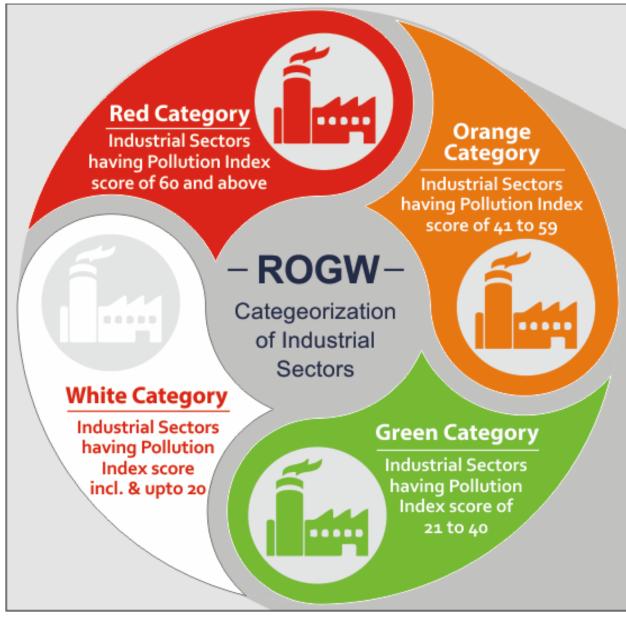
Environmental Management Plan for Critically/Severely Polluted Area

Aligarh



Uttar Pradesh Pollution Control Board, Aligarh

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.

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 <u>Annexure</u> **No.-IV**

In compliance 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

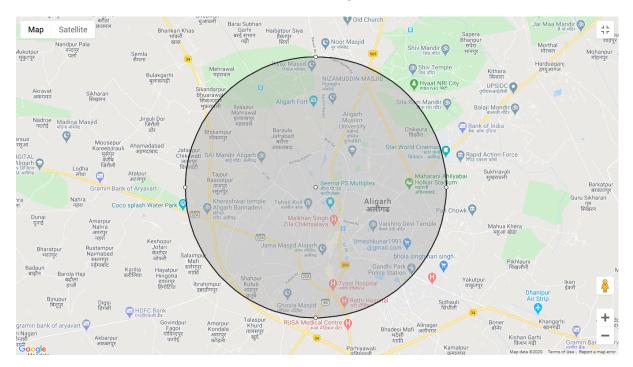
management of Critically/ Severely polluted area enclosed with CPCB letter Dated 25.10.2019 available as <u>Annexure No.-V</u>

1.1 AREA DETAILS

As per the CEPI assessment, following areas have been identified as Critically polluted area Aligarh.



UPSIDC Tala Nagri



ITI Industrial Area

1.2.1 LOCATION

The coordinates of the cluster boundary are as follows:

Direction	Latitude	Longitude	Location
East	27.88755	78.02245	Khushali Baba Mandir
West	27.88386	78.12548	Near Ozone City
North	27.91216	78.07602	AMU Campus
South	27.84168	78.06807	Badhauli Fateh Khan

1.2.2 LOCATION

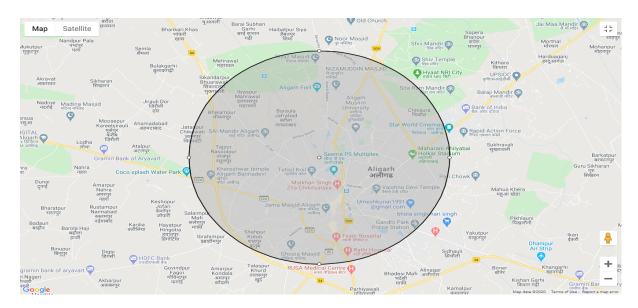
The coordinates of the cluster boundary are as follows:

Direction	Latitude	Longitude	Location
East	27.89926	78.01540	Hardaspur
West	27.90285	78.09930	Maharani Ahilyabai Holkar Stadium
North	27.94282	78.06250	Noor Masjid Campus
South	27.85357	78.07703	Rusa Medical Center

1.3 Digitized map showing geographical boundaries and Impact Zones



UPSIDC Tala Nagri



ITI Industrial Area

1.4	CEPI Score (Air, Wa	ater, Land	and Total)
	Air	-	56.25
	Water	-	61.88
	Land	-	11.88
	Total average	-	64.42

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.	Population		Number of		Number of		Number of		Other socially	
Ν			Hospitals		Educational		Courts		sensitive features	
0				Institutions		tions				
	Within	Impact	Withi	Imp	Within	Impa	Withi	Impa	With	Impact
	Cluster	Zone	n	act	Cluster	ct	n	ct	in	Zone
			Cluste	Zon		Zone	Clust	Zone	Clust	
			r	e			er		er	
1	874408	1755876	316	443	20	25	01	0	1	0

1.6 Eco-Geological Features: There are no declared Eco-Geological features within the Study area.

1.6.1 Major water bodies : Kali River

ſ	S. No	Rivers		Lal	Kes	Ponds		
		Within	Impact	Within	Impact	Within	Impact	
		Cluster	Zone	Cluster	Zone	Cluster	Zone	
	1	01	01	0	0	0	0	

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. Nos.	List of environmentally		Number	Distance	and		
	sensitive zones				direction		
1	NA		NA	Nil	NA		

1.6.3 Buildings or Monuments of historical/archaeological/religious importance

S. Nos.	List of Buildings or Monuments of historical/archaeological/religious importances	Number	Distance and direction	L
1	NA			

1.7 Industry classification:

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

1.7.1 Highly Polluting Industries (17 CATEGORIES)

SCALE OF		HIGHLY POLLUTING INDUSTRIES					
INDUSTRIES	Air	Water	NO. OF E-WASTE/HAZARDOUS WASTE GENERATING INDUSTRIES				
LARGE	7	7	7				
MEDIUM	1	1	1				
TOTAL	8	8	8				

1.7.2 Red Category Industries (55 CATEGORIES)

SCALE OF	HIGHLY POLLUTING INDUSTRIES					
INDUSTRIES	AIR	WATER	NO. OF E- WASTE/HAZARDOUS WASTE GENERATING INDUSTRIES			
LARGE	02	02	02			
MEDIUM	21	21	21			
SMALL	32	32	31			
TOTAL	55	55	54			

1.7.3 Orange Category Industries

SCALE OF	HIGHLY POLLUTING INDUSTRIES					
INDUSTRIES	AIR	WATER	NO. OF E-WASTE/ HAZARDOUS WASTE GENERATING INDUSTRIES			
LARGE	0	0	0			
MEDIUM	0	0	0			
SMALL	54	54	0			
TOTAL	54	54	0			

1.7.4 Green Category Industries

Scale Of	Number of Industries					
Industries	Air	Water	No. Of E-Waste/Hazardous Waste Generating Industries			
Large	0	0	0			
Medium	0	0	0			
Small	52	52	0			
Total	52	52	0			

2.0 Water Environment

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

S. No	Parameters	Observed values	Standards					
		Values	Cat. A	Cat. B	Cat. C	Cat. D	Cat. E	
1	Color (Hazen)	19.5-24	10	300	300			
2	рН	7.22-7.73	6.5- 8.5	6.5-8.5	6.5-8.5	6.5-8.5	6.5-8.5	
3	DO(mg/l)	3.3 - 4.3	6	5	4			
4	BOD(mg/l)	11.4 - 15.4	2	3	3			
5	Total Coli form(MPN/ 100 ml)	-	50	500	5000			

(A) U/S Kali River at Atrauli, Aligarh

(B) D/S Kali River at Atrauli, Aligarh

S.	Parameter	Observed		Standards							
Ν	S	values	Cat. A	Cat. B	Cat. C	Cat. D	Cat. E				
0			Cal. A	Cat. D	Cat. C	Cat. D	Cat. E				
1	Color	18.4-22.8	10	300	300						
	(Hazen)										
2	рН	7.34-7.81	6.5-8.5	6.5-8.5	6.5-8.5	6.5-8.5	6.5-8.5				
3	DO(mg/l)	3.66-4.51	6	5	4						
4	BOD(mg/	12.2-17.8	2	3	3						
	l)										
5	Total Coli	-	50	500	5000						
	form(MP										
	N/100										
	ml)										

NOTE - Standards for surface water are categorized as follows:

> Cat. A- Drinking without conventional treatment but after disinfecting.

- **Cat. B- Outdoor bathing**
- Cat. C- Drinking with conventional treatment followed by disinfection
- Cat. D- Fisheries

Cat. E- Irrigation, industrial cooling ,controlled waste disposal

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	NA	00	00

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)

General Parameters - Kali River at Atrauli, Aligarh

S. No	Parameters	Observed values		Star	ndards		
		(Novmber 2020)	Cat. A	Cat. B	Cat. C	Cat. D	Cat. E
1	Color(Hazen)	24	10	300	300		
2	рН	7.4	6.5-8.5	6.5-	6.5-	6.5-	6.5-
				8.5	8.5	8.5	8.5
3	DO (mg/l)	2.8	6	5	4		
4	TDS(mg/l)	-	500		1500		1200
5	BOD(mg/l)	20	2	3	3		
6	COD(mg/l)	76					

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:

S.No.	Drain	Type of Industry	Total Effluent Discharge (MLD)	
		Metal Surface Treatment	Total	
1.	3 no. of Drains	25	25	0.530

Summary of Industrial Units

2.5.2 Domestic Pollution Sources

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:-

S.No.	Name of	Loc	ation	Installed Capacity	Utilized Capacity	Capacity Utilized	Operating Govt.	Discharge Drain	
	STP	Latitude	Longitude	(MLD)	(MLD)	(%)	Agency		
1.	Aligarh	27.863861	78.065456	45 MLD	Under Construction	-	U.P. Jal Nigam	Aligarh Drain	

Details of STPs

DETAILS OF CETPs

No CETP is Installed within the cluster/impact zone

S.No.	District	Name of	Location			Utilized Capacity	Operating Govt.	Discharge Drain
		CETP	Latitude	Longitude	(MLD)	(MLD)	Agency/SPV	Drum
1.	Aligarh			—		_	_	—

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

At present there is no leachate treatment plant installed for the treatment of leachate generating from MSW dump site. However, it is proposed to install one leachate treatment plant of capacity at Trenching ground Gulab Badi Moradabad.

2.6 Impact on Surrounding Area (Outside the PIAs):

Untreated sewerage will have impact outside the PIA.

2.7 Details of Water Polluting Industries in the Area/ Cluster

S. No	Name & Address of Industry	Туре	Location		Treatment Mechanism	Effluent Discharge (KLD)	Name of Drain	Consent Status upto
			Latitude of Industry	Longitude of Industry	(ETP/CETP)			
1	2	3	4	5	6	7	8	9
1	M/s Ray- Internation Tala Nagar, Industrial Area, Aligarh	Builders Hardware & Electroplating	27.933683	78.137908	ЕТР	12.0	Chherrat Drain	
2	M/s Ambika Metal Works, B-20 Industrial Estate, Aligarh	Builders Hardware & Electroplating	27.899356	78.060914	ЕТР	5.0	Aligarh Drain	
4	M/s Prashant Enterprises, Village- Baraula Jafrabad, Tehshil- Koil, Aligarh	Hardware	27.907952	78.076582	ETP	3.0	Aligarh Drain	
5	M/s Home Fit Export, A-9, Industrial Estate, Aligarh	Builder Hardware	27.903743	78.062944	ETP	3.0	Aligarh Drain	
7	M/s Rajeev Metal Industries, Industrial Area, Tala Nagar, Aligarh	Builders Hardware & Electroplating	27.933875	78.138992	ETP	5.0	Chherrat Drain	
8	M/s Sigma Engeeniring Works, Anoopshahar Road, Aligarh	Builders Hardware & Electroplating	27.948113	78.086493	ЕТР	6.0	Chherrat Drain	
9	M/s Parfect Product, Industrial Estate, Aligarh	Builders Hardware & Electroplating	27.899356	78.060914	ETP	2.5	Aligarh Drain	

10	AURA INDUSTRIES MEHRAWAL, G.T. ROAD, ALIGARH,ALIGARH, ALIGARH	Metal Surface Treatment	27.903723	78.075896	ETP	8.0	Aligarh Drain	
11	M/s Creative & Craft Industries India Pvt Ltd, Mauza Sarsol Bahar Chungi, Near Phal Mandi, G.T. Road, Aligarh	Hardware Item	27.9199315	78.0321698	ETP	3.0	Aligarh Drain	
12	M/s Spider Metal Product Pvt. Ltd. A- 54, 57, Industrial Area, Tala Nagari, Aligarh	Hardware	27.934213	78.140373	ETP	3.0	Chherrat Drain	
13	M/s Godani Infratech Pvt. Ltd., 5 Km. Behind of Phal Mandi, Sarsoil, Delhi G.T. Road, Distt- Aligarh	Builder Hardware	27.920236	78.032884	ETP	3.0	Aligarh Drain	
14	M/s Mascot Metal Manufectures, A- 2, Industrial Estate, Aligarh	Building Hardware	27.9031455	78.0619604	ETP	3.0	Aligarh Drain	
15	M/s Mascot Metal Manufectures, D- 11. C-23.24, Industrial Estate, Aligarh	Building Hardware	27.903285	78.062138	ETP	3.0	Aligarh Drain	
16	M/s Mascot Metal Manufectures Barola Jafrabad, I.T.I. Road, Aligarh	Building Hardware	27.9032924	78.0621320	ETP	3.0	Aligarh Drain	
17	M/s Agrawal Metal Works, C-98, 99, Sector-1, Talanagri, Aligarh	Building Hardware	28 ⁰ 49'42.36"	78º44'03.24"	ETP	3.0	Chherrat Drain	
18	M/s Kurana Backels Pvt Ltd, C-73,	Building Hardware	28 ⁰ 49'16.52"	78 ⁰ 47'04.62"	ETP	3.0	Chherrat	

	Sector-1, Talanagri, Aligarh		Τ	1	·		Drain	
19	M/s Cent Metal Industries, B-12, 13,		28 ⁰ 49'37.26"	78 ⁰ 43'54.98"	ETP	3.0	Aligarh	
I	Industrial Estate, Aligarh	Building Hardware					Drain	
20	M/s Sagar Bakkel Pvt Ltd, D-149,		27.940707	78.1382330	ETP	3.0	Chherrat	
1	Sector-1, Talanagri, Aligarh	Hardware Item					Drain	
21	M/s Sadani Overseas, Marthari, G.T.	Building Hardware	28 ⁰ 49'40.17"	78 ⁰ 43'37.70"	ETP	3.0	Aligarh	
	Road, Aligarh						Drain	
22	M/S R S METAL PRODUCTS PLOT NO		28 ⁰ 49'21.91"	78 ⁰ 43'25.91"	ETP	3.0	Aligarh	
	4,5,6,7, SHARDA INDUSTRIAL						Drain	
'	COMPLEX BAROLA BYE PASS ALIGARH ALIGARH	Building Hardware						
'								
23	M/s Vartax Exports, C-1241, 242,		27.931470	78.136797	ETP	3.0	Chherrat	
	Sector-2, Industrial Area, Talanagari,	n il lie - Herduiaro					Drain	
'	Aligarh	Building Hardware						
24	M/s Anil Lock, A-38, Sector-2,		27.931225	78.143757	ETP	3.0	Chherrat	
'	Industrial Area, Talanagri, Aligarh	Building Hardware					Drain	
25	M/s Bhole Baba Dairy Industry Ltd,		+	+				
	Khereswat Dham, Khair Road, Aligarh	Dairy						
26	M/s Zydus wellness Products Ltd,		+	+				
20	Manzoorgarhi, Chherrat, Aligarh	Dairy						
<u> </u>		-		<u> </u>				
27	M/s Juberi Fibers Pvt. Ltd. U.P.S.I.D.C. Cherat Industrial Area,							
	Aligarh	Pulp & Paper						
'	Aligan							

28	M/s Ambey Enterprises, D-8, Industrial Estate, Aligarh	Building Hardware			
29	M/s Bajaj Hardware (Unit-2), Madrak, Koil, Aligarh	Building Hardware			
30	M/s B.R. Industries, A-53, Sector-2, Industrial Area, Aligarh	Building Hardware			
31	M/s Castel Hardware , A-3, Industrial Estate, Aligarh	Building Hardware			
32	M/s L.D. Goyal Steels Pvt LTd, A-39, 40, B-69,70 Sector-2, Indusrial Area, Talanagri, Ramghat Road, Aligarh	Building Hardware			
33	M/s Mankameshwar Steel Pvt Ltd,B- 71,72, Industrial Area, Tala Nagri, Aligarh	Building Hardware			
34	M/s Swaroop Pharmasuticals Pvt Ltd, Talanagri, Aligarh	Pharma			
35	M/s Ray-International (Unit-2), A-26, Sector-2, Industrial Area, Aligarh	Building Hardware			
36	M/s Unique International, D-13, Industrial Area, Tala nagri, Aligarh	Building Hardware			
37	M/s Radish Technology, A-25, Sector- 2, Industrial Area, Aligarh	TV Bracket, Electronic Component of Phasphate Plating			
		· · · · · · · · · · · · · · · · · · ·	16		·]

38	M/s Kadamgiri Steel, A-42 to 44, Sector-2, Industrial Area, Talanagri, Aligarh	Building Hardware			
39	M/s S.R. Rolling Mill, Village- Kundhar, Secotor-2, Industrial Area, Aligarh	Rolling Mill			
40	M/s Khurana Buckels, C-73, Sector-1, Industrial Area, Talanagri, Aligarh	Metal & Footwear Accessories (Buckles)			
41	M/s Jitendra Udhyog, C-272, Sector- 2, Industrial Area, Talanagri, Aligarh	Building Hardware			
42	M/s Extream Exports, E-54, 74, Sector-2, Industrial Area, Talanagri, Aligarh	Building Hardware			
43	M/s Manoj Steel, B-19, Industrial Estate, Aligarh	Building Hardware			

2.8 Effluent Disposal Methods-

Treated Effluent is being discharged in drains which ultimately meet into River Yamuna.

2.9 Quantification Of Wastewater Pollution Load And Relative Contribution By Different Sources : a) Industrial:

S.No.	Drain	Type of Industry	Total Effluent Discharge (MLD)	Pollution load (BOD in kg/day)	
		Metal Surface Treatment	Total		
1.	3 no. of drains	25	0.530	5300	

Note: BOD of treated industrial effluent is taken as an avg.—10 mg/l $\,$

Domestic:

S No.	No. of Drains	Туј	pe of Drain	ns	Stat	us of D	rains	Indu	ıstries	Sew	vage Dis (MLD	scharge))	Pollution load (BOD in kg/day)
		Domest ic	Industri al	Mixed	Tapp ed	Unta pped	Partia lly Tapp ed	Numb er	Treated Effluent (MLD)		Untre ated	Total	
-	03	03	0	0	0	03	0	25	0.530	0	0	0	

Note:- Basis of BOD Load calculation has been considered as follows:

1. BOD of treated industrial effluent is taken as avg. - $10\ mg/l$

2. BOD of partially treated sewerage is taken as avg. - 50 mg/l

3. BOD of untreated sewerage is taken as avg. - 150 mg/l

2.10 Action Plan for Compliance and Control of Pollution

	Short Term Action Points (upto 1 year, included erm Action Points (upto 1 year, including contined and the second			
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		UPPCB and Jal	

2 10.1 Short Term Action Points (upto 1 year including continuous activities)

	Ongoing	Nigam
• Combined Inspection of STPs UPPCB and Jal Nigam	by Ongoing Process	UPPCB and Jal Nigam
 Upcoming High Rise Bu Commercial Project, Edu Institution, Multiplex, Town Building Projects are major of sewage generation and M Solid Waste. Such project ensure setting up of recirculation of treated wa flushing/gardening re purpose & ensure compliand conditions of the Envir Clearance and NOC from PCE 	ational ship & source Ongoing Process unicipal s must STPs, ter for garding e of the onment	Project proponent Local Authority & UPPCB.

2.10.2 Existing Infrastructure Facilities-

STP- 1 no. (58 MLD)

CETP-Nil

ETPs- Installed in all water polluting industries

S. No	Name & Address of Industry	Туре	Pollution Control Measures(Y/N)
1	2	3	4
1	M/s The Kishan Sehkari Chini Mill Ltd. Satha, Aligarh	Sugar	Y
2	M/s Zydus Wellnes Products Ltd (Old Name-Heinz India Pvt. Ltd) Anoopshahar Road, Aligarh	Milk Processing	Y
3	M/s Hind Agro Industries Ltd. Cherat, Anoopshahar Road, Aligarh	Slaugther House	Y
4	M/s Al Hamd Agro Foods Pvt. Ltd. Elyaspur, Aligarh	Meet Prosesing	Y
5	M/s Al Hamd Agro Foods Pvt. Ltd. (Unit-2) Elyaspur, Aligarh	Slaugther House	Y
6	M/s Al- Anam Agro Foods Pvt. Ltd. Aligarh	Meet Prosesing	Y
7	M/s Al- Tabarak, Frozen Foods Pvt. Ltd. Mullapada, Bhujpura, Aligarh	Meet Prosesing	Y
8	M/s Al- Hasan Agro Food Pvt. Ltd. Amarpur Kondla, Aligarh	Slaugther House	Y

9	M/s Al- Tabarak, Frozen Foods Pvt. Ltd. Mullapada, Bhujpura, Aligarh	Slaugther House	Y
10	M/s Figario Canzarva Allana Ltd. Village- Talaspur Khurd, Mathura-Bye Pass		Y
	Road, Tehshil-Koil, Aligarh	Slaugther House	
11	M/s Figario Kanzarva Allana Ltd. (Unit-2) Village- Talaspur Khurd, Mathura-		Y
	Bye Pass Road, Tehshil-Koil, Aligarh	Meet Prosesing	
12	M/s H.M.A. Egro Industries Ltd. Village- Talaspur Khurd, Mathura Bye Pass		Y
	Road, Tehshil- Koil, Aligarh	Slaugther House	
13	M/s Al-Dua Foods Pvt. Ltd. Village- Amarpur Kondla, Tehshil- Koil, Aligarh	Slaugther House	Y
14	M/s Koko Tok India Pvt. Ltd. Chamroula, Aligarh	Ofal Prosesing	Y
15	M/s Al- Ammar Frozen Foods Pvt. Ltd. (Slaughter House) Amarpur Kondla, Tehshil- Koil, Aligarh	Slaugther House	Y
16	M/s Al- Halal International Pvt. Ltd. Gata No. 28,72,117 & 118, Mauza-		Y
	Amarpur Kondla, Pargana& Tehshil- Koil, Aligarh	Slaugther House	
17	M/s Juberi Fibers Pvt. Ltd. U.P.S.I.D.C. Cherat Industrial Area, Aligarh	Multi Leyar Crafft & Duplex Paper	Y
18	M/s Bhole Baba Dairy Ltd. Kherashwar Dham, Khair Road, aligarh	Dairy	Y
19	M/s Ray- Internation Tala Nagar, Industrial Area, Aligarh	Builders Hardware & Electroplating	Y
20	M/s Ultratech Cement Ltd, Harduaganj, Aligarh	Cement	Y
21	M/s Mangalam Cement Ltd, C.D.f. Industrial Area, Aligarh	Cement	Y
22	M/s J.K. Cement, Satha, Kasimpur Road, Koil, Aligarh	Cement	Y
23	M/s Ambika Metal Works, B-20 Industrial Estate, Aligarh	Builders Hardware & Electroplating	Y
24	M/s Shri Jee Metal (Old Name: Orange Recycle) F-121,122,123 Industrial Area, Tala Nagari, Ramghat Road, Aligarh	Coper Brass Zink Ingut	Y
25	M/s Ozone Builders & Dovelopers, Village- Mahua Khera, Teshil- Koil, Aligarh	Avasiya Yogna	Y

26	M/s Prashant Enterprises, Village- Baraula Jafrabad, Tehshil- Koil, Aligarh	Hardware	Y
27	M/s Home Fit Export, A-9, Industrial Estate, Aligarh	Builder Hardware	Y
28	M/s Vidhi Export 106, Mandir Ka Nagla, Agra Road, Aliarh	Brass Hardware	Y
29	M/s Rajeev Metal Industries, Industrial Area, Tala Nagar, Aligarh	Builders Hardware & Electroplating	Y
30	M/s Sigma Engeeniring Works, Anoopshahar Road, Aligarh	Builders Hardware & Electroplating	Y
31	M/s Parfect Product, Industrial Estate, Aligarh	Builders Hardware & Electroplating	Y
32	M/s Chandak Brothters, B-72 Industrial Estate, Aligarh	Builders Hardware & Electroplating	Y
33	AURA INDUSTRIES MEHRAWAL, G.T. ROAD, ALIGARH,ALIGARH, ALIGARH	Metal Surface Treatment	Y
34	M/s Creative & Craft Industries India Pvt Ltd, Mauza Sarsol Bahar Chungi, Near Phal Mandi, G.T. Road, Aligarh	Hardware Item	Y
35	M/s Spider Metal Product Pvt. Ltd. A-54, 57, Industrial Area, Tala Nagari, Aligarh	Hardware	Y
36	M/s Godani Infratech Pvt. Ltd., 5 Km. Behind of Phal Mandi, Sarsoil, Delhi G.T. Road, Distt- Aligarh	Builder Hardware	Y
37	M/s Mascot Metal Manufectures, A-2, Industrial Estate, Aligarh	Building Hardware	Y
38	M/s Mascot Metal Manufectures, D-11. C-23.24, Industrial Estate, Aligarh	Building Hardware	Y
39	M/s Mascot Metal Manufectures Barola Jafrabad, I.T.I. Road, Aligarh	Building Hardware	Y
40	M/s Agrawal Metal Works, C-98, 99, Sector-1, Talanagri, Aligarh	Building Hardware	Y
41	M/s Bajaj Hardware, D-74, Industrial Estate, Aligarh	Building Hardware	Y
42	M/s Kurana Backels Pvt Ltd, C-73, Sector-1, Talanagri, Aligarh	Building Hardware	Y
43	M/s Cent Metal Industries, B-12, 13, Industrial Estate, Aligarh	Building Hardware	Y

44	M/s Sagar Bakkel Pvt Ltd, D-149, Sector-1, Talanagri, Aligarh	Hardware Item	Y
45	M/s Sadani Overseas, Marthari, G.T. Road, Aligarh	Building Hardware	Y
46	M/s A to Z Solid Waste Management, Iglas Road, Aligarh	Solid Waste Management Plant	Y
47	M/s Prachi Enterprises, Village-Sikarna, Koil, Aligarh	Saltpeter	Y
48	M/s Maa Vaishno Saltpeter, Sadhu Ashram, Koil, Aligarh	Saltpeter	Y
49	M/s Royal Chemical, Utasani, Koil, Aligarh	Saltpeter	Y
50	M/s Shri Krishna Enterprises, Bhaben, koil, Aligarh	Saltpeter	Y
51	M/s Anjani Enterprises, Bhagosa, Koil, Aligarh	Saltpeter	Y
52	M/S R S METAL PRODUCTS PLOT NO 4,5,6,7, SHARDA INDUSTRIAL COMPLEX BAROLA BYE PASS ALIGARH ALIGARH	Building Hardware	Y
53	R S PIGMENTS VILLAGE KINDOLI, OPP. PACHOURI GARDEN, DAYANATPUR, ALIGARH ROAD	Ultramarine Blue	Y
54	M/s Vartax Exports, C-1241, 242, Sector-2, Industrial Area, Talanagari, Aligarh	Building Hardware	Y
55	M/s Anil Lock, A-38, Sector-2, Industrial Area, Talanagri, Aligarh	Building Hardware	Y

2.10.4.1 Inventorisation of Prominent Industries with Technological Gaps

AS above: All industries need to modify/upgrade to the latest technology of effluent treatment and adopt suitable technology to achieve ZLD.

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	NA	-	-

2.10.5 Infrastructure Renewal if any required -		As point no. 2.10.4.1
2.10.5.1 Details of existing infrastructure facilities -	-	Physiochemical treatment
2.10.5.2 Need of up gradation of existing facilities - install Zero Liquid Discharge (ZLD) system.		Yes, Polluting units should
2.10.5.3 De-silting of water tanks, drains, culvert, etc	-	NA
2.10.5.4 Construction of lined drains/ connections -	-	NA

2.10.5.5 Treatment and management of contaminated surface water bodies -

S. 1	No.	Contaminated surface water bodies	Treatment adopted	Status
1		0	0	0

2.10.5.6 Rejuvenation/ Management Plan for important eco-geological features- --

-- NO such proposal

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

-- NO such proposal

2.10.5.8 Installation of Gen sets at CETPs	-	NA
2.10.6 Managerial and Financial aspects	-	NA
2.10.6.1 Cost and time estimates:	-	NA

2.10.6.2 Identified private/ public sector potential investors and contribution/ obligation: - NO

2.10.6.3 Government Budgetary support requirement

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

2.10.6.4 Hierarchical and structured managerial system for efficient implementation

2.10.7 Self monitoring systems industries (ETPs) etc. - No

S. Nos	Industries	Category	ETPs installed(Y/N)
1	Nil	NA	NA

2.10.8 Data linkages to SPCB / CPCB (OCEEMS)- No such type of industries available.

S. No.	Industries	Category	Data linkages (Y/N)
1	Nil	NA	NA

2.11 MONITORING: SURFACE WATER, GROUND WATER

GROUND WATER MONITORING STATIONS:

3.0 Air Environment

3.1 Present status of Air environment:

S. Nos	Cluster	January 2019 to December 2019	AQI	Condition
-				
1	J-1, Gyan	January		
	Sarover	February		
	Colony,	March		
	Ramghat	April		
	Road, Aligarh	Мау		
		June		
		July		
		August		
		September		
		October		
		November		
		December		

3.1.1 Critical locations for air quality monitoring:

S. Nos.	Locations Coordinates		Distance and direction	
1103.	lacitimea	Latitude	Longitude	
1	J-1, Gyan Sarover Colony, Ramghat Road, Aligarh	27.890339	78.089267	3.2 North-west

3.1.2 Present levels of pollutants in air:

A. Ambient Air Quality Monitoring for following parameters:

i. SO2, NO2, PM10, PM2.5, (for 24 hourly average monitoring values)

S. No	Parameters	Observed values(µg/m ³)	Standards(µg/m ³)
1	SO ₂		60
2	NO ₂		60
3	PM ₁₀		100
4	PM _{2.5}		60

3.2 Sources of air pollution:

There is no coal & biomass based power plants leading to transportation with Heavy Earth Movers in the cluster & impact zone of the study area.

3.3 Air Polluting Industries in the cluster/Impact Zone Red Category-

S. No	Name & Address of Industry	Туре	Location	
			Latitude of Industry	Longitude of Industry
1	2	3	4	5
1				
2				
3				
4				
5				

Orange Category-

1.	
2.	
3.	
4.	
5.	

Coal based Metal Furnaces-

Action for closure of these units have been taken under section 31 A of the Air (Prevention and Control of Pollution)Act 1981.

1	Shahnawaz S/o Akhtar Husain, Barbalan
2	Zuber S/o Aktar Husain, Barbalan
3	Nadeem, S/o Sri Ishyaq, Barbalan
4	Alam, S/o Sri Ishyad, Barbalan
5	Shamim, S/o Sri Nanhey Ali, Barbalan

3.4 Impact of activities of nearby area as the CEPI Area

The adjacent areas are generally surrounded by residential, commercial and heterogeneous industrial activity and hence these activities do have impact on CEPI score of cluster.

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

-- Could not be assessed.

Short 7	Ferm 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 T	erm 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.		

3.6 Action plan for compliance and control of pollution

		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 Torrent Gas Moradabad Itd 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 02 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 for monitoring Ambient Air Quality in critical Industrial Zones and also 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 Rickshaws, small goods vehicles & School Busses into CNG.	01 Year	Transport Department in consultation with Oil & Gas Companies
h)	•	Development of Green Belt: Should develop Green belt from upto 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	-	-

Sr.No.	Location/Station	Location Code
1	Sir Syed Nagar, Aligarh	
2	Near Amir Nisha Market, Aligarh	

3.6.2 Pollution control measure installed by the individual sources of pollution

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

3.6.3 Technological intervention

3.6.3.1 Inventorization of prominent industries with technological gap

Red Category-

S. No	Name & Address of Industry	Туре	Location		APCS Installed (Y/N)
			Latitude of Industry	Longitude of Industry	
1	2	3	4	5	6
1					Y
2					Y
3					Y
4					Y
5					Ŷ

Orange Category-

Sr. No.	Name and Address of the Industry	Туре	APCS Instaled (Y/N)
1.			Y
2.			Y
3.			Y
4.			Y
5.			Y

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

The industries have already switched over to low Sulphur & low Ash content fuels. However, in the case of medium & small scale industries, which use cheaper biomass & other fuels, the UPPCB would identify possibilities and pursue such industries to switchover to cleaner fuel.

3.6.4 Need of infrastructure renovation

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

All the roads inside cluster/impact zone are paved and do not need the repair.

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

3.6.6 Managerial and financial aspects- cost and time estimates

3.6.6.1 Cost and time estimates:

3.6.6.2 Identified private/ sector potential investors and their contribution/ obligations:

3.6.6.3 Government budgetary support requirement

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

3.6.6.4 Hierarchical and structured managerial system for efficient implementation

The UPPCB in consultation with CPCB will oversee the implementation of finalized action plan.

3.6.7 Self monitoring system in industries

No such type of industries available in the study area

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

3.6.8 Data linkages to SPCB/ CPCB (OCEMS)

S. No.	Industries	Category	Data linkage (Y/N)
1	Nil	NA	NA

3.6.9 AAQM Status of Districts

No industry has installed the online monitoring system in the study area

S. No.	NAME AND ADDRESS OF THE NDUSTRY	PHONE NUMBER	NUMBER OF AAQM INSTALLED	PARAMETERS MONITORED
1	NA	NA	NA	
				PM ₁₀ , SO ₂ , NOx & CO
				PM _{2.5} , PM ₁₀ , SO ₂ , NOx, CO, Ammonia, Benzene, Ozone

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	Coordi	Coordinates	
		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)

S. 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	Coord	inates	Distance and
		Latitude	Longitude	direction
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.	Clust	Months				Observed Values				
No	er		рН	TDS (mg/l)	Hardnes s (mg/l)	Calcium as Ca++ (mg/l)	Magnesi um as Mg++ (mg/l)	Nickel (mg/l)	lron (mg/l)	Copp er (mg/l)

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

S. Nos.	Sources identified	Coordinates		Distance and direction
		Latitude	Longitude	

4.2.3. Ground water quality monitoring program

S .	Sampling	Coordinates	Frequency	Parameters tested
Nos	Locations			

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

Short 7	Ferm Action Points (up to 1 year, inclu	ding continuous activitie	es)
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 T	erm Action Points (more than 1 year)		
Sr. No.	Action Points	Timeline	Responsible Agencies/ Stake Holders

4.2.4	Land Pollution		
b)	Soil Testing		
	Soil testing of some large scale industry	01 Year	UPPCB
	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.		

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

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/Commercial	Municipal Solid Waste	-

4.3.1.1. Hazardous Waste

S. no.	Source	Quantity
1	Industrial	-

4.3.1.2 Bio-Medical Waste

S. no.	No. of CBWTF	Quantity	Authorization
1	02		
	(Situated outside the cluster/impact zone)		

4.3.1.3 Electronic Waste

The e-waste generation from the bulk consumers is very minimum in the core & impact zone of the study area, since there are no producers and manufacturers of electronic items listed in Schedule-I of e-waste Rules, 2016. There is 01 e-waste dismantling & recycling industry engaged in procurement of e-waste generating within and outside the study area.

S. no.	No. of Electronic waste treatment facility	Quantity
1	NA	-

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	Domestic/Commercial	
2	Hazardous waste	
3	Biomedical Waste	

4.3.1.5 Plastic Waste

Sr. No.	No. of Plastic waste Processing facility	Quantity	Authorization	Compliance status
1	Nil	Nil	NA	

4.3.1.6 Construction and Demolition Waste

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

4.3.1.7 Quantification Of Waste And Relative Contribution From Different Source

S.no.	Pollution source	Type of Relative Contribution
		Wastes
1	Industries	Hazardous
		waste
2	Health care facilities	Biomedical
		Waste
3	Domestic/Commercial	Municipal
		Solid Waste

4.3.2. Identification of Waste Minimization and Waste Exchange Options:

4.3.3. Reduction/Reuse/ Recovery/ Recycle Options in the Co-Processing of Waste:

4.3.4. Infrastructure Facilities:

4.3.4.1. Existing TSDF/Incineration Facilities Including Capacities

There are no TSDF and incineration facility in the study area. Accordingly, the industries are ensured to dispose the Hazardous waste to three nos. of TSDF facility and common incineration facility located outside the study area.

S.no.	Tsdf/Incineration Facilities	Capacity	Location
1	M/S Bharat oil & waste management Pvt.	14000 MT/Annum	Vill- Kumbhi, Tesil Akbarpur, Dist Kanpur Dehat
2	M/S U.P. Waste Management Project(A Ramky Enviro Engineers)	50000 MT/Annum	Plot-672,NH-2 Sikandra Road, Vill- Kumbhi, Tesil Akbarpur, Dist Kanpur Dehat
3	M/S Bharat oil & waste management Pvt.	21000 MT/Annum	18,Site-4,Sahibabad Industrial Area

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

Establishment of Common solid waste disposal facility particularly for bio-degradable waste within the study area for final disposal of non-hazardous solid waste in scientific manner is required.

- 1. **Treatment And Management Of Contaminated Waste Disposal Sites Etc:** There is no such treatment facility available in the study area.
- 2. Impact On CEPI Score After Proper Management Of Solid Waste After implementing scientific solid waste management measures CEPI score will come down substantially.

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.

No Such plan has been identified.

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

---- N.A.

6. Other infrastructural Renewal measures:

6.1. Green belts

S. Nos.	Green Belt Developed/ upcoming Green belts	Area	Features
1	As Per Aligarh Mahayojna 2021		Parks,open spaces etc.

6.2. Development of Industrial Estate(s)

No such proposal

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

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

No such proposal

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

7. Specific Schemes:

7.1. GIS-GPS System for pollution sources monitoring

At present there is no such system for pollution sources monitoring. The possibility will be explored.

7.2. Hydro- geological fracturing for water bodies rejuvenation

Not Available

7.3. In-situ remediation of sewage

No such proposal

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

7.4. Utilization of MSW inert by gas based brick kilns

No such facility in the study area is proposed.

S. No.	Number of Brick kilns	Fuel
1	Nil	NA

7.5. Co- processing of wastes in cements industries

No such facility in the study area is proposed.

S. No.	Cement industries	Fuel
1	Nil	NA

8. Public awareness and training programs

The UPPCB is conducting both public awareness & training programmes in the field of environment management for the stakeholders in co-ordination with industries, NGOs, educational Institutes & other Government departments.

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

S. No.	CEPI score before	CEPI score after	Percent
	installation/commissioning	installation/commissioning	change

	of pollution control equipment/ measures	of pollution control equipment/ measures	(%)
1			

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

Study of techno-economical feasibility of pollution control systems in clusters of small/medium scale industries will be carried out.

11. Efforts shall be made to encourage use of Bio-compost and Biofertilizers 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)

There is no scope for this in the study area.

12. <u>Summary of proposed action points</u>

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. Upgradation of STPs to meet revised norms.	Ongoing Process	ULBs/ UPPCB & Jal Nigam
g)	Inventorization of Air Polluting Industries:	Stack Monitoring of Large & Medium units every 06 months and	UPPCB & Individual Industries.
h)	Proposed Action Plan for effective control of Air Pollution: Regular Monitoring of Pollution Control System in Industries.	once in a Year for SSI units. (By UPPCB & by individual 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 favour 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	06 Months.	

	 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 	Ongoing 9 months	UPPCB
	to be ensured.		
1)	• 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 electroplating industries. Strategies regarding cleaner technologies in such industries are to be conducted in a time bound manner. In these industries, 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)	٠	Air Pollution/Industrial Pollution:		

w)	 Cu, Fe etc. twice a year through recognize laboratory. Study of impact on Human Health of Water & Air Pollutants 		IITR (Earlier ITRC) / Health
v)	• Land Pollution Soil Testing: Soil testing of critically polluted Area is proposed to be done for different metals like Pb,Ni,Zn Cr,	01 Year	UPPCB
u)	• Development of Green Belt: Develop Green belt from 20% to 33% of the total area.	Ongoing	Forest Department
t)	 Clean fuel for vehicles: At present 16 CNG stations have been building to supply clean fuel. These stations have 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. 	01 year / As per plan submitted by Gas Agencies.	RTO & Gas Companies
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. M/S Torrent Gas Moradabad Ltd. 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
	 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 fue 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

x)	Municipal solid waste Disposal: 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