

**ACTION PLAN**

**FOR**

**THE CONTROL OF AIR POLLUTION**

**IN**

**ANPARA**



**REGIONAL OFFICE**  
**U.P. POLLUTION CONTROL BOARD**  
**HOUSE No.162, UTTAR MOHAL, ROBERTSGANJ**  
**SONBHADRA - 231216**

## 1.INTRODUCTION

Anpara is a city in Myorpur Block in Sonbhadra District of Uttar Pradesh State, India. It belongs to Mirzapur Division. It is located 71 Km towards South from District head quarters Robertsganj. 33 KM from Myorpur. 403 Km. from State capital Lucknow. Parasi (3 Km) , Kakari (4 Km) , Kuldomari (4 Km) , Garabandha (5 Km) , Basi (6 Km) are the nearby Villages to Anpara. Anpara is surrounded by Myorpur Block towards East , Waidhan Block towards west , Obra Block towards North , Chitrangi Block towards North . Coordinates: 24.206°N 82.765°E Singrauli , Renukoot , Obra , Kota are the nearby cities to Anpara.

## 2. ACTION TAKEN BY THE BOARD

Board has issued directions to Principal Secretary Urban Development, Principal Secretary Forests, Principal Secretary Transport, Principal Secretary Agriculture, Managing Director Central U.P. Gas Ltd., Managing Director Indraprastha Gas Ltd, and Managing Director Green Gas Ltd. under section 31 (A) of the Air (Prevention and Control of Pollution) Act, 1981 regarding prevention and control of air pollution in Anpara city on dated 05.09.2016 in compliance of directions issued by Central Pollution Control Board, Delhi under section 18(1) (b) of the Air (Prevention and Control of Pollution) Act, 1981. Board has also issued directions under section31(A) of the Air (Prevention and Control of Pollution) Act, 1981 as amended regarding prevention and control of air pollution in Anpara city on dated 14.11.2017.

Ambient Air is being monitored regularly by the Board. At source emission monitoring i.e. stack monitoring of industries is also being done regularly and action is being taken accordingly on the basis of analysis report. If any industry is found violating the standards firstly show-cause notice is issued to the industry followed by closure under Air (Prevention and Control of Pollution) Act, 1981.

## 3. ANNUAL AVERAGE DATA OF AMBIENT AIR QUALITY PM<sub>10</sub> (µg/m<sup>3</sup>) OF Anpara CITY (YEAR 2013-2018)

U.P. Pollution Control Board is monitoring ambient air quality of Anpara city manually at 02 locations viz. Anpara colony and Renusagar colony for PM<sub>10</sub>, SO<sub>2</sub> and NO<sub>2</sub> parameters. Annual Average data of Ambient Air Quality particularly PM<sub>10</sub> (Particulate Matter size less than 10 microns) were observed during the year 2013-18 are as given below.

S.No.	Name of Location	Category	2013	2014	2015	2016	2017	2018
1	Anpara colony	Residential	125.8	128.6	130.2	133.3	173.2	201.90
2	Renusagar colony	Residential	133.6	133.4	133.3	133.2	144.5	172.72
	STANDARD (annual average)	60 µg/m <sup>3</sup>						

Air pollution has been viewed seriously by the Hon'ble Supreme Court, Hon'ble High Court & Hon'ble National Green Tribunal and issued specific directions from time to time for the improvement the air Quality of the city. Central Pollution Control Board has also issued direction under section 18 (1) (b) of the Air (Prevention & control of pollution) Act 1981, regarding prevention, control or abatement of Air pollution in various cities of Uttar Pradesh. Action taken by the Board Ambient Air is being monitored regularly by the Board. At source emission monitoring i.e. stack monitoring of industries is also being done regularly and action is being taken accordingly on the basis of analysis report. If any industry is found violating the standards firstly show-cause notice is issued to the industry followed by closure under Air (Prevention and Control of Pollution) Act, 1981.

#### 4. SOURCES OF POLLUTION IN ANPARA

The main sources of air pollution in Anpara are Vehicular, Road dust, Construction & Demolition activities, Thermal power plants, Garbage burning & Agriculture waste burning etc. Data obtained from Manual monitoring under National Ambient Monitoring Programme (NAMP) (2018) at Anpara showed values of NO<sub>2</sub> 27.59(µg/m<sup>3</sup>) and SO<sub>2</sub> 18.20 (µg/m<sup>3</sup>) at Anpara colony and ; NO<sub>2</sub> 29.33(µg/m<sup>3</sup>) and SO<sub>2</sub> 18.06 (µg/m<sup>3</sup>) at Renusagar colony.

### 5. Short term & Long term Action Plan

#### (A) Vehicle emission control

##### (a)Long Term Action Plan: Reduce congestion

Sl. No	Action Points	Timeframe for implementation	Action Required to be Taken by Responsible Departments
i	Plying of electric buses for public transport including establishment of sufficient charging stations.	360 days	Transport Department
ii	Prepare plan for construction of expressways/bypasses to avoid congestion due to non-destined vehicles.	360 days	N.H.A.I. /PWD
iii	Construction of peripheral road around the city to avoid congestion.	360 days	N.H.A.I./PWD
iv	Arrangement of Multilevel Parking Facilities	360 days	Nagar Nigam/Development Authorities
vi	Development/Strengthening of Bike zone/Cycle zone at metro/railways/bus stations from where travelers hire bi-cycle to reach the destination.	360 days	Nagar Nigam/Development Authorities

vii	Initiate steps for retrofitting of particulate filters in diesel vehicles, when BS-VI fuels are available	360 days	Vehicle Manufacturing Companies/Ministry of Road Transport & Highways (MoRTH)
viii	Use of Bio-Ethanol in the city/urban transport system/waste to energy.	360 days	Transport Department
<b>(b) Short Term Action Plan</b>			
<b>Sl. No</b>	<b>Action Points</b>	<b>Timeframe for implementation</b>	<b>Action Required to be Taken by Responsible Departments</b>
i	Launch extensive drive against polluting vehicles for ensuring strict compliance	As regular activity	R.T.O/Traffic Police
ii	Launch public awareness campaign for air pollution control, vehicle maintenance, minimizing use of personal vehicles, lane discipline, etc.	As regular activity	R.T.O/ Traffic Police
iii	Prevent parking of vehicles in the non-designated areas	As regular activity	Traffic Police/ Nagar Nigam
iv	Prepare & implement action plan to check fuel adulteration and random monitoring of fuel quality data	30 days	District Supply Officer/Oil companies
v	Prepare & implement plan for widening of roads and improvement of infrastructure for decongestion of road	90 days	Nagar Nigam
vi	Steps for promoting battery operated vehicles including establishment of charging stations.	120 days	Transport Department/Nagar Nigam & Development Authorities
vii	Install weigh in motion bridges at the borders of cities/towns and States to prevent overloading of vehicles	180 days	Transport Department
viii	Synchronize traffic movements/Introduce intelligent traffic systems for lane-driving	180 days	Traffic Police
ix	Installation of remote sensor based PUC system	180 days	Traffic Police

**(B) Suspension of road dust and other fugitive emissions control**  
**(a) Long Term Action Plan**

<b>Sl. No.</b>	<b>Action Points</b>	<b>Timeframe for implementation</b>	<b>Action Required to be Taken by Responsible Departments</b>
i)	Implementation of maintaining at least 33% forest cover area in the city in master plan.	360 days	Nagar Palika Parishad, Sonbhadra /SADA/Forest Department
ii)	All the canals/nullah's side roads should be brick lined. Proper plantation also carried out.	360 days	Irrigation Department/ Forest department

**(b) Short Term Action Plan**

<b>Sl. No.</b>	<b>Action Points</b>	<b>Timeframe for implementation</b>	<b>Action Required to be Taken by Responsible Departments</b>
i)	Prepare plan for creation of green buffers along the traffic corridors. Plantation of specific types of species of plants which are helpful in pollution control.	90 days	Forest Department/Nagar Nigam & Development Authorities
ii)	Maintain potholes free roads for free-flow of traffic	90 days & as regular activity afterwards.	Nagar Palika Parishad, Sonbhadra
iii)	Introduce water fountains at major traffic intersection, wherever feasible	90 days and thereafter continue as regular activity	Nagar Palika Parishad, Sonbhadra
iv)	Greening of open areas, gardens, community places, schools and housing societies	90 days	Forest Department
v)	Blacktopping of metalled road including pavement of road shoulders	180 days	Nagar Palika Parishad, Sonbhadra
vi)	Use of treated effluent of STPs in Pollution Control Measure such as watering of Plants,	90 days	Nagar Palika Parishad,

	sprinkling for dust suppression purposes.		Sonbhadra
<b>vii)</b>	Wall to Wall pavement for control of dust from road. Design the footpath pavement/tiles having capacity to grow grass in between.	180 days and thereafter continue as regular activity	Nagar Palika Parishad, Sonbhadra
<b>viii)</b>	Strict enforcement of supply of coal to the thermal power stations and industries by railway wagons only	60 days and thereafter as regular activity	RTO/Police/Coal companies

**(C) Control of emissions from biomass/crop residue/garbage/municipal solid waste burning**

<b>Sl. No.</b>	<b>Action Points</b>	<b>Timeframe for implementation</b>	<b>Action Required to be Taken by Responsible Departments</b>
<b>i)</b>	Launch extensive drive against open burning of bio-mass, crop residue, garbage, leaves, etc.	90 days and thereafter continue as regular activity	Nagar Palika Parishad, Sonbhadra
<b>ii)</b>	Regular check and control of burning of municipal solid wastes		Nagar Palika Parishad, Sonbhadra
<b>iii)</b>	Proper collection of horticulture waste (bio-mass) and its disposal following composting-cum-gardening approach		Nagar Palika Parishad, Sonbhadra
<b>iv)</b>	Ensure ban on burning of agriculture waste and crop residues and its implementation	180 days	Agriculture Department & U.P. Pollution Control Board
<b>v)</b>	Door to Door collection of segregated waste by agency and then its disposal directly in plant without dumping it on land.	90 days	Nagar Palika Parishad, Sonbhadra
<b>vi)</b>	Establishment of composting pits in Parks/ residential societies etc for management of biodegradable waste.	90 days	Nagar Palika Parishad, Sonbhadra /SADA

<b>vii)</b>	No plot should be left open more than 02 years and planting of trees must be mandatory on vacant plots..	90 days	Nagar Palika Parishad, Sonbhadra /SADA
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**(D) Control of industrial emissions**

<b>Sl. No.</b>	<b>Action Points</b>	<b>Timeframe for implementation</b>	<b>Action Required to be Taken by Responsible Departments</b>
i)	Establishment of online emission monitoring equipments in the stacks of the industries (Thermal Power Stations). Connect it to server of CPCB & SPCB)	180 days	UPRVUNL Anpara A, B & D Lanco Anpara Power Co., HINDALCO Power Div.
ii)	Up gradation of Electrostatic Precipitators installed in the Thermal Power Stations in order to bring PM emission concentration below 100mg/M <sup>3</sup>	180 days	UPRVUNL Anpara A, B & D Lanco Anpara Power Co., HINDALCO Power Div.
iii)	Ensure supply of beneficiated coal having ash content below 34% to the power stations on quarterly average basis	60 days	Northern Coal Fields Ltd., Khadia, Bina, Krishnashila, Kakri & Duddichua.
iv)	Engage a third party to check the ash content in the coal	60 days, and thereafter, as regular activity	Northern Coal Fields Ltd., Singrauli, M.P. UPRVUNL Anpara A, B & D Lanco Anpara Power Co., HINDALCO Power Div.
v)	Monitoring of industrial emission including real time online monitoring through OCEMS (Online Continuous Emission Monitoring System) and live camera feed to take action against non-complying industrial units.	60 days, and thereafter, regular activity	U.P. Pollution Control Board
vi)	Bank guarantee should be taken for the compliance of conditions imposed in CTO/CTE for control of Environmental Pollution from industries. The bank guarantee shall be forfeited in case of any	60 days, and thereafter, regular activity	U.P. Pollution Control Board

	violation. Verification of these conditions to be carried out by UPPCB/selected Third Party Institutions/Quality control agencies etc.		
vii)	Installation of web cams and OCEMS in Grossly Polluting Industries.	60 days	U.P. Pollution Control Board

**(E) Control of air pollution from constructions and demolition activities**

<b>Sl. No.</b>	<b>Action Points</b>	<b>Timeframe for implementation</b>	<b>Action Required to be Taken by Responsible Departments</b>
i)	Enforcement of Construction & Demolition Rules 2016. Fine should be imposed on defaulting units.	15 days , and thereafter, continue as regular activity	Urban Development/Development Authorities
ii)	Control measures for fugitive emissions from material handling, conveying and screening operations through water sprinkling, curtains, barriers and dust suppression units;		Urban Development/Development Authorities
iii)	Ensure carriage of construction material in closed/covered vessels		Development authorities/ Regional Transport Department
iv)	Environmental aspects should be included during preparation of master plan for development of city.	Within a reasonable timeframe	Urban Development/Development Authorities
v)	Builders should leave 33% area for green belt in residential colonies. Plantation should be done as per Office order No. H16405/220/2018/02 dated 16.02.2018 available on website of the Board .i.e.,www.uppcb.com.	Within a reasonable timeframe	Urban Development/Development Authorities/ housing companies
vi)	All construction areas must be covered to avoid dispersion of particulate matter	30 days	Nagar Nigam /Development Authorities



**(F) Other Steps to control Air Pollution****(a) Long Term Action Plan**<sup>(G)</sup>

<b>Sl. No.</b>	<b>Action Points</b>	<b>Timeframe for implementation</b>	<b>Action Required to be Taken by Responsible Departments</b>
<b>i)</b>	Dead Bodies of Animals should be disposed through proper treatment facility like rendering plant etc	360 days	Nagar Palika Parishad, Sonbhadra
<b>ii)</b>	Installation of CAAQMS by polluting units/institutions etc. under "Polluters Pay Principles".	360 days	U.P. Pollution Control Board

**(b) Short Term Action Plan**

<b>Sl. No.</b>	<b>Action Points</b>	<b>Timeframe for implementation</b>	<b>Action Required to be Taken by Responsible Departments</b>
<b>i)</b>	Air Quality Index to be calculated and disseminated to the people through website and other media (on maximum fortnightly basis for manually operated monitoring stations and real time basis for continuous monitoring stations	15days, and thereafter, continue as regular activity	U.P. Pollution Control Board / CPCB
<b>ii)</b>	Establish an Air Quality Management Division at SPCB/PCC Head Quarters to oversee air quality management activities in the State and interact with CPCB	within a reasonable time	U.P. Pollution Control Board
<b>iii)</b>	Set-up and publicize helpline in the city/town as well as SPCB/PCC HQ for complaints against reported non-compliance	within a reasonable time	U.P. Pollution Control Board
<b>iv)</b>	Engage with concerned authorities on continual basis for maximizing coverage of LPG/PNG for domestic and commercial cooking with target of 100% coverage	within a reasonable time	District Supply Officer
<b>v)</b>	Monitoring of DG sets and action against violations Fine should be imposed on defaulters.	within a reasonable time	U.P. Pollution Control Board/ Nagar Nigam
<b>vi)</b>	To ensure 24 X 7 electricity supply in order to minimize use of D.G. sets.	within a reasonable time	UPRVUNL Anpara A, B & D Lanco Anpara Power Co., HINDALCO

			Power Div.
<b>vii)</b>	Street vendors are to be controlled strictly in respect of removing their wastes and debris before leaving the site of operation	30 days	Nagar Nigam /Development Authorities
<b>viii)</b>	Complete ban on littering of streets with municipal solid wastes (MSW). Segregation & source collection at source of MSW to be implemented.	30 days	Nagar Nigam /Development Authorities
<b>ix)</b>	If Air Quality Index found severe or above grade, ensure availability of masks to public for protection.	90 days	Nagar Nigam