



**TAMIL NADU POLLUTION CONTROL BOARD**

**Revised Action plan to control PM10 pollution in Thoothukudi (Non attainment city)**

1	<b>Name of the city</b>				:	<b>Thoothukudi</b>
2	Air Pollution concerns				:	PM <sub>10</sub>
3	Air pollution levels (provide range of 24-hourly average concentration values; annual average for past five years)				:	<b>Figure - 2</b>
4	Months with higher air pollution levels				:	March, April, May June, July and August (Figure 2)
5	Action Plan					
<b>Source group</b>	<b>Action</b>	<b>Implementation period (Short/Mid/Long term)</b>	<b>Time limit for implementation</b>	<b>Responsible Agency (i.es)</b>	<b>Financial Implications (if any)</b>	<b>Present status/ Remarks</b>
<b>Vehicles</b>	Restriction on plying and phasing out of 15 years old commercial diesel drive vehicles	Long	12 months and above (Policy matter – decision at government level)	Transport Department	--	As per the Central Motor Vehicle Act, 1988, Sec 59" Power to fix the age limit of motor vehicle". Under this section Central Government is empowered to fix the age limit of motor vehicle. To Phase out 15 year old commercial diesel driven vehicles is a policy matter and the decision is required to be taken at Central Government level.
	Strengthen and encourage public transport services to reduce the vehicular congestion	Long	Apr '20	State Transport Corporations	--	To reduce the number of Private cars/two wheelers on road, the government/private buses may be increased by about 5% every year

Construction of flyovers and bypass road to ease the transportation and reduce the dust	Long	May '21	State Highway, NHA	--	Already one number of fly over is under construction. Depending on the need, this may be increased.
Action against visibly polluting vehicles and Parking prevention in non-designated areas	Immediate	--	RTO, Traffic Police	--	Continuous Action to be taken
Strict vigilance and no tolerance for visible emissions – stop plying of visibly polluting vehicles by impounding or fine	Immediate	--	RTO, Traffic Police	--	--
Strict vigilance and enforcement of (vehicular testing centre) for pollution under control certificates and regular inspection & monitoring	Immediate	--	RTO, Traffic Police, TNPCB	--	--
Vehicles should be frequently monitored to avoid over loading.	Immediate	--	RTO, Traffic Police	--	--
Deploy traffic police for smooth traffic flow at identified vulnerable areas	Immediate	--	Traffic Police,	--	--
Introduction of cleaner fuels (CNG/LPG) for vehicles	Long	Dec '21	Transport Department and Oil companies	--	Introduction of cleaner fuel (CNG/LPG) for vehicles is a Policy decision and availability of cleaner fuels.
Regular checking of vehicular emission and issue of Pollution under	Mid	Aug '19	Transport Department /RTO and Traffic	--	It is a regular activity and being done by RTO. At present 2 PUC centers are available and

	Control Certificate (PUC)			Police.		PUC centre's numbers has to be increased to meet the demand for the issue of PUC certificates.
	Good traffic management restriction/ redirection of heavy vehicles inside the city	Immediate	--	RTO, Traffic Police	--	Already implemented and further need may be assessed
	Promotion and operationalization of E-Rickshaw.	Long	May '20	Transport department/RTO	--	Policy decision to be taken
	Create More Parking facilities in and around the city	Long	May '20	Municipal Corporations of Thoothukudi City, Highway Department.	--	--
	Development of multilayer parking in congested areas	Long	Dec '20	Thoothukudi Corporation, Housing and urban development	--	--
	Retrofitting of particulate filter in diesel driven vehicle. Or ban on registration of Diesel driven auto rickshaws	Long	Dec '20	Transport/ RTO	--	Policy decision to be taken
	Checking of fuel adulteration	Short	Aug '19	District administration, Oil companies, Food and Civil Supplies department.	--	--
	Monitoring of vehicle fitness.	Short	Aug '19	RTO	--	--
	Periodic calibration test of vehicular emission monitoring equipment.	Short	Aug '19	Transport department/RTO and TNPCB	--	--

Road dust	Identify road stretches with high dust generation and Increase frequency of mechanized clearing of road and sprinkling of water on paved and unpaved roads	Short	Aug '19	Municipal Corporations, PWD, State Highway and National Highway Authority of India (NHAI).	--	At present manual cleaning done occasionally. Action to be taken at the earliest using regular mechanized cleaning
	Create Proper Pedestrian Infrastructure	Long	Dec '20	PWD, State Highway and NHAI.	--	--
	Maintenance and repair of roads on priority.	Immediate		State Highway and NHAI.	--	--
	Construction of pucca pavement along the roads.	Mid	Dec '19	Municipal Corporation.	--	--
	Strengthening the roads inside the Thoothukudi city	Long	Dec '20	State Highway	--	--
	Widening of roads at highways with service roads and parking facilities for the heavy vehicles	Long	Dec '20	State Highway and NHAI.	--	--
	Reduce Emission during coal handling and transport.	Short	Aug '19	TNPCB, Port Trust, Traffic Police	Provision of wind screen at the wind carrier around coal stack yard – 35 lakhs Dust suppression system 220 lakhs planting of 10	--

					thousand no's for year for next five years 1.40 lakhs Total 430lakhs	
	End to end carpeting of road with black topping to avoid road dust	Mid	Dec '19	Municipal Corporations, State Highway and NHAI.	--	--
	Formulate action plan for creation of green buffers along the traffic corridors	Short	Aug '19	Department of Forest, Municipal Corporation, State Highway and NHAI.	--	--
	Undertake greening of open areas, gardens, schools, housing societies and community places	Mid	Dec '19	Municipal Corporation	--	--
	Implement Road Side Tree Plantation with Indigenous species for creating carbon sink, abating the air pollution	Long	Dec '20	State Highway and NHAI.	--	--
	Do periodic mechanized sweeping on roads with heavy traffic and water sprinkling regularly	Mid	Dec '19	Municipal Corporation	--	--
	Introduction of water fountains at major intersection/circle	Long	Dec '20	Municipal Corporation, Industries.	--	--
	Covering of construction site.	Short	Aug '19	Municipal Corporation	--	--

Construction Activities	Stringently enforce rules for dust control in construction activities and close non-compliant sites	Immediate		Municipal Corporation	--	--
	Control dust pollution at construction sites through appropriate cover	Immediate		Municipal Corporation	--	--
	Transportation of construction materials like sand, soil, stone chips etc in covered conditions.	Immediate		RTO, Traffic Police	--	--
	Restriction on storage of construction materials along the road.	Immediate		Municipal Corporation	--	--
	Restriction on open burning of municipal solid waste, Crop residue, Biomass, plastic and horticulture waste etc	Short	Aug '19	Municipal Corporation, Agriculture Department	--	--
Biomass and garbage burning	Disposal of Garbage should be monitored periodically and to avoid open garbage firing.	Immediate		Municipal Corporation	--	--
	Immediate lifting of solid waste generated from desalting and cleaning of municipal drains for its disposal	Short	Aug '19	Municipal Corporation	--	--
	Transportation of municipal solid wastes, construction materials and debris in covered system	Short	Aug '19	Municipal Corporation, Traffic Police	--	--

	Stop use of coal/firewood in hotels and open eateries	Short	Aug '19	Municipal Corporation	--	--
	Phasing out of Bio mass fuel and replacing with LPG in the Restaurants, Dhabas/Road side eateries	Mid	Dec '19	Municipal Corporation and Hotel Owner associations	--	--
Industries	Adopting Cleaner Technology in Coal based Thermal Power Plants	Mid	Dec '19	TNPCB, TANGEDCO	Supply, Erection, installation and commissioning of suitable pollution control equipment to reduce the SOx emission level – at a total cost of Rs.500 Crores.	Dedicated Railway line and conveyor belt facilities available at Sea PORT for handling import of coal
	Strict action against industries having non-compliance to the norms	Immediate		TNPCB	--	--
	Stringent compliance by Thermal power plants with respect to the emission norms according to the timelines up to December 2022.	Long	Dec '22	TNPCB, TANGEDCO	Retrofitting of Electro static precipitator (ESP) and augmentation of additional ESP fields/pass, if required, to reduce the	--

					Particulate Matter (PM) at a total cost of Rs.400 crores.	
	Switching to power generation from existing wind and solar plants (renewable source) to reduce operation of coal-based power plants	Long	Dec '23	TANGEDGO	--	State level Policy decision
	Ensuring emission standards in industries	Short	Aug '19	TNPCB	--	--
	Adoption of cleaner technology in brick kilns.	Mid	Dec' 19	TNPCB	--	--
	Shifting of polluting industries	Long	Dec '23	TNPCB and Industry dept.	--	--
	Ban on polluting industries	Mid	Dec '19	TNPCB and Govt of Tamil Nadu.	--	--
<b>Strengthening of AAQ Monitoring</b>	Air Quality Monitoring may be strengthened by increasing the no of monitoring site location covering all regions especially industries, Port and road transportation areas/ educational institution areas by the Installation of Additional CAAQMS at Thoothukudi city. (Commercial/Residential)	Long	May '20	TNPCB, CPCB	--	At present, 1 Number of CAAQM Station is functioning and all the coal based power plants have CEMS and the data are connected to TNPCB CARE Centre. Additional CEMS will be installed in air polluting industries.
	Continuous Source apportionment study	Long	May '20	TNPCB,CPCB	--	Short period SA study was conducted.



Public Awareness	Create awareness about polluting vehicles, open burning and its health impacts	Short	Aug '19	TNPCB, DOE, Department of Health, District administration.	4.00	--
	Educate the advantage of using cleaner fuel such as LPG	Short	Aug '19	TNPCB and Department of Environment, NGOs	4.00	--
	Involvement of school and other academic institution in awareness program.	Mid	Dec '19	TNPCB, DOE, District administration	5.00	--
	Compliance of guidelines on D.G.sets and action against violation	Short	Aug '19	TNPCB and District administration.	--	--
Others	Stop use of diesel generator sets	Mid	Dec '19	TNPCB and District administration.	--	--
	Helpline to oversee non compliances on aforesaid issues	Short	Aug '19	District administration and TNPCB.	--	Public helpline is already existing and operational

V. Thirumangalakudi  
26/8/18  
For Chairman (FAC)

