River	Near Mini Sports Complex, Armed Veng, Aizawl, Mizoram	13-01-2025	0.46	D	Municipal Sewage	None	Gardening	Clear	0.3	Domestic	No	Light Brown	Odour Free	0.3
2	3721	Lawibual Stream	I.T.I Veng, Aizawl	07-01-2025	0.47	D	Municipal Sewage	None	Gardening	Clear	0.4	Domestic	No	Light Brown	Odour Free	0.5
3	4115	Tuikual Stream U/S	Mizoram New Capital Complex, Dinthar, Aizawl	21-01-2025	0.47	D	Municipal Sewage	None	Gardening	Clear	0.3	Others	No	Dark Green	Odour Free	0.2

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