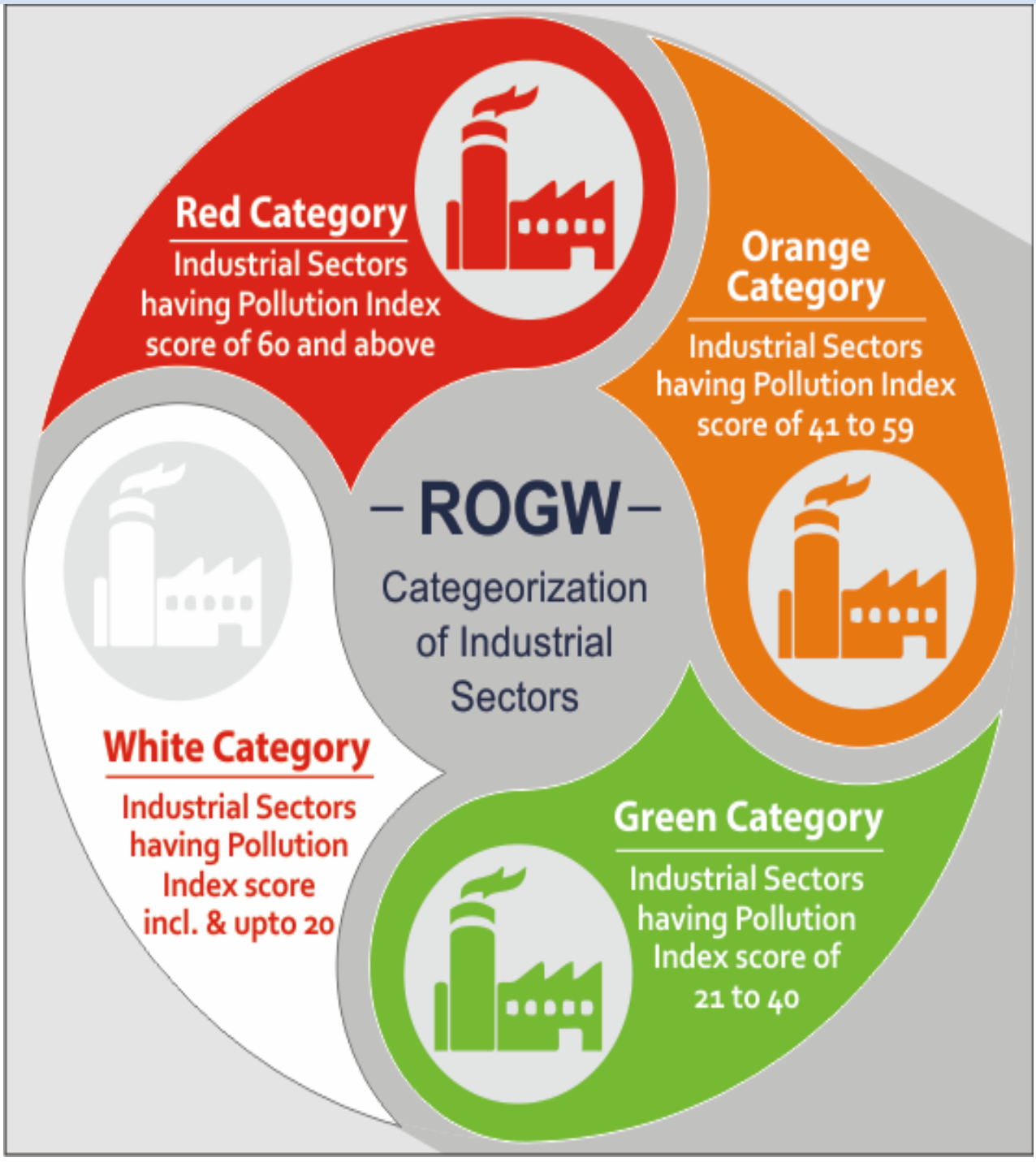
Environmental Management Plan for Critically/Severely Polluted Area- (MEERUT)



E. COMPREHENSIVE ENVIRONMENTAL POLLUTION INDEX (CEPI)

1. INTRODUCTION

In 2009, the Ministry of Environment &Forests(MoEF), Govt. of India in association with Central Pollution Control Board (CPCB), New Delhi and Indian Institute of Technology (IIT), New Delhi have carried out an environmental assessment of industrial clusters across the country named "Comprehensive Environmental Pollution Index" (CEPI) with the aim of identifying polluted industrial clusters & prioritizing planning needs for intervention to improve the quality of environment in these industrial clusters and the nation as a whole.

Uttar Pradesh Pollution Control Board, Lucknow

The CEPI criteria was revised in 2016 and based on the CEPI-2016 criteria, CPCB carried out further monitoring in the year 2017-18, these clusters numbers went upto 100 in whole country, These clusters as may referred to order issued by Hon'ble National Green Tribunal for Original Application No. 1038/2018 dated 10.07.2019.

The industrial clusters/areas having aggregated CEPI scores of 70 and above were considered critically polluted clusters/areas and those with scores less than 70 and more than 60 were classified as Severely Polluted; further detailed investigations were carried out in terms of the extent of environmental damage and formulation of appropriate remedial action plan. There are total 13 Polluted industrial Areas(PIAs) which includes 9 critically polluted Areas(CPA) namely Mathura, Kanpur, Moradabad, Varanasi-Mirzapur, Bulandshahar-Khurja, Firozabad, Gajraula area, Agra, Ghaziabad and 4 severely Polluted Area *viz.* Noida, Meerut, Aligarh, Singrauli (UP& MP)

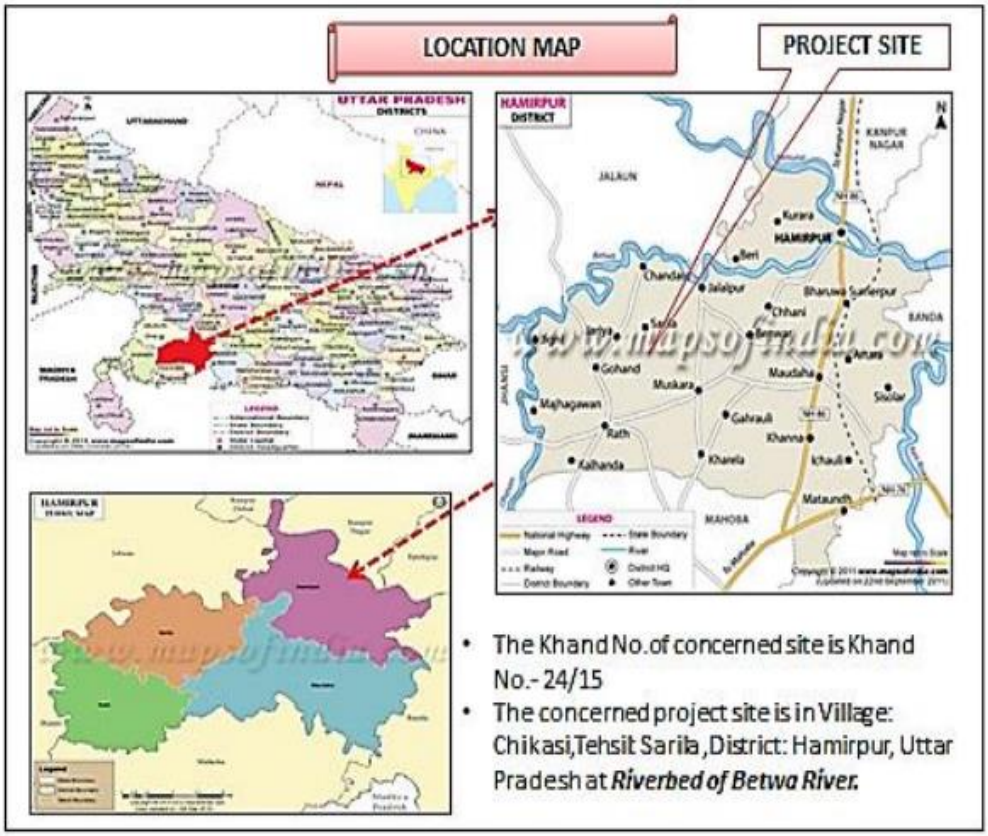
NGT Direction:

The Hon'ble NGT vide it's latest order dated 14.11.2019, has directed the Pollution Control Boards / Pollution Control Committees (PCBs/PCCs) to finalize time bound action plan to bring all the Polluted Industrial Areas (PIAs) within safe parameters as per the Air Act, the Water Act and the E.P. Act. The said order is available at **Annexure No.-IV**

In complaince to Hon'ble NGT order Dated 23.08.2019, a mechanism has been issued by Ministry of Environment, Forest & Climate Change Govt. of India for environmental management of Critically/ Severely polluted area enclosed with CPCB letter Dated 25.10.2019 available as **Annexure No.-V**

1.1 AREA DETAILS

As per the CEPI assessment, following areas have been identified as Critically/ Severely polluted



area.....(fill area name)
(Insert a location map showing Polluted Industrial Areas (PIAs) in the city- Sample map has been attached below and provide other details as well)

1.2 LOCATION

The coordinates of the cluster boundary are as follows:

Direction	Latitude	Longitude
East		
West		
North		
South		

1.3 Digitized map showing geographical boundaries and Impact Zones

(Insert a location map showing geographical boundaries and Impact Zones in the city- Sample map has been attached below and provide other details as well)

IMAGE: AERIAL VIEW – INDUSTRIAL C

1.4 CEPI Score (Air, Water, Land and Total)……..

1.5 Baseline Status Of Sensitive Receptors: Total population and sensitive receptors (hospitals, educational institutions, courts etc) residing in the area comprising geographical area of the cluster and its impact zone.

S. No	Population		Number of Hospitals		Number of Educational Institutions		Number of Courts		Other socially sensitive features	
	Within Cluster	Impact Zone	Within Cluster	Impact Zone	Within Cluster	Impact Zone	Within Cluster	Impact Zone	Within Cluster	Impact Zone
1	50000	Shatabdi Nagar	…	…	05	Delhi Bye pass Road	1	…	…	…
2	30000	Delhi Road	….	…	…	…	…	…	..	…
3	15000	Partapur	….	…	…	…	…	…	..	…
4	10000	Bye pass Delhi Road	….	…	…	…	…	…	..	…
5	50000	Ganga Nagar, Village Saini	….	…	…	…	…	…	..	…

1.6 Eco-Geological Features: Impact Zones [the area comprising of geographical area of the cluster and its impact zone (minimum 5 km)

1.6.1 Major water bodies (Rivers, Lakes, Ponds, etc.)

S. No.	Rivers		Lakes		Ponds	
	Within Cluster	Impact Zone	Within Cluster	Impact Zone	Within Cluster	Impact Zone
1	Kali East	Meerut city	….	….	…	…

1.6.2 Ecological parks, sanctuaries, flora and fauna or any eco sensitive zones:

Given below is the list of ecologically sensitive zones within the impact zone of the CEPI areas along with their distance and direction from the area:

S. No.	List of environmentally sensitive zones	Number	Distance and direction
1	…….	……	…….

(Insert a Google Earth image showing above given zones)

1.6.3 Buildings or Monuments of historical/archaeological/religious importance

S. No.	List of Buildings or Monuments of historical/archaeological/religious importance's	Number	Distance and direction
1	…..	…….	……..

1.7 Industry classification: Density of industry (no. of industries per 10 sq.km area or fraction)

The total number of industries in the cluster is as listed below:

Scale Of Industries	Highly Polluting Industries		
	Air	Water	No. Of E-Waste/Hazardous Waste Generating Industries
Large	0	0	0

Medium	18	18	7
Total	**18**	**18**	**07**

1.7.1 Highly Polluting Industries (17 CATEGORIES)

1.7.2 Red Category Industries (60 CATEGORIES)

1.7.3 Orange Category Industries

1.7.4 Green Category Industries

Scale Of Industries	Highly Polluting Industries		
	Air	Water	No. Of E-Waste/Hazardous Waste Generating Industries
Large	0	0	0
Medium	18	18	7
Small	0	0	0
Total	**18**	**18**	**7**

Scale of Industries	Number of Industries		
	Air	Water	No. Of E-Waste/Hazardous Waste Generating Industries
Large	0	0	0
Medium	121	121	0
Small	0	0	0
Total	**121**	**121**	**0**

Scale of Industries	Number of Industries		
	Air	Water	No. Of E-Waste/Hazardous Waste Generating Industries
Large	0	0	0
Medium	0	0	0
Small	153	153	0
Total	**153**	**153**	**0**

1.7.5 GROSSLY POLLUTING INDUSTRIES

Scale of Industries	Highly Polluting Industries		
	Air	Water	No. Of E-Waste/Hazardous Waste Generating Industries
Large	17	17	0
Medium	34	34	7
Small	0	0	0
Total	**51**	**51**	**7**

2.0 Water Environment

2.1 Present Status of Water Environment Supported with Minimum One-Year Analytical Data

S. No.	Parameters	Observed values	Standards
1	NA		

2.2 Water Bodies/Effluent Receiving Drains in the Area Important For Water Quality Monitoring

S. No.	Water Bodies	No. of drains discharging	Effluent discharge (MLD)
1	Kali East	05	418

2.1 **Present Levels Of Pollutants In Water Bodies/Effluent Receiving Drains/Ground Water** (Routine parameters, special parameters and water toxics relevant to the area in three categories – known carcinogens, probable carcinogens and other toxics)

S. No.	Parameters	Observed values	Standards

2.4 Predominant Sources Contributing To Various Pollutants

S. No.	Sources	Effluent discharge	Major Pollutants

2.5 Sources of Water Pollution

2.5.1 Industrial Pollution Sources :- The drain wise and sector wise distribution of industries and their estimated treated effluent discharge and details of CETP is given in the tables below:

Summary of Industrial Units

S. No.	Drain	Type of Industry * The Type of Industry may be changed as per local conditions							Total Effluent Discharge (MLD)
		Sugar	Pulp & Paper	Distillery	Textile	Slaughter House	Others	Total	
1.	Kaili Drain	2	0	1	0	0	1	4	6.5
2.	Abu Drain M-71	0	0	0	1	0	1	2	1
3.	Abu Drain M-73	0	0	0	0	0	2	2	1.06
4.	Khadauli Drain	0	03	0	22	0	07	32	7.39
5.	Asoda Drain	0	1	0	0	0	0	1	0
6.	Shekhupur Drain	1	1	0	1	0	2	5	2.3
7.	Odean Drain	0	0	0	4	0	0	4	0.0025
8.	Ekla Drain	0	1	0	0	0	0	1	1.79

S. No.	Drain	Type of Industry * The Type of Industry may be changed as per local conditions							Total Effluent Discharge (MLD)
		Sugar	Pulp & Paper	Distillery	Textile	Slaughter House	Others	Total	
9.	Dhikoli Drain	1	0	0	0	0	0	1	2.5
10.	Chhoiya Drain	1	1	1	0	0	1	4	4.0
11.	Natural Drain	0	3	0	1	6	15	25	4.5
12.	Direct to kali	0	5	0	5	1	0	11	8.48

2.5.2 Domestic Pollution Sources

a) Details of Drains

Summary of Drains

S No.	District	No. of Drains	Type of Drains	Status of Drains			Sewage Discharge (MLD)			Total Discharge in the River (MLD)
			Domestic	Tapped	Untapped	Partially Tapped	Treated	Untreated	Total	
1.	Meerut	05	Mix	-	Uptapped	-	180	238	418	418

b) Details of Sewage Pollution Sources

The details of Sewage Treatment Plants along with installed capacity, utilized capacity, operating agency and discharge point is given in the table below:-

Details of STPs

S.No.	Name of STP	Location		Installed Capacity (MLD)	Utilized Capacity (MLD)	Capacity Utilized (%)	Operating Govt. Agency	Discharge Drain
		Latitude	Longitude					
1.	M/S STP Shatabdi Nagar Yojana Meerut	30°55'15"N	77°39'40"E	15.0	04 Approx		MDA	Kadarabad drain by Khdauli Drain
2.	M/S STP Sports Goods Complex Meerut	28°56'45"N	77°40'40"E	7.0	2.0 Approx		MDA	Abu Nala-2
3.	M/S STP Shradhapuri Yojana Phase-I Meerut	30°55'15"N	77°39'40"E	6.0	06 Approx		MDA	
4.	M/S STP Shradhapuri Yojana Phase-II Meerut	29°01'33"N	77°39'56"E	6.0	5.80 Approx		MDA	Kadarabad drain by Khdauli Drain
5.	M/S STP Ved Vyaspuri Yojana Meerut	28°56'16"N	77°39'13"E	15.0	4.20 Approx		MDA	Abu Nala-1
6.	M/S STP Pallavpuram Phase-I Meerut	29°03'29"N	77°43'02"E	7.0	6.70 Approx		MDA	
7.	M/S STP Pallavpuram Phase-II Meerut	29°03'29"N	77°43'07"E	11.0	7.40 Approx		MDA	
8.	M/S STP Rakshapuram Meerut	29°00'38"N	77°44'17"E	6.0	4.40 Approx		MDA	Abu NAla-2
9.	M/S STP Pandev Nagar Meerut	28°59'20"N	77°44'00"E	3.0	2.50 Approx		MDA	Odean Drain
10.	M/S STP lohiya Nagar Meerut	28°55'15"N	77°39'40"E	10.0	5.20 Approx		MDA	Abu Nala-1
11.	M/S STP Ganga Nagar Meerut	28°59'52"N	77°44'58"E	10.0	4.50 Approx		MDA	Kali East
12.	M/S STP Jagriti Vihar Extension Garh Road Meerut	28°56'25"N	77°45'22"E	72.0	32 Approx		Jal Nigam	Kadarabad drain by Khdauli Drain
13.	M/S STP Sainik Vihar, Shradhapuri Phase-II, Meerut			6.0	6.0 Approx		MDA	Abu Nala-2
14.	M/S STP Modipuram Tiraha			5.0	3.50 Approx		MDA	Abu Nala-1
15.	M/S STP Candetch Enclave Mrt Cantt Meerut			730 KLD	400 KLD Approx		Meerut Cantt	Abu Nala-2
16.	M/S STP Eco Park Opp. Site Rajesh Enclave Mrt Cantt Meerut			500 KLD	300 KLD Approx			
17.	M/S STP Ram CSD Infront of Yogendra Yadav Enclave Mrt Cantt Meerut			200 KLD	150 KLD Approx			
18.	M/S PRC Line Near Kanch Ka Gurudwara Mrt Cantt eerut			400 KLD	250 KLD Approx			

DETAILS OF CETPs

S.No.	District	Name of CETP	Location		Installed Capacity (MLD)	Utilized Capacity (MLD)	Operating Govt. Agency/SPV	Discharge Drain
			Latitude	Longitude				
1.	Not Applicable							

2.5.3 **Others Sources** (Agricultural Runoff, Leachate from MSW Dump, Illegal Dump Sites etc.)**:** Please provide details

2.6 Impact on Surrounding Area (Outside the PIAs): on the water sources/drainage system of the area under consideration.

2.7 Details of Water Polluting Industries in the Area/ Cluster

S. No.	Name and Address	Product	Location		Type	Treatment Mechanism (ETP/ CETP)	Effluent Discharge (KLD)	Effluent Discharge Drain	Consent status	
			Latitude	Longitude					Air	Water
1	Gangol Sehkari Dugdh Utpadak Sangh Ltd, Gangol Road, Meerut	Dairy	28.894019	77.684294	Red	ETP	600	Khadauli Drain	Y	Y
2	Kailash Dairy, Rithani,Delhi road,Meerut	Dairy			Red	ETP	350	Khadauli Drain	Y	Y
3	Anheuser-Busch InBev formerly Sab Miller India Ltd,Meerut cantt,Meerut	Breweries			Red	ETP	940	Abu Nala2	Y	Y
4	Anand Triplex Board Ltd., Vill – Saini Mawana Road, Meerut	Paper	29.047185	77.783836	Red	ETP	1986	Local drain to Kali East	Y	Y
5	Dev Priya Product Ltd. Vill Saini Mawana Road ,Meerut	Paper	29.034766	77.782876	Red	ETP	3000	Kali East	Y	Y
6	Dev. Priya Papers Ltd. Vill – Saini Mawana Road ,Meerut	Paper	29.036098	77.784432	Red	ETP	1800	Kali East	Y	Y
7	Janki news print pvt. ltd.(Sumit Agro Products Ltd.) Panchali Baghpat Road Meerut	Paper	28.966904	77.631546	Red	ETP	1000	Khadauli drain	Y	Y
8	Kanav Papers Pvt Ltd(Formaly known as Dev Priya Fibers Pvt.Ltd.. Panchli, Bagpat Road ,Meerut	Paper			Red	ETP	1400	Khadauli drain	Y	Y
9	New Bonanja India Ltd., Saini, Mawana Road, Meerut	Paper	29.035333	77.791172	Red	ETP	600	Kali East	Y	Y
10	Star Kraft Papers Pvt ltd(Formely known as Devstar Paper Pvt Ltd. Panchali,Bagpat Road,Meerut	Paper			Red	ETP	1400	Khadauli drain	Y	Y

11	Synergy waste Management Pvt Ltd,Subhartipuram,Delhi Byepass,Meerut	CBWTF			Red	ETP			Y	Y
12	Solitaire Foods Pvt Ltd,Gagol road,Partapur,Meerut	Dairy			Red	ETP	250		Y	Y
13	Dayal Fertilizer,Delhi Road,Meerut	Fertilizer			Red	ETP			Y	Y
14	APCO Dye Chem Pvt Ltd,Mawana road,Meerut	Textile			Red	ETP			Y	Y
15	Kanta Polytex,Vedvyaspuri,Meerut	Textile			Red	ETP	20	Khadauli drain	Y	Y
16	National Handloom Pvt Ltd,Mohakampur Phase-1,Delhi road,Meerut	Textile			Red	ETP	8	Khadauli drain	Y	Y
17	Pashupati Textile Prints Pvt Ltd,Garh road,Meerut	Textile	28.947922	77.758512	Red	ETP	10		Y	Y
18	Biharilal Hathkargha Udhyog,Garhroad,Meerut	Textile	28.948457	77.758807	Red	ETP	8		Y	Y
19	Bharat Agro Molecules Pvt Ltd,Gagol road,Meerut	Fertilizer			Red	ETP			Y	Y
20	Ashoka Handfab Factory,Shyam nagar,Meerut	Textile			Red	ETP			Y	Y
21	Kamal Dying House,Meerut	Textile			Red	ETP	15	Khadauli drain	Y	Y
22	Modern Process House,Mohakampur Industrial Area Phase-1,Meerut	Textile			Red	ETP	13	Khadauli drain	Y	Y
23	Shakun Handifab Pvt Ltd,1212/1, near Sofia School,Gagol Road,Meerut	Textile			Red	ETP	20	Khadauli drain	Y	Y
24	Rajkumar Textiles Mills,A-16,Udyogpuram,Meerut	Textile			Red	ETP	20	Khadauli drain	Y	Y
25	Jyoti Industries(SS Textiles)B-72, Udyogpuram,Partapur,Meerut	Textile			Red	ETP	20	Khadauli drain	Y	Y
26	UP Dying & Printing Works,68 Nauchandi Ground,Meerut	Textile	28.9649	77.721575	Red	ETP	25	Abu Nala	Y	Y

2.8 Effluent Disposal Methods- Recipient Water Bodies Etc…Drains……

2.9 Quantification Of Wastewater Pollution Load And Relative Contribution By Different Sources viz Industrial/

a) Domestic /Industrial: 418 MLD

S. No.	Drain	Type of Industry * The Type of Industry may be changed as per local conditions							Total Effluent Discharge (MLD)	Pollution load (BOD in kg/day)
		Sugar	Pulp & Paper	Distillery	Textile	Slaughter House	Others	Total		
1.	Kaili Drain	2	0	1	0	0	1	4	6.5	**227.46**
2.	Abu Drain M-71	0	0	0	1	0	1	2	1	**227.46**
3.	Abu Drain M-73	0	0	0	0	0	2	2	1.06	**31.2**
4.	Khadauli Drain	0	03	0	22	0	07	32	7.39	**221.88**
5.	Asoda Drain	0	1	0	0	0	0	1	0	
6.	Shekhupur Drain	1	1	0	1	0	2	5	2.3	**69.6**
7.	Odean Drain	0	0	0	4	0	0	4	0.0025	**0.75**
8.	Ekla Drain	0	1	0	0	0	0	1	1.79	**53.7**
9.	Dhikoli Drain	1	0	0	0	0	0	1	2.5	**75**
10.	Chhoiya Drain	1	1	1	0	0	1	4	4.0	**120**
11.	Natural Drain	0	3	0	1	6	15	25	4.5	**136.14**
12.	Direct to kali	0	5	0	5	1	0	11	8.48	**254.49**

b) Domestic:

S No.	No. of Drains	Type of Drains			Status of Drains			Industries		Sewage Discharge (MLD)			Pollution load (BOD in kg/day)
		Domestic	Industrial	Mixed	Tapped	Untapped	Partially Tapped	Number	Treated Effluent (MLD)	Treated	Untreated	Total	
1.	05	-	-	Mixed	-	Untapped	-	75	23.413	180	238	418	1190.22

2.10 Action Plan for Compliance and Control of Pollution

2.10.1 Short Term Action Points (upto 1 year, including continuous activities)

Short Term Action Points (upto 1 year, including continuous activities)			
Sr. No.	**Action Points**	**Timeline**	**Responsible Agencies/ Stake Holders**
2.10.1 a)	**Water Pollution** • **Industrial Source** - Proposed Action Plan for effective control of Water Pollution: Regular effluent sample collection and analysis of Pollution Control System in Red, Orange & Green category Industries to be done to ensure strict compliance of prescribed effluent norms.	**Frequency** Red category- **3 months** Orange category -**6 months** Green category -**12 months** (By UPPCB) & By Individual Industries as follows	UPPCB Individual Industry
	• Installation of energy meter, on line PH meter, automatic chemical dozing system, on line effluent quality & flow measurement (OCEMS) and installation of independent laboratory to monitor critical parameters like MLSS, SVI etc. and other inlet and outlet parameters of ETP for Large & Medium Industries	Ongoing	Individual Industries (Large and Medium)
	• Upgradation of ETP in existing water polluting units is to be done on case to case basis. Under the upgradation plan, suitable tertiary treatment methods are to be installed in a time bound manner in order to ensure that treated water is recycled / reused to the maximum extend.	Within 06 months.	Individual Industries.
b)	• **Groundwater Pollution:** Regular monitoring of Over Head Tanks supplying drinking water in the region and Rainy wells is proposed to be done by Regional Laboratory of State Pollution Control Board. Also, intensive surveys will be done to ensure that practice of reverse boring is not prevalent in the region.	Ongoing	Jal Nigam/ State Ground Water Authority
c)	• **Domestic Waste Water (Sewage):** Domestic sewage contributes to about 80% of Water. The status of Sewage Pollution Control is as follows:	Ongoing	UPPCB and Jal Nigam
	• STPs are Operational	Ongoing	UPPCB and Jal Nigam

	• Combined Inspection of STPs by UPPCB and Jal Nigam	Ongoing Process	UPPCB and Jal Nigam
	• Upcoming High Rise Buildings, Commercial Project, Educational Institution, Multiplex, Town ship & Building Projects are major source of sewage generation and Municipal Solid Waste. Such projects must ensure setting up of STPs, recirculation of treated water for flushing/gardening regarding purpose & ensure compliance of the conditions of the Environment Clearance and NOC from PCB.	Ongoing Process	Project proponent Local Authority & UPPCB.

2.10.2 Existing Infrastructure Facilities- Water quality monitoring network, ETPs, CETPs, sewerage treatment plant of industry (STPs), surface drainage system, effluent conveyance channels/ outfalls etc.

2.10.3 Technological Intervention

S. No	Industries	Category	Pollution control measures installed (Y/N)
1	….	….	…
2			

2.10.4.1 Inventorisation of Prominent Industries with Technological Gaps

S. No.	Industries	Category	Pollution control measures installed (Y/N)
	0	…	….

2.10.4.2 Identification of Low Cost and Advanced Cleaner Technology for Pollution Control

S. No	Number of industries adopted cleaner technologies	Previous technologies	New technologies
1	**1**	**Bio Compost**	**MEE/Boiler**

2.10.5 Infrastructure Renewal if any required

2.10.5.1 Details of existing infrastructure facilities- Please provide details

2.10.5.2 Need of up gradation of existing facilities - Please provide details if any

2.10.5.3 De-silting of water tanks, drains, culvert, etc. - Please provide details

2.10.5.4 Construction of lined drains/ connections - Please provide details if any

2.10.5.5 Treatment and management of contaminated surface water bodies - Please provide details:

S. No.	Contaminated surface water bodies	Treatment adopted	status
1	0	…	….

2.10.5.6 Rejuvenation/ Management Plan for important eco-geological features- Please provide details if any

2.10.5.7 Comments on Carrying of effluent from industrial units located in non-industrial locations to CETP facilities by lined drains/ pipelines only and prevention of other disposal into city sewerage/ surface drainage

2.10.5.8 Installation of Gen sets at CETPs - Please provide details if any requirement

2.10.6 Managerial and Financial aspects

2.10.6.1 Cost and time estimates: Details of cost estimated for any infrastructure renewal related works, if any.

2.10.6.2 Identified private/ public sector potential investors and contribution/ obligation: If any, investment from private sector potential investors please provide details.

2.10.6.3 Government Budgetary support requirement

S. No.	Amount of budget allocated to CEPI area	Remarks
1	0	...
2		

2.10.6.4 Hierarchical and structured managerial system for efficient implementation

2.10.7 Self monitoring systems industries (ETPs) etc.- Please provide details

S. No.	Industries	Category	ETPs installed(Y/N)
1	11	Red	Yes

2.10.8 Data linkages to SPCB / CPCB (OCEEMS)- Please provide details

S. No.	Industries	Category	Data linkages (Y/N)
1	30	Red	Yes

2.11 MONITORING: SURFACE WATER, GROUND WATER

SURFACE WATER MONITORING STATIONS

(Insert a location map showing surface water monitoring stations in the city-
Sample map has been attached below and provide other details as well)

#	Location/Station	Location Code	#	Location/Station	Location Code
1		SW1	3		SW3
2		SW2	4		SW4

GROUND WATER MONITORING STATIONS:

(Insert a location map showing ground water monitoring stations in the city-
Sample map has been attached below and provide other details as well)

#	Location/Station	Location Code	#	Location/Station	Location Code
1		GW1	3		GW3
2		GW2	4		GW4

3.0 Air Environment

3.1 Present status of Air environment: supported with minimum one-year analytical data i.e. status of AQI for last 1 year.

S. No.	Cluster	Months(Jan 2019-Jan 2020)	AQI	Condition
CAAQMS Stations Started from October 2019 therefore the status of AQI data for 01 year is not available.				

3.1.1 Critical locations for air quality monitoring: Identification of critical locations for air quality monitoring

S. No.	Locations identified	Coordinates		Distance and direction
		Latitude	Longitude	
	None			

3.1.2 Present levels of pollutants in air: Reports of routine parameters, special parameters and air toxic relevant to the area in three categories- known carcinogens probable carcinogen and other toxic

a) Ambient Air Quality Monitoring for following parameters:

i) SO_2, NO_2 , PM_{10} , $PM_{2.5}$, Pb and other relevant parameter (for 24 hourly average monitoring values)

S. No	Parameters	Observed values	Standards
1	SO2	16.5 (Date 23-02-2020)	80
2	NO2	28.1	80
3	PM10	137	100
4	PM2.5	79	60

ii) O_3, CO and other relevant parameter (for 1 hrly average and 8 hrly average)

S. No	Parameters	Observed values	Standards
1	O3	25.4 /10.9	
2	CO	2.0/1.81	

iii) Benzene, Arsenic & Nickel and other relevant parameter (for 24 hrly average value)

S. No	Parameters	Observed values	Standards
1.	Benzene	0.84	

3.1.3 Predominant sources contributing to various pollutants

S. No	Sources	Percent contribution	Main Pollutants
1	NA	…	…

3.2 Sources of air pollution: viz industrial, domestic (coal an biomass burning), natural and transport and heavy earth movers

3.3 Air Polluting Industries in the area/ cluster

S. No	Number of Air Polluting industries	Coordinates		Distance and direction
		Lat.	Long.	
1	Al-Faheem Meatex Pvt. Ltd., Vill.-Alipur, Hapur Road, Meerut	28.910136	77.736653	
2	Al-Saqib Exports Pvt. Ltd., Vill.-Alipur, Hapur Road, Meerut	28.903506	77.737758	
3	Continental India Ltd.,Modipuram,Meerut	29.062116	77.705086	
4	Gangol Sehkari Dugdh Utpadak Sangh Ltd, Gangol Road, Meerut	28.894019	77.684294	
5	Harbans Dairy, Mohiuddipur, Meerut			
6	Harbans Lal Foods Pvt. Ltd, Mohiuddipur, Meerut	28.888808	77.616334	

7	Kailash Dairy, Rithani,Delhi road,Meerut			
8	Sardhana Papers Pvt Ltd.,Sardhana,Meerut	29.126818	77.607704	
9	Anheuser-Busch InBev formerly Sab Miller India Ltd,Meerut cantt,Meerut			
10	Tanya Marketing Pvt. Ltd. Alipur Jijmana Hapur Road, Meerut	28.907671	77.74625	
11	Alps Industries Ltd., Vill.-Aminagar Bhoorbaral,Meerut	28.901467	77.632973	
12	Anand Triplex Board Ltd., Vill – Saini Mawana Road, Meerut	29.047185	77.783836	
13	Bajaj Hindustan Ltd, Distillery Unit, Kinoni, Meerut	29.049717	77.467153	
14	Bajaj Hindustan Ltd, Sugar, Kinoni, Meerut	29.049529	77.470844	
15	Chamunda Papers (P) Ltd., Dheerkheda Ind. Area ,Meerut	28.764809	77.769249	
16	Daurala Sugar Works, Sugar Unit, Daurala , Meerut	29.122169	77.705373	
17	Dev Priya Product Ltd. Vill Saini Mawana Road ,Meerut	29.034766	77.782876	
18	Dev. Priya Papers Ltd. Vill – Saini Mawana Road ,Meerut	29.036098	77.784432	
19	IPL (U.P. State Sugar Corp. Ltd). Sakauti Tanda , Meerut	29.190758	77.716652	
20	Janki news print pvt. ltd.(Sumit Agro Products Ltd.) Panchali Baghpat Road Meerut	28.966904	77.631546	
21	Kanav Papers Pvt Ltd(Formaly known as Dev Priya Fibers Pvt.Ltd.. Panchli, Bagpat Road ,Meerut			
22	Mawana Sugar Works, Mawana , Meerut	29.094315	77.924663	
23	Naglamal Sugar Complex Garh Road, Meerut	28.884775	77.837352	
24	New Bonanja India Ltd., Saini, Mawana Road, Meerut	29.035333	77.791172	
25	Paswara Papers Ltd., Mohiuddinpur , Meerut	28.880017	77.613229	
26	Sangal Papers Ltd.Vill – Bhainsa Mawana, Meerut	29.094854	77.884436	
27	Shri Venktesh Paper Mills Formely Known as Anand Tissues Ltd., Vill.Fitkari, Mawana,Meerut	29.077166	77.843097	
28	Star Kraft Papers Pvt ltd(Formely known as Devstar Paper Pvt Ltd. Panchali,Bagpat Road,Meerut			
29	UP State Sugar Corp. Ltd. Mohiuddinpur ,Meerut	28.883009	77.618011	
30	Synergy waste Management Pvt Ltd,Subhartipuram,Delhi Byepass,Meerut			
31	Solitaire Foods Pvt Ltd,Gagol road,Partapur,Meerut			
32	Dayal Fertilizer,Delhi Road,Meerut			
33	APCO Dye Chem Pvt Ltd,Mawana road,Meerut			
34	Kanta Polytex,Vedvyaspuri,Meerut			
35	National Handloom Pvt Ltd,Mohakampur Phase-1,Delhi road,Meerut			
36	Pashupati Textile Prints Pvt Ltd,Garh road,Meerut	28.947922	77.758512	
37	Biharilal Hathkargha Udhyog,Garhroad,Meerut	28.948457	77.758807	
38	Bharat Agro Molecules Pvt Ltd,Gagol road,Meerut			
39	Ashoka Handfab Factory,Shyam nagar,Meerut			
40	Shiva Fastner,Partapur,Meerut			
41	Kamal Dying House,Meerut			
42	Modern Process House,Mohakampur Industrial Area Phase-1,Meerut			
43	Shakun Handifab Pvt Ltd,1212/1, near Sofia School,Gagol Road,Meerut			
44	Rajkumar Textiles Mills,A-16,Udyogpuram,Meerut			
45	Harbansh Dairy Pvt Ltd, Mohiuddinpur,Meerut			
46	Jyoti Industries(SS Textiles)B-72, Udyogpuram,Partapur,Meerut			
47	UP Dying & Printing Works,68 Nauchandi Ground,Meerut	28.9649	77.721575	

3.4 Impact of activities of nearby area as the CEPI Area

Land use distribution(%) of nearby areas of CEPI and map

3.5 Quantification of the air pollution load and relative contribution by different sources (If done from reputed institution)

S. No.	Air Pollution Sorces	Category	Pollution Load	Percentage
1	NA	...	..	..

2				

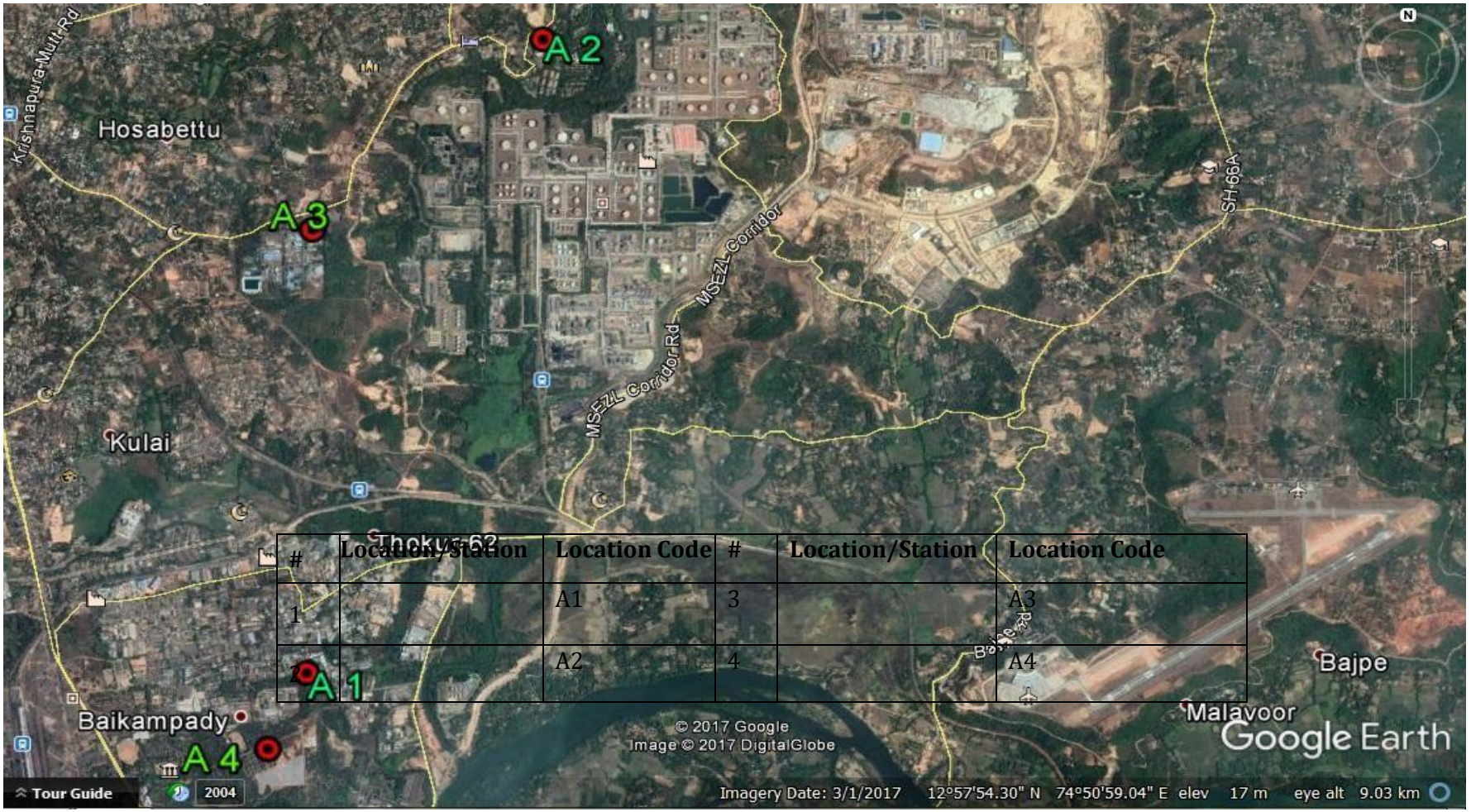
1.6 Action plan for compliance and control of pollution

Short Term Action Points (upto 1 year, including continuous activities)			
Sr. No.	**Action Points**	**Timeline**	**Responsible Agencies/ Stake Holders**
3.6 a)	• **Air Pollution Industrial:** Detailed Inventory of total air polluting industries in the region. • **Proposed Action Plan for effective control of Air Pollution**: Regular Monitoring of Air Pollution Control System with a use of (OCEMS) in large and medium Industries in order to ensure strict compliance of prescribed Norms.	Stack Monitoring of Large & Medium units every 06 months and once in a Year for SSI units. (By UPPCB & by individual Industries)	UPPCB & Individual Industries.
Long Term Action Points (more than 1 year)			
Sr. No.	**Action Points**	**Timeline**	**Responsible Agencies/ Stake Holders**
b)	• **Air Pollution/ Industrial Pollution:** Implementation of Cleaner Technology in order to reduce quantity of process and fugitive emissions and effective Operation & maintenance of installed APCS. Implementation of cleaner technology / adoption of cleaner fuel, identification of industries to be done in time bound manner. Switching over to cleaner fuel has been proposed as the best option to control Air Pollution in Industrial Areas. Some Industries have already switched to cleaner fuel technology. Technological intervention / switching over to cleaner fuel to be done in time bound manner. To supply and promote the use of cleaner fuel like CNG/PNG, in order to reduce emissions in the industrial	1 Year	UPPCB/ Individual Industry/ IGL
c)	• **Introduction of Cleaner Fuel for Industrial Uses:** Currently industries are using Coal/Wood/LDO/LSHS as a fuel which emits SPM and SO_2 and other Pollutants. If cleaner fuel such as CNG/PNG is made available to industries the RSPM, SO_2 will be reduced and Ambient Air Quality will be improved. Board has given NOC to IGL for vehicles as well as industrial & domestic use. These companies need to expedite there distribution network for the same	Gas & Oil Companies are in process of getting more and more industries on board and complete switch over from solid fuel to clean fuel will be done in a time bound Manner.	Gas and Oil Companies
d)	• **Clean fuel for vehicles:** Sufficient number of CNG stations should be provided to ensure continious and enough supply of clean fuel.	01 year / As per plan submitted by Gas Agencies.	RTO & Gas Companies

e)	• **Installation of Ambient Air Quality Monitoring Stations:** At present manual AAQM Stations are operational but they need to be upgraded to monitor RSPM and $PM_{2.5}$ as per new AAQM Standard and also other parameters listed in new AAQM continuous AAQM Stations need to be set up Ambient Air Quality in critical Industrial Zones to be monitored manually once in every 02 months on 24 hours basis by UPPCB.	1 Year	UPPCB and CPCB
f)	• **Display of AAQMS data:** On line display of AAQMS data at two different locations in the area need to be under taken by Industries Association and UPPCB	1.5 Years	Industries /UPPCB & CPCB
g)	• **Use of Cleaner fuel:** Time frame to be chalked out by RTO for conversion of all Commercial vehicles such as Auto, Bus & Auto into CNG.	01 Year	Transport Department in consultation with Oil & Gas Companies
h)	• **Development of Green Belt:** Should develop Green belt from 20% to 40% of the total area.	Ongoing	Dept. of Industries /Forest Dept. & Concerned Industries

3.6.1 Existing infrastructure facilities- Ambient Air Quality Monitoring Network

Number of manual AQ monitoring station	Number of CAAQMS	Total Monitoring station
02	03	05



#	Location/Station	Location Code	#	Location/Station	Location Code
1		A1	3		A3
2		A2	4		A4

3.6.2 Pollution control measure installed by the individual sources of pollution

S. No.	Pollution Sources	Category	APCS installed(Y/N)
1	Industrial	Red/Orange	Yes

3.6.3 Technological intervention

3.6.3.1 Inventorization of prominent industries with technological gap

S. No.	Industries	Category	APCS installed(Y/N)
1	0	..	....

3.6.3.2 Identification of low cost and advanced cleaner technology for air pollution control:

3.6.3.3 Introduction and switch over to cleaner fuel

S. No.	Number of industries adopted cleaner fuel technologies	Previous fuel	New fuel
1	01	Wood	PNG

3.6.4 Need of infrastructure renovation

3.6.4.1 Development of roads: Identification of damaged roads which needs repairment and maintenance:

S. No.	Identified damaged roads	Length	Remarks
1	.....	...	....

3.6.5 Impact on CEPI score after installation/ commissioning of fully fledged air pollution control systems

S. No.	CEPI score before APCS	CEPI score before APCS	Percent improvement
1			

3.6.6 Managerial and financial aspects- cost and time estimates

3.6.6.1 Cost and time estimates: Details of cost estimated for any infrastructure renewal related works, if any.

3.6.6.2 Identified private/ sector potential investors and their contribution/ obligations: If any, investment from private sector potential investors please provides details.

3.6.6.3 Government budgetary support requirement

S. No.	Amount of budget allocated to CEPI area	Remarks
1	0	...

3.6.6.4 Hierarchical and structured managerial system for efficient implementation

3.6.7 Self monitoring system in industries (stacks, APCDs)

S. No.	Industries	Category	APCS/APCDs installed(Y/N)
1	.....	...	....

3.6.8 Data linkages to SPCB/ CPCB (OCEMS)

S. No.	Industries	Categ.	Data linkage (Y/N)
1	Al-Faheem Meatex Pvt. Ltd., Vill.-Alipur, Hapur Road, Meerut	Red	Yes
2	Al-Saqib Exports Pvt. Ltd., Vill.-Alipur, Hapur Road, Meerut	Red	Yes
3	Continental India Ltd.,Modipuram,Meerut	Red	Yes
4	Gangol Sehkari Dugdh Utpadak Sangh Ltd, Gangol Road, Meerut	Red	Yes
5	Harbans Dairy, Mohiuddipur, Meerut	Red	Yes
6	Harbans Lal Foods Pvt. Ltd, Mohiuddipur, Meerut	Red	Yes
7	Kailash Dairy, Rithani,Delhi road,Meerut	Red	Yes
8	Sardhana Papers Pvt Ltd.,Sardhana,Meerut	Red	Yes
9	Anheuser-Busch InBev formerly Sab Miller India Ltd,Meerut cantt,Meerut	Red	Yes
10	Tanya Marketing Pvt. Ltd. Alipur Jijmana Hapur Road, Meerut	Red	Yes
11	Alps Industries Ltd., Vill.-Aminagar Bhoorbaral,Meerut	Red	Yes

12	Anand Triplex Board Ltd., Vill – Saini Mawana Road, Meerut	Red	Yes
13	Bajaj Hindustan Ltd, Distillery Unit, Kinoni, Meerut	Red	Yes
14	Bajaj Hindustan Ltd, Sugar, Kinoni, Meerut	Red	Yes
15	Chamunda Papers (P) Ltd., Dheerkheda Ind. Area ,Meerut	Red	Yes
16	Daurala Sugar Works, Sugar Unit, Daurala , Meerut	Red	Yes
17	Dev Priya Product Ltd. Vill Saini Mawana Road ,Meerut	Red	Yes
18	Dev. Priya Papers Ltd. Vill – Saini Mawana Road ,Meerut	Red	Yes
19	IPL (U.P. State Sugar Corp. Ltd). Sakauti Tanda , Meerut	Red	Yes
20	Janki news print pvt. ltd.(Sumit Agro Products Ltd.) Panchali Baghpat Road Meerut	Red	Yes
21	Kanav Papers Pvt Ltd(Formaly known as Dev Priya Fibers Pvt.Ltd.. Panchli, Bagpat Road ,Meerut	Red	Yes
22	Mawana Sugar Works, Mawana , Meerut	Red	Yes
23	Naglamal Sugar Complex Garh Road, Meerut	Red	Yes
24	New Bonanja India Ltd., Saini, Mawana Road, Meerut	Red	Yes
25	Paswara Papers Ltd., Mohiuddinpur , Meerut	Red	Yes
26	Sangal Papers Ltd.Vill – Bhainsa Mawana, Meerut	Red	Yes
27	Shri Venktesh Paper Mills Formely Known as Anand Tissues Ltd., Vill.Fitkari, Mawana,Meerut	Red	Yes
28	Star Kraft Papers Pvt ltd(Formely known as Devstar Paper Pvt Ltd. Panchali,Bagpat Road,Meerut	Red	Yes
29	UP State Sugar Corp. Ltd. Mohiuddinpur ,Meerut	Red	Yes
30	Synergy waste Management Pvt Ltd,Subhartipuram,Delhi Byepass,Meerut	Red	Yes

3.6.9 AAQM Status of Districts

S. No.	NAME AND ADDRESS OF THE NDUSTRY	PHONE NUMBER	NUMBER OF AAQM INSTALLED	PARAMETERS MONITORED
1	NA			PM_{10}, SO_2, NOx & CO
				$PM_{2.5}$, PM_{10}, SO_2, NOx, CO, Ammonia, Benzene, Ozone
2.				$PM_{2.5}$, PM_{10}, SO_2, NOx, CO, Ammonia, Benzene, Ozone
3				$PM_{2.5}$, PM_{10}, SO_2, NOx, CO, Ammonia, Benzene, Ozone
4				$PM_{2.5}$, PM_{10}, SO_2, NOx, CO, Ammonia, Benzene, Ozone, Toluene, Xylene, Humidity, Raingauge, Temperature, Solar Radiation, Wind Speed and Direction

4. Land Environment (Soil and ground water)

4.1 Soil contamination

4.1.1 Present status of land environment supported with minimum one-year data:

S. No.	Cluster	Months(2019)	Present status	Condition
1	….	…..	….	…
2				

4.1.2 Critical locations for land/soil pollution assessment and ground water monitoring

S. No.	Locations identified	Coordinates		Distance and direction
		Latitude	Longitude	
1	….	…	…	….

4.1.3 Present levels of pollutants in land / soil and ground water (routine parameters, special parameters and water toxics relevant to the area in three categories- non carcinogens, probable carcinogens and other toxics)

. No.	Parameters	Observed values	Standards
1	…….	…..	…..
2			

4.1.4 Pre dominant sources contributing to or posing danger of pollution of land and ground water such as hazardous/ toxic waste or chemical dumps/ storage etc.

S. No.	Sources	Percent contribution	Main Pollutants
1	….	…..	….
2			

4.1.5 Sources of soil contamination

S. No.	Sources	Coordinates		Distance and direction
		Latitude	Longitude	
1	….	….	…	…

4.1.6. Types of existing pollution: Please provide details

4.1.7. Remedies for abatement, treatment and restoration of normal soil quality: Please provide details and treatment methods adopted

4.2 Ground water contamination

4.2.1. Present status /quality of ground water

S. No.	Cluster	Months(2019)	Present status	Condition
1				
2				

4.2.2. Source identification (Existing sources of Ground water pollution)

S. No.	Sources identified	Coordinates		Distance and direction
		Latitude	Longitude	

4.2.3. Ground water quality monitoring program

S. No.	Sampling Locations	Coordinates	Frequency	Parameters tested
1.	**Baghpat Bus stand in front of Maszid**	**Latitude -28.944609 Longitude -77.220838**	**Twice in a year**	**pH Cond Cloride Sulphate Hardness TDS Phosphate Floride Nitrate**
2	**Khekra Bus stand near Police Station**	**Latitude -28.864734 Longitude -77.254890**		
3.	**Daurala near Railway Crossing**	**Latitude -29.120476 Longitude -77.707105**		
4.	**Sadar Tubebell House No 4**	**Latitude -28.995925 Longitude -77.697053**		

4.2.4. Action plan for control of pollution including cost/ time aspects

Short Term Action Points (up to 1 year, including continuous activities)			
Sr. No.	**Action Points**	**Timeline**	**Responsible Agencies/ Stake Holders**
4.2.4 a)	**Land Pollution** Proper Storage & Disposal of Hazardous Waste & Solid Waste.	To send waste every 03/04 months	Individual Industry
Long Term Action Points (more than 1 year)			
			Responsible

Sr. No.	Action Points	Timeline	Agencies/ Stake Holders
4.2.4 b)	**Land Pollution** **Soil Testing** Soil testing of some large scale industry has been done and is being carried out every month. Soil testing for different metals like Pb, Cr, Cu, Fe etc. twice a year through recognize laboratory.	01 Year	UPPCB

4.2.5. Treatment and management of contaminated ground water bodies etc: Please provide details

4.2.6. Impact on CEPI Score after abatement of pollution:

S. No.	CEPI score before	CEPI score before	Percent improvement

4.3 Solid Waste Generation and Management:

4.3.1. Waste Classification and Quantification

S. No.	Source	Category	Quantity
1	Domestic	MSW	800 ton per day

4.3.1.1. Hazardous Waste

S. No.	Source	Quantity
1	Industries	1837.992MT per annum

4.3.1.2 Bio-Medical Waste

S. No.	No. of CBWTF	Quantity	Authorization
1.	1	300 Kg/Hr.	1

4.3.1.3 Electronic Waste

S. No.	No. of Electronic waste treatment facility	Quantity	Authorization
1	07	5000TPA	07

4.3.1.4 Municipal Solid Waste/ Domestic Waste/ Sludge Fro STPs/ETPs/CETPs and Other Industrial Sources

S. No.	Type of Pollution Sources	% OF Waste Generated
1	NA	

4.3.1.5 Plastic Waste

Sr. No.	No. of Plastic waste Processing facility	Quantity	Authorization	Compliance status
1	1	30TPD	No	Not Complying

4.3.1.6 Construction and Demolition Waste

S. No.	No. of C&D waste Processing facility	Quantity	Authorization	Compliance status
1	NA			

4.3.1.7 Quantification Of Waste And Relative Contribution From Different Source

S. No.	Pollution source	Type of Wastes	Relative Contribution
1	NA		

4.3.2. Identification of Waste Minimization and Waste Exchange Options: Please provide details if any

4.3.3. Reduction/Reuse/ Recovery/ Recycle Options in the Co-Processing of Waste: Please provide details of co-processing options of waste

4.3.4. Infrastructure Facilities:

4.3.4.1. Existing TSDF/Incineration Facilities Including Capacities

Sr. No.	TSDF/Incineration Facilities	Capacity	Location
1	NA		

4.3.4.2. Present Status / Performance and Need up Gradation Of Existing Facilities Including Enhancement Of Capacities: Please provide details**:**

1. **Treatment And Management Of Contaminated Waste Disposal Sites Etc:** Please provide details
2. **Impact On CEPI Score After Proper Management Of Solid Waste**

Sr. No.	CEPI Score before management of solid waste	CEPI Score after management of solid waste	% Change
1	....	...	....

5. PPP Model

5.1 Identification of projects proposals (for both the options i.e technology intervention and infrastructure renewal) for implementation under the PPP mode under the Action Plan.

Please provide details of any PPP model based Action Plan taken into consideration for technology intervention and infrastructure renewal, if any.

a. Identification of Stockholders/agencies to be involved and to evolve financial managerial mechanism for implementation of PPP projects.

Please provide details Stockholders/agencies involved in financial managerial mechanism for implementation of PPP projects, if any.

6. Other infrastructural Renewal measures:

6.1. Green belts

S. Nos.	Green Belt Developed/ upcoming Green belts	Area	Features
1	NA		

6.2. Development of Industrial Estate(s)

S. No.	Development of Industrial Estates	Area	Features
1	NA		

6.3. Development / shifting of industries located in the non industrial areas to the existing/new industrial estates.

S. No.	Shifting of non-Industrial areas to Industrial Estates	Area	Features
1	NA		

7. Specific Schemes:

7.1. GIS-GPS System for pollution sources monitoring

Please provide details GIS-GPS System for pollution sources, if any.

S. No.	GIS-GPS System enabled Pollution sources	Remarks
1	NA	

7.2. Hydro- geological fracturing for water bodies rejuvenation

Please provide details of Hydro- geological fracturing for water bodies rejuvenation, if any.

7.3. In-situ remediation of sewage

S. No.	Pollution sources with in-situ remediation facility	Treatment method	Discharge
1	NA		

7.4. Utilization of MSW inert by gas based brick kilns

S. No.	Number of Brick kilns	Fuel
1	0	

7.5. Co- processing of wastes in cements industries

S. No.	Cement industries	Fuel
1	0	

8. Public awareness and training programs

Please provide details of Public awareness and training programs held and organized within the CEPI areas and their impact.

9. Overall impact on installation/commissioning of pollution control equipment/ measures on the CEPI score

S. No.	CEPI score before installation/commissioning of pollution control equipment/ measures	CEPI score after installation/commissioning of pollution control equipment/ measures	Percent change (%)
1			

10. Assessment of techno-economic visibility pollution control system in clusters of small/medium scale industries

Please provide detailed assessment report.

11. Efforts shall be made to encourage use of Bio-compost and Bio-fertilizers along with the chemical fertilizers in the state to minimize the unutilized chemical fertilizers runoff into the natural water resources from agriculture fields (through Govt. Policy)

Please ensure the implementation of above mentioned point

12. Summary of proposed action points

12.1 Short Term Action Point (Upto one year, including continuous activities)

Sr. No.	Action Points	Timeline	Responsible Agencies/ Stake Holders
12.1 a)	**Water Pollution** • **Industrial Source** - Proposed Action Plan for effective control of Water Pollution: Regular effluent sample collection and analysis of Pollution Control System in Red, Orange & Green category Industries to be done to ensure strict compliance of prescribed Norms.	**Frequency** Red category- **3 months** Orange category -**6 months** Green category -**12 months** (By UPPCB) & By Individual Industries	UPPCB Individual Industry
b)	• Installation of energy meter, on line PH meter, automatic chemical dozing system, online continuous effluent and emission monitoring system (OCEEMS) and establishment of independent laboratory to monitor critical parameters like MLSS, SVI etc. and other inlet and outlet parameters of ETP for Large & Medium Industries	Ongoing	Individual Industries (Large and Medium)
c)	• Upgradation of ETP in existing water polluting units is to be done on case to case basis. Under the upgradation plan, suitable tertiary treatment methods are to be installed in a time bound manner in order to ensure that treated water is recycled / reused to the maximum extent.	Within 06 months.	Individual Industries.
d)	• **Groundwater Pollution:** Regular monitoring of Over Head Tanks supplying drinking water in the region and Rainy wells is proposed to be done by Regional Laboratory of State Pollution Control Board. Also, intensive surveys will be done to ensure that practice of reverse boring is not prevalent in the region.	Ongoing	Jal Nigam/ State Ground Water Authority
f)	• **Domestic Waste Water (Sewage):** Effective operation & maintenance of installed STP. Joint Inspection of STPs by ULBs/ UPPCB/ Jal Nigam Setting up of STPs in upcoming high rise buildings, commercial project, educational institution, multi plexes, town ship & building projects Reuse of treated sewage.	Ongoing Process	ULBs/ UPPCB & Jal Nigam

	Upgradation of STPs to meet revised norms.		
g)	• **Inventorization of Air Polluting Industries:**	Stack Monitoring of Large & Medium units every 06 months and once in a Year for SSI units. (By UPPCB & by individual Industries)	UPPCB & Individual Industries.
h)	• **Proposed Action Plan for effective control of Air Pollution**: Regular Monitoring of Pollution Control System in Industries.		UPPCB & Individual Industries.
i)	• **Illegal setup of Industrial activities:** Regular drives are to be carried out by Pollution control board and District Administration to identify and seal illegally operating industrial activities.	Combined drives every 2 months by UPPCB & District Administration.	UPPCB and District Admn.
j)	• **UPPCL to ensure:** that electric connection is not sanctioned in favor of such industries which are not in conforming area.	Within 01 month	UPPCL and Udyog Bandhu
k)	• **Monitoring of D.G Sets:** Inventorization of Old D.G. Sets in Industrial clusters and Commercial set ups including Multiplexes / Shopping Malls/ Educational Institution within or near industrial areas to be done by UPPCB. I. Post inventorization remedial action with respect to air and noise pollution from likely sources shall be taken against defaulters. II. Installation of Acoustic Enclosure with adequate stack height in Old D G Sets to be ensured.	06 Months. Ongoing 9 months	UPPCB
l)	• **Noise Monitoring:** Board is procuring real time noise monitoring system. This will be installed in Commercial, Residential, Industrial and Sensitive Zones of the Region.	Ongoing	UPPCB
m)	• **Land Pollution:** Proper Storage & Disposal of Hazardous Waste & Solid Waste:	To send waste every 03/04 months to TSDF	Individual Industry/ UPPCB
n)	• **Bio-Medical Waste Disposal:** member of authorized Common BMW Treatment Facilities Regular Inspection and monitoring of Hospitals / Nursing Homes has to be done	Inspection of Big Hospitals Every 03 months & Small Hospitals every 06 Months by UPPCB.	Regional Office, UPPCB

12.2 Long Term Action Points (More than 1 year)

Sr. No.	Action Points	Timeline	Responsible Agencies/ Stake Holders

12.2 o)	• **Water Pollution Industrial Pollution:** Adoption of Cleaner Technology to reduce quantity of waste water, Promote recycle after treatment for sector like Paper, Tannery. Strategies regarding cleaner technologies in Paper industries are to be conducted in a time bound manner. In the Waste Paper based units, stress is being laid for setting up of tertiary treatment facilities in order to ensure maximum recycling of treated waste water. Also recycling of the process water is being done as part of cleaner technologies.	Within 01 Years. (By Industries)	Individual Industries UPPCB & Individual Industries
p)	• Widening and Covering of major open Nalas carrying domestic sewage.	Ongoing	ULBs/UPSIDA
q)	• **Groundwater Pollution**: Ground water study may be carried out in all Industrial Clusters by Out Sourcing Agencies.	1 Year.	UPPCB & Designated Agencies.
r)	• **Air Pollution/Industrial Pollution:** Implementation of Cleaner technology in order to reduce quantity of process and fugitive emissions and effective Operation & maintenance of installed APCS. Implementation of cleaner technology / adoption of cleaner fuel, identification of industries to be done in time bound manner. Switching over to cleaner fuel has been proposed as the best option to control Air Pollution in Industrial Areas. Some Industries have already switched to cleaner fuel technology. Technological intervention / switching over to cleaner fuel to be done in time bound manner. To supply and promote the use of cleaner fuel like CNG, in order to reduce emissions in the industrial	1 Year	UPPCB and Individual industry
s)	• **Introduction of Cleaner Fuel for Industrial Uses :** Currently industries are using Coal/ Wood and LDO/LSHS as a fuel which emits SPM and SO2 and other pollutants. If CNG is made available to industries the RSPM, SO2 will be reduced and Ambient Air Quality will be improved. Board has given NOC to IGL & Adani Group to provide CNG in Noida for vehicles as well as industrial & domestic use. These companies need to expedite there distribution network for the same at the earliest.	Gas & Oil Companies are in process of getting more and more industries on board and complete switch from solid fuel to clean fuel will be done in a time bound manner.	Gas and Oil Companies
t)	• **Clean fuel for vehicles:** At present 16 CNG stations have been building to supply clean fuel. These stations have	01 year / As per	

	Compression capacity. Also, all commercial three wheelers buses being registered using CNG only. Phasing out of old diesel commercial vehicles is being done as per policy.	plan submitted by Gas Agencies.	RTO & Gas Companies
u)	• **Development of Green Belt:** Develop Green belt from 20% to 33% of the total area.	Ongoing	Forest Department
v)	• **Land Pollution Soil Testing:** Soil testing of some large scale industry has been done and is being carried out every month. Soil testing in all 3 industrial clusters of Noida is proposed to be done for different metals like Pb, Cr, Cu, Fe etc. twice a year through recognize laboratory.	01 Year	UPPCB
w)	• **Study of impact on Human Health of Water & Air Pollutants**		IITR (Earlier ITRC) / Health Department
x)	• **Municipal solid waste Disposal:** At present Municipal solid waste is disposed as landfill in low lying areas. Authority should develop proper MSW facility as per MSW Rules at Proper site. Quantification of MSW Site selection for MSW disposal Strategy for implementation / setting up of integrated facility for MSW to be decided in consultation with local civic authority and implementation to be done in time bound manner. Upcoming High Rise Buildings, Commercial Project, Educational Institution, Multi Plexes, Town ship & Building Projects are major source of Municipal Solid Waste Such projects must ensure setting up of in house MSW disposal facilities as per MSW Rules & ensure compliance of the conditions of the Environment Clearance and NOC from PCB	Every 3 months	Project proponent to give compliance report to UPPCB.
y)	• **Committee Update:** As per directions from Ministry of Environment and Forest, Government of India short listing of Senior citizen candidate and a representative of a NGO to be included in the State Level Monitoring Committee.	1 Year	UPPCB and DEC