

**ACTION PLAN ON
WASTE MANAGEMENT
FOR THE STATE OF
MIZORAM**

Reference: O.A. No. 606/2012 : Solid Waste Management

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A. SOLID WASTES MANAGEMENT

Rule	ACTIVITIES	AUTHORITY	METHOD	TIME LINE
15 (a)	Prepare a solid waste management plan as per state policy and strategies on Solid Waste Management submit a copy to State Government.	<u>Aizawl: AMC</u>	Segregation at source through Local Councils.	
	Segregation of Bio-degradable , non - biodegradable & domestic hazardous wastes	<u>Rural areas:</u> 1) PHED	Biodegradable wastes, Non-biodegradable wastes, Toxic wastes, sanitary wastes and E-wastes are proposed to be segregated at source	Within 2018-2019
		2) Local Administrative Department	Collect separately for household, veg markets, streets, parks & garden wastes etc	Within this current year
15 (b) & 22 (5)	Door to door collection of segregated solid waste	<u>Aizawl: AMC</u>	Segregation at source started at 9 (nine) Local Councils i.e. 11% as pilot project, implementing at all 83 Local Councils by June, 2019.	implementing at all 83 Local Councils by June, 2019
		<u>Rural areas:</u> 1) PHED	Plastics wastes will be stocked by the residents at plastics collection centre which are constructed at the suitable locations arranged cluster wise in the village. The plastics wastes will be collected by PHED from each village and transport to Block Headquarters wherein cleaning and compressed will be done by Baling Machine. Thereafter, the proper package of raw plastic wastes will be dispatched to the nearest reliable plastic recycling factory available outside the State	Within current year
		2) Local Administrative Department	Set up mechanism to ensure 100 % collection Within this current year	Within this current year

Rule	ACTIVITIES	AUTHORITY	METHOD	TIME LINE
15 (c)	Establish a system to recognize waste pickers or informal waste collectors and establish a system to integrate them to facilitate their participation in solid waste management including door to door collection of waste;	Aizawl: AMC	Introducing more training, systematic way of picking wastes.	
15 (d)	Facilitate formation of self-help groups, provide identity cards and encourage integration in solid waste management including door to door collection of waste;	Aizawl: AMC	Encouraging Self-help groups.	
15 (e)	frame bye-laws incorporating the provisions of these rules and ensure timely implementation;	Aizawl: AMC	Implementation of the relevant section as far as possible by strengthening the Municipality	
15 (f)	prescribe user fee	Aizawl: AMC	Collected some fees by Local Councils concerned at different rates.	Introducing and prescribes minimum uniform rates for Local Councils
		Rural : PHED	Management fee shall be contributed from the villagers.	Within current year

Rule	ACTIVITIES	AUTHORITY	METHOD	TIME LINE
15 (g)	direct waste generators not to litter or burn waste and to segregate the waste at source and hand over the segregated waste to authorized the waste pickers or waste collectors authorized by the local body;	Aizawl: AMC	Enforcement of relevant law strictly for the defaulters. Encouraging the better ways	
15 (h)	set up material recovery facilities or secondary storage facilities with sufficient space for sorting of recyclable materials and provide easy access. Bio-degradable wastes	Aizawl: AMC	Engagement of Entrepreneurs to utilize the space for the purpose.	
		<u>Rural Areas: Local Administrative Department</u>	to sort recyclable materials	Within this current year
15(l)	Provide training to all wastes generators, all sections of workers including street sweepers	<u>Rural Areas: Local Administrative Department</u>		Not applicable
15 (p)	collect horticulture, parks and garden waste separately and process in the parks and gardens, as far as possible;	<u>Rural Areas: Local Administrative Department</u>	Encouraging to establish separate collection and management of bio-degradable wastes at each Park, Garden etc.	
15 (q)	Transport segregated bio-degradable waste to the processing facilities like compost plant, bio-methanation plant or any such facility. Preference shall be given for onsite processing of such waste;	<u>Rural Areas: Local Administrative Department</u>	Transport bio-degradable, non-bio-degradable & domestic hazardous wastes & C& D wastes separately in covered vehicles to their respective processing facilities	Within this current year

Rule	ACTIVITIES	AUTHORITY	METHOD	TIME LINE
15 (r)	transport non - bio degradable waste to the respective processing facility or material recovery facilities or secondary storage facility;	<u>Rural Areas :</u> 1) PHED	All the leftover wastes and residues wastes from residents and community will be collected and transported by Village WATSAN Committee to the confined dumping grounds which are already constructed.	Within current year
		2) Rural Areas: Local Administrative Department	Transport bio-degradable, non-bio-degradable & domestic hazardous wastes & C& D wastes separately in covered vehicles to their respective processing facilities	Within this current year
15 (s)	transport construction and demolition waste as per the provisions of the construction and Demolition Waste Management Rule 2016;	Aizawl: AMC	Implementation of the relevant section as far as possible by strengthening the Municipality.	
		<u>Rural Areas:</u> Local Administrative Department	Transport bio-degradable, non-bio-degradable & domestic hazardous wastes & C& D wastes separately in covered vehicles to their respective processing facilities	Within this current year
15 (s)	transport construction and demolition waste as per the provisions of the construction and Demolition Waste Management Rule 2016;	Aizawl: AMC	Implementation of the relevant section as far as possible by strengthening the Municipality.	Already co-operated in the Mizoram Municipalities Acts, 2007, Sec- 157- A
15 (t)	involve communities in waste management and promotion of home composting, bio-gas generation, decentralized processing of waste at community level subject to control of odor and maintenance of hygienic conditions around the facility;	Aizawl: AMC	Encouragement of Community involvement as far as practicable	
		<u>Rural areas:</u> PHED	The treatment for biodegradable is suggested at household level through the system of home composting. The plastic container with desirable capacity will be utilized at home and adopted aerobic decomposition.	Within current year

Rule	ACTIVITIES	AUTHORITY	METHOD	TIME LINE
15 (u)	Phase out the use of chemical fertilizer and use compost in all parks, gardens maintained by the local body and wherever possible in other places under its jurisdiction. Incentives may be provided to recycling initiatives by informal waste recycling sector.	Aizawl: AMC	Introducing PPP Mode as far as possible.	
		<u>Rural Areas: Local Administrative Department</u>	Coordinate with Agri/Horticulture and Association dealing with plantations, farmers etc	Within this current year
15 (v)	Operation and maintenance of solid waste processing facilities and associated infrastructure on their owner on PPP as per available guidelines issued by the Ministry of Urban Development and standard prescribed by the Central Pollution Control Board. Preference shall be given to decentralized processing to minimize transportation cost and environmental impacts such as a) Bio-methanation, microbial composting, vermin-composting anaerobic digestion or any other appropriate processing for bio-stabilization of bio-degradable wastes; b) Waste to energy processes including refused derived fuel for combustible fraction of waste or supply as feed stock to solid waste-based power plants or cement kilns;	Aizawl: AMC	Abandoning the existing Solid Waste Management Center (which is old and traditional type) and shifted to the newly constructed Scientific Solid Waste Management Centre by June, 2019.	
		<u>Rural areas:</u> 1) PHED	The treatment for biodegradable is suggested at household level through the system of home composting. The plastic container with desirable capacity will be utilized at home and adopted aerobic decomposition. Incinerator is proposed for toxic wastes and sanitary wastes/E-wastes –. The environmental standards shall be should be ensured in consultation with State Pollution Control Board.	Within current year
		2) Local Administrative Department	Scientific & Resource recovery	Within this current year

Rule	ACTIVITIES	AUTHORITY	METHOD	TIME LINE
15 (y)	make an application in Form-I for grant of authorization for setting up waste processing, treatment or disposal facility, if the volume of waste is exceeding 5 Metric Tons per day including sanitary landfills from the State Pollution Control Board	Aizawl: AMC	Apply to SPCB in Form-I before setting up of scientific treatment facilities	Not applicable
15 (za) & 24 (2):	prepare and submit annual report in Form-IV the succeeding year to the Commissioner or Director, Municipal Administration or designated Officer; Not applicable as the AMC itself is undertaking collection and transportation at present	Aizawl: AMC	To be furnished regularly	
		<u>Rural Areas:</u> Local Administrative Department	Every year in Form IV to UD&PA, DCs	Within this current year
15 (zb):	the annual report shall then be sent to the Secretary-in-charge of the State Urban Development Department or village Panchayat or rural development department and to the respective State Pollution Control Board or Pollution Control Committee Submitted report for 2017-18 to the MPCB vide letter dated 13.08.2018	Aizawl: AMC	Instruction/ Guidelines already issued to Local Councils.	Implementing the guidelines from June, 2019

Rule	ACTIVITIES	AUTHORITY	METHOD	TIME LINE
15 (zc):	educate workers including contract workers and supervisors for door to door collection of segregated waste and transporting the unmixed waste during primary and secondary transportation to processing or disposal facility;	Aizawl. AMC	Monitoring safety gear strictly.	
15 (zd):	ensure that the operator of a facility provides personal protection equipment including uniform, fluorescent jacket, hand gloves, raincoats, appropriate foot wear and masks to all workers handling solid waste and the same are used by the workforce;	Aizawl. AMC	Monitoring & Enforcing the relevant Section of the AMC Licensing Regulations, 2012, Regulation -14(c) strictly which Incorporated collection & storage of waste.	
15 (ze):	ensure that provisions for setting up of centers for collection, segregation and storage of segregated wastes, are incorporated in building plan while granting approval of building plan of a group housing society or market complex; and	Aizawl. AMC	Monitoring & Enforcing the relevant section of the AMC Licensing Regulations, 2012, Regulation -14(c)	
15 (zf)	frame bye-laws and prescribe criteria for levying of spot fine for persons who litters or fails to comply with the provisions of these rules and delegate powers to officers or local bodies to levy spot fines as per the bye laws framed; and	Aizawl. AMC	i) Continuing the on-going process of awareness campaign and introducing more systematic ways of campaign to the public. ii) Prescription of the minimum uniform rate of user fee/charges to be collected from each household	

Rule	ACTIVITIES	AUTHORITY	METHOD	TIME LINE
15 (zg):	<p>Create public awareness through information, education and communication campaign and educate the waste generators on the following; namely: -</p> <p>(i) not to litters.</p> <p>(ii) minimize generation of waste;</p>	Aizawl. AMC	Start functioning Scientific Solid Waste Management Centre from June, 2019	from June, 2019
	<p>iii) reuse the waste to the extent possible;</p> <p>(iv) practice segregation of waste into bio-degradable, non- biodegradable (recyclable and combustible),sanitary waste and domestic hazardous wastes at source;</p> <p>(v) practice home composting, vermin composting, bio-gas generation or community level composting;</p> <p>(vi) wrap securely used sanitary waste as and when generated in the pouches provided by the brands owners or a suitable wrapping as prescribed by the local body and place the same in the bin meant for non bio-degradable waste;</p> <p>(vii) handover segregated waste to waste pickers, waste collectors, recyclers or waste collection agencies; and</p> <p>(ix) pay monthly users fee or charges to waste</p>	Rural Areas: Local Administrative Department	In any form on continuous basis	Implemented

Rule	ACTIVITIES	AUTHORITY	METHOD	TIME LINE
	collectors or local bodies or any other person authorized by the local body for sustainability of solid waste management. stop land filling or dumping mixed waste soon after the timeline as specified in rule 23 for setting up and operationalization of sanitary landfill is over			

B. BIO-MEDICAL WASTE MANAGEMENT

Sl No	ACTIVITIES	AUTHORITY	Method of management	TIME LINE
1	Segregation of wastes	Occupier	Collect separately BMW & SWM and not to mix them at source. Not to give treated bio-medical waste with municipal solid waste and dispose of solid waste other than bio-medical waste in accordance with the provisions of respective waste management rules	1 month
2	Phase out Chlorinated plastic bags	Occupier/ State Govt	Additional fund will be needed for this, which will be submitted to the State Government	within 2 years
3	Establish Bar Code and GPS	Occupier/ State Govt	Additional fund will be needed for this, which will be submitted to the State Government	within 1 year
4	Development of Common Bio-Medical Waste Treatment Facility (CBMWTF):	State Govt.	-State Advisory Board Meeting will be convened to chalk out plan for CBMWTFs -Budget allocation of fund from State Govt. will be submitted to the Government for this project. -When separate Budget allocation is available, then Request for Proposal (RFP) will be floated for private entrepreneurs.	within 3 years
5	Grant and renewal, suspension or refusal of Consent & authorization	SPCB/State Govt	Application to be submitted to MPCB as and when required. -All Districts Hospitals -All CHCs, PHCs & Sub Centers and Sub Centre Clinics. -All HCFs/ Private hospitals	Within 1 year
6	Training to personnel involved in BMWM	State Govt/ occupier	Provide training to all health care workers and others, involved in handling of bio medical waste and make the details available in Annual Report.	Yearly

Sl No	ACTIVITIES	AUTHORITY	Method of management	TIME LINE
			Coordinate with State Pollution Control Boards for organizing training programmes.	
7	Immunization & health Check ups	State Govt/ Occupier	Immunise all its health care workers and others, involved in handling of bio-medical waste & conduct health check up at the time of induction	As and when required
8	Pre-treatment of waste and development of Effluent Treatment plant in HCFs	State Govt/ Occupiers	Segregation of liquid chemical waste at source and ensure pre-treatment or neutralisation prior to mixing with other effluent generated from health care facilities & ensure treatment and disposal of liquid waste in accordance with the Water (Prevention and Control of Pollution) Act, 1974	Within 3 years
9	Record keeping	State Govt/ occupiers	1. Maintain and update the bio-medical waste management register. 2. Display the record on its website of HCFs & also maintain all record for operation of incineration, hydro or autoclaving etc., for a period of five years	Daily Monthly
10	Formation of BMW Committees & Monitoring of Compliance	State Govt	Establish a system to review and monitor the activities related to bio-medical waste management, either through an existing committee or by forming a new committee and the Committee shall meet once in every six months and the record of the minutes of the meetings of this committee shall be submitted along with the annual report to the prescribed authority	Six months
11	Publication	State Govt/MPCB	Publication of list of registered health care facilities with regard to bio-medical waste generation, treatment and disposal	Six months

Sl No	ACTIVITIES	AUTHORITY	Method of management	TIME LINE
12	Mass Awareness	State Govt/MPCB	Conducting mass awareness campaigns in all forms	within 1 year
13	Inventory	MPCB	Proposal submitted to state govt.	3 months from allocation of fund.
14	Establishment of CBMWTF	MPCB & HFW Dept.	One for Aizawl city	within 3 years
15.	Authorisation of all HCF	MBCB	All HCF shall be directed	within 1 year
16	Inspection	MPCB	Routine and surprise inspection shall be done.	every quarter
17	Compilation of Reports	MPCB	Status reports shall be compiled	Yearly
18	Data: Upload data to the M.P.C.B website & E Sanyojan – a CPCB portal.	MPCB	Status report shall be uploaded to the MPCB website.	Monthly

C. PLASTIC WASTE MANAGEMENT RULES 2016

Rule	ACTIVITIES	AUTHORITY	METHOD	TIME LINE
5(1) (a) & 7(1) (a)	Plastic waste Management: channelizing recyclable plastic waste to registered recycler	Rural Areas: PHED	Plastics wastes will be stocked by the residents at plastics collection centre which are constructed at the suitable locations arranged in cluster wise in the village. The plastics wastes will be collected by PHED from each village and transport to Block Headquarters wherein cleaning and compressed will be done by Baling Machine. Thereafter, the proper package of raw plastic wastes will be dispatched to the nearest reliable plastic recycling factory available outside State	Within Current year
5(1) (b)	Encouraging use of un-recyclable plastic waste for <u>road construction</u> as per Indian Road congress guidelines or <u>energy recovery</u> or <u>waste to oil</u> etc.	Aizawl: AMC	Encouraging Entrepreneur found from Exhibition 2018 to establish industries for producing road construction materials from non-recyclable plastic wastes.	
		<u>Rural Areas:</u> Local Administrative Department	Coordinate with MPWD or any other road construction company.	Within this current year
5(1) (c)	Processing and disposal of Thermo set plastic waste as per the guidelines of the Central Pollution Control Board.	<u>Rural Areas:</u> Local Administrative Department.	As per the guidelines of the Central Pollution Control Board.	Within this current year

Rule	ACTIVITIES	AUTHORITY	METHOD	TIME LINE
6(1)	Development and setting up of infrastructure for segregation, collection, storage, transportation, processing and disposal of the plastic waste	Aizawl: AMC	Establishment of reliable Plastic Waste management Centre/Firm for setting up of segregation, transportation, processing and disposal of the plastic waste within AMC areas.	
		<u>Rural Areas:</u> Local Administrative Department	Scientific & Resource recovery	Within this current year
6(2)	Awareness among all stakeholders about their responsibilities	Aizawl: AMC		Not applicable as already complied with
7 (1) (b)		<u>Rural Areas:</u> Local Administrative Department	In any form	Not applicable as already implemented
7 (1) (c)	Ensuring no open burning of plastic waste	Aizawl: AMC		Not applicable as already complied with
		<u>Rural Areas:</u> Local Administrative Department		Within this current year
6(4)	Frame bye-laws			within 3 (three) months i.e. June, 2019
12 (3)	Enforcement on waste management by the waste generator, use of plastic carry bags, plastic sheets or like, covers made of plastic sheets and multilayered packaging in the rural area of the State	<u>Rural Areas:</u> PHED	1. Proposed to set up waste recycling plant in various rural areas. 2. Proposed to make local Rules. 3. Capacity building of Village Council to be taken up by SIRD&PR	Within current year

Rule	ACTIVITIES	AUTHORITY	METHOD	TIME LINE
		<u>Rural Areas:</u> Local Administrative Department		Within this current year
	Ban of plastics		The Board of Councilors in its Meeting held on dt. 26.3.2019 has resolved banning of Plastic w.e.f. 1 st August, 2019	<ul style="list-style-type: none"> • Total Ban of Plastic products in AMC areas from 1st Aug, 2019. • Aizawl- Plastic free city from 2nd Oct, 2019.

D. CONSTRUCTION AND DEMOLITION WASTES

Sl No	ACTIVITIES	AUTHORITY	Method of management	TIME LINE
1	To prepare Policy Document with respect to management of construction and demolition of wastes Timeframe. 12 months from Notification, i.e., 29 th March 2017	Urban Development & Poverty Alleviation	Management of C&D Waste has been incorporated in the state Solid Waste Management Policy, 2011.	
2	To incorporate the site in the approved land use plan so that there is no disturbance to the processing facility on a long term basis	The Town and Country planning Department (UD&PA)		
3	Department shall expedite actions for identification of sites for C&D waste management in consultation with concerned local bodies	Revenue and Land Settlement	Once the site is identified, the department shall follow up actions to incorporate the site in the approved land use plan.	Within 1 month from identification of site for C&D waste management 1 month
4	6 (1) To issue detailed directions with regard to proper management of C&D waste within its jurisdiction in accordance with the provision of these rules and the local authority shall seek detailed plan or undertaking as applicable, from generator or construction and demolition waste.	Aizawl Municipal Corporation	Monitoring and Enforcing the relevant section of The Municipality Acts and The AMC Building Regulations, 2012. While issuing during permission and issuing demolition order for unsafe Building.	
5	6 (2) Chalk out stages, mythology & equipment, material involved in the overall activity and final clean up after completion of the construction and demolition.			

Sl No	ACTIVITIES	AUTHORITY	Method of management	TIME LINE
6	Rule 8. To monitor the implementation of C&D Rules by concerned local bodies and the competent authorities	M.P.C.B	Closely monitor the progresses made by the local authorities and other concerned departments on the proposed action plan indicated above under Sl. 1-4 for the implementation of the C&D waste management rules through correspondences, physical verifications and meetings etc.	Physical verifications /meetings : two times in a year at the minimum
7	To grant authorization to C&D waste processing facility in FORM-I		As and when application is received	
8	Rule 8. To prepare Annual Report in FORM IV and submit to CPCB before 31 st July for each FY		MPCB shall ensure that concerned local authority submits the annual report that it is compiled and forwarded to CPCB on time, that is within 31 st July for each FY	