

**COMPREHENSIVE ENVIRONMENTAL  
POLLUTION INDEX (CEPI)**

**DRAFT ACTION PLAN**

**FOR**

**CRITICALLY/SEVERELY POLLUTED  
AREA-Singrauli, District-Sonbhadra,  
(U.P.Part)**

**PREPARED BY:**

**U.P. POLLUTION CONTROL BOARD**

# **COMPREHENSIVE ENVIRONMENTAL POLLUTION INDEX (CEPI)**

## **DRAFT ACTION PLAN**

### **UTTAR PRADESH POLLUTION CONTROL BOARD REGIONAL OFFICE,**

#### **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.

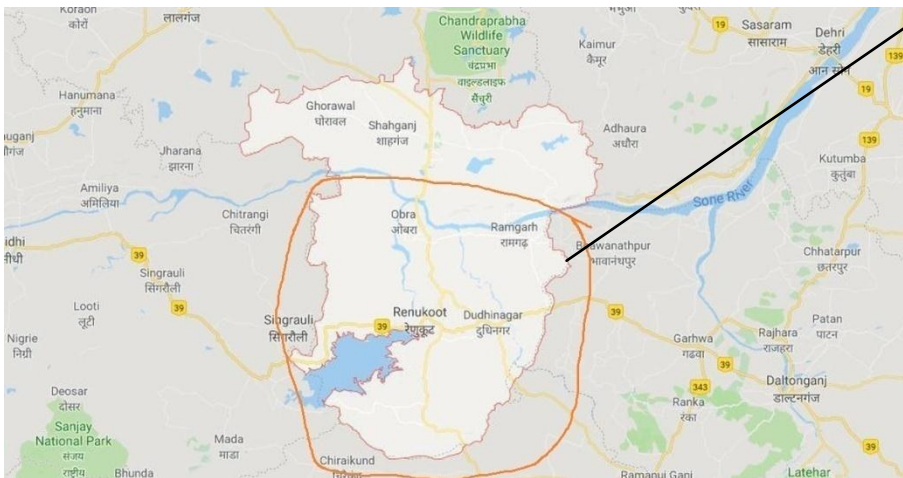
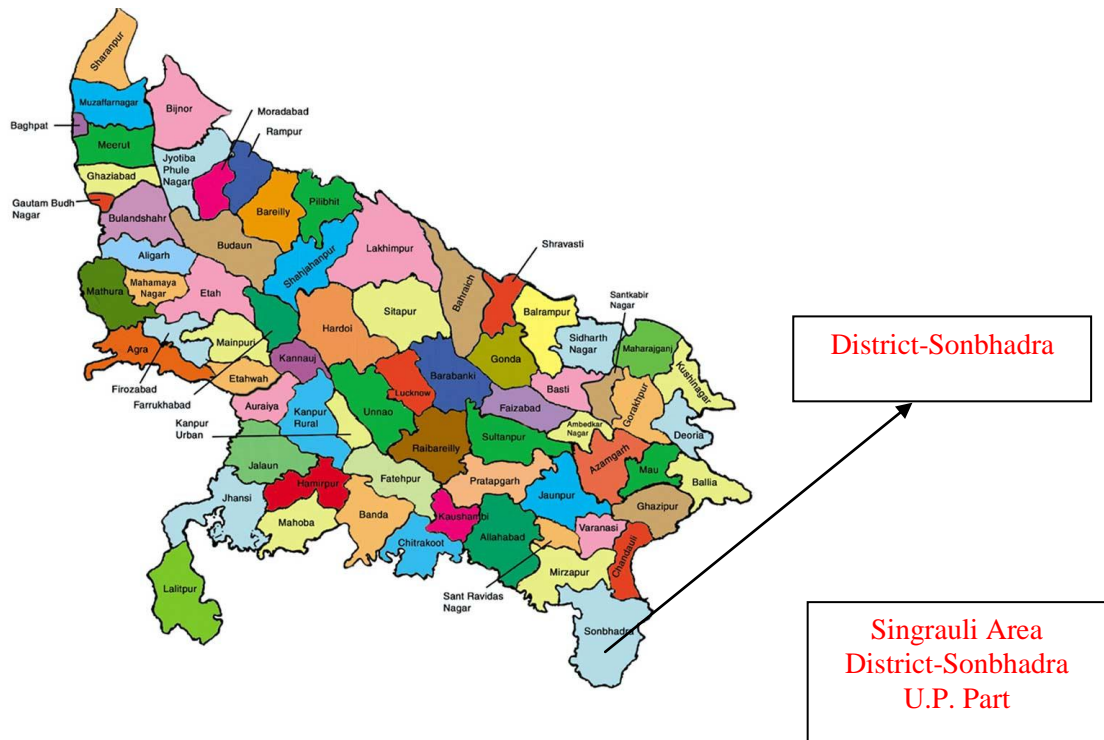
The CEPI criteria was revised in 2016 and based on the CEPI-2016 criteria, CPCB carried out further monitoring in the year 2017-18, these clusters went upto 100 clusters as may referred to order issued by Hon'ble National Green Tribunal for Original Application No. 1038/2018 dated 13.12.2018.

The industrial clusters/areas having aggregated CEPI scores of 70 and above were considered critically polluted clusters/areas and those with scores above 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)

#### **1.1 AREA DETAILS**

As per the CEPI assessment, following areas has identified with under CEPI within Singrauli Critically Polluted Area (U.P. Part) city having cumulative geographical area and when was demarcated as one of the CEPI area.

(Insert a location map showing CEPI areas in the city- Sample map has been attached below and provide other details as well)



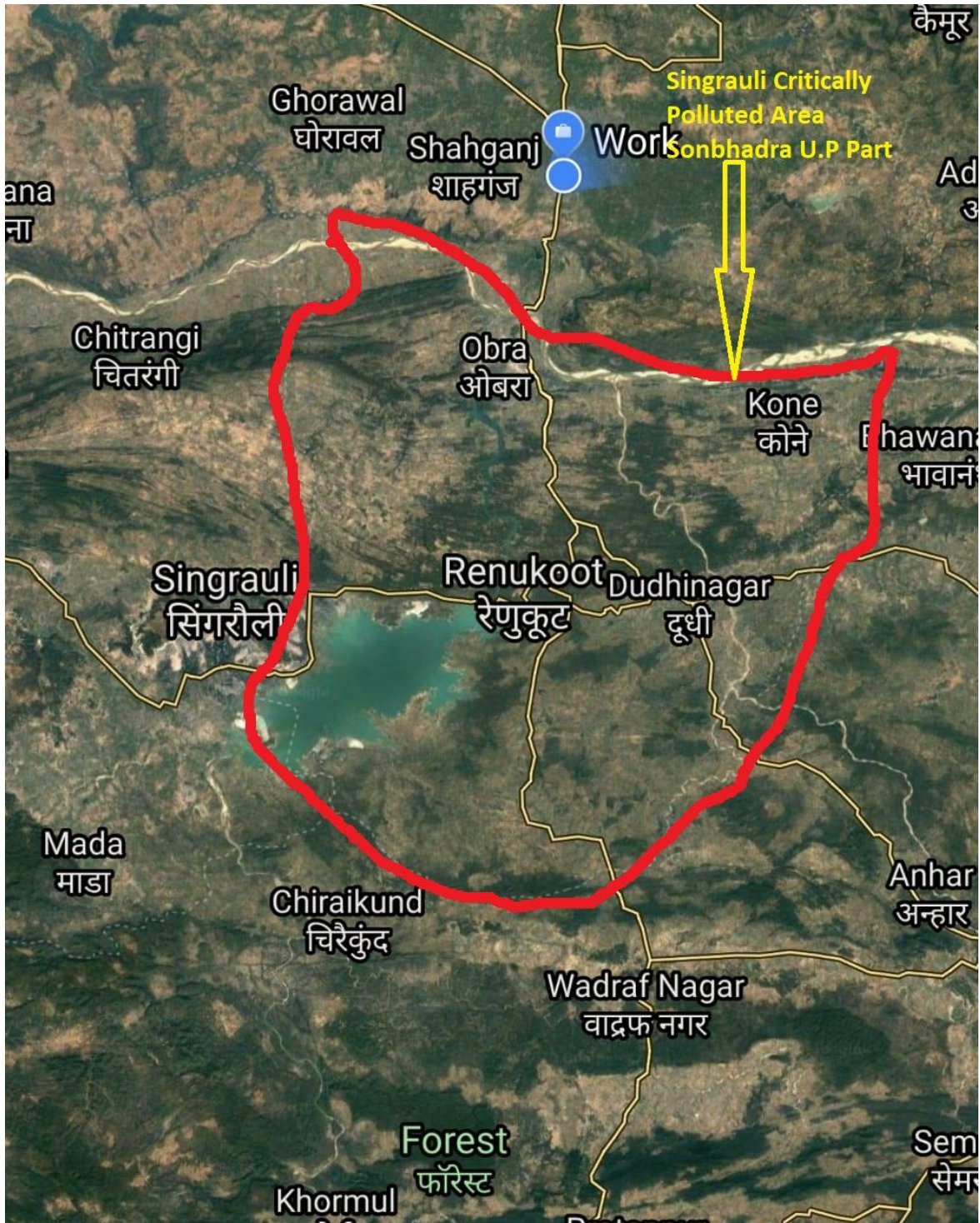
## 1.2 LOCATION

The coordinates of the cluster boundary **U.P. Side** are as follows:

Direction	Latitude	Longitude
East	24°22'2"	83°26'57"
West	24°08'14"	82°39'24"
North	24°36'24"	82°54'7"
South	23°52'35"	82°57'35"

### 1.3 Digitized map showing geographical boundaries and Impact Zones

**IMAGE 1: AERIAL VIEW - INDUSTRIAL CLUSTER**



**1.4 CEPI Score (Air, Water, Land and Total) 62.59**

**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
	175000	557000	30	6			-	01	-	-

**1.6 ECO-GEOLOGICAL FEATURES:** Impact Zones [the area comprising of geographical area of the cluster and its impact zone (minimum 2 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	Sone River	Obra & Chopan	Rihand Reservoir	Anpara, Shaktinagar, Renukoot	NA	NA

**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 sensitive zones	Number	Distance and direction
1	NA	NA	NA

(Insert a Google Earth image showing above given zones)

**1.6.3 Buildings or Monuments of historical/archaeological/religious importance**

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

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

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

**1.7.1 HIGHLY POLLUTING INDUSTRIES (17 CATEGORIES)**

SCALE OF INDUSTRIES	HIGHLY POLLUTING INDUSTRIES		
	AIR	WATER	NO. OF E-WASTE/HAZARDOUS WASTE GENERATING INDUSTRIES
LARGE	11	10	11
MEDIUM	0	0	0
TOTAL	11	10	11

**1.7.2 RED CATEGORY INDUSTRIES (60 CATEGORIES)**

SCALE OF INDUSTRIES	HIGHLY POLLUTING INDUSTRIES		
	AIR	WATER	NO. OF E-WASTE/HAZARDOUS WASTE GENERATING INDUSTRIES
LARGE	11	10	11
MEDIUM	0	0	0
SMALL	0	0	0
TOTAL	11	10	11

**1.7.3 ORANGE AND GREEN CATEGORY INDUSTRIES**

SCALE OF INDUSTRIES	HIGHLY POLLUTING INDUSTRIES		
	AIR	WATER	NO. OF E-WASTE/HAZARDOUS WASTE GENERATING INDUSTRIES
LARGE	-	-	-
MEDIUM	-	-	-
SMALL	294	-	-
TOTAL	294	-	-

**1.7.4 GROSSLY POLLUTING INDUSTRIES**

SCALE OF INDUSTRIES	HIGHLY POLLUTING INDUSTRIES		
	AIR	WATER	NO. OF E-WASTE/HAZARDOUS WASTE GENERATING INDUSTRIES
LARGE	11	10	11
MEDIUM	-	-	-
SMALL	-	-	-
TOTAL	11	10	11

## 2. WATER ENVIRONMENT

### 2.1.1 PRESENT STATUS OF WATER ENVIRONMENT SUPPORTED WITH MINIMUM ONE-YEAR ANALYTICAL DATA

#### Rihand Reservoir

S. No	Parameters	Observed values	Standards
1	TDS	84 mg/l	500 mg/l
2	BOD	1.4 mg/l	3.0 mg/l
3	Fluoride	0.886 mg/l	1.0 mg/l
4	Total coliforms	1400 MPN/100 ml	Shall not be detectable in any 100 ml sample
5	Faecal coliforms	200 MPN/100 ml	Shall not be detectable in any 100 ml sample

### 2.1.2 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	Rihand Reservoir	08	Not measured

### 2.1.3 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)

#### Rihand Reservoir

S. No	Parameters	Observed values	Standards
1	Iron	0.107 mg/l	0.3 mg/l
2	Nickel	0.024 mg/l	0.02 mg/l
3	Arsenic	0.00488 mg/l	0.01 mg/l
4	Total Chromium	Not detectable	0.05 mg/l
5	Fluoride	0.886 mg/l	1.0 mg/l

#### 2.1.4 PREDOMINANT SOURCES CONTRIBUTING TO VARIOUS POLLUTANTS

S.NO.	Sources	Effluent discharge	Major Pollutants
1	Dongiya Nallah, Renukoot	Waste water from M/s Grassim Industries Ltd., Renukoot	BOD, COD, TSS, Oil & Grease
2	Dibulganj Channel, Anpara	Cooling water discharge from M/s U.P. Rajya Vidyut Utpadan Nigam Ltd, Anpara (Unit A, B & C)	BOD, COD, TSS, Oil & Grease
3	Anpara Nallah, Anpara	Waste water from M/s U.P. Rajya Vidyut Utpadan Nigam Ltd, Anpara (Unit A, & B), Anpara Colony & Anpara Market.	BOD, COD, TSS, Oil & Grease
4	Rehta Nallah, Garbandha	Waste water from M/s N.C.L. kakari Project & Waste water from M/s Hindalco Industries Ltd. (Power Division) Renusagar, Sonbhadra & domestic Sewage from village-Parasi, Audi More etc.	BOD, COD, TSS, Oil & Grease
5	Barwani Nallah,	Waste water from M/s N.C.L. Bina & Krishnshila Project.	BOD, COD, TSS, Oil & Grease
6	Ballia Nallha	Waste water from M/s N.C.L. Duddhichua Project, M/s N.C.L. Khadia Project, M/s NTPC Ltd., Singrauli Super Thermal Power Station & Domestic Sewage of Bega Basti, Waste water from M/s N.C.L. Jayant Project Situated in M.P State	BOD, COD, TSS, Oil & Grease
7	M/s NTPC Ltd. Rihand Super Thermal Power Project, Rihand Nagar, Bijpur out fall channel	Cooling water discharge from M/s NTPC Ltd. Rihand Super Thermal Power Project-Stage-I, Rihand Nagar, Bijpur.	BOD, COD, TSS, Oil & Grease
8	Mukhna Nallah	Domestic Sewage from Village-Naktu, Dodhar, Mukhna etc.	BOD, COD, TSS, Oil & Grease



## 2.2 SOURCES OF WATER POLLUTION

### 2.2.1 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							Total Effluent Discharge (KLD)
		* The Type of Industry may be changed as per local conditions							
		Sugar	Pulp & Paper	Distillery	Textile	Slaughter House	Others	Total	
1.	Dongiya Nallah	NA	NA	NA	NA	NA	Power Plants & Coal Mines	01	Not Measured
		NA	NA	NA	NA	NA	Power Plants & Coal Mines	01	Not Measured
2.	Dibulganj & Anpara Nallah	NA	NA	NA	NA	NA	Power Plants & Coal Mines	04	Not Measured
3.	Rehta Nallah	NA	NA	NA	NA	NA	Power Plants & Coal Mines	01	Not Measured
4.	Ballia Nallah	NA	NA	NA	NA	NA	Power Plants & Coal Mines	01	Not Measured
5.	M/s NTPC Ltd. Rihand Super Thermal Power Project,	NA	NA	NA	NA	NA	Power Plants & Coal Mines	01	Not Measured
6.	Murdhwa Nallah, Renukoot	NA	NA	NA	NA	NA	Power Plants & Coal Mines	02	Not Measured
7.	Jhariya Nallah	NA	NA	NA	NA	NA	Power Plants & Coal Mines	01	Not Measured

## 2.2.2 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	
1.	Sonbhadra	Dongiya Nallah, Renukoot	Domestic	No	Yes	No	Yes	No	Not Measured	Not Measured
2.	Sonbhadra	Rehta Nallah, Garbandha	Domestic	No	Yes	No	Partially	-	Not Measured	Not Measured
3.	Sonbhadra	Anpara Nallah, Anpara	Domestic	No	Yes	No	Partially	-	Not Measured	Not Measured
4.	Sonbhadra	Ballia Nallah	Domestic	No	Yes	No	Partially	-	Not Measured	Not Measured
5.	Sonbhadra	Mukhna Nallah	Domestic	No	Yes	No	Partially	-	Not Measured	Not Measured
6.	Sonbhadra	Murdhwa Nallah	Domestic	No	Yes	No	Partially	-	Not Measured	Not Measured
7.	Sonbhadra	Jhariya Nallah	Domestic	No	Yes	No	-	No	Not Measured	Not Measured

Source:

## 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 NTPC Rihand Nagar	24.034280 (Residential Colony STP)	82.815172	3.0	Flow meter not installed	-	NTPC	Used in gardening/Irrigation purpose.
		24.025598 (Plant STP)	82.784653	0.5	Flow meter not installed	-		
2.	M/s NTPC Ltd., Singrauli Super Thermal Power Station, Shaktinagar	24.106718 (Residential Colony STP)	82.690332	2.85	Flow meter not installed	-	NTPC	Ballia Nallah
		24.100988 (Plant STP)	82.697598	0.35	Flow meter not installed	-		Ballia Nallah
3.	M/s Ultratech Cement Ltd. (Unit Dalla Cement Works) Dalla	24.447945 (Residential Colony STP)	83.037040	0.8	0.8	-	Pvt.	Used in gardening/Irrigation purpose.
4.	M/s Hindalco Industries Ltd. (Renusagar Power Division) Renusagar	24.166731	82.780486	12.0	12.0	-	NTPC	Partially Used in gardening/Irrigation purpose.

S.No.	Name of STP	Location		Installed Capacity (MLD)	Utilized Capacity (MLD)	Capacity Utilized (%)	Operating Govt. Agency	Discharge Drain
		Latitude	Longitude					
5.	M/s Lanco Anpara Power Ltd. Anpara	24.205673 (Plant STP)	82.795748	0.3	0.3	-	Pvt.	Partially Used in gardening/Irrigation purpose.
		24.197328 (Residential Colony STP)	82.768749	0.3	0.3	-		
6.	M/s U.P. Rajya Vidyut UtpadanNigam Ltd, Anpara (Unit A, B & D), Anpara	24.196661	82.777037	4.8	Flow meter not installed	-	U.P. Government	Partially Used in gardening/Irrigation purpose.
7.	M/s Hindalco Industries Ltd. (Aluminum Division) Renukoot	24.221329	83.038146	24.0	Flow meter not installed	-	Pvt.	Partially Used in gardening/Irrigation purpose
8.	M/s Birla Carbon India Pvt. Ltd. Renukoot	24.228524	83.037171	0.25	Flow meter not installed	-	Pvt.	Partially Used in gardening/Irrigation purpose

### 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.	Sonbhadra	NA	NA	NA	NA	NA	NA	NA

**2.2.3 OTHERS (AGRICULTURAL RUNOFF, LEACHATE FROM MSW DUMP, ILLEGAL DUMP SITES ETC.):** Please provide details No

**2.2.4 IMPACT ON SURROUNDING AREA (OUTSIDE THE CEPI AREA):** On The Water Sources/Drainage System Of The Area Under Consideration. No

### 2.3 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.	M/s Grassim Industries Ltd. (Chemical Division) Renukoot, Sonebhadra.	Caustic Soda	24.20489	83.03122	Red	ETP	650	Dongiya Nallah	Granted	Granted
2.	M/s Grassim Industries Ltd. (Power Division) Renukoot, Sonebhadra.	Captive Power	24.203488	83.056412	Red	ETP	210 (Industrial) 100 KL/Day (Domestic)	Dongiya Nallah	Granted	Granted
3.	M/s Ultratech Cement Ltd. (Power Division) Sonebhadra.	Captive Power	24.450698	83.038581	Red	ETP	800 KLD	Used in Gardening/irrigation purpose.	Applied	Applied
4.	M/s Anpara Thermal Power Plant (Unit A & B), Anpara, Sonbhadra	Thermal Power	24.19932	82.79181	RED	ETP	1720 KLD	Used in Gardening/irrigation/other purpose.	Granted	Granted
5.	M/s Anpara Thermal Power Plant (Unit D), Anpara, Sonbhadra	Thermal Power	24.19513	82.80869	RED	ETP	1600 KLD	Used in Gardening/irrigation/other purpose.	Granted	Granted
6.	M/s Hindalco Industries Ltd.(Power Division) Renusagar, Sonebhadra	Thermal Power	24.18181	82.79182	RED	ETP	28650 KLD	Used in Gardening/irrigation/other purpose.	Applied	Applied
7.	M/s Lanco Anpara Power Ltd. Anpara Sonbhadra	Thermal Power	24.20413	82.79847	RED	ETP	1937 KLD	Used in Gardening/irrigation/other purpose.	Granted	Granted
8.	M/s NTPC Rihand Nagar, Sonbhadra	Thermal Power	24.11699	82.68836	RED	ETP	79784 KLD	Recycled	Applied	Applied

9.	M/s NTPC Shakti Nagar, Sonbhadra	Thermal Power	24.01171	82.81143	RED	ETP	3302000 KLD	Recycled/Ballia Nallah	Applied	Applied
10.	M/s Birla Carbon (India) Pvt. Ltd, (Ex. Name M/s S.K.I. Carbon Black India Pvt. Ltd. , Renukot Sonbhadra	Carbon Black	24.228816	83.037743	RED	ETP	725 KLD	Recycled	Granted	Granted
11.	M/s U.P. Rajya Vidyut Utpadan Nigam Ltd, BTPS, Obra	Thermal Power	24.44769	82.98407	RED	ETP	1360 KLD	Recycled/ Used in Gardening/ irrigation/other purpose.	Granted	Granted
12.	M/s Hindalco Industries Ltd.(Aluminum Division) Renukoot, Sonebhadra	Aluminum Metal	24.223053	83.02714	RED	ETP	19000 KLD	Partially Reused	Applied	Applied

## 2.4 EFFLUENT DISPOSAL METHODS- RECIPIENT WATER BODIES ETC.

## 2.5 QUANTIFICATION OF WASTEWATER POLLUTION LOAD AND RELATIVE CONTRIBUTION BY DIFFERENT SOURCES VIZ INDUSTRIAL/ DOMESTIC

### INDUSTRIAL

S.No.	Drain	Type of Industry * The Type of Industry may be changed as per local conditions							Total Effluent Discharge (KLD)	Pollution Load (BOD in kg/day)
		Sugar	Pulp & Paper	Distillery	Textile	Slaughter House	Others	Total		
1.	Dongiya Nallah	NO	NO	NO	NO	NO	Power Plants & Coal Mines	NA	NA	NA
		NO	NO	NO	NO	NO	Power Plants & Coal Mines	NA	NA	NA
2.	Dibulganj & Anpara Nallah	NO	NO	NO	NO	NO	Power Plants & Coal Mines	NA	NA	NA
3.	Rehta Nallah	NO	NO	NO	NO	NO	Power Plants & Coal Mines	NA	NA	NA

S.No.	Drain	Type of Industry * The Type of Industry may be changed as per local conditions						Total Effluent Discharge (KLD)	Pollution Load (BOD in kg/day)	
		Sugar	Pulp & Paper	Distillery	Textile	Slaughter House	Others			Total
4.	Ballia Nallah	NO	NO	NO	NO	NO	Power Plants & Coal Mines	NA	NA	NA
5.	M/s NTPC Ltd. Rihand Super Thermal Power Project, Rihand Nagar, Bijpur out fall channel	NO	NO	NO	NO	NO	Power Plants & Coal Mines	NA	NA	NA
6.	Murdhwa Nallah, Renukoot	NO	NO	NO	NO	NO	Power Plants & Coal Mines	NA	NA	NA
7.	Jhariya Nallah	NO	NO	NO	NO	NO	Power Plants & Coal Mines	NA	NA	NA

### DOMESTIC

S No.	District	No. of Drains	Type of Drains	Status of Drains			Industries		Sewage Discharge (MLD)	Total Discharge in the River (MLD)		
				Domestic	Tapped	Untapped	Partially Tapped	Number		Treat Effluent (MLD)	Treated	Untreated
1.	Sonbhadra	Dongiya Nallah, Renukoot	Domestic	No	Yes	No	02	Not Measured	Yes	No	Not Measured	Not Measured
2.	Sonbhadra	Rehta Nallah, Garbandha	Domestic	No	Yes	No	01	Not Measured	Partially	-	Not Measured	Not Measured
3.	Sonbhadra	Anpara Nallah,	Domestic	No	Yes	No	01	Not Measured	Partially	-	Not Measured	Not Measured

S No.	District	No. of Drains	Type of Drains	Status of Drains			Industries		Sewage Discharge (MLD)	Total Discharge in the River (MLD)			
							Number	Treat Effluent (MLD)		Treated	Untreated	Total	
				Domestic	Tapped	Untapped	Partially Tapped						
		Anpara											
4.	Sonbhadra	Ballia Nallha	Domestic	No	Yes	No	01	Not Measured	Partially	-	Not Measured	Not Measured	
5.	Sonbhadra	Mukhna Nallah	Domestic	No	Yes	No	00	Not Measured	Partially	-	Not Measured	Not Measured	
6.	Sonbhadra	Murdhwa Nallah	Domestic	No	Yes	No	02	Not Measured	Partially	-	Not Measured	Not Measured	
7.	Sonbhadra	Jhariya Nallha	Domestic	No	Yes	No	01	Not Measured	-	No	Not Measured	Not Measured	



## 2.6 ACTION PLAN FOR COMPLIANCE AND CONTROL OF POLLUTION

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

S. No	Action Points (Source and Mitigation)	Responsible Agencies/Stake Holders	Time Limit/Frequency	Remarks/Progress
1.	<p><b>Water Pollution</b></p> <p><b>Industrial Source</b> - Proposed Action Plan for effective control of Water Pollution:</p> <ul style="list-style-type: none"> <li>Regular effluent sample collection and analysis of Pollution Control System in Large &amp; Medium &amp; Small Scale Polluting Industries to be done to ensure strict compliance of prescribed Norms.</li> </ul>	<p>UPPCB Individual Industry</p>	<p><b>Frequency</b> Large &amp; Medium Industries -<b>3 months</b> Small Scale Industries -<b>6 months</b> (By UPPCB) &amp; By Individual Industries as follows - L &amp; M - Every 3 Months. Small - Once a Year</p>	<ul style="list-style-type: none"> <li>It is being complied.</li> </ul>

	<ul style="list-style-type: none"> <li>Installation of energy meter, on line PH meter, automatic chemical dosing system, on line flow measurement and installation of independent laboratory to monitor critical parameters like MLSS, SVI etc. and other inlet and outlet parameters of ETP for Large &amp; Medium Industries and industries situated.</li> </ul>	Individual Industries (Large and Medium)	Ongoing	<ul style="list-style-type: none"> <li>It is being complied by all industries.</li> </ul>
	<ul style="list-style-type: none"> <li>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.</li> </ul>	Individual Industries.	With in 06 months.	<ul style="list-style-type: none"> <li>All units have Upgradated their ETP except M/s Obara Thermal Power Plant.</li> </ul>
	<ul style="list-style-type: none"> <li><b>Upgradation of ETP's:</b> Conversion of conventional reduction treatment of electroplating waste water to Ion exchange method and its recycling in Large &amp; Medium sector units, wherever existing ETP is not functioning properly. Prospective agents with expertise in this field shall be shortlisted in next 6 months.</li> </ul>	UPPCB & Individual Industries.	06 Months	<ul style="list-style-type: none"> <li>All units have Upgradated their ETP except M/s Obara Thermal Power Plant.</li> </ul>
	<ul style="list-style-type: none"> <li>Also, small industries in the region currently using physico chemical treatment methods to treat their effluent shall be upgraded such as installation of dual media filter and Activated Carbon filter.</li> </ul>	UPPCB & Individual Industries.	06 months	<ul style="list-style-type: none"> <li>It is being complied by all industries.</li> </ul>

b)	<p><b>Groundwater Pollution</b></p> <ul style="list-style-type: none"> <li>• 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.</li> <li>• Also, intensive surveys will be done to ensure that practice of reverse boring is not prevalent in the region.</li> </ul>	UPPCB and Noida Authority.	Ongoing	It will be complied by State Board.
c)	<p><b>Domestic Waste Water (Sewage)</b> Domestic sewage contributes to about 80% of Water. The status of Sewage Pollution Control is as follows:</p>			
	<ul style="list-style-type: none"> <li>➤ STPs are Operational:</li> <li>➤ Effective operation &amp; maintenance of installed STP.</li> <li>➤ Combined Inspection of STPs by UPPCB and Jal Nigam</li> <li>➤ Upcoming High Rise Buildings, Commercial Project, Educational Institution, Multi Plexes, Town ship &amp; Building Projects are major source of sewage generation and Municipal Solid Waste.</li> <li>➤ Such projects must ensure setting up of STPs, recirculation of treated water for flushing/gardening regarding purpose &amp; ensure compliance of the conditions of the Environment Clearance and NOC from PCB</li> </ul>	<p>UPPCB and Jal Nigam</p> <p>Project proponent Local Authority &amp; UPPCB.</p>	Ongoing	<ul style="list-style-type: none"> <li>• It is being complied.</li> </ul>

**2.6.1 EXISTING INFRASTRUCTURE FACILITIES-** Water quality monitoring network, etps, cetps, sewerage treatment plant of industry (STPs), surface drainage system, effluent conveyance channels/ outfalls etc.

**2.6.2 POLLUTION CONTROL MEASURES INSTALLED BY INDUSTRIES.**

S. Nos	Name of industry	Product	Category	Pollution control measures installed(Y/N)	Consent Status
1.	M/s Grassim Industries Ltd. (Chemical Division) Renukoot, Sonbhadra.	Caustic Soda	RED	Yes	Granted
2.	M/s Grassim Industries Ltd. (Power Division) Renukoot, Sonbhadra.	Captive Power	RED	Yes	Granted
3.	M/s Ultratech Cement Ltd. (Power Division) Sonbhadra.	Captive Power	RED	Yes	Applied
4.	M/s Anpara Thermal Power Plant (Unit A & B), Anpara, Sonbhadra	Thermal Power	RED	Yes	Granted
5.	M/s Anpara Thermal Power Plant (Unit D), Anpara, Sonbhadra	Thermal Power	RED	Yes	Granted
6.	M/s Hindalco Industries Ltd.(Power Division) Renuagar, Sonbhadra	Thermal Power	RED	Yes	Applied
7.	M/s Lanco Anpara Power Ltd. Anpara Sonbhadra	Thermal Power	RED	Yes	Granted
8.	M/s NTPC Rihand Nagar, Sonbhadra	Thermal Power	RED	Yes	Applied
9.	M/s NTPC Shakti Nagar, Sonbhadra	Thermal Power	RED	Yes	Applied
10.	M/s Birla Carbon (India) Pvt. Ltd, (Ex. Name M/s S.K.I. Carbon Black India Pvt. Ltd. , Renukot Sonbhadra	Carbon Black	RED	Yes	Granted

11.	M/s U.P. Rajya Vidyut Utpadan Nigam Ltd, BTPS, Obra	Thermal Power	RED	Yes	Granted
12.	M/s Hindalco Industries Ltd.(Aluminum Division) Renukoot, Sonebhadra	Aluminum Metal	RED	Yes	Applied

### 2.6.3 TECHNOLOGICAL INTERVENTION

S. Nos	Industries	Category	Pollution control measures installed(Y/N)
1.	M/s Grassim Industries Ltd. (Chemical Division) Renukoot, Sonebhadra.	RED	Yes
2.	M/s Grassim Industries Ltd. (Power Division) Renukoot, Sonebhadra.	RED	Yes
3.	M/s Ultratech Cement Ltd. (Power Division) Sonebhadra.	RED	Yes
4.	M/s Anpara Thermal Power Plant (Unit A & B), Anpara, Sonbhadra	RED	Yes
5.	M/s Anpara Thermal Power Plant (Unit D), Anpara, Sonbhadra	RED	Yes
6.	M/s Hindalco Industries Ltd.(Power Division) Renukoot, Sonebhadra	RED	Yes
7.	M/s Lanco Anpara Power Ltd. Anpara Sonbhadra	RED	Yes
8.	M/s NTPC Rihand Nagar, Sonbhadra	RED	Yes
9.	M/s NTPC Shakti Nagar, Sonbhadra	RED	Yes
10.	M/s Birla Carbon (India) Pvt. Ltd, (Ex. Name M/s S.K.I. Carbon Black India Pvt. Ltd. , Renukoot Sonbhadra	RED	Yes
11.	M/s U.P. Rajya Vidyut Utpadan Nigam Ltd, BTPS, Obra	RED	Yes
12.	M/s Hindalco Industries Ltd.(Aluminum Division) Renukoot, Sonebhadra	RED	Yes

#### 2.6.3.1 INVENTORISATION OF PROMINENT INDUSTRIES WITH TECHNOLOGICAL GAPS.

S. Nos	Industries	Category	Pollution control measures installed(Y/N)
1.	M/s Grassim Industries Ltd. (Chemical Division) Renukoot, Sonebhadra.	RED	Yes
2.	M/s Grassim Industries Ltd. (Power Division) Renukoot, Sonebhadra.	RED	Yes
3.	M/s Ultratech Cement Ltd. (Power Division) Sonebhadra.	RED	Yes
4.	M/s Anpara Thermal Power Plant (Unit A & B), Anpara, Sonbhadra	RED	Yes
5.	M/s Anpara Thermal Power Plant (Unit D), Anpara, Sonbhadra	RED	Yes
6.	M/s Hindalco Industries Ltd.(Power Division) Renukoot, Sonebhadra	RED	Yes
7.	M/s Lanco Anpara Power Ltd. Anpara Sonbhadra	RED	Yes

8.	M/s NTPC Rihand Nagar, Sonbhadra	RED	Yes
9.	M/s NTPC Shakti Nagar, Sonbhadra	RED	Yes
10.	M/s Birla Carbon (India) Pvt. Ltd, (Ex. Name M/s S.K.I. Carbon Black India Pvt. Ltd. , Renukot Sonbhadra	RED	Yes
11.	M/s U.P. Rajya Vidyut Utpadan Nigam Ltd, BTPS, Ora	RED	Yes
12.	M/s Hindalco Industries Ltd.(Aluminum Division) Renukoot, Sonebhadra	RED	Yes

### 2.6.3.2 IDENTIFICATION OF LOW COST AND ADVANCED CLEANER TECHNOLOGY FOR POLLUTION CONTROL

S. Nos	Number of industries adopted cleaner technologies	Previous technologies	New technologies
1	No	No	No

### 2.6.4 Infrastructure Renewal

**2.6.4.1 Details of existing infrastructure facilities-** Please provide details

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

**2.6.4.3 De-silting of water tanks, drains, revulets, etc.-** Please provide details

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

**2.6.4.5 Treatment and management of contaminated surface water bodies - Please provide details**

S. no.	Contaminated surface water bodies	Treatment adopted	status
1	NA	NA	NA

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

**2.6.4.7 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**

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

### 2.6.5 Managerial and Financial aspects

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

**2.6.5.2 Identified private/ public sector potential investors and contribution/ obligation:** If any, investement from private sector potential investors please provide details.

### 2.6.5.3 Government Budgetary support requirement

S. Nos	Amount of budget allocated to CEPI area	Remarks
1	NA	NA

#### 2.6.5.4 Hierarchical and structured managerial system for efficient implementation

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

S. Nos	Industries	Category	ETPs installed(Y/N)
1.	M/s Grassim Industries Ltd. (Chemical Division) Renukoot, Sonebhadra.	RED	Yes
2.	M/s Grassim Industries Ltd. (Power Division) Renukoot, Sonebhadra.	RED	Yes
3.		RED	No
4.	M/s Anpara Thermal Power Plant (Unit A & B), Anpara, Sonbhadra	RED	No
5.	M/s Anpara Thermal Power Plant (Unit D), Anpara, Sonbhadra	RED	Yes
6.	M/s Hindalco Industries Ltd.(Power Division) Renusagar, Sonebhadra	RED	Yes
7.	M/s Lanco Anpara Power Ltd. Anpara Sonbhadra	RED	Yes
8.	M/s NTPC Rihand Nagar, Sonbhadra	RED	Yes
9.	M/s NTPC Shakti Nagar, Sonbhadra	RED	Yes
10.	M/s Birla Carbon (India) Pvt. Ltd, (Ex. Name M/s S.K.I. Carbon Black India Pvt. Ltd. , Renukot Sonbhadra	RED	Yes
11.	M/s U.P. Rajya Vidyut Utpadan Nigam Ltd, BTPS, Ora	RED	Yes
12.	M/s Hindalco Industries Ltd.(Aluminum Division) Renukoot, Sonbhadra	RED	Yes

#### 2.6.7 Data linkages to SPCB / CPCB (of monitoring devices)- Please provide details

1.	M/s Grassim Industries Ltd. (Chemical Division) Renukoot, Sonebhadra.	RED	Yes
2.	M/s Grassim Industries Ltd. (Power Division) Renukoot, Sonebhadra.	RED	Yes
3.	M/s Ultratech Cement Ltd. (Power Division) Sonbhadra.	RED	Yes
4.	M/s Anpara Thermal Power Plant (Unit A & B), Anpara, Sonbhadra	RED	Yes
5.	M/s Anpara Thermal Power Plant (Unit D), Anpara, Sonbhadra	RED	Yes
6.	M/s Hindalco Industries Ltd.(Power Division) Renusagar, Sonebhadra	RED	Yes
7.	M/s Lanco Anpara Power Ltd. Anpara Sonbhadra	RED	Yes
8.	M/s NTPC Rihand Nagar, Sonbhadra	RED	Yes
9.	M/s NTPC Shakti Nagar, Sonbhadra	RED	Yes
10.	M/s Birla Carbon (India) Pvt. Ltd, (Ex. Name M/s S.K.I. Carbon Black India Pvt. Ltd. , Renukot Sonbhadra	RED	Yes
11.	M/s U.P. Rajya Vidyut Utpadan Nigam Ltd, BTPS, Ora	RED	Yes
12.	M/s Hindalco Industries Ltd.(Aluminum Division) Renukoot, Sonbhadra	RED	Yes

## 2 MONITORING: SURFACE WATER, GROUND WATER& AIR QUALITY

### SURFACE WATER MONITORING STATIONS:



#	Location/Station	Location Code	#	Location/Station	Location Code
1	Rihand Reservoir U/s, Renukoot, Sonbhadra	1359	WS2	24°11'34" N 83°01'37" E	
2	Rihand Reservoir D/s, Renukoot, Sonbhadra	1360	WS1	24°12'28" N 83°00'13" E	



### GROUND WATER MONITORING STATIONS:



#	Location/Station	Location Code	#	Location/Station	Location Code
1	Under Ground Water Sampling Point, Near Railway Station, Renukoot, Sonbhadra	-	WS3	24°12'65" N	83°02'23" E

# ***Air Environment***

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

S. Nos	Cluster	Months(2019)	AQI	Condition
1.	Singrauli	Jan, 2019	286	Poor
2.	Singrauli	Feb, 2019	224	Poor
3.	Singrauli	Mar 2019	191	Moderate
4.	Singrauli	Apr 2019	241	Poor
5.	Singrauli	May, 2019	242	Poor
6.	Singrauli	June, 2019	169	Moderate
7.	Singrauli	July, 2019	77	Satisfactory
8.	Singrauli	Aug, 2019	62	Satisfactory
9.	Singrauli	Sep, 2019	69	Satisfactory
10.	Singrauli	Oct, 2019	167	Poor
11.	Singrauli	Nov, 2019	284	Poor
12.	Singrauli	Dec, 2019	281	Poor

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

S. Nos.	Locations identified	Coordinates		Distance and direction
		Latitude	Longitude	
1.	Madhuban Park Udyog Parisar M/s Hindalco Industries Ltd.(Power Division) Renusagar, Sonbhadra	24.19040	82.786238	Within Critically Polluted Area.
2.	At Renukeshwar Mandir M/s Hindalco Industries Ltd.(Aluminum Division) Renkoot, Sonbhadra	24.212008	83.038982	Within Critically Polluted Area.
3.	Near Kaveri Canteen (Colony Parisar) M/s Lanco Anpara Power Ltd. Anpara, Sonbhadra	24.197328	82.768749	Within Critically Polluted Area.
4.	Udyog Parisar Near Central Store M/s Lanco Anpara Power Ltd. Anpara Sonbhadra	24.196625	82.770231	Within Critically Polluted Area.
5.	Purnwas Colony M/s NTPC Rihand Nagar, Sonbhadra	24.011462	82.810800	Within Critically Polluted Area.
6.	At Shiv Mandir M/s NTPC Rihand Nagar, Sonbhadra	24.027052	82.819819	Within Critically Polluted Area.
7.	Near MGR M/s NTPC Rihand Nagar, Sonbhadra	24.019923	82.773785	Within Critically Polluted Area.
8.	Near Vidyut Vihar Colony M/s NTPC Shaktinagar, Sonbhadra	24.166944	82.685277	Within Critically Polluted Area.
9.	Near CW Pump House M/s NTPC Shaktinagar, Sonbhadra	24.104167	82.720277	Within Critically Polluted Area.
10.	Colony Parisar M/s Ultratech Cement Ltd. (Power Division) Sonbhadra.	24.444565	83.046230	Within Critically Polluted Area.
11.	Vocational Training Center (Premises) M/s NCL Kakari Prjeect, Kakari, Sonbhadra	24.173864	82.763474	Within Critically Polluted Area.
12.	Radha Krishn Mandir (Premises) M/s NCL Bina Prjeect, Bina, Sonbhadra	24.151519	82.773945	Within Critically Polluted Area.
13.	Chatyna Watika Khadia Colony Parisar M/s NCL Khadia Prjeect, Khadia, Sonbhadra	24.122101	82.684555	Within Critically Polluted Area.

**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<sub>2</sub> , NO<sub>2</sub> , PM<sub>10</sub> , PM<sub>2.5</sub>, Pb, Lead (for 24 hourly average monitoring values)

Anpara Colony III-50 Anpara, Sonbhadra, Station Code No. 06 (Monitoring carried out by the Board under NAMP)

S. No	Parameters	Observed values $\mu\text{g}/\text{m}^3$	Standards ( $\mu\text{g}/\text{m}^3$ )
1	PM <sub>10</sub>	203	100
2	SO <sub>2</sub>	17.95	80
3	NO <sub>2</sub>	28.51	80
Renusagar Colony N-23/10, Renusagar, Sonbhadra, Station Code No. 07 (Monitoring carried out by the Board under NAMP)			
1	PM <sub>10</sub>	177	100
2	SO <sub>2</sub>	17.11	80
3	NO <sub>2</sub>	27.95	80

ii. O<sub>3</sub> , CO (for 1 hrly average and 8 hrly average )

Not Monitored

S. No	Parameters	Observed values	Standards
	-	-	-

iii. Benzene, Benzo(O) Pyrene, Arsenic & Nickel (for 24 hrly average value)

Not Monitored

S. No	Parameters	Observed values	Standards
	-	-	-

**3.1.3 Predominant sources contributing to various pollutants**

S. No	Sources	Percent contribution	Main Pollutants

**3.2 Sources of air pollution** viz industrial, domestic (coal and 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
		Latitude	Longitude	
1.	M/s Grassim Industries Ltd. (Chemical Division) Renukoot, Sonebhadra.	24.20489	83.03122	Within Critically Polluted Area.
2.	M/s Grassim Industries Ltd. (Power Division) Renukoot, Sonebhadra.	24.203488	83.056412	Within Critically Polluted Area.
3.	M/s Ultratech Cement Ltd. (Power Division) Sonebhadra.	24.450698	83.038581	Within Critically Polluted Area.
4.	M/s Anpara Thermal Power Plant (Unit A & B), Anpara, Sonbhadra	24.19932	82.79181	Within Critically Polluted Area.
5.	M/s Anpara Thermal Power Plant (Unit D), Anpara, Sonbhadra	24.19513	82.80869	Within Critically Polluted Area.
6.	M/s Hindalco Industries Ltd.(Power Division) Renukoot, Sonebhadra	24.18181	82.79182	Within Critically Polluted Area.
7.	M/s Lanco Anpara Power Ltd. Anpara Sonbhadra	24.20413	82.79847	Within Critically Polluted Area.
8.	M/s NTPC Rihand Nagar, Sonbhadra	24.11699	82.68836	Within Critically Polluted Area.
9.	M/s NTPC Shakti Nagar, Sonbhadra	24.01171	82.81143	Within Critically Polluted Area.
10.	M/s Birla Carbon (India) Pvt. Ltd, (Ex. Name M/s S.K.I. Carbon Black India Pvt. Ltd., Renukot Sonbhadra	24.228816	83.037743	Within Critically Polluted Area.
11.	M/s U.P. Rajya Vidyut Utpadan Nigam Ltd, BTPS, Ora	24.44769	82.98407	Within Critically Polluted Area.
12.	M/s Hindalco Industries Ltd.(Aluminum Division) Renukoot, Sonebhadra	24.223053	83.02714	Within Critically Polluted Area.

### 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

S. Nos	Air Pollution Sources	Category	Pollution Load	Percentage
1.	Industrial Air Pollution	Red	1/2	50 %
2.	Vehicular Air Pollution	NA	3/10	30 %
3.	Domestic Air Pollution	NA	1/20	5 %
4.	Air Pollution from Burning of biomass/crop residue/garbage/ municipal solid Waste	NA	1/10	10%
5.	Air pollution from constructions and demolition activities	NA	1/20	5 %

### 3.6 Action plan for compliance and control of pollution

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

	Action Points (Source and Mitigation)	Responsible Stake Holders	Time Limit	Remarks
2. a)	<b>Air Pollution Industrial:</b> A total air polluting industries have been identified in the region.	UPPCB & Individual Industries.	Stack Monitoring of Large & Medium units every 06 months and once	Complied

	<b>Proposed Action Plan for effective control of Air Pollution:</b> <input checked="" type="checkbox"/> Regular Monitoring of Pollution Control System in Industries in order to ensure strict compliance of prescribed Norms.		in a Year for SSI units. (By UPPCB & by individual Industries)	

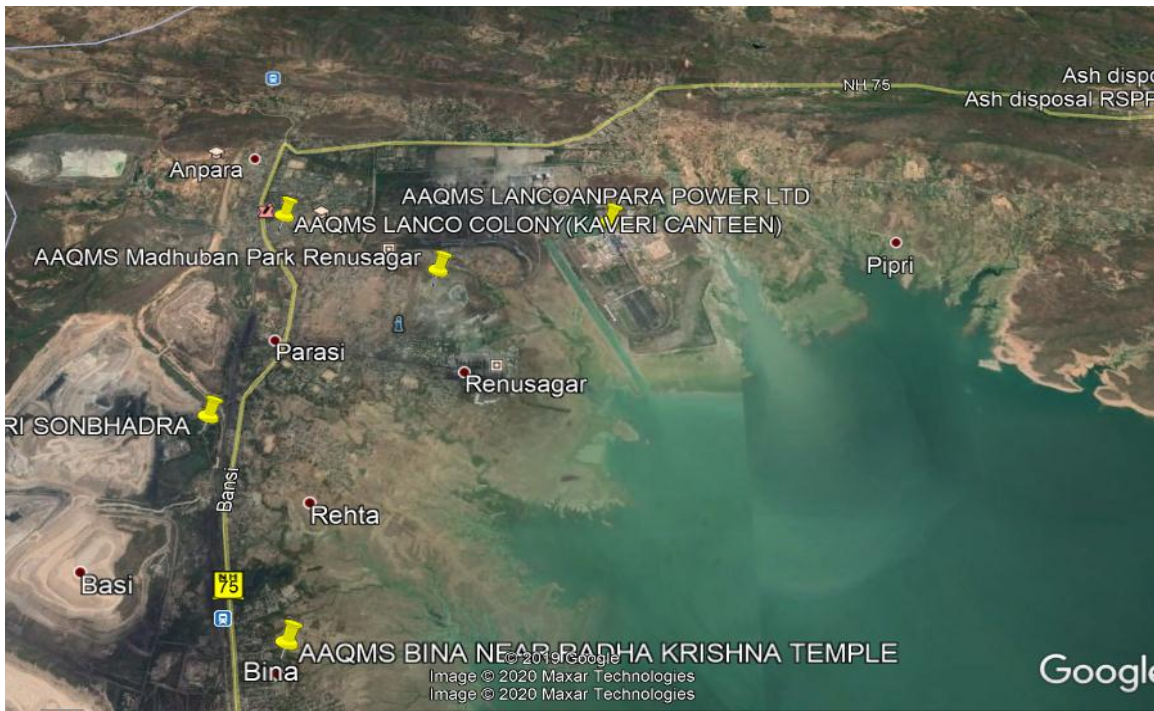
**Long Term Action Points (more than 1 year)**

	<b>Action Points (Source and Mitigation)</b>	<b>Responsible Stake Holders</b>	<b>Time Limit</b>	<b>Remarks</b>
	<b>AIR POLLUTION Industrial Pollution</b> <input checked="" type="checkbox"/> 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. <input checked="" type="checkbox"/> 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. <input checked="" type="checkbox"/> To supply and promote the use of cleaner fuel like CNG, in order to reduce emissions in the industrial	UPPCB and Individual industry Individual industry, UPPCBIGL		Yet to be complied
	<b>Introduction of Cleaner Fuel for Industrial Uses :</b> Currently industries are using Coal/ Petro Coke/Wood and FO/LDO/LSHS as a fuel which emits SPM and SO <sub>2</sub> and other pollutants. If CNG is made available to industries the RSPM, SO <sub>2</sub> 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	Gas and Oil Companies	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.	Yet to be complied

	same at the earliest.			
	<b>Clean fuel for vehicles:</b> At present CNG stations have been build to supply clean fuel. These stations have compression capacity Also, all commercial Phasing out of old diesel commercial vehicles is being done as per policy.	RTO & Gas Companies	01 year / As per plan submitted by Gas agencies.	Yet to be complied
	<b>Installation of NAAMP Stations</b> At present manual AAQM Stations are operational but they need to be upgraded to monitor RSPM and PM <sub>2.5</sub> 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.	UPPCB and CPCB		National Ambient Air Quality Monitoring Station already installed at 1- Anpara Colony III-50 Anpara, Sonbhadra, Station Code No. 06 2- Renusagar Colony N-23/10, Renusagar, Sonbhadra, Station Code No. 07
	<b>Display of AAQM data</b> On line display of AAQM data at two different locations in the area need to be under taken by Industries Association and UPPCB	UPPCB, CPCB Proposal to be made by UPPCB & sent to CPCB	1.5 Years	Yet to be complied
	<b>Use of Cleaner fuel</b> Time frame to be chalked out by RTO for conversion of all commercial vehicles such as Auto, Bus & Vikram into CNG.	RTO in consultation with Gas Companies	01 Year	Yet to be complied
	<b>Development of Green Belt</b> should develop green belt from 20% to 33% of the total area.		Ongoing	At present about 50 % area is covered with green belt.

### 3.6.1 Existing infrastructure facilities- Ambient Air Quality Monitoring Network

Number of manual AQ monitoring station	Number of CAAQMS	Total Monitoring station
02 (Anpara Colony III-50 Anpara, Sonbhadra, Station Code No. 06 Renusagar Colony N-23/10, Renusagar, Sonbhadra, Station Code No. 07) (Installed and operated by UPPCB)	13 (Installed by the industries situated in critically polluted area)	15



Sl. No.	Location/Station	Location Code	Sl. No.	Location/Station	Location Code
1	Anpara Colony III-50 Anpara, Sonbhadra, Station Code No. 06	06	3	13 Nos CAAQMS monitoring stations installed at Locations mentioned in point No. 3.1.1	
2	Renusagar Colony N-23/10, Renusagar, Sonbhadra, Station Code No. 07)	07	4	-	



### 3.6.2 Pollution control measure installed by the individual sources of pollution

S. Nos	Pollution Sources	Category	APCS installed(Y/N)
1	M/s Grassim Industries Ltd. (Chemical Division) Renukoot, Sonebhadra.	Red	Yes
2	M/s Grassim Industries Ltd. (Power Division) Renukoot, Sonebhadra.	Red	Yes
3	M/s Ultratech Cement Ltd. (Power Division) Sonebhadra.	Red	Yes
4	M/s Anpara Thermal Power Plant (Unit A & B), Anpara, Sonbhadra	Red	Yes
5	M/s Anpara Thermal Power Plant (Unit D), Anpara, Sonbhadra	Red	Yes
6	M/s Hindalco Industries Ltd.(Power Division) Renusagar, Sonebhadra	Red	Yes
7	M/s Lanco Anpara Power Ltd. Anpara Sonbhadra	Red	Yes
8	M/s NTPC Rihand Nagar, Sonbhadra	Red	Yes
9	M/s NTPC Shakti Nagar, Sonbhadra	Red	Yes
10	M/s Birla Carbon (India) Pvt. Ltd, (Ex. Name M/s S.K.I. Carbon Black India Pvt. Ltd. , Renukot Sonbhadra	Red	Yes
11	M/s U.P. Rajya Vidyut Utpadan Nigam Ltd, BTPS, Obra	Red	Yes
12	M/s Hindalco Industries Ltd.(Aluminum Division) Renukoot, Sonebhadra	Red	Yes

### 3.6.3 Technological intervention

#### 3.6.3.1 Inventorisation of prominent industries with technological gap

S. Nos	Industries	Category	APCS installed(Y/N)
1.	M/s Grassim Industries Ltd. (Chemical Division) Renukoot, Sonebhadra.	Red	Yes
2.	M/s Grassim Industries Ltd. (Power Division) Renukoot, Sonebhadra.	Red	Yes
3.	M/s Ultratech Cement Ltd. (Power Division) Sonebhadra.	Red	Yes
4.	M/s Anpara Thermal Power Plant (Unit A & B), Anpara, Sonbhadra	Red	Yes
5.	M/s Anpara Thermal Power Plant (Unit D), Anpara, Sonbhadra	Red	Yes
6.	M/s Hindalco Industries Ltd.(Power Division) Renusagar, Sonebhadra	Red	Yes
7.	M/s Lanco Anpara Power Ltd. Anpara Sonbhadra	Red	Yes
8.	M/s NTPC Rihand Nagar, Sonbhadra	Red	Yes
9.	M/s NTPC Shakti Nagar, Sonbhadra	Red	Yes
10.	M/s Birla Carbon (India) Pvt. Ltd, (Ex. Name M/s S.K.I. Carbon Black India Pvt. Ltd. , Renukot Sonbhadra	Red	Yes
11.	M/s U.P. Rajya Vidyut Utpadan Nigam Ltd, BTPS, Obra	Red	Yes
12.	M/s Hindalco Industries Ltd.(Aluminum Division) Renukoot, Sonebhadra	Red	Yes

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 No

S. Nos	Number of industries adopted cleaner fuel technologies	Previous fuel	New fuel

3.6.4 Need of infrastructure renovation

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

S. Nos	Identified damaged roads	Length	Remarks
1	Audi More to Shaktinagar	Approx 20 km	Road construction work has been started by PWD

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

S. Nos	CEPI score before APCS	CEPI score after APCS	Percent improvement
1	CEPI Score in Year 2015 was <b>83.73</b>	CEPI Score in Year 2019 was <b>62.59</b>	<b>25.25 %</b>

**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 provide details.

3.6.6.3 Government budgetary support requirement

S. Nos	Amount of budget allocated to CEPI area	Remarks

3.6.6.4 Hierarchical and structured managerial system for efficient implementation  
 3.6.7 Self monitoring system in industries (stacks, APCDs)

S. Nos	Industries	Category	APCS/APCDs installed(Y/N)
1	12 Industries as mentioned in point no. 3.6.3.1	Red	Yes

3.6.8 Data linkages to SPCB/ CPCB (of monitoring devices)

1	Online Continuous Emission Monitoring System installed in 12 industrial units linked with server of CPCB/SPCB		

#	NAME AND ADDRESS OF THE INDUSTRY	PHONE NUMBER	NUMBER OF AAQM INSTALLED	PARAMETERS MONITORED
1	M/s Grassim Industries Ltd. (Chemical Division) Renukoot, Sonebhadra.		01	PM <sub>2.5</sub> , PM <sub>10</sub> , SO <sub>2</sub> , NO <sub>x</sub> , Mercury, Chlorine, Ozone, HF
2	M/s Grassim Industries Ltd. (Power Division) Renukoot, Sonebhadra.			
3	M/s Hindalco Industries Ltd.(Aluminum Division) Renukoot, Sonebhadra			
4	M/s Birla Carbon (India) Pvt. Ltd, (Ex. Name M/s S.K.I. Carbon Black India Pvt. Ltd. , Renukot Sonbhadra			
5	M/s Hindalco Industries Ltd.(Power Division) Renukoot, Sonebhadra		01	PM <sub>2.5</sub> , PM <sub>10</sub> , SO <sub>2</sub> , NO <sub>x</sub> , CO
6	M/s Lanco Anpara Power Ltd. Anpara Sonbhadra			
7	M/s Lanco Anpara Power Ltd. Anpara Sonbhadra		2	PM <sub>2.5</sub> , PM <sub>10</sub> , SO <sub>2</sub> , NO <sub>x</sub> , CO
8	M/s NTPC Rihand Nagar, Sonbhadra		3	PM <sub>2.5</sub> , PM <sub>10</sub> , SO <sub>2</sub> , NO <sub>x</sub> , CO <sub>2</sub>

<b>9</b>	M/s NTPC Shakti Nagar, Sonbhadra		2	PM <sub>2.5</sub> , PM <sub>10</sub> , SO <sub>2</sub> , NO <sub>x</sub> , CO <sub>2</sub>
<b>10</b>	M/s Ultratech Cement Ltd. (Power Division) Sonebhadra.		1	PM <sub>2.5</sub> , PM <sub>10</sub> , SO <sub>2</sub> , NO <sub>x</sub> ,
<b>11</b>	M/s U.P. Rajya Vidyut Utpadan Nigam Ltd, BTPS, Ora		Not Installed	
<b>12</b>	M/s Anpara Thermal Power Plant (Unit A & B), Anpara, Sonbhadra		Not Installed	
<b>13</b>	M/s Anpara Thermal Power Plant (Unit D), Anpara, Sonbhadra		Not Installed	
<b>14</b>	M/s NCL Bina Project, Bina, Sonbhadra		01	PM <sub>2.5</sub> , PM <sub>10</sub> , SO <sub>2</sub> , NO <sub>x</sub> , CO
<b>15</b>	M/s NCL Kakri Project, Kakri, Sonbhadra		01	PM <sub>2.5</sub> , PM <sub>10</sub> , SO <sub>2</sub> , NO <sub>x</sub> , CO
<b>16</b>	M/s NCL Khadia Project, Khadia, Sonbhadra		01	PM <sub>2.5</sub> , PM <sub>10</sub> , SO <sub>2</sub> , NO <sub>x</sub> , CO

# **Land Environment**

#### 4. LAND ENVIRONMENT (Soil and ground water)

##### 7.1 Soil contamination

4.1. 1. Present status of land environment supported with minimum one-year data

S. Nos	Cluster	Months(2019)	Present status	Condition

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

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

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

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

4.1.5. Sources of soil contamination

S. No	Sources	Coordinates		Distance and direction
		Latitude	Longitude	

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. Nos	Cluster	Months(2019)	Present status	Condition

##### 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. Nos	Sampling Locations	Coordinates	Frequency	Parameters tested

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

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

	Action Points (Source and Mitigation)	Responsible Stake Holders	Time Limit	Remarks
a	<b>Land Pollution</b> Proper Storage & Disposal of Hazardous Waste & Solid Waste.	Individual Industry	To send waste every 03/04 months	

###### Long Term Action Points (more than 1 year)

	Action Points (Source and Mitigation)	Responsible Stake Holders	Time Limit	Remarks
a	<b>Land Pollution</b> <b>Soil Testing</b> 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 recognise laboratory.	UPPCB	01 Year	

**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. Nos	CEPI score before	CEPI score after	Percent improvement

### 4.3 Solid Waste Generation and Management

#### 4.3.1. WASTE CLASSIFICATION AND QUANTIFICATION

S. no.	Source	Category	Quantity
1	Bio Medical Wastes Generated from form 45 Health Care Facilities	Bio Medical Wastes	201 kg/day
2	Municipal Solid Waste Generated from 08 Local Bodies	MSW	31.37 Ton/Day

#### 4.3.1.1. HAZARDOUS WASTE

S. no.	Source	Quantity
1	Hazardous Waste Generated from 17 industries.	75416.59 MTA

#### 1. BIO-MEDICAL WASTE

S. no.	No. of CBWTF	Quantity	Authorization
1	01 CBWTF Agency working in Prayagraj and 01 01 CBWTF Agency working in Varansi area. (CBWTF Not Installed under jurisdiction of Regional Office, Sonbhadra)		

#### 2. ELECTRONIC WASTE

S. no.	No. of Electronic waste treatment facility	Quantity (MTA)	Authorization
1	16	28.84	Authorised



**3. MUNICIPAL SOLID WASTE/ DOMESTIC WASTE/ SLUDGE FROSTPS/ETPS/CETPS AND OTHER INDUSTRIAL SOURCES**

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

**4. PLASTIC WASTE N/A**

S. no.	No. of Plastic waste Processing facility	Quantity	Authorization
1	NIL	NIL	NIL

**5. QUANTIFICATION OF WASTE AND RELATIVE CONTRIBUTION FROM DIFFERENT SOURCES**

S.no.	Pollution source	Type of Wastes	Relative Contribution
1	NIL	NIL	NIL

**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**

Sl.no.	TSDF/Incineration Facilities	Capacity	Location
1	NIL	NIL	NIL

**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**

S.no.	CEPI Score before management of solid waste	CEPI Score after management of solid waste	% Change
1	NA	NA	NA

## 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.

12.2. 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	Direction
1	Green Belt Developed (Renukoot Division)	1,13,600 Hectare	East, West. North and South
2	Green Belt Developed (Obra Division)	1,16,900 Hectare	East, West. North and South

### 6.2. Development of Industrial Estate(s)

S. Nos.	Development of Industrial Estates	Area	Direction
1	NA	NA	NA

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

S. Nos.	Shifting of Industrial Estates to non-Industrial areas	Area	Direction
1	NA	NA	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. Nos.	GIS-GPS System enabled Pollution sources	Remarks

## 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. Nos.	Pollution sources with in-situ remediation facility	Treatment method	Discharge
1	M/s NTPC Rihand Nagar	STP	3.5
2	M/s NTPC Ltd., Singrauli Super Thermal Power Station, Shaktinagar	STP	3.2
3	M/s Ultratech Cement Ltd. (Unit Dalla Cement Works) Dalla	STP	0.8
4	M/s Hindalco Industries Ltd. (Renusagar Power Division) Renusagar	STP	12
5	M/s Lanco Anpara Power Ltd. Anpara	STP	0.6
6	M/s U.P. Rajya Vidyut UtpadanNigam Ltd, Anpara (Unit A, B & D), Anpara	STP	4.8
7	M/s Hindalco Industries Ltd. (Aluminum Division) Renukoot	STP	24
8	M/s Birla Carbon India Pvt. Ltd. Renukoot	STP	0.25

## 7.4. Utilization of MSW inert by gas based brick kills

S. Nos.	Number of Brick kilns	Fuel
1	NA	NA

## 7.5. Co- processing of wastes in cement industries

S. Nos.	Cement industries	Fuel
1	M/s Ultratech Cement Ltd. (Formerly Name Dalla Cement Works) Dalla, Sonebhadra.	Approx 8 Ton/day Co-processing of Waste in kiln as alternative fuel

## 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. Nos.	CEPI score before installation/commissioning of pollution control equipment/ measures	CEPI score after installation/commissioning of pollution control equipment/ measures	Percent change (%)
	CEPI Score in Year 2015 was <b>83.73</b>	CEPI Score in Year 2019 was <b>62.59</b>	<b>25.25 %</b>

**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)**

S.No.	Action Points (including source and mitigation measures )	Responsible Stack Holder	Time Limit	Cost	Remarks
	<b>Water Pollution Industrial Source -</b> Proposed Action Plan for effective control of Water Pollution:1 ☑ Regular effluent sample collection and analysis of Pollution Control System in Large & Medium & Small Scale Polluting Industries to be done to ensure strict compliance of prescribed Norms	UPPCB & Individual Industry	<b>Frequency</b> Large & Medium Industries - <b>3 months</b> Small Scale Industries - <b>6 months</b> (By UPPCB) & By Individual Industries as follows - L & M - Every 3 Months. Small - Once a Year		<b>It is being complied</b>
	☑ Installation of energy meter, on line PH meter, automatic chemical dosing system, on line flow measurement and installation of independent laboratory to monitor	Individual Industries (Large and Medium) Individual Industries. UPPCB & Individual Industries.	Ongoing With in 06 months. 06 Months		<b>It is being complied by all units</b>

critical parameters like MLSS, SVI etc. and other inlet and outlet parameters of ETP for Large & Medium Industries and industries situated.

☑ 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.

☑ **Up gradation of ETP's:** Conversion of conventional reduction treatment of electroplating waste water to Ion exchange method and its recycling in Large & Medium sector units, wherever existing ETP is not functioning properly. Prospective agents with expertise in this field shall be shortlisted in next 6 months.

Also, small industries in the region currently using physico chemical treatment methods to treat their effluent shall be upgraded such as installation of dual media filter and Activated Carbon filter. Directions regarding installation of pH meter, automatic dosing and maintenance and

UPPCB & Individual Industries

06 months

	proper running of ETPs have also been given in the District Level Committee held on 28/5/2012.				
	<p><b>Groundwater Pollution</b></p> <p>☑ 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</p> <p>☑ Also, intensive surveys will be done to ensure that practice of reverse boring is not prevalent in the region.</p>	<p>UPPCB and local Authority.</p> <p>UPPCB</p>	<p>Ongoing</p> <p>Ongoing</p>		<p><b>Yet to be complied</b></p>
	<p><b>Domestic Waste Water (Sewage)</b></p> <p>Domestic sewage contributes to about 80% of Water. The status of Sewage Pollution Control is as follows: Effective operation &amp; maintenance of installed STP.</p> <p>☑ Combined Inspection of STPs by UPPCB and Jal Nigam</p> <p>☑ Upcoming High Rise Buildings, Commercial Project, Educational Institution, Multi Plexes, Township &amp; 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 &amp; ensure compliance of</p>		<p>Ongoing</p> <p>Ongoing Process</p>		<p><b>It is being complied by all units &amp; have to be comply by Jal Nigam. &amp; Local bodies</b></p>

	the conditions of the Environment Clearance and NOC from PCB.				
	<p><b>Air Pollution Industrial:</b> A total of air polluting industries have been identified in the region.</p> <p><b>Proposed Action Plan for effective control of Air Pollution:</b> ☑ Regular Monitoring of Pollution Control System in Industries in order to ensure strict compliance of prescribed Norms.</p>	UPPCB & Individual Industries.	Stack Monitoring of Large & Medium units every 06 months and once in a Year for SSI units. (By UPPCB & by individual Industries)		<b>It is being complied by all units &amp; UPPCB</b>
	<p><b>Illegal setup of Industrial activities</b> Regular combined drives are to be carried out by Pollution control board and District Administration to identify and seal illegally operating industrial activities.</p> <p>UPPCL to ensure that electric connection is not sanctioned in favour of such industries which are not in conforming area.</p>	UPPCB and District Admn.  UPPCL and Udyog Bandhu	Combined drives every 2 months by UPPCB & District Administration.  Within 01 month		Regular combined drives are is being carried out by Pollution control board and District Administration and illegally operating industrial are sealed.
	<p><b>Monitoring of D.G Sets:</b> ☑ Inventorisation 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. ☑ Post inventorisation</p>	UPPCB	06 Months.		UPPCB is identifying DG Sets and taking action Under Air Act.

	remedial action with respect to air and noise pollution from likely sources shall be taken against defaulters ☑ Installation of Acoustic Enclosure with adequate stack height in Old D G Sets to be ensured.		Ongoing  9 months		
	<b>Noise Monitoring</b> Board is procuring real time noise monitoring system. This will be installed in Commercial, Residential, Industrial and Sensitive Zones of the Region.	UPPCB	Ongoing		UPPCB is identifying DG Sets and taking action Under Air Act.
	<b>Land Pollution Proper Storage &amp; Disposal of Hazardous Waste &amp; Solid Waste</b> The status of Hazardous Waste Disposal are as follows:	Individual Industry  UPPCB	To send waste every 03/04 months to TSDF  To monitor individual industries every six months.		<b>Proper Storage &amp; Disposal of Hazardous Waste is being complied &amp; disposal of Solid Waste Under process.</b>
	<b>Bio-Medical Waste Disposal</b> member of authorized Common BMW Treatment Facilities Regular Inspection and monitoring of Hospitals / Nursing Homes has to be done	Regional Office, UPPCB	Inspection of Big Hospitals Every 03 months & Small Hospitals every 06 months by UPPCB.		<b>All Health Care Facilities are disposing BMW Through CBWTF after getting Authorization from Board.</b>

### 12.2 Long Term Action Points (More than 1 year)

S.No.	Action Points (including source and mitigation measures )	Responsible Stack Holder	Time Limit	Cost	Remarks
	<b>Water Pollution Industrial Pollution</b> ☑ Adoption of Cleaner Technology if available, in order to	Individual Industries UPPCB & Individual Industries	Within 01 Years. (By Industries)		<b>Industries have been directed to comply</b>



	<p>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.</p>					
	<p><b>Domestic Waste Water (Sewage)</b> At present, 08 STPs are functional as follows :</p> <ol style="list-style-type: none"> <li>1) M/s NTPC Rihand Nagar.</li> <li>2) M/s NTPC Ltd., Singrauli Super Thermal Power Station, Shaktinagar</li> <li>3) M/s Ultratech Cement Ltd. (Unit Dalla Cement Works) Dalla</li> <li>4) M/s Hindalco Industries Ltd. (Renusagar Power Division) Renusagar</li> <li>5) M/s Lanco Anpara Power Ltd. Anpara</li> <li>6) M/s U.P. Rajya Vidyut UtpadanNigam Ltd, Anpara (Unit A, B &amp; D), Anpara</li> <li>7) M/s Hindalco Industries Ltd. (Aluminum Division) Renukoot</li> <li>8) M/s Birla Carbon India Pvt. Ltd. Renukoot</li> </ol>	<p>UPPCB and Authority</p>	<p>Ongoing</p>			

	Widening and Covering of major open Nalas carrying domestic sewage				
	<b>Groundwater Pollution :</b> Ground water study may be carried out in all the 6 Industrial Clusters by Out Sourcing Agencies every 06 months.	UPPCB & Designated Agencies.			<b>Yet to be complied</b>
	<b>AIR POLLUTION Industrial Pollution</b> <input checked="" type="checkbox"/> 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. <input checked="" type="checkbox"/> Switching over to cleaner fuel has been proposed as the bestoption 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. <input checked="" type="checkbox"/> To supply and promote the use of cleaner fuel like CNG, in	UPPCB and Individual industry Individual industry, UPPCB			<b>It is being complied.</b>

	order to reduce emissions in the industrial				
	<p><b>Introduction of Cleaner Fuel for Industrial Uses :</b>  Currently industries are using Coal/ Petro Coke/Wood and FO/LDO/LSHS as a fuel which emits SPM and SO<sub>2</sub> and other pollutants. If CNG is made available to industries the RSPM, SO<sub>2</sub> will be reduced and Ambient Air Quality will be improved. Board has given NOC to IGL &amp; Adani Group to provide CNG in Noida for vehicles as well as industrial &amp; domestic use. These companies need to expedite there distribution network for the same at the earliest.</p>	Gas and Oil Companies	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.		<b>Yet to be complied</b>
	<p><b>Clean fuel for vehicles:</b>  At present 16 CNG stations have been build 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.</p>	RTO & Gas Companies	01 year / As per plan submitted by Gas agencies.		<b>Yet to be complied</b>
	<b>Installation of NAAMP Stations</b>	UPPCB and CPCB			<b>It is being complied.</b>

	<p><b>Display of AAQM data</b> On line display of AAQM data at two different locations in the area need to be undertaken by Industries Association and UPPCB</p>	UPPCB, CPCB Proposal to be made by UPPCB & sent to CPCB	1.5 Years		
	<p><b>Use of Cleaner fuel</b> Time frame to be chalked out by RTO for conversion of all commercial vehicles such as Auto, Bus &amp; Vikram into CNG.</p>	RTO in consultation with Gas Companies	01 Year		<b>Yet to be complied</b>
	<p><b>Development of Green Belt</b> develop green belt from 20% to 33% of the total area.</p>		Ongoing		At present about 50 % area is covered with green belt.
	<p><b>Land Pollution Soil Testing</b> 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 recognise laboratory.</p>	UPPCB	01 Year		<b>Yet to be complied</b>
	<p><b>Study of impact on Human Health of Water &amp; Air Pollutants</b></p>	IITR (Earlier ITRC) / Any other designated Agency			<b>Yet to be complied</b>
	<p><b>Municipal solid waste Disposal</b> At present Municipal solid waste is disposed as landfill in low lying areas. Authority should develop</p>	Project proponent to give compliance report to UPPCB.	Every 3 months		<b>Yet to be complied</b>

	<p>proper MSW facility as per MSW Rules at Proper site.</p> <p>Quantification of MSW</p> <ul style="list-style-type: none"> <li>☑ Site selection for MSW disposal</li> <li>☑ Strategy for implementation / setting up of integrated facility for MSW to be decided in consultation with local civic authority and implemetaion to be done in time bound manner.</li> <li>☑ Upcoming High Rise Buildings, Commercial Project, Educational Institution, Multi Plexes, Town ship &amp; Building Projects are major source of Municipal Solid Waste</li> <li>☑ Such projects must ensure setting up of in house MSW disposal facilities as per MSW Rules &amp; ensure compliance of the conditions of the Environment Clearance and NOC from PCB</li> </ul>					
	<p><b>Committee Update</b></p> <p>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</p>	<p>UPPCB and District Administration</p>			<p><b>Yet to be complied</b></p>	

	Monitoring Committee has been done and nomination work is in progress.				
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