Action plan on Non Attainment City - Udaipur

Udaipur is situated at Latitude: 24° 34' 16.5720" N & Longitude: 73° 41' 29.5584" Eand Elevation above sea level is 600 meters. According to the latest data of Census India, population of Udaipur in 2011 is 451,100. Udaipur is popularly known as Lake city. Lake Pichola, Fateh Sagar Lake, Udai Sagar and Swaroop Sagar in this city are considered some of the most beautiful lakes in the state. Total no. of vehicles registered as on March, 2017 in Udaipur District with Transport Department is 814490 (Truck: 32623, Bus 6270, Car: 73491, Taxi: 9237, Jeep: 203705, Three Wheeler: 8057, Two Wheeler: 632370, Tractor: 18295, Trailers: 5117, Tempo (Pass) : 3291, Tempo (Goods): 3201 and others: 2167).



The major sources of air pollution in Udaipur are road dust, vehicular Emission, construction and demolition activities, industrial emissions etc. State Board

inspects industries time to time and takes essential measures to control pollution emitted by the Industries. For monitoring ambient air quality in the Udaipur State Board have installed one Continuous Ambient Air Quality Monitoring Station at Court Circle, Udaipur. At the Station Particulate Matter (PM10 and PM2.5), Gaseous pollutants – SO_2 , NOx, O_3 , CO, VOC and NH₃ and Meteorological parameters like Temperature, Relative Humidity, Wind Speed, Wind Direction, Pressure, Solar Radiation etc are measured continuously. Besides it, State Board has also installed 03 Manual Stations under the National Air Quality Monitoring Program at following locations:

- 1. Amba Mata, Udaipur
- 2. Regional Office, Udaipur
- 3. Town Hall, Udaipur

Rajasthan lies in the arid and semi-arid agro-climatic zone of the country and hence presence of dust due to dry climatic conditions coupled with strong hot air movement is common.

Presence of Particulate Matter in the atmosphere goes particularly high during summer months and during winters when the phenomenon of thermal inversion occurs.

As per the available data, level of gaseous pollutants like SO_2 and NO_2 are well within the prescribed limit of 80 micro gram per cubic metre. Due to the dry conditions prevailing over a major part of the year, levels of PM_{10} is found to be in excess of the prescribed limit of 100 micro gram per cubic metre.

ACTION PLAN FOR CONTROL OF AIR POLLUTION IN NON-ATTAINMENT CITIES

Name of the cities:- Udaipur- Rajasthan State. Air Pollution concern: PM₁₀ and PM_{2.5}

Source group	Action Points	Implement ation period	Time Frame for implem entation	Responsible agency(ies)		
	1. Launch extensive drive against polluting vehicles for ensuring strict compliance and regular checking of vehicular emission and issue of PUC certificate	Short Term	April- 2019	Dept. of Transport Traffic Police		
	2.Launch Public awareness campaign for air pollution control, vehicle maintenance, minimizing use of personal vehicle, lane discipline, etc.	Short Term	April- 2019	Dept. of Transport Traffic Police		
	3. Prevent parking of vehicles in the non-designed areas.	Short Term	April 2019	Traffic Police		
	4. Initiate steps for retrofitting of particulate filters in diesel vehicles, when BS-V fuels are available.	Long Term	Dec- 2020	Dept. of Transport		
Vehicle Emission	5. Prepare action plan to check fuel adulteration and random monitoring of fuel quality data.	Short Term	April 2019	Dept. of Food & Supplies		
Control	6. Prepare plan for widening of road and improvement of Infrastructure for decongestion of road.	Mid Term	Dec. 2019	LSG Development Authorities Municipal Corporations UITs in their jurisdiction		
	7. Prepare plan for construction of expressways/bypasses to avoid congestion due to non-destined vehicles	Long Term	Dec. 2019	NHAI PWD		
	8. Steps for promoting battery operated vehicles/ Promotion & operationalisation of E-rickshaw	Short Term	April- 2019	Dept. of Transport		
	9. Install weigh in motion bridge at boarders of cities/towns and States to prevent overloading of vehicles	Long Term	Dec. 2019	NHAI PWD		

	10. Synchronize traffic movements /Introduce intelligent traffic systems for lane-driving.	Long Term	Dec. 2019	Traffic Police
	11.Installation of remote sensor based PUC system	Long Term	Dec. 2019	Traffic Police
	12. Restriction on plying & phasing out of 15 years old commercial diesel driven vehicles.	Long Term	March- 2020	Dept. of Transport
	13. Introduction of cleaner fuel for CNG/LPG vehicles	Long Term	April 2020	Dept. of Transport Food &Supplies
	14. Plan for restriction on the registration on diesel driven Auto-rickshaw & Tempo	Mid Term	Dec. 2019	Dept. of Transport
	15. Monitoring on vehicle fitness	Mid Term	Sept 2019	Dept. of Transport
	16. Periodic calibration test of vehicular emission monitoring instrument	Mid Term	July 2019	Dept. of Transport
	17. Preparation of plan for development Multi level Parking	Long Term	Dec. 2019	UDH Development authorities in their jurisdiction
	1. Prepare plan for green buffers along the traffic corridors.	Mid Term	Sept 2019	NHAI PWD Urban local body
Re-	2.Maintain potholes free roads for free roads for free flow of traffic	Mid Term	Sept 2019	NHAI,PWD, and Urban local body
Suspensio n of Road Dust and Other Fugitive Emission Control	3. Introduce water fountain at major traffic intersection wherever feasible	Mid Term	Sept 2019	Urban local body Development Authorities Municipal Corporations UITs in their jurisdiction
	4. Greening of open areas, gardens, community places, schools and housing societies	Mid Term	Sept 2019	Urban local body Dept of Education

	5. Blacktopping metaled road including pavement of road shoulders.	Mid Term	Sept 2019	NHAI PWD Urban local body	
	6. Widening of roads and construction of pucca footpath along main roads (RIICO Industrial Areas)	Long Term	Dec. 2019	RIICO as per requirement and feasibility	
	7. Regular cleaning of road (RIICO and other areas)	Long Term	March 2020	RIICO UDH	
	8. Tree plantation along the roads (RIICO Industrial Areas)	Long Term	Sept 2019	RIICO	
	1.Launch extensive drive against open burning of bio-mass, garbage, leaves, etc.	Short Term	April 2019	Urban local body	
Control of	2. Regular check and control of burning of municipal solid waste.	Short Term	April 2019	Urban local body	
Emissions from Biomass/C rop Residue/G arbage/Mu nicipal Solid Waste	3. Ensure ban on burning of agriculture waste and crop residues and its implementation	Long Term	Dec. 2019	Department of Agriculture Revenue	
	4. Plan for Construction of advanced waste management Site.	Mid Term	June- 2019	Urban local body	
	5. Restriction on open burning of biomass and plastic	Short Term	Regular activity	RIICO Urban local body	
burning	6. Immediate lifting of solid waste generated from desilting and cleaning of drains for its disposal	Short Term	January 2019	RIICO Urban local body	
	7. Transportation of solid waste, construction material and debris in covered system.	Short Term	April 2019	RIICO Urban local body	
	1. Identification of brick kilns and their regular monitoring including use of designated fuel and closure of unauthorized units.	Mid Term	Sept- 2019	State Pollution Control Board	
Control Of Industrial Emissions	2. Conversion of natural draft brick kilns to induced draft.	Mid Term	Sept- 2019	State Pollution Control Board	
	3. Action against non-complying industrial units.	Short Term	Regular activity	State Pollution Control Board	

	4. Regulation on setting up of new air polluting industries in industrial areas located in urban limits of these 5 cities.	Mid Term	Dec 2019	State Pollution Control Board RIICO	
Control of Air Pollution From	 Enforcement of Construction and Demolition Waste Rules Control measures for fugitive emissions from material handling- conveying and screening operations through water sprinkling, curtains, barriers and dust suppression units. 	Short Term	Regular activity	Urban Local Bodies Development authorities under their jurisdiction	
Constructi on and Demolitio	3. Ensure carriage of construction material in closed / covered vessels.	Short Term	April 2019	Urban Local Bodies RIICO	
n activities	4. Covering of construction sites and Restriction on storage of construction materials along the road	Long Term	March 2020	RIICO Urban local body	
	5. Restriction on storage of construction materials along the road.	Short Term	April 2019	RIICO Urban Local Bodies	
	1. Air Quality Index to be calculated and disseminated to the people through website and other media.(on maximum weekly basis for manually operated monitoring stations and real time basis for continuous monitoring stations)	Short Term	Regular activity	State Pollution Control Board	
Other Steps to control	2. Establish an Air Quality Management Division at SPCB/PCC Head Quarters to oversee air quality management activities in the State and interact CPCB.	Short Term	April 2019	State Pollution Control Board	
Air Pollution	3. Set-up and publicize helpline in each city/town as well as SPCB/PCC HQ for complaints against reported non-compliance	Short Term	April 2019	State Pollution Control Board	
	 Engage with concerned authorities on continual basis for maximizing coverage of LPG /PNG for domestic and commercial cooking with target of 100% coverage. 	Short Term	April 2019	State Govt.	

2. Monitoring of DG sets and action against violations.	Short Term	July 2019	State Pollution Control Board	
3. Involvement of industrial associations in awareness program (RIICO Industrial Areas)	Mid Term	March 2019	RIICO	
4. Development/maintenance of green areas, gardens and parks (RIICO Industrial Areas)	Long Term	Sept 2019	RIICO	

					COMPARATIVE	STATEME	NT						
				Ambient Ai	r Quality Monitor	ring Data	of Udaipur	City					
			YEAR	RLY AVERAGE	LEVEL AT 3 DIFFE	RENT MC	ONITORING	STATIONS					
MONITORING SITES Ambamate Udaipur					Reg	Regional office udaipur				Townhall Udaipur			
S. No.	Year	MC	NTHLY Α\ IN(μg/M		GE Year		MONTHLY AVERAGE IN(µg/M3)		Year	MONTHLY AVERAGE IN(μg/M3)			
		SO2	NO2	PM10		SO2	NO2	PM10		SO2	NO2	PM10	
1	2012	5.1	21.8	121	2012	6.4	36.1	209	2012	6.4	35.2	209	
2	2013	5.4	24.7	115	2013	5.16	22.40	109	2013	6.15	35.30	128	
3	2014	5.3	25.6	87	2014	5.74	34.11	101	2014	5.74	34.11	101	
4	2015	5.5	27.6	113	2015	6.34	36.20	223	2015	5.93	34.51	133	
5	2016	5.7	28.8	103	2016	6.55	35.44	207	2016	6.20	33.90	115	
6	2017	7.3	35.2	98	2017	8.85	39.11	182	2017	7.25	35.16	98	
	AVERAGE	5.7	27.3	106	AVERAGE	6.5	33.9	172	AVERAGE	6.3	34.7	131	

