

GOVERNMENT OF PUDUCHERRY
DEPARTMENT OF SCIENCE TECHNOLOGY AND ENVIRONMENT
PUDUCHERRY POLLUTION CONTROL COMMITTEE

INDICATIVE TEMPLATE FOR STATE ACTION PLAN

1. Industrial Emissions

Sl. No.	Activities/ Action plan	Status of activity (Completed / Ongoing / To be Started)	Timeline for completion	Target (Coverage / Percentage)	Financial implications (Yes/ No)	Funds Allocated (Rs crore)	Funds Utilized as on date (Rs crore)
1.	Policy for permitting new industries in Critically Polluted Areas (CPAs)	Government of Puducherry has taken policy decision of not to permit air pollution potential units, viz M.S.Ingots, Ferro Alloys, Ferro silicon, Calcium carbides and Potassium chlorates with effect from October, 2000.	Already being complied with.	Whole U.T.of Puducherry	No	NA	NA
2.	Guidelines for laying city gas distribution network	Guidelines for city gas distribution was notified on 09 th October 2023 by Government of Puducherry.	Completed	100%	No	NA	NA
3.	Policy for replacement of heavy oil (eg., furnace oil, diesel etc.) based industries to alternate energy sources (CNG/PNG/ Electricity)	Fuel Policy has been formulated in the year 2021. Coal and Pet coke are banned as fuel. Incentives are provided for cleaner and renewable energy sources.	Completed	100 %	It is proposed to give 10% of consent fee reduction to the unit which used minimum 50% of its fuel requirement through cleaner fuel. Hence there will be reduction of revenue to PPCC. However no fund is required to give 10 % of consent fee reduction.		

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4.	Policy for restriction on usage of Pet coke for industrial use.	Fuel Policy has been formulated in the year 2021. Coal and Pet coke are banned as fuel	Already completed	100 %	No	NA	NA
5.	Rules and Regulations on uninterrupted power supply in State/ UT	The Electricity Department, Government of Puducherry is a deemed licensee as per Section 14 of the Indian Electricity Act 2003 and the timelines for attending the Fuse of Call, Breakdown in power supply is being carried out as per the timelines specified in the Standards of Performance notified by JERC. The same is available in the department website https://electricity.py.gov.in Further being an Utility department, no special funds are earmarked (Electricity Department).					
6.	Policy for use of DG sets	Guidelines framed by the CPCB and directions of the Hon'ble NGT are being adopted	March 2024	100 %	No	NA	NA
7.	Policy regarding installation of CAAQMS based on the emission potential or capacity of air polluting industries.	Air pollution potential units have been directed to provide CAAQMS. Ongoing	March 2024	100 %	No	NA	NA
8.	Mechanism to be devised for expansion of OCEMS to air polluting industries are not covered currently (such as emission from utility stacks in 17 categories, etc.)	All the 17 category units have provided OCEMS. Other Air pollution potential units have been directed to provide OCEMS Ongoing	December 2023	100 %	No	NA	NA
9.	Mechanisms to control fugitive emissions sources.	Industries were directed to provide sprinkler system to control fugitive emissions. Urban Local Bodies are carrying out manual and mechanical road sweeping.	March 2024	100 %	No	NA	NA
10.	Regulations for conversion of brick kilns to clean technologies	To be started	December 2024	100 %	No	NA	NA

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11.	Regulations for Emission Trading Scheme (ETS)	To be started	March 2025	50 %	No	NA	NA
12.	Policy to set up e-waste recycling unit in industrial areas in compliance with e-waste management rules	To be started	December 2024	100%	No	NA	NA
13.	Any other Policy / Rules/ Standards/ Guidelines pertaining to industrial emissions	Standards specified in Environmental (Protection) rules, 1986 are being adopted	Completed	100 %	No	NA	NA
14.	Number of industries in the State complying emission standards	177 units are complying with emission standards	April 2024	100 %	No	NA	NA
15.	Inventory of fuel consumed in the industries (type and quantity)	On going	March 2024	100 %	50 % (Furnace oil inventorisation has been completed)	NA	NA
16.	Shifting of industries/ commercial units to gaseous fuels (CNG/ PNG/ CBG)	On going	March 2026	80%	No	NA	NA
17.	Number of households shifted to PNG/ LPG	LPG – 3,91,033	March 2024	- 95%	No	NA	NA
18.	Any other activity / project pertaining to industrial emissions	Green award launched	Completed	100%	One lakhs /3 year	One lakhs	Fully utilized

2. Vehicular Emissions

Sl. No.	Activities/ Action plan	Status of activity (Completed / Ongoing / To be Started)	Timeline for completion	Target (Coverage / Percentage)	Financial implications (Yes/ No)	Funds Allocated (Rs crore)	Funds Utilized as on date (Rs crore)
1.	Notification for phasing out old vehicles (Commercial: 10 years; Private: 15 years)	The action has been initiated for scrapping of Non – Transport Vehicles older than 15 years of age owned by Govt. / quasi Govt./ Agencies of the central and state registered in Puducherry as per the notification of MoRTH vide GSR 29 (E), dated 16-01-2023.	December 2024	100%	Yes	Not yet	NA
2.	Policy for scrapping old vehicles	Ongoing	December 2023	All Govt. / Quasi Govt./ Autonomous body Owned vehicles	Yes	To be ascertained	To be allocated
3.	Policy/ Plan for Li-battery waste management from scrapped vehicles	To be started	March 2024	100 %	No	NA	NA
4.	Policy / Scheme for Eco-Friendly Mass Rapid Transport Systems	Will be examined	-	-	-	-	-
5.	Policy for augment e-vehicles	The Transport department has submitted the draft “Puducherry electric mobility policy 2023” for the approval of the Government (Ongoing)	December 2024	100%	Rs.9.40 Crores per annum	No	No
6.	Notification and enforcement of PUC norms	Integration of NIC software for testing of vehicles for pollution has been implemented. For enforcement of PUC compliance, the submission of Pollution under control certificate is made mandatory for grant / renewal of fitness certificate or renewal of certificate of Registration	Completed	100%	No	NA	NA

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7.	Online monitoring of PUC implementation	As the Vahan system has been linked with testing centre in Puducherry, the monitoring can be done online for the vehicles for which testing was carried out by the pollution testing centres in Puducherry. The online monitoring for all vehicles can be possible only on integration of all testing centres in neighboring States /Country is completed.	-	-	-	-	-
8.	Mechanism for centralized record maintenance of PUC checks, certification and cross check by the concerned transport authorities to be incorporated	The Vahan has been Integrated with the pollution testing centre system developed by NIC. Through the same the data base of pollution data can be created.	-	-	-	-	-
9.	Construction of bypass /ring roads	Not proposed					
10.	Re-filling Stations retrofitted with Vapor Recovery System	To be started	March 2024	100 % wherever applicable	No	NA	NA
11.	Incentive of setting up R&D facilities related to EVs	A Clause with respect to encouragement for the R & D facilities related to Electric Vehicle has been incorporated in the draft “Puducherry Electric Mobility Policy 2023”	Currently required information is not available				
12.	Any other Policy / Rules/ Standards/ Guidelines pertaining to vehicular emissions	No	-	-	-	-	-

3. Construction & Demolition Waste and Road Dust Management

Sl. No.	Activities/ Action plan	Status of activity (Completed / Ongoing / To be Started)	Timeline for completion	Target (Coverage / Percentage)	Financial implications (Yes/ No)	Funds Allocated (Rs crore)	Funds Utilized as on date (Rs crore)
1.	Policy for development of projects/ plans for C&D waste management	<p>Tender has been floated for setting up Integrated Municipal Solid Waste Management – the scope is inclusive of Collection, Transportation, Processing and Disposal of C&D waste for Pondicherry and Oulgaret Municipalities.</p> <p>The quantity of C&D waste generated in other ULBs is very minimal – not applicable to set up a processing unit. It is being managed along with Municipal Solid Waste.</p>	September 2023	100% waste generated	No	NA	NA
2.	Policy for use of C&D waste in laying and construction of State High ways.	C&D waste is being used by Pondicherry Municipality in laying of municipal roads.	Ongoing	100% waste generated	No	NA	NA
3.	Demand creation for C&D waste and alternative use of C&D waste material	<p>It is being considered to issue GO/notification to all associated government agencies regarding utilisation of C&D waste and products from C&D processing plant in construction of government buildings, laying of roads filling low – laying areas etc. The same proposition will be extended to Civil Engineers Association and other relevant stakeholders as well.</p>	After the C&D the processing plant is set up, this will be initiated.	-	-	-	-

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4.	Schemes for development of green belt/ open spaces and street sides greening on State highways	To be started	March 2024	30 %	Yes	No	No
5.	Penalty provisions for non-compliance of C&D waste management rules at construction sites	Completed	-	100 %	No	NA	NA
6.	Maintenance, repair and paving of State highways	Completed 90.21 Km.	-	100%	Yes	94.12	94.12
		To be started 178.675 Km	December 2023	-	Yes	115.22	No
7.	Monitoring of road dust especially in and around hotspot areas and in the vicinity of State highways	Yes	-	-	-	-	-
8.	Mechanism for development and maintenance of road infrastructures for industrial states and Clusters Strengthening, Widening & Black topping to the approach road 1st cross, I main, II main, 5th, 9th, 11th, 15th, 19th cross roads at Mettupalayam Industrial Estate, Puducherry.	To be started	February 2024	-	Yes	2 crores	No
9.	Any other Policy / Rules/ Standards/ Guidelines pertaining to C&D waste and Road dust management	Ensuring compliance with the Construction and Demolition Waste Management Rules, 2016	On going	-	-	-	-

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10.	C&D waste processing plants	Tender has been floated for setting up Integrated Municipal Solid Waste Management – the scope is inclusive of Collection, Transportation, Processing and Disposal of C&D waste for Pondicherry and Oulgaret Municipalities. The quantity of C&D waste generated in other ULBs is very minimal – not applicable to set up a processing unit. It is being managed along with Municipal Solid Waste.	August / September 2023	100% waste generated	Yes	Please refer to Annexure -I	No
11.	Greening of open spaces/ parks developed	Greening of open spaces (0.0259 sq. km of green space) and parks (9 projects) has been taken up and executed by the Urban Local Bodies under AMRUT scheme in the last 5 years.	Completed	100%	Yes	Rs 1.63 Crores	Rs 1.63 Crores
12.	Any other activity/ project pertaining to C&D waste and Road dust management	C&D waste is being used by the Pondicherry Municipality in laying of roads using existing man power and vehicles.	Continuous	NA	No	NA	NA

4. Emissions from burning of waste

Sl. No.	Activities/ Action plan	Status of activity (Completed / Ongoing / To be Started)	Timeline for completion	Target (Coverage / Percentage)	Financial implications (Yes/ No)	Funds Allocated (Rs crore)	Funds Utilized as on date (Rs crore)
1.	Notification and Enforcement of municipalsolid waste (MSW) management rules	Completed	-	-	No	NA	NA
2.	Policy for MSW management	Solid Waste Management Policy for Union Territory of Puducherry was notified on 01.08.2018 and the Solid Waste Management Action Plan was notified for Union Territory of Puducherry on April'18. Based on the State Action Plan, all the Local bodies have prepared their action plan adopted in their respective local bodies	Completed	-	-	-	-
3.	Policy for legacy waste management at dumpsites	Adopted SWM rules 2016	Completed	100%	Yes	Puducherry – Rs.42.6 Crores Karaikal – Rs. 8.6 Crores Yanam – Rs. 2.1 crores	Puducherry – Rs. 38.7 crores Karaikal – Rs. 6.9 crores Yanam – Not utilized
		For Pondicherry and Oulgaret, around 16 acres of land out of 23.6 acres has already being reclaimed by the concessionaire					
		The concessionaire commenced for Bio-mining and bio remediation in Karaikal Municipality	March 2024				
		Work order issued on 31.08.2023 and work commenced to clear 25306 MT of legacy waste accumulated in yanam.	March 2024				

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4.	Policy for implementation of ban on single use plastics	Completed	-	100 %	No	No	No
5.	Policy for development and Construction of Waste to Energy Plants	Adopted SWM rules 2016	Completed	100%	No	NA	NA
	(a) non-recyclable / combustible dry waste						
	(b) Bio- methanation / Bio CNG						
	(c) Composting plant etc.						
6.	Any other Policy / Rules/ Standards/ Guidelines pertaining to MSW Management	Solid Waste Management Rules (SWM), 2016 E-Waste (Management) Rules, 2016 Bio-Medical Waste Management Rules, 2016 Plastic Waste Management Amendment Rules, 2022 Construction and Demolition Waste Management Rules, 2016 Guidelines for Extended Producer Responsibility Notional Green Tribunal Swachh Bharat Mission (Urban & Gramin) guidelines (Mission 2.0)	Already in place	NA	No	NA	NA

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7.	Waste collection status in the city (%)	100% waste is being collected from all the ULBs	Completed	100%	-	-	-
8.	Waste segregation status in the city (%)	100% segregation of waste	Completed	100%	-	-	-
9.	Material Recovery Facility	4 TPD Material Recovery Facility is operational in Dubraypet, Pondicherry Municipality	Completed and Functional	NA	No	NA	NA
		20 TPD Material Recovery Facility is in process – MoU signed in August 2022 and current space for setting up this facility is being considered.	Yet to commence				
10.	Waste to Energy plants	Not adopted in U.T. of Puducherry	NA	NA	No	NA	NA
11.	Waste to compost plants	Integrated MSWM is being taken up for all types of waste. Composting technologies like Windrows method, Black Soldier Fly (BSF) and other aerobic technologies have been adopted.	Completed	NA	No	NA	NA
12.	Remediation of dumpsites in the city	All the legacy waste in the dumpsite has been bio-mined and cleared	Completed	100%	Yes	Rs.42.6 Crores	Rs. 42.6 Crores
13.	Control open burning of MSW	Integrated MSWM is being taken up in all ULBs to prevent open burning of MSW	On going	-	No	NA	NA
14.	Any other activity/ project pertaining to MSW Management	Pondicherry Municipality with Godrej, Swachatha Corporation & Recity Network have launched the project 'KEEP Namma Pondy Clean'. The initiative aims to make Pondicherry one of the cleanest coastal cities in India and undertake awareness activities along with the building of a state of the art Sanitation park to dispose of the waste produced in the city.	On going	-	-	-	-

5. Emissions due to burning of agro residues

Sl. No.	Activities/ Action plan	Status of activity (Completed / Ongoing / To be Started)	Timeline for completion	Target (Coverage / Percentage)	Financial implications (Yes/ No)	Funds Allocated (Rs crore)	Funds Utilized as on date (Rs crore)
1.	In-situ treatment of biomass residues for management of stubble burning						
a)	Schemes for procurement of agriculture machinery	Sub-Mission on Agricultural Mechanization (SMAM) Ongoing	March 2023	100%	Yes	2.24	1.84
b)	Assistance for establishment of farm machinery banks/ custom hiring centres	To be started	March 2024	50%	Yes	0.20	0
c)	Use of decomposer for in-situ Crop residue management	In-situ management of sugarcane trashes after harvest by deploying Trash cutter machineries/ Aggregating the trashes along the bunds and decompose them by spraying of urea. / use of bio decomposers.	Continuous	75 %	Yes	0.10	----
2.	Ex-situ treatment of biomass residues for management of stubble burning						
a)	Schemes for balers/ pellet/ briquette machines, etc.	Sub-Mission on Agricultural Mechanization (SMAM) Completed	-	100%	Yes	0.17	0.17
3.	Biomass projects with respect to the hotspots of crop residue burning	Burning of crop residue is not a common practice. Crop residue is being used for organic farming.					
4.	Policy for supply chain mechanism for in-situ and ex-situ management of stubble	Promotion of Agricultural Mechanization through subsidized distribution of equipment's such as Paddy straw balers. Chaff cutters under CSS- Sub-Mission on Agricultural Mechanization.					

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5.	Supply chain for crop residues to cow shelters	The fresh crop residue is being supplied to decentralized cow shelters located in Puducherry.					
6.	Development of effective protocol for monitoring of fire incidents including crop area consideration and crop fire area data	To be started	November 2024	100%	No	NA	NA
7.	Any other scheme/ program that may help in reducing air pollution	Awareness among farmers through training programme to restrain from burning of trashes/crop residues for popularization of use of bio-decomposers Promotion of Organic Farming in a cluster approach by making available all the organic inputs .	Continuous	600 ha	Yes	1.01	Amount yet to be released by GoI under Parambarakath Krishi Vikas Yojana.

6. Household emissions

Sl. No.	Activities/ Action plan	Status of activity (Completed / Ongoing / To be Started)	Timeline for completion	Target (Coverage / Percentage)	Financial implications (Yes/ No)	Funds Allocated (Rs crore)	Funds Utilizedas on date (Rs crore)
1.	Schemes for use of LPG/ PNG for cooking fuels	Ongoing	2021-2023	Target - 10.000 Achieved -15,556 156%	No	No	No
2.	Any other Policy / Rules/ Standards/ Guidelines pertaining to Household emissions	To be started	3 years	75 %	Yes	Yet to be estimated	

Annexure I

Details of funds allotted for Integrated Municipal Solid Waste Management projects (including C&D waste management) for ULBs under SBM (U) 2.0 and state share

S. No.	Details of the projects	Nome of the ULB
1	Disposal of Legacy Waste from Kurumbapet dumping site through bio-remediation and bio-mining with complete reclamation of the land in compliance with SWM Rules 2016 on Design, Build, Finance, Own and Operation model	Puducherry and Oulgaret Municipality
2	Integrated Municipal Solid Waste Management (IMSWM) for Puducherry and Oulgaret Municipalities on DBFOOT model (350 TPD)	Puducherry and Oulgaret Municipality
3	Reclamation of Land (legacy waste disposal) through bio-remediation and bio-mining at Paravaipet, Karaikal Dumping site (9.50 acres)	Karaikal Municipality Rs.5.09 Tentative
4	Integrated Municipal Solid Waste Processing Project at Karaikal Municipality (40 TPD)	Karaikal Municipality, Rs.3.08 Cr
5	Integrated Municipal Solid Waste Processing Project at Yanam Municipality (20 TPD)	Yanam Municipality, Rs.3.00 Cr
6	Disposal of legacy waste from the existing UVK Nagar dumping site through bio-mining technology in Yanam (1.84 acres)	Yanam Municipality, Rs.1.50 Cr Tentative
7	Integrated Municipal Solid Waste Processing Project at Puducherry commune panchayat (150 TPD)	Puducherry Commune panchayat, Rs.11.72 Cr
8	Integrated Municipal Solid Waste Processing Project at Karaikal commune panchayat (80 TPD)	Karaikal Commune panchayat, Rs.3.80 Cr
9	Material Recovery Facility at Truck Terminal Mettupalayam Under EPR Mode (20TPD)	Puducherry and Oulgaret Municipality