

**Jalgaon City  
Air Pollution Control  
Action Plan**

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

**JALGAON**



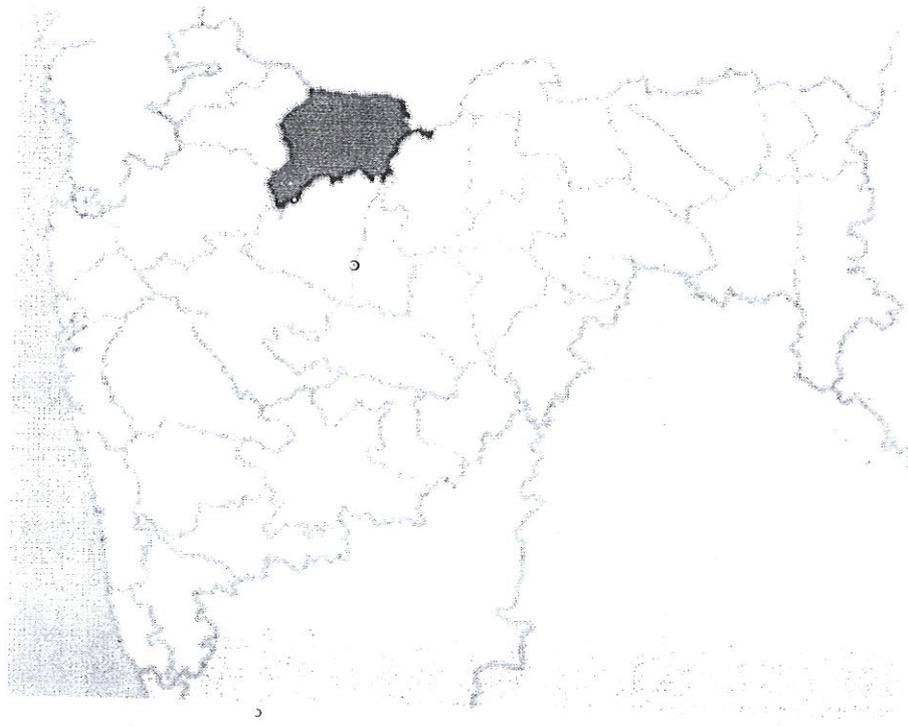
**MAHARASHTRA POLLUTION CONTROL BOARD**

**KALPATARU POINT, 3<sup>rd</sup> Floor,  
Sion-Matunga Scheme Rd. No.8,  
Opp. Sion Circle, Sion (East),  
Mumbai-400 022.**

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

1. Preamble:

The Jalgaon city is a district headquarter in Nasik Revenue Division of Maharashtra State. The Jalgaon city is located on 21° 01' North latitude and 75° 34' east longitude. It is 420 kms away from Mumbai, the capital of Maharashtra and 413 kms from Nagpur. It is an important railway junction of central railway having a height of 201 meters from mean sea level. The Dhule-Nagpur National Highway No.6 passes through city. It covers an area about 68.29 sq. kms. The physiography of city is very typical because it is formed by the Deccan lavas with residual hill ranges and broad valleys with small hillocks. The river Gima flowing from south to north direction from western boundary of city. The climate of the city is generally dry except in the monsoon. According to 2001 census, the population of Jalgaon city was 3,68,579 persons, out of which 52.49 per cent are males and 47.51 per cent are females. The study region has 58 wards in 1991 but it reduced in 2001 up to 55 wards. Now Jalgaon is one of the important industrial, commercial, transportation and educational centre of Maharashtra. It is also a focal point of economic, cultural, social and administrative activities of North Maharashtra.



Location of Jalgaon District in State of Maharashtra

2. Ambient Air Quality Monitored at Jalgaon:

Jalgaon - Old B. J. Market

Table: Data for Monthly average reading recorded at Old B. J. Market

Station Name	year	Month	Average of SO <sub>2</sub>	Average of NO <sub>x</sub>	Average of RSPM	
Old B. J. Market	2017		50	40	60	
		Apr	14	35	93	
		May	14	34	89	
		Jun	12	33	95	
		Jul	12	34	73	
		Aug	11	26	67	
		Sep	11	26	69	
		Oct	12	26	69	
		Nov	13	28	61	
		Dec	14	30	57	
		2018	Jan	14	34	60
			Feb	13	33	64
	Mar		13	33	71	

Figure: Monthly average reading recorded at Old B. J. Market

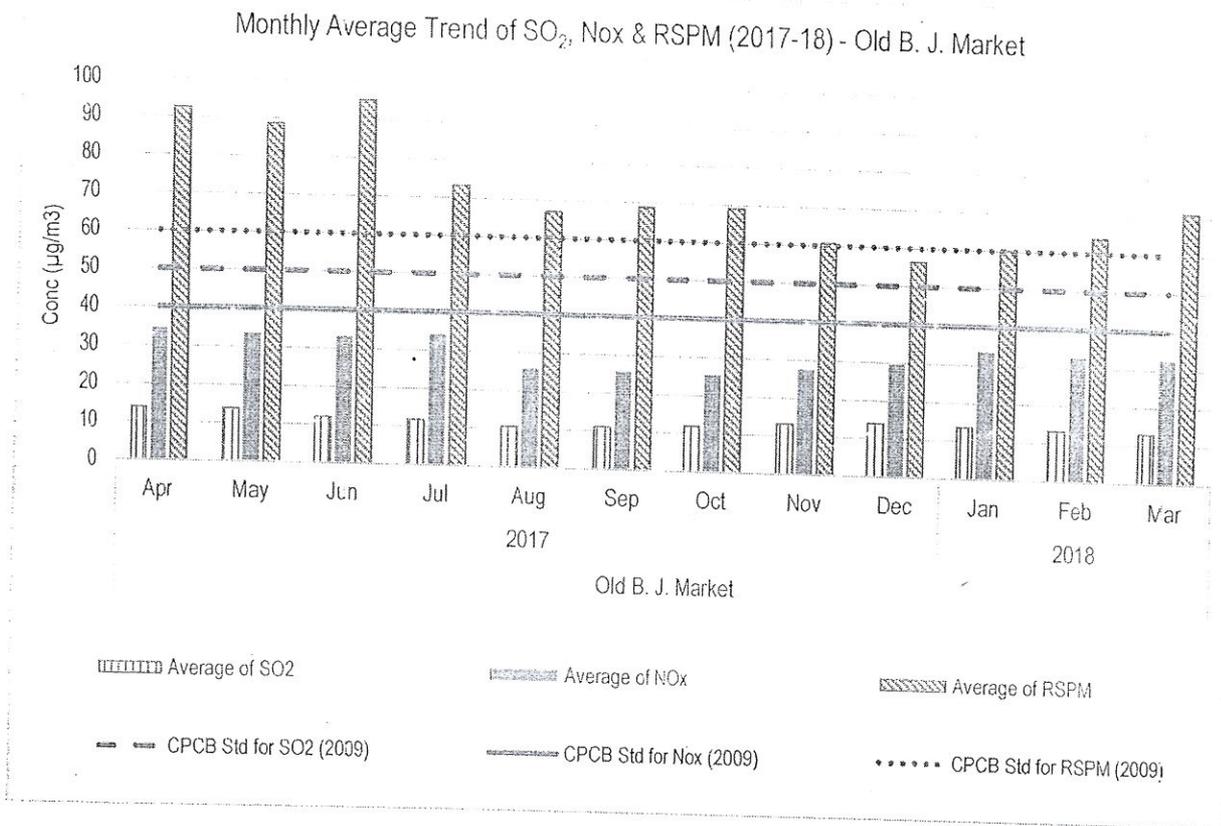


Table: Data for Annual average trend of SO<sub>2</sub>, NO<sub>x</sub>, and RSPM at Old B. J. Market

Station Name	year	Average of SO <sub>2</sub>	Average of NO <sub>x</sub>	Average of RSPM
		50	40	60
Old B. J. Market	08-09	14	48	117
	09-10	15	45	109
	10-11	18	45	122
	11-12	16	43	111
	12-13	18	44	123
	13-14	19	41	118
	14-15	18	42	111
	15-16	14	38	108
	16-17	14	36	96
	17-18	13	30	72

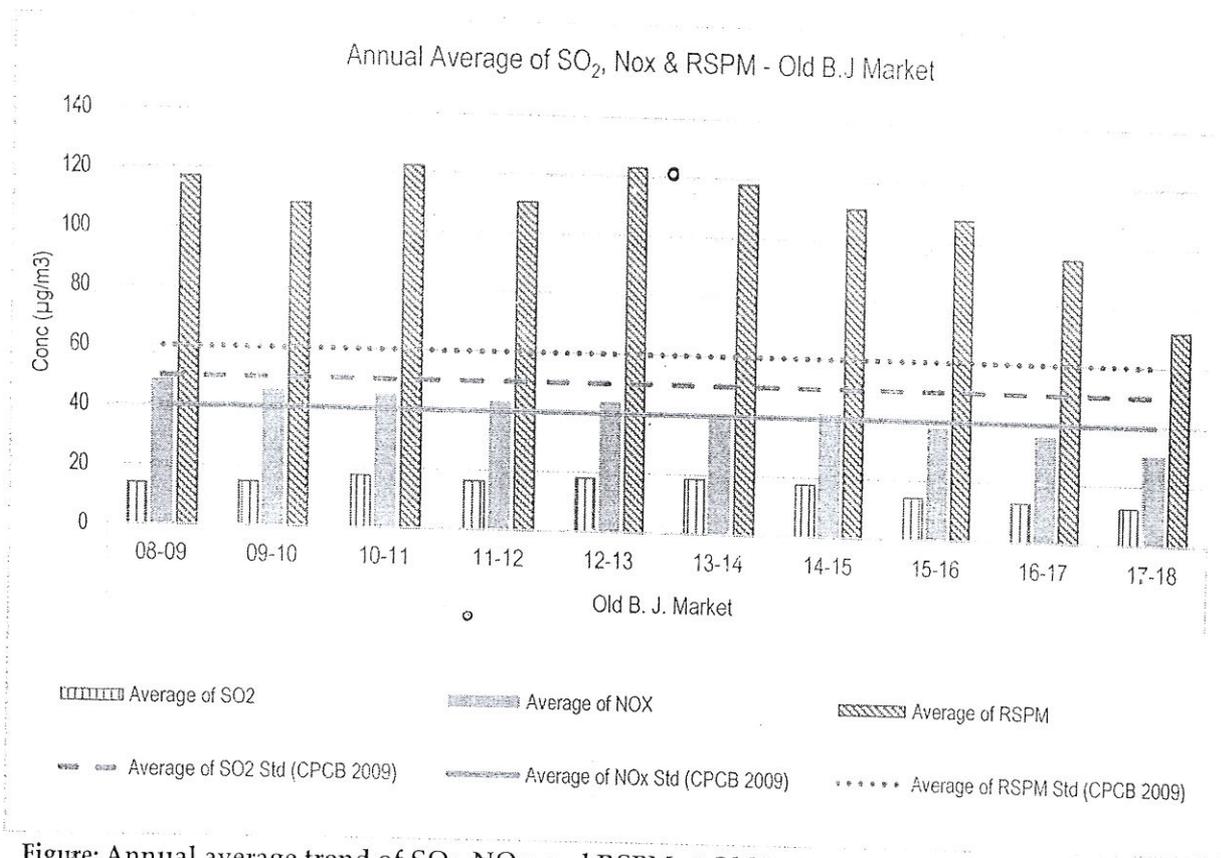


Figure: Annual average trend of SO<sub>2</sub>, NO<sub>x</sub>, and RSPM at Old B. J. Market

# Jalgaon - Girna Water Tank

Table: Data for Monthly average reading recorded at Girna Water Tank

Station Name	year	Month	Average of SO <sub>2</sub>	Average of NO <sub>x</sub>	Average of RSPM
Girna Water Tank	2017		50	40	60
		Apr	14	34	89
		May	14	34	82
		Jun	11	32	92
		Jul	11	27	66
		Aug	9	26	64
		Sep	10	23	58
		Oct	12	25	68
		Nov	12	26	61
	Dec	13	28	59	
	2018	Jan	13	32	65
		Feb	13	32	65
		Mar	12	33	64

Monthly Average Trend of SO<sub>2</sub>, Nox & RSPM (2017-18) - Girna Water Tank

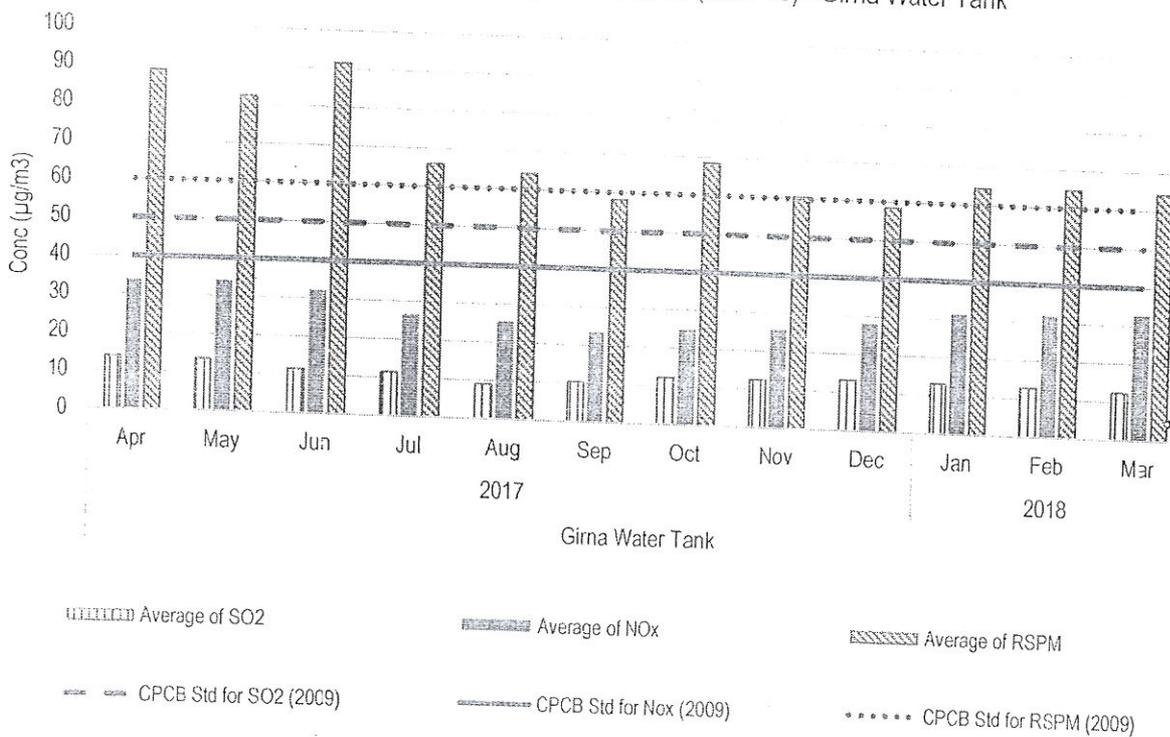


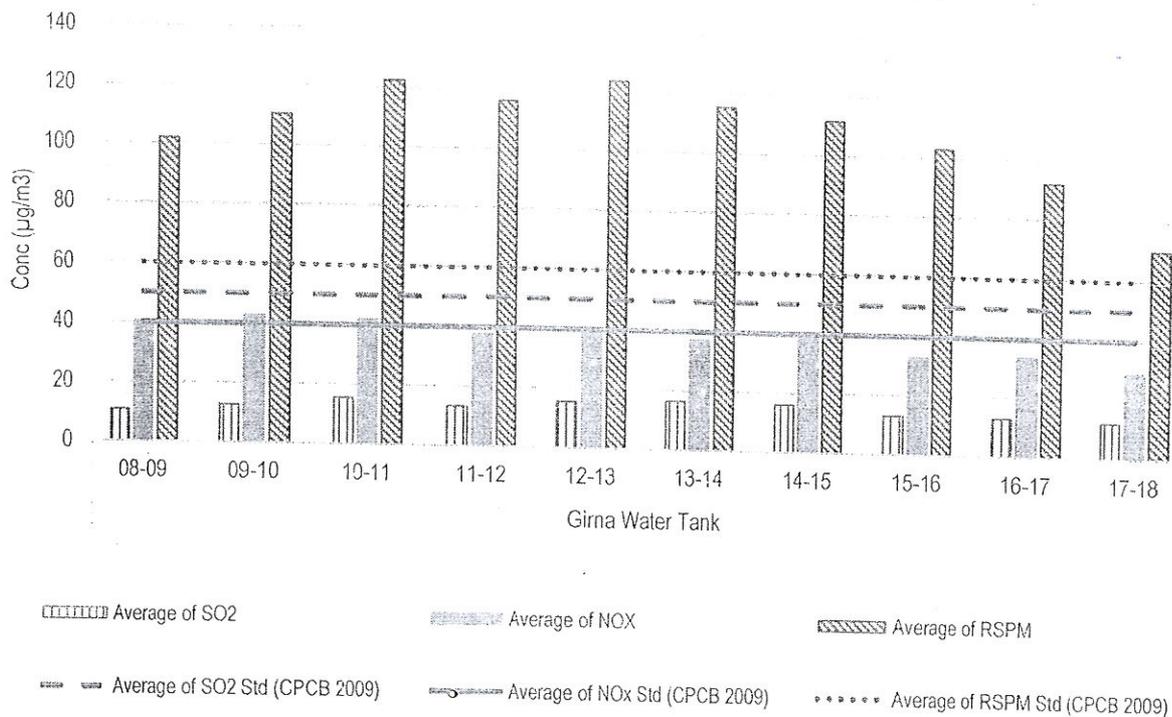
Figure: Monthly average reading recorded at Girna Water Tank

**Table: Data for Annual average trend of SO<sub>2</sub>, NO<sub>x</sub>, and RSPM at Girna Water Tank**

Station Name	year	Average of SO <sub>2</sub>	Average of NO <sub>x</sub>	Average of RSPM
		50	40	60
Girna Water Tank	08-09	11	40	102
	09-10	13	43	110
	10-11	16	42	122
	11-12	13	38	116
	12-13	16	40	124
	13-14	17	37	116
	14-15	16	39	112
	15-16	13	33	103
	16-17	13	34	92
	17-18	12	29	70

**Figure: Annual average trend of SO<sub>2</sub>, NO<sub>x</sub>, and RSPM at Girna Water Tank**

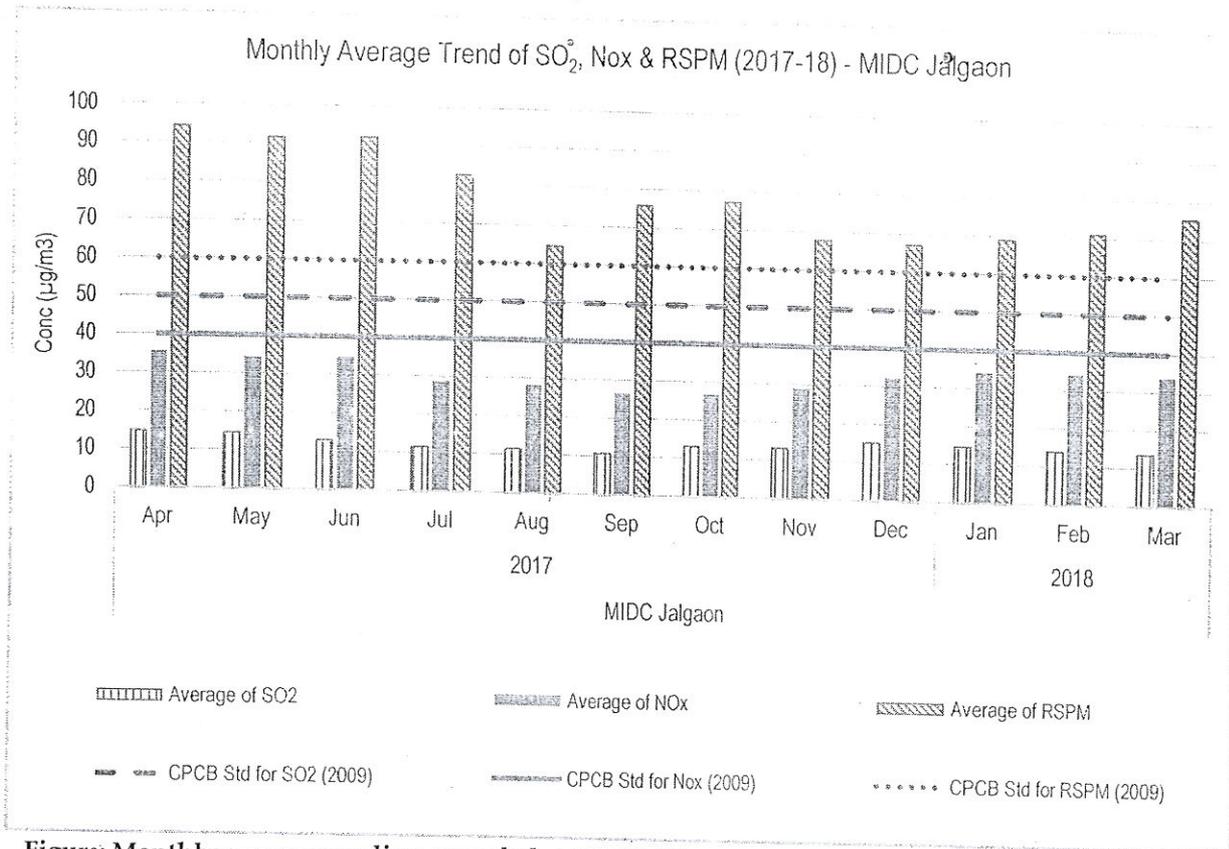
Annual Average of SO<sub>2</sub>, Nox & RSPM - Girna Water Tank



# Jalgaon - MIDC Jalgaon

**Table: Data for Monthly average reading recorded at MIDC Jalgaon**

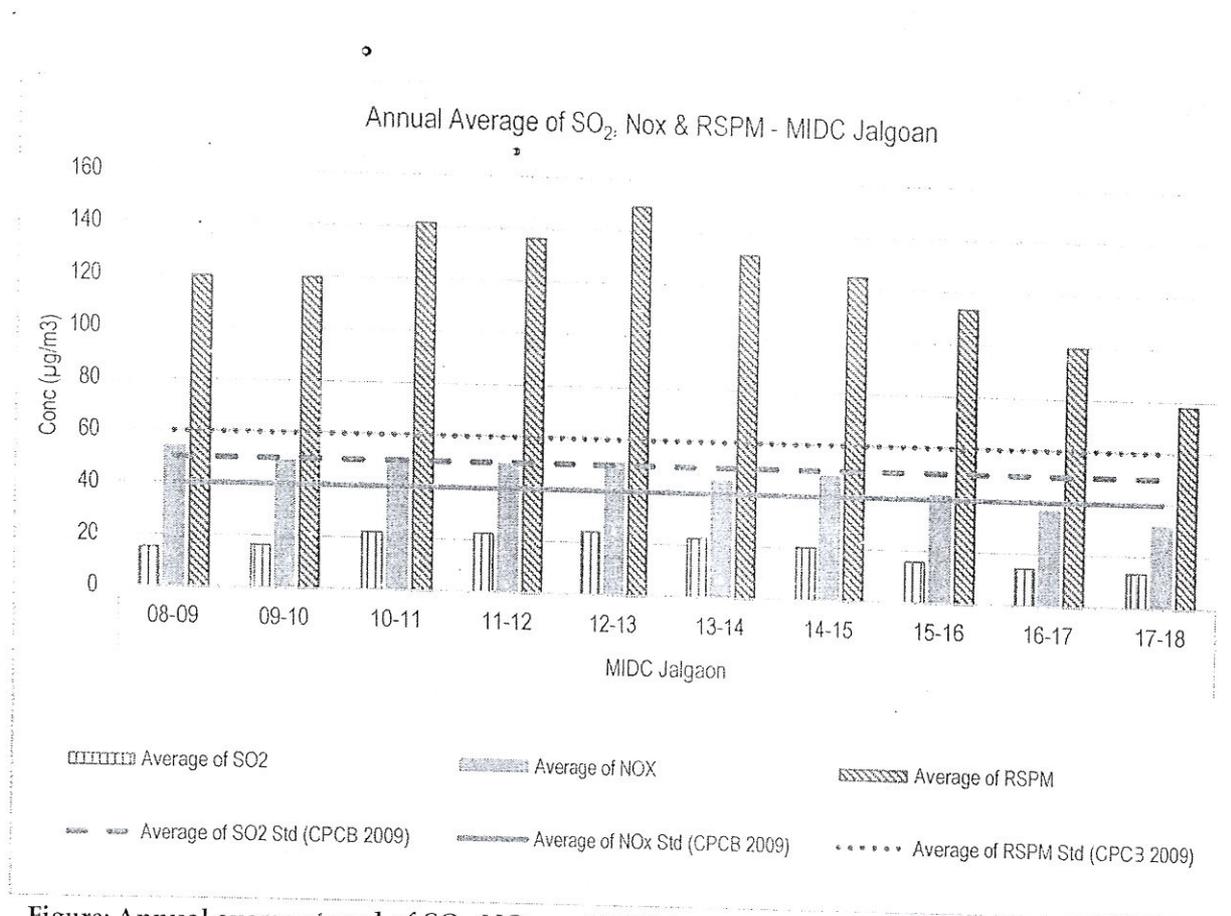
Station Name	year	Month	Average of SO <sub>2</sub>	Average of NO <sub>x</sub>	Average of RSPM	
MIDC Jalgaon	2017		50	40	60	
		Apr	15	36	94	
		May	14	34	92	
		Jun	13	35	92	
		Jul	12	29	83	
		Aug	11	28	65	
		Sep	11	27	76	
		Oct	13	27	77	
		Nov	13	29	68	
		Dec	15	32	67	
		2018	Jan	15	34	69
			Feb	14	34	71
	Mar		14	34	76	



**Figure: Monthly average reading recorded at MIDC Jalgaon**

**Table: Data for Annual average trend of SO<sub>2</sub>, NO<sub>x</sub>, and RSPM at MIDC Jalgaon**

Station Name	year	Average of SO <sub>2</sub>	Average of NO <sub>x</sub>	Average of RSPM
MIDC Jalgaon		50	40	60
	08-09	15	54	120
	09-10	16	49	120
	10-11	22	51	142
	11-12	22	49	137
	12-13	24	51	150
	13-14	23	45	132
	14-15	20	48	125
	15-16	16	41	114
	16-17	14	37	100
17-18	13	32	78	



**Figure: Annual average trend of SO<sub>2</sub>, NO<sub>x</sub>, and RSPM at MIDC Jalgaon**

### **3. Monitoring Mechanism for Implementation**

The aforesaid action plan shall be implemented by Maharashtra State Pollution Control Board with coordination of concern departments/stakeholders.

### **4. Implementation status**

The Chief Secretary, Govt. of Maharashtra to convene the meetings with different concerned departments and direct for compliance of directions for implementation of air quality of Amravati. The Principal Secretary, Environment and Forest, Govt. of Maharashtra to also convene the meeting for follow up of the aforesaid directions. The Maharashtra Pollution control Board continuously conducted the meetings with all stakeholders for preparation of comprehensive action plan for city and its implementation.

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

Name of the city - Jalgaon

Air pollution concerns - PM<sub>10</sub>, PM<sub>2.5</sub>, NO<sub>2</sub>

Air pollution levels - Details sheet attached separately\*

Months with high air pollution levels - Details sheet attached separately\*

Source group	Control option	Expected reduction and impacts	Technical feasibility	Requirement of financial resources	Implementation period (short / mid / long term)	Time target for implementation	Responsible agencies
Air emission control	Prepared a plan for construction of highway bypass away from city to avoid congestion due to heavy vehicles. for this, now concern department also initiate a land acquisition processes.	High	-	-	Long term	2017-2020	Public work department, Jalgaon city municipal corporation, Jalgaon
Vehicle emission control	Steps for promoting battery operated vehicles & public awareness campaign	High	-	-	Short term	2017-2018	Regional transport office, Jalgaon
Vehicle emission control	By following intelligent traffic systems for lane driving by using CCTV surveillance at major traffic junctions	High	-	-	Long term	2017-2020	Traffic branch, jalgaon and Public work department, Jalgaon city municipal corporation, Jalgaon
Vehicle emission control	Prepare plan for fixing timers at all traffic junctions	High	-	-	Mid term	2017-2019	Traffic branch, jalgaon and Public work department, Jalgaon city municipal corporation, Jalgaon
Vehicle emission control	Launch extensive drive against polluting vehicles for ensuring strict compliance	High	-	-	Short term	2017-2018	Traffic branch, jalgaon
Vehicle emission control	Launch public awareness campaign for air pollution control, vehicle maintenance, minimizing of personal vehicles and using public transport, lane discipline etc.	High	-	-	Short term	2017-2018	Traffic branch, jalgaon

Source group	Control option	Expected reduction and impacts	Technical feasibility	Requirement of financial resources	Implementation period (short / mid / long term)	Time target for implementation	Responsible agencies
Local emission control	Prevent parking of vehicles in the non-designated areas	Medium			Short term	2017-2018	Encroachment department, Jalgaon city municipal corporation, Jalgaon
Local emission control	Prepare action plan to check fuel adulteration and random monitoring of fuel quality data	Medium			Short term	2017-2018	Traffic branch, Jalgaon and Regional transport office, Jalgaon
Local emission control	Installation of remote sensor based PUC system	Medium			Long term	2017-2019	Traffic branch, Jalgaon and Regional transport office, Jalgaon
Local emission control	Prepare plan for widening of road and improvement of infrastructure for decongestion of roads	Medium			Long term	2017-2021	Town planning department, Jalgaon city municipal corporation, Jalgaon
Local emission control	Prepare plan for creation of green buffers along the traffic corridors	High			Short term	2017-2018	Environment department, Jalgaon city municipal corporation, Jalgaon
Local emission control	Greening of open areas, gardens, community places, schools and housing societies	High			Mid term	2017-2020	Environment department and Town planning department, Jalgaon city municipal corporation, Jalgaon
Local emission control	Improvement of maintaining potholes free roads for free-flow of traffic	High			Long term	2017-2020	Public work department, Jalgaon city municipal corporation, Jalgaon

Source group	Control option	Expected reduction and impacts	Technical feasibility	Requirement of financial resources	Implementation period (short / mid / long term)	Time target for implementation	Responsible agencies
Re-suspension of road dust	Prepare plan for fixing water fountain at major traffic intersection	High			Long term	2017-2020	Public work department, Jalgaon city municipal corporation, Jalgaon
Re-suspension of road dust	Blacktopping of WBM road	High			long term	2017-2020	Public work department, Jalgaon city municipal corporation Jalgaon
Control of emissions from household and waste burning	Launch extensive drive against open burning of biomass, crop residue, garbage, leaves etc.	High			Short term	2017-2018	Health department, Jalgaon city municipal corporation, Jalgaon
Control of emissions from municipal solid waste burning	Regular check and control of burning of municipal solid waste	High			Short term	2017-2018	Health department, Jalgaon city municipal corporation, Jalgaon
Control of industrial emissions	Action against non-complying industrial units	High			Short term	2017-2018	Maharashtra industrial development corporation, Jalgaon
Control of air pollution from construction and demolition activities	Ensure carriage of construction materials in closed / covered vessels	High			Short term	2017-2018	Traffic branch, Jalgaon and Regional transport office, Jalgaon
Control of air pollution from construction and demolition activities	Enforcement of constructions and demolition rules	High			Short term	2017-2018	Town planning department, Jalgaon city municipal corporation, Jalgaon

Source group	Control option	Expected reduction and impacts	Technical feasibility	Requirement of financial resources	Implementation period (short / mid / long term)	Time target for implementation	Responsible agencies
Control of air pollution from construction and demolition activities	Control measures for fugitive emissions from material handling, conveying, emissions from material handling, conveying and screening operations through water sprinkling, curtains, barriers and dust suppression units	Medium			Short term	2017-2018	Town planning department, Jalgaon city municipal corporation, Jalgaon
Control of air pollution	Engage with concerned authorities on continual basis for maximizing coverage of LPG/PNG for domestic and commercial cooking with target of 100% coverage	High			Mid term	2017-2019	Maharashtra pollution control board, Jalgaon
Control of air pollution	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 station (i)	Medium			Mid term	2017-2019	Maharashtra pollution control board, Jalgaon
Control of air pollution	Establish an air quality management division at SPCB/PCC head quarters to oversee air quality management activities in the state and interact with CPCB	Medium			Mid term	2017-2019	Maharashtra pollution control board, Jalgaon
Control of air pollution	Set-up and publicize helpline in each city / town as well as SPCB / PCC head quarters for complaints against reported non-compliance	Medium			Mid term	2017-2019	Maharashtra pollution control board, Jalgaon

  
City Engineer

Jalgaon city municipal corporation, Jalgaon