

Government of Chhattisgarh
Housing & Environment Department,
Mantralaya, Mahanadi Bhawan,
Atal Nagar, Raipur (C.G.)

No. F04/03/2018/32

Atal Nagar, Raipur, Date 15/03/2019

To,

The Chairman,
Central Pollution Control Board,
Parivesh Bhawan, East Arjun Nagar,
Delhi – 110032.

Sub:- Directions under section 31A of the Air (Prevention and Control of Pollution) Act, 1981 regarding preparation of action plans for non-attainment cities as per Hon'ble NGT order dated 08/10/2018.

Ref: - Your letter no. AQM/AP/2019-20, Dated 12/02/2019.

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Please refer to the above mentioned letter. As suggested by three members committee, necessary amendments have been incorporated in the action plans proposed for Korba and Bhilai Cities. Accordingly, please find enclosed herewith revised action plans for Bhilai and Korba cities at **Annexure-A and B** respectively for necessary action at your end.

Encl. – As above.



Special Secretary

Housing & Environment Department,
Atal Nagar, District-Raipur (C.G.)

City - Korba

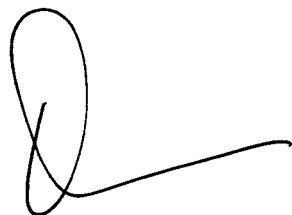
Key Component	Observations	Remarks	Amendments made in Action Plan
Air Quality Monitoring Network	Expansion plan not provided	Include monitoring network.	One additional manual monitoring station is proposed in action plan
Source Identification	Industries, Road Dust, Vehicles, Open Burning, construction Activities	Major sources (e.g. Thermal power plant and coal mining) not identified	Thermal power plant and coal mines are identified and included in action plan.
Source Apportionment (SA) and Emission Inventory (EI)	EI & SA not quantified	Carryout EI & SA estimates.	IIT Mumbai had conducted load carrying capacity study of Korba region and submitted report to November 2018. Key findings are included in action plan.
Action Points	Addresses all major sources except thermal power plant and coal mining which is a major source	Prepare action plan for Thermal Power plants and coal mining area	Action plan of thermal power plants and open cast coal mines are included in action plan.
Long-term Strategy	Not adequately addressed	Long term measures such as public transport should be included	Action point regarding public transport road system has been included in action plan.
Timeframe	Timelines proposed for various actions (upto one year)	-	NA
Executing Agencies	Identified	-	NA
Public Awareness and Complaint Redressal Mechanism	Specific plans and public complaints redressal mechanism outlined	-	-
Budget Support	Not given	Broad estimates be made for financial layout.	All the concerned department have been requested for budget provision for implementation of action plan.

Revised Action Plan for Korba

Indian Institute of Technology Mumbai had conducted load carrying capacity study of Korba region and has submitted report in November, 2018. Key findings of this study are as given below –

- Area under mining activities has increased by fivefold in last past 25 years while overburden and ash dyke area has been increased by 15.62%
- In case of PM10 emission, area sources (55.34%) were major contributor followed by point source (43.78%) and line sources (0.89%)
- In case of PM2.5 emission, again area sources (93.59%) were the major contributor and was followed by line sources (6.41%)
- Power plants were major point sources of air pollution while coal mines were major area sources of air pollution in the study area
- Coal and firewood burning for domestic purposes was another major area source of air pollution in the study area
- Multi axle vehicles, mini buses, multi utility vehicles, medium goods vehicles and light goods vehicles were major line sources of air pollution in the study area

Based on the above findings and observations made by CPCB, action plan has been revised and detailed below -

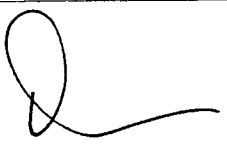


Revised Action Plan for Korba City

SOURCE GROUP

VEHICLES

ACTION	IMPLEMENTATION PERIOD (SHORT/MID/LONG TERM)	TIME TARGET FOR IMPLEMENTATION	RESPONSIBLE AGENCY	Remark
Restriction on plying and phasing out of 15 years old commercial diesel driven vehicles.	MID		Transport Department	<ol style="list-style-type: none"> 1. The Power to fix life of a vehicle lies with Central Government only under section 59 of CMV Act. It is in process of deliberation on a scrapping policy for vehicles. 2. State Government laid down age limit for permit condition for buses (12 years) and trucks (15 years). The CG Motor Vehicle Rule 70A contained provision related to age limit for permit of buses. It is been struck down by Hon'ble High Court of CG in its order in WPC No. 2004/2017 on 26-07-2018.
Regular checking of vehicular emission and issue of Pollution under Control Certificate (PUC).	SHORT	March 2019	Transport Department and Police Department	
Periodic calibration test of vehicular emission monitoring instrument.	SHORT	April 2019	Transport Department	As per MoRTH direction, computerized and networked system of pollution checking has to be introduced from 1 st April 2019.





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ACTION	IMPLEMENTATION PERIOD (SHORT/MID/LONG TERM)	TIME TARGET FOR IMPLEMENTATION	RESPONSIBLE AGENCY	Remark
Good traffic management including redirection of traffic movement to avoid traffic congestion.	SHORT	March 2019	Transport Department and Police Department	-
Promotion and operationalization of E-rickshaw.	MID	March 2019	Transport Department and Urban administration and Development	-
Monitoring on vehicle fitness.	SHORT	March 2019	Transport Department	-
Checking of fuel adulteration.	IMMEDIATE	IMMEDIATE	Food and Civil Supply Department/Oil Companies	-
Restriction on overloading of vehicles.	IMMEDIATE	IMMEDIATE	Transport Department	-
Augmentation of public transportation system.	LONG TERM	December 2019	Transport Department /Nagar Nigam, Korba/District Administration, Korba	-
ROAD DUST Regular cleaning of road dust. 1. Washing of road 2. Mechanized road sweeping	SHORT	March 2019	Urban administration and Development	-
	MID	June 2019		
	SHORT	March 2019		
Water spraying on roads through tankers.	SHORT	March 2019	Urban administration and Development	-
Maintenance of roads to avoid dust emission.	MID	June 2019	CGPWD/ Urban administration and Development /NHAI	-
Development of green belt in open	MID	October 2019	CECB/Concern Government	-

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	ACTION	IMPLEMENTATION PERIOD (SHORT/MID/LONG TERM)	TIME TARGET FOR IMPLEMENTATION	RESPONSIBLE AGENCY	Remark
	areas, gardens, parks/ community places, schools & housing societies.			Department/Urban administration and Development	
	Introduction of water fountains at major traffic intersection / circle.	MID	June 2019	Urban administration and Development	
CONSTRUCTION ACTIVITIES (Covering of construction site.	SHORT	March 2019	Urban administration and Development / Town and Country Planning Department	
	Transportation of Construction materials like sand, soil, stone chips etc. in covered system.	IMMEDIATE	March 2019	Transport Department and Police Department	
	Restriction on storage of construction materials along the road.	SHORT	March 2019	Urban administration and Development	
	BIOMASS AND GARBAGE BURNING (Restriction on open burning of municipal solid waste, Biomass, plastic horticulture waste etc.	IMMEDIATE	IMMEDIATE	Urban administration and Development
Transportation of Municipal Solid Wastes, construction materials and debris in covered system.		IMMEDIATE	IMMEDIATE	Urban administration and Development	
Ensuring promotion and use of cleaner fuel for domestic and commercial purposes like local dhabas/ eateries.		SHORT TERM	April 2019	District Administration/Oil Companies	

ACTION	IMPLEMENTATION PERIOD (SHORT/MID/LONG TERM)	TIME TARGET FOR IMPLEMENTATION	RESPONSIBLE AGENCY	Remark
a. CSPGCL, Korba (East) Up-gradation of air pollution control equipments to bring emission to 50 mg/NM ³ .	LONG TERM	December 2020	CSPGCL, Korba (East)	-
b. CSPGCL, Korba (West) Up-gradation of air pollution control equipments to bring emission to 50 mg/NM ³ .	LONG TERM	December 2020	CSPGCL, Korba (West)	-
i. Control of fugitive emission in Gevra Open Cast Mine by use of mechanized sweeping machine, long range fogging machine.	SHORT TERM	June 2019	SECL, Gevra	-
ii. Control of fugitive emission in Dipka Open Cast Mine by use of mechanized sweeping machine, long range fogging machine.	SHORT TERM	June 2019	SECL, Dipka	-
iii. Control of fugitive emission in Kusmunda Open Cast Mine by use of long range fogging machine.	SHORT TERM	April 2019	SECL, Kusmunda	-
iv. Construction of four number SILO with rapid loading	LONG TERM	December 2021	SECL, Kusmunda	-

	ACTION	IMPLEMENTATION PERIOD (SHORT/MID/LONG TERM)	TIME TARGET FOR IMPLEMENTATION	RESPONSIBLE AGENCY	Remark
	<p>system along with new railway siding</p> <p>c. Maintenance of existing ash dykes to prevent spreading of ash in nearby areas by keeping dyke wet, by covering it with soil etc.</p> <p>d. Ensuring installation and operation of air pollution control devices in industries and taking action against defaulting industries.</p>	<p>IMMEDIATE</p> <p>IMMEDIATE</p>	<p>IMMEDIATE</p> <p>IMMEDIATE</p>	<p>Concerned Thermal Power Plants</p> <p>CECB</p>	<p>-</p> <p>-</p>
<p>STRENGTHENING AND MONITORING</p>	<p>a. Presently 03 stations under NAMP Project are working. 01 more station at Geetanjali Nagar is proposed.</p> <p>b. 02 CAAQMS are operational at Indira complex, Jamnipali and Balco parisar, Balco nagar by M/s NTPC and BALCO respectively.</p>	<p>SHORT</p>	<p>June 2019</p>	<p>CECB</p>	<p>-</p>
<p>PUBLIC AWARENESS</p>	<p>Issue of advisory to public for prevention and control of air pollution.</p>	<p>SHORT</p>	<p>March 2019</p>	<p>CECB</p>	<p>-</p>

	ACTION	IMPLEMENTATION PERIOD (SHORT/MID/LONG TERM)	TIME TARGET FOR IMPLEMENTATION	RESPONSIBLE AGENCY	Remark
	Involvement of school and other academic institution in awareness program.	SHORT	March 2019	CECB	-
OTHERS	Providing web portal for redressal of public complaints.	SHORT	March 2019	CECB	-



City - Bhilai

Key Component	Observations	Remarks	Amendments made in Action Plan
Air Quality Monitoring Network	Expansion plan not provided	Include monitoring network.	Two additional CAAQMS have been proposed in action plan.
Source Identification	Industries, Road Dust, Vehicles, Open Burning, construction Activities	Major sources (e.g. steel industry) not identified	Major steel industry i.e. Bhilai Steel Plant is identified and incorporated in action plan.
Source Apportionment (SA) and Emission Inventory (EI)	EI & SA not quantified	Carryout EI & SA estimates.	It is proposed to conduct Source Apportionment study within one year for Bhilai area.
Action Points	Addresses all major sources except steel industry.	Prepare action plan for steel industry.	Action points of Bhilai Steel Plants are also included in action plan.
Long-term Strategy	Not adequately addressed	Long term measures such as public transport should be included	Action point regarding public transport road system has been included in action plan.
Timeframe	Timelines proposed for various actions (upto one year)	-	NA
Executing Agencies	Identified	-	NA
Public Awareness and Complaint Redressal Mechanism	Specific plans and public complaints redressal mechanism outlined	-	NA
Budget Support	Not given	Broad estimates be made for financial layout.	All the concerned department have been requested for budget provision for implementation of action plan.

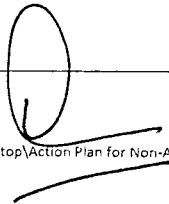
Revised Action Plan for Bhilai City

SOURCE GROUP	ACTION	IMPLEMENTATION PERIOD (SHORT/MID / LONG TERM)	TIME TARGET FOR IMPLEMENTATION	RESPONSIBLE AGENCY	Remark
VEHICLES	Restriction on plying and phasing out of 15 years old commercial diesel driven vehicles.	MID	-	Transport Department	<p>1. The Power to fix life of a vehicle lies with Central Government only under section 59 of CMV Act. It is in process of deliberation on a scrapping policy for vehicles.</p> <p>2. State Government laid down age limit for permit condition for buses (12 years) and trucks (15 years). The CG Motor Vehicle Rule 70A contained provision related to age limit for permit of buses. It is been struck down by Hon'ble High Court of CG in its order in WPC No. 2004/2017 on 26-07-2018.</p>
	Regular checking of vehicular emission and issue of Pollution under Control Certificate (PUC).	SHORT	March 2019	Transport Department and Police Department	-
	Periodic calibration test of vehicular emission monitoring instrument.	SHORT	March 2019	Transport Department	As per MoRTH direction, computerized and networked system of pollution checking has to be introduced from 1 st April 2019.



	ACTION	IMPLEMENTATION PERIOD (SHORT/MID / LONG TERM)	TIME TARGET FOR IMPLEMENTATION	RESPONSIBLE AGENCY	Remark
	Good traffic management including redirection of traffic movement to avoid traffic congestion.	SHORT	March 2019	Transport Department and Police Department	-
	Promotion and operationalization of E-rickshaw.	MID	March 2019	Transport Department and Urban administration and Development	-
	Monitoring on vehicle fitness.	SHORT	March 2019	Transport Department	-
	Checking of fuel adulteration.	IMMEDIATE	IMMEDIATE	Food and Civil Supply Department/Oil Companies	-
	Restriction on overloading of vehicles.	IMMEDIATE	IMMEDIATE	Transport Department	-
	Augmentation of public transportation system.	LONG TERM	December 2019	Transport Department/Nagar Nigam, Bhilai/District Administration, Durg	-
ROAD DUST	Regular cleaning of road dust. 1. Washing of road 2. Mechanized road sweeping	SHORT MID	March 2019 June 2019	Urban administration and Development	-
	Regular cleaning of road dust in industrial area.	SHORT	March 2019	CSIDC	-
	Water spraying on roads through tankers.	SHORT	March 2019	Urban administration and Development	-
	Water spraying on roads through tankers in industrial area.	SHORT	March 2019	CSIDC	-

ACTION	IMPLEMENTATION PERIOD (SHORT/MID / LONG TERM)	TIME TARGET FOR IMPLEMENTATION	RESPONSIBLE AGENCY	Remark
Maintenance of roads to avoid dust emission.	MID	June 2019	CGPWD/ Urban administration and Development/NHAI	-
Maintenance of roads to avoid dust emission in industrial area.	MID	June 2019	CSIDC	-
Development of green belt in open areas, gardens, parks/ community places, schools & housing societies.	MID	October 2019	CECB/Concern Government Department/ Urban administration and Development	-
Introduction of water fountains at major traffic intersection / circle.	MID	June 2019	Urban administration and Development	-
CONSTRUCTION ACTIVITIES	Covering of construction site.	SHORT	Urban administration and Development /Town and Country Planning Department	-
	Transportation of Construction materials like sand, soil, stone chips etc. in covered system.	IMMEDIATE	Transport Department and Police Department	-
	Restriction on storage of construction materials along the road.	SHORT	Urban administration and Development	-
BIOMASS AND GARBAGE BURNING	Restriction on open burning of municipal solid waste, Biomass, plastic horticulture waste etc.	IMMEDIATE	Urban administration and Development	-
	Transportation of Municipal Solid Wastes, construction materials and debris in covered system.	IMMEDIATE	Urban administration and Development	-



	ACTION	IMPLEMENTATION PERIOD (SHORT/MID / LONG TERM)	TIME TARGET FOR IMPLEMENTATION	RESPONSIBLE AGENCY	Remark
	Ensuring promotion and use of cleaner fuel for commercial purposes like local dhabas/eateries.	MID TERM	April 2019	District Administration/Oil Companies	-
INDUSTRIES	Bhilai Steel Plant				
	Up-gradation of existing Air Pollution Control System by installation of ESPs in sinter plant no II	MID TERM	November 2019	Bhilai Steel Plant	-
	Up-gradation of ESP in sinter plant no III	MID TERM	November 2019	Bhilai Steel Plant	-
	De-fuming system installation in cast house of Blast Furnace 7	MID TERM	October 2019	Bhilai Steel Plant	-
	Installation of bag filters in refractory material plant no. 2	MID TERM	December 2019	Bhilai Steel Plant	-
	Ensuring installation and operation of air pollution control devices in industries and taking action against defaulting industries.	IMMEDIATE	IMMEDIATE	CECB	-
PUBLIC AWARENESS	Issue of advisory to public for prevention and control of air pollution.	SHORT	March 2019	CECB	-
	Involvement of school and other academic institution in awareness program.	SHORT	March 2019	CECB	-
STRENGTHENING AAQ MONITORING	Three NAMP stations are operational in Bhilai area and 01 CAAQMS is operational at Civic Centre by Bhilai Steel Plant. 02 more CAAQMS stations are proposed in Bhilai City.	LONG	March 2020	CECB	-

	ACTION	IMPLEMENTATION PERIOD (SHORT/MID / LONG TERM)	TIME TARGET FOR IMPLEMENTATION	RESPONSIBLE AGENCY	Remark
OTHERS	Providing web portal for redressal of public complaints.	SHORT	March 2019	CECB	-
	Conducting source apportionment study and making necessary amendments in action plan according to recommendation	LONG TERM	March 2020	CECB	-

