

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

1. Name of the city –**Amritsar**
2. Air Pollution concern:**PM<sub>10</sub>, SO<sub>x</sub>, & NO<sub>x</sub>**
3. Air pollution levels: Range of 24-hourly average concentration values of PM<sub>10</sub>, SO<sub>2</sub> & NO<sub>x</sub> for the period **2013 to 2017** are enclosed as **Annexure-C**.
4. Months with high air pollution levels:- **January, April and October**
5. Action plan:

Source group**	Action	Implementation period (short / mid / long-term)	Time target for implementation *	Responsible agency(ies)	Any other information
Vehicles	1. Launch extensive drive against polluting vehicles for ensuring strict compliance.	Short Term	Within a week & continue as regular activity	State Transport Authority (STA) & Traffic Police	
	2.Launch Public awareness campaign for air pollution control, vehicle maintenance, minimizing use of personal vehicle, lane discipline, etc.	Short Term	Within a week & continue as regular activity	State Transport Authority(STA)&Traffic Police	
	3. Prevent parking of vehicles in the non-designed areas.	Short Term	Within a week & continue as regular activity	Urban local bodies & Police Dept.	
	4. Initiate steps for retrofitting of particulate filters in diesel vehicles, when BS-V fuels are available.	Mid Term	---	State Transport Authority(STA)	4 no. CNG filling stations are going to be established.
	5. Prepare action plan to check fuel adulteration and random monitoring of fuel quality data.	Short Term	30 Days & continue as regular activity	Representative of Petroleum product distributor companies and Distt Food and Civil Supplies.	
	6. Prepare plan for widening of road and improvement of Infrastructure for decongestion of road.	Long Term	365 days and continue as regular activity	Public works Dept., (PWD) & Urban local bodies	
	7. Prepare plan for construction of expressways / bypass to avoid congestion due to non-destined vehicles.	Long Term	365 days and continue as regular activity	Public works Dept., NHAI & SHAI	

	8. Install weigh in motion bridges at the borders of cities/towns and states to prevent overloading of vehicles.	Long Term	365 days and continue as regular activity	State Transport Authority and Traffic Police	
	9. Synchronise traffic movements /introduce intelligent traffic systems for lane-driving.	Long Term	365 days and continue as regular activity	Traffic Police and Urban Local Body	
	10. Steps for promoting battery operated vehicles.	Long Term	---	State Transport Authority (STA)	
	11. Inspection /maintenance to all BSII & BS III commercial vehicles	Long Term	---	State Transport Authority &Traffic Police	It is regular and continue activity
Road Dust	1. Preparation plan for green buffers along the traffic corridors.	Mid Term	90 Days and continue as regular activity	NHAI,PWD, &Urban local body	
	2.Maintain potholes free roads for free roads for free flow of traffic	Mid Term	90 Days and continue as regular activity	NHAI,PWD, &Urban local body	
	3.Greening of open areas, gardens, community places, schools and housing societies	Mid Term	90 Days and continue as regular activity	Urban local body	MCA in its regular pursuit is developing parks, green belts and community spaces for giving breathing spaces to general public.
	4. Blacktopping metaled road including pavement of road shoulders.	Mid Term	90 Days and continue as regular activity	NHAI,PWD, &Urban local body	
	5. Road design improvement	Mid term	---	NHAI, PWD, & Urban local body	Project is considered under smart city project
	6. Introduce water fountain at major traffic intersection wherever feasible	Mid Term	---	Urban local body	Survey will be conducted for feasibility report and fountains will be installed accordingly.

	7. Wall to wall stabilization of roads	Mid term	Continue as regular activity	Urban Local Bodies	Roads are being identified. Wall to wall stabilization will be executed by proper means.
Biomass and garbage burning	1.Launch extensive drive against open burning of bio-mass, crop residue, garbage, leaves, etc.	Short Term	90 Days and continue as regular activity	Urban local body	Burning of leaves and garbage is totally prohibited and challans are issued when anybody is found to be doing so.
	2. Regular check and control of burning of municipal solid waste.	Short Term	90 Days and continue as regular activity	Urban local body	Burning of municipal solid waste is totally prohibited in M.C., Asr. and each employee is instructed not to do such activities and if anyone is found to do such, necessary disciplinary action is taken against him or her.
	3. Proper collection of horticulture waste (bio-mass) and its disposal following composting-cum-gardening.	Short Term	90 Days and continue as regular activity	Urban local body	In this regard Municipal Corporation, Amritsar has constructed seven honey combs composting pits in 7 major parks and horticulture waste/Biomass are processed through Bio-Composting.
	4. Construction of advanced waste management Site.	Long Term	1 year	Urban local body	Municipal Corporation, Amritsar had

					signed agreement for developing waste management site with M/S Amritsar MSW Ltd. In this regard concessionaire will install waste to energy plant and develop SLF (Scientific Land Fill) and Bio remediation of existing dumping site.
Industries	1. Identification of brick kilns and their regular monitoring including use of designated fuel and closure of unauthorized units.	Mid Term	60 Days and continue as regular activity	State Pollution Control Board	All the brick kiln owner are being pursued and guided to use best fuel practices and not to use unauthorized fuel
	2. Conversion of natural draft brick kilns to induced draft.	Long Term	By 31.12.2018	State Pollution Control Board	
	3. Action against non-complying industrial unites	Mid Term	Within one month and continue as regular activity	State Pollution Control Board	
	4. Promoting cleaner production in industries.	Mid Term	---	State Pollution Control Board	It is regular and continuous activity
	5. Fugitive emission control	Mid Term	---	State Pollution Control Board	It is regular and continuous activity
	6. Installation/ upgradation of air pollution control system	Mid Term	---	State Pollution Control Board	It is regular and continuous activity
Construction and Demolition activities	1. Enforcement of Construction and Demolition Waste Rules	Mid Term	Within three month and continue as regular activity	Urban Local Bodies	It is regular and continuous activity

	2. Control measures for fugitive emissions from material handling-conveying and screening operations through water sprinkling, curtains, barriers and dust suppression units.	Mid Term	---	Urban Local Bodies	It is regular and continuous activity
	3. Ensure Carriage of construction material in closed / covered vessels.	Mid Term	---	State Pollution Control Board, Urban Local Bodies	It is regular and continuous activity
Other Steps	1. Air Quality Index to be calculated and disseminated to the people through website and other media.	Mid Term	Within one month and continue as regular activity	State Pollution Control Board	I no. CAQMMS station is being installed at Amritsar
	2. Engage with concerned authorities on continual basis for maximizing coverage of LPG /PNG for domestic and commercial cooking with target of 100% coverage.	Long Term	----	State Govt/Central Govt	
	3. Monitoring of DG sets and action against violations.	Mid Term	Within three month and continue as regular activity	State Pollution Control Board, Urban Local Bodies	
	4. Banning of 10 years old commercial vehicles	Long term	-	Transport Ministry	The matter may be taken with the Transport ministry for the banning of 10 year old commercial vehicles
	5. Sulphur reduction in diesel	Long Term	-	Ministry of Petroleum	The matter may be taken with the Ministry of Petroleum to issue guidelines and norms of refineries in reference for amendment in sulphur standards
<p>* Time target for implementation taken from action plan submitted by another non-attainment city, for your reference. Kindly modify according to your city in consultation with respective stakeholders.</p> <p>** Source group is based on local understanding, in future this may be strengthened with emission inventory/source apportionment</p>					