

Monthly Progress Report for the State of Mizoram for the month up to July 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:**

- 1) Anaerobic Microbial Inoculum (AMI) manufacturing facility has been set up to culture the bacteria and reproduce them.
- 2) Production of 3108 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

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	STP-3.5 MLD FSTP – 30 KLD	19.5%	NA	August 2026 (expected)

Name of the Project: **Sewerage & Septage Treatment Works for Zone-7, Aizawl City Small Bore Sewer, Tuikual Lui (under AMRUT 2.0)**
 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

A. Model Status of Open Defecation Free Plus (ODF-Plus) under Swachh Bharat-Grameen under PHED: -

- 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 a 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) All the village 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%.

B. Present status of Swachh Bharat Mission-Gramin (SBM -G) under PHED.

SI 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 Pits have 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 and Lunglei-I. Civil works completed for Champhai SWMC, procurement of machinery under process. Civil works completed for Lunglei SWMC, sanitary landfill under process.
- 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 30%, 28%, 23% and 27% respectively.
- 5) Tender for construction of SWMC floated for district headquarters Mamit and Serchhip, Khawzawl and Hnahthial. Contractor selected and work awarded.
- 6) Tender for construction of SWMC floated for 17 notified towns. Contractor selected and work awarded.

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

- 1) Composit Pit for biodegradable Waste – 1835 Nos
- 2) Segregation shed – 749 Nos.

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: 3108 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:

- 10 Plastic Waste Management Unit (PWMUs) have been constructed covering 13 block.
- Construction of Serchhip Plastic Waste Management Unit (for Serchhip and East Lungdar Block) is completed and already started operating in convergence with UD&PA covering urban areas of Serchhip Town.
- Construction of Seling Plastic Waste Management Unit (for Darlawn and Thingsulthliah RD Block) is completed and will be in operation soon.
- 2 Plastic Waste Management Unit (PWMUs) is under construction for Bungmun RD Block, Lunglei District and Khawzawl RD Block, Khawzawl District.

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

- Total no of IHHL Constructed under SBM(U) by UD&PA- 16917 nos.
- 1 Faecal Sludge management Centre at Champhai constructed under 15th FC under the supervision of PHE Department, consisting of 3 units with capacity of 284.625 cubic

meters which is equal to 284.625 KLD

- Total no of CT/PT Constructed under SBM(U) by UD&PA- 502 nos.
- Total no of IHHL Constructed under SBMG by PHED- 56712 nos.

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

- 1) Anaerobic Microbial Inoculum (AMI) manufacturing facility has been set up to culture the bacteria and reproduce them.
- 2) Production of 3108 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.

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:

- 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

- The Mizoram Ground Water (Control and Regulation) Rules 2024 has been published in the Mizoram Gazette on 11.07.2024
- State level and District level working committee has been set up.
- Drilling and Extraction of ground water is strictly prohibited without prior permission of competent authority.
- All the existing ground water user were informed to register themselves along with their machineries.
- Limitations of amount of water to be extracted is fixed based on the category of the ground water assessment units.
- Levy and Royalty has been set up.
- Heavy penalties have been imposed for those who does not obey the rules.

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:

To facilitate the assessment and eventual fixation of environmental flows (e-flows) in the major rivers of the state, the Irrigation & Water Resources Department (IWRD) has established Gauge and Discharge (GD) stations and initiated systematic data collection efforts. The Department is continuously monitoring river discharge and flow characteristics using scientific instruments such as current meters, Acoustic Doppler Velocimeters (ADV), Acoustic Doppler Current Profilers (ADCP), and Automatic Water Level Recorders (AWLR).

While this instrumentation provides critical hydrological parameters—such as velocity profiles, stage-discharge relationships, and flow variability—e-flow determination requires long-term, high-resolution datasets that capture seasonal and inter-annual variability, including baseflows and high-flow events. As the current data record is still in its early phase and insufficient in temporal and spatial extent, it is scientifically premature to finalize e-flow thresholds at this stage.

Nevertheless, the ongoing analysis—including development of rating curves and flow duration curves—will, over time, support a robust, evidence-based approach for determining sustainable e-flow regimes. The fixation of e-flows is expected once a sufficient and reliable dataset is accumulated through continuous monitoring by 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,	Tlawng	NIL	NIL	NIL	NIL	NIL

	September, October, November, 2024	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.

Annexure 1 :-

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	3718	Chite River	Near Mini Sports Complex, Armed Peng, 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 Peng, Aizawl	07-01-2025	0.47	D	Municipal Sewage	None	Gardening	Clear	0.4	Domestic	No	Light Brown	Odour Free	0.5
3	4115	Tukhal Stream U/S	Mizoram New Capital Complex, Dindhar, Aizawl	21-01-2025	0.47	D	Municipal Sewage	None	Gardening	Clear	0.3	Others	No	Dark Green	Odour Free	0.2

MONITORING PERIOD FOR THE MONTH OF JANUARY, 2025

Sl. No	Station Code	B. CORE PARAMETERS										C. GENERAL PARAMETERS										D. METAL																				
		Water Temp (°C)	D.O (mg/L)	pH	Conductivity μ s/cm	B.O.D (mg/L)	Nitrogen Nitrate (mg/L)	Nitrogen Nitrite (N-NO ₂) (mg/L)	Faecal Coliform MPN	Total Coliform MPN	Faecal Streptococcus MPN	E.Coli MPN	Turbidity NTU	Total Alkalinity (mg/L)	Chlorides (mg/L)	COD (mg/L)	Total Nitrogen (mg/L)	Ammonia-N (mg/L)	Total Hardness (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	TDS (mg/L)	Total Phosphate (mg/L)	Boron (mg/L)	K (mg/L)	Sulphate	Arsenic (Total) (mg/L)	Cadmium (mg/L)	Copper (mg/L)	Lead (mg/L)	Chromium (Total) (mg/L)	Nickel (mg/L)	Zinc (mg/L)	Mercury (mg/L)	Iron (Total) (mg/L)	Aluminium (mg/L)	Cobalt (mg/L)	Manganese (mg/L)			
1	3718	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52		
		20	3.8	7.0	812	2.5	8.57	0.66	220	1600	94		30.8	200	79		0.55	271	56	31.9	55	378	45	2.76	1.373	18.0	3.36															
2	3721	16	3.1	7.5	674	1.4	5.97	1.04	920	1600	350		27	62	61			1.01	208	48	21.8	54.8	360	15	1.58	1.765	16.0	3.173														
3	4115	21	2.0	7.5	821	1.0	24.6	0.80	540	1600	240		194.0	216	83	173		1.63	298	60	35.9	64	340	260	3.9	1.716	24	3.600														

541

