

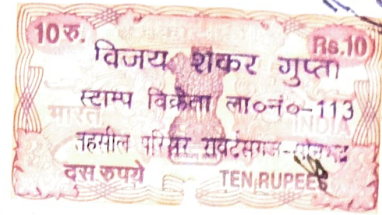
**BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH, NEW DELHI
ORIGINAL APPLICATION NO- 240/2024 (I.A. no.437/2024)**



IN THE MATTER OF:

Singrauli Pradooshan Mukti Vahini

Versus



.....Applicant

Union of India & Ors.

.....Respondent

REPLY ON THE BEHALF OF UTTAR PRADESH POLLUTION CONTROL BOARD IN COMPLIANCE TO THE ORDER DATED 12.11.2024 PASSED BY THE HON'BLE NATIONAL GREEN TRIBUNAL, PRINCIPAL BENCH, NEW DELHI IN THE MATTER OF O.A. NO. 240/2024(I.A. no. 437/2024) SINGRAULI PRADOOSHAN MUKTI VAHINI & ORS.VERSUS. UNION OF INDIA & ORS.

I, Reetesh Kumar Tewari S/o Shri J. N. Tewari, aged about 50 years, presently posted as Regional Officer, Uttar Pradesh Pollution Control Board (hereinafter UPPCB), Sonbhadra do hereby solemnly affirm and state on oath as under:-

I. That in the official capacity mentioned above, I am acquainted with the facts and circumstances of the case and as such I am competent and authorized to swear this affidavit.

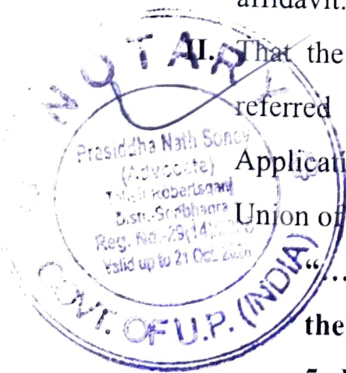
That the Hon'ble National Green Tribunal, Principal Bench, New Delhi (herein referred as Hon'ble Tribunal) vide its order dated 10.09.2024 in Original Application No. 240 of 2024 in the matter of Singrauli Pradooshan Mukti Vahini. Union of India & Ors., instructed the following:-

.....3. Learned Counsel for the UPPCB also seeks two weeks time to file the reply.

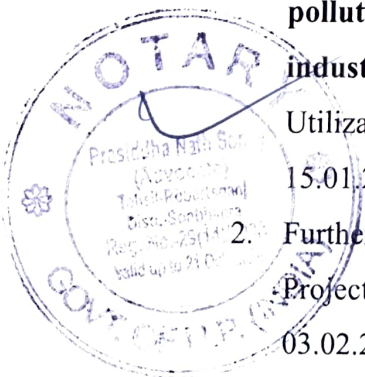
5. Let the response to the I.A. be filed by the respondents within four weeks by way of affidavit.

6. List on 12.11.2024.....”

2 Tickets Rs. - 10/-
03/11/2024
(P.N. SONEY)
Adv. NOTARY
Robertsgeri-Sonbhadra



- I. In compliance of direction of Hon'ble NGT order dated 10.09.2024, reply on the behalf of Uttar Pradesh Pollution Control Board has been filed before the Hon'ble Tribunal, Principal Bench, New Delhi.
- II. That the Hon'ble National Green Tribunal, Principal Bench, New Delhi, vide its order dated 12.11.2024 in Original Application No. 240 of 2024 in the matter of Singrauli Pradooshan Mukti Vahini. Union of India & Ors., instructed the following:
 - "....3. **Learned Counsel for the respondents are also granted three weeks' time to file reply to IA No.437/2024.**
4. Though, State of UP is served but not represented. Learned Counsel for the applicant is permitted to serve a copy of OA and IA to Counsel who normally appears before the Tribunal for State of UP.
5. List on 05.03.2025.
- III. In compliance of Hon'ble NGT in the matter of O.A. NO. 240/2024 (I.A. no. 437/2024) Singrauli Pradooshan Mukti Vahini. Union of India & Ors, reply on the behalf of Uttar Pradesh Pollution Control board are as follows:-
1. Member secretary vide letter ref. No. H05753/C-2/Samanya-210/24 dated 15.01.2024, sent to Prof. (Dr.) Ajai Singh, Executive Director & CEO, All India Institute of Medical Sciences Bhopal informed that, Uttar Pollution Control Board vide ref. No. H96621/C-2/samanya-210/2023 dated 30.06.2023 has given Principal approval to All India Institute of Medical Sciences Bhopal for conducting study on "**MoU for Health related effects of air and water pollution due to operation of Thermal Power Plants and Ash generating industries in sonbhadra**" as per the mandate of Fly Ash Management and Utilization Mission. A copy of the letter from the Member Secretary dated 15.01.2024 is being annexed as **Annexure No.1.**
 2. Further, Dr. Raj Kumar Patil, Principal Investor, UPPCB Funded Research Project, All India Institute of Medical Science, Bhopal vide email dated 03.02.2025 & letter dated 03.02.2025, informed that, as part of *MoU between UPPCB and AIIMS Bhopal, they are doing a research project study in Sonbhadra district Project titled on ' Health related effects of air and water pollution due to operation of Thermal Power Plant and ash- generating industries in the Sonbhadra district of Uttar Pradesh'*, the research team is



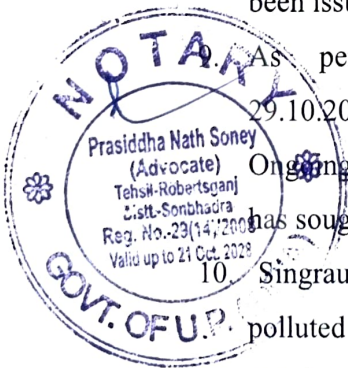
starting the field work in second week of February, 2025. A Copy of letter dated 03.02.2025 is being annexed as **Annexure No.2.**

3. In compliance of the above, the AIIMS team have visited district Sonbhadra and have stated their research work.
4. Details/ Information of Health Statistics received from Health Care facilities regarding CEPI monitoring are being annexed as **Annexure No.3.**
5. Further, Health Status of HCFs provided by CMO, Sonbhadra vide ref. no. M.C.A./Suchana/2024-25/1763 dated 24.05.2024 is being annexed as **Annexure no.4.**
6. Under National Water Monitoring Programme (NWMP), monthly monitoring /sampling at 02 locations i.e. River Rihand at U/s Renukoot, Sonbhadra. & River Rihand at D/s Renukoot, Sonbhadra respectively are being carried by UPPCB. Surface Water Quality of above 02 sites/locations for year 2024 are being annexed as **Annexure no.4**, as per data uploaded on EWQDES Portal.
7. Also, Under National NWMP, Quarterly monitoring/sampling of locations i.e. River Sone at Road Bridge, Chopan, District-Sonbhadra is carried out by CPCB with the data uploaded on EWQDES portal. Surface Water Quality of above sites/locations for year 2024, is being annexed as **Annexure no.5**, as per data uploaded on EWQDES Portal.
8. For Comprehensive Source Apportionment/Emission Inventory and Carrying Capacity for Anpara City, District-Sonbhadra of Uttar Pradesh work order has been issued to (Indian Institute of technology) IIT-Kanpur(**Annexure No.6**).

As per information provided by IIT-Kanpur vide letter dated 29.10.2024(**Annexure No.7**), Comprehensive Source Apportionment is Ongoing and IIT Kanpur (Extension request is yet to be approved by UPPCB) has sought further extension request up to February 2025.

10. Singrauli (U.P). Regions of Sonbhadra district has been classified as critically polluted Area (CPA)-Singrauli (UP)/ Sonbhadra (U.P.). CEPI scores between 60 & below 70 are categorized as Severely Polluted Areas (SPAs). To reduce CEPI score of Critically Polluted Area i.e. Sonbhadra (U.P), CEPI Action plan has been prepared.

11. For monitoring of compliance of CEPI action Plan CPCB has developed "CEPI ACTION PLAN REVIEW PORTAL" to facilitate State Boards to update



progress of action plan, monitoring results, meetings conducted and to review the progress of action plan by CPCB. CEPI Action plan is being regularly revised and updated as per current scenarios of pollution in district. Progress Status of CEPI Action Plan is being attached as **Annexure No.8.**

12. To reduce fugitive dust emission from stone crusher units operational in District-Sonbhadra region, Joint Committee has been constituted by District, Magistrate, Sonbhadra vide order ref. no. 1031/Stone Crusher/2024 dated 21.11.2024 for regular monitoring of Air pollution control measures installed in Stone crusher Unit Monitoring. A Copy of order dated 21.11.2024 is being attached as an **Annexure No.9.** Accordingly, Regular inspection of Stone Crusher units done & action taken against non-complying industries.
13. To Monitor the Ambient Air Quality in Sonbhadra region, 02 Manual Ambient Air Quality Monitoring Stations under NAMP programme are established and are operational in Anpara & Renusagar region of District Sonbhadra
14. To Monitor the Ambient Air Quality in Sonbhadra region, 23 CAAQMS (Continuous Ambient Air Quality Monitoring Stations) are operational & installed by individual industries & All CAAQMS Stations are connected to the CPCB Server.
15. For monitoring of pollution control measures adopted/installed in industries i.e. **Thermal Power Plants, NCL Coal Mines & other industries established** in district Sonbhadra, action plan has been prepared and regular compliance of status implementation status of action plans along with timelines by Coal Mines/ TPPs/ stone crushers/ Industries are done by UPPCB. The implementation status of action plans along with timelines by Coal Mines/ TPPs/ stone crushers/ Industries is being annexed as **Annexure No.10.**

III. That the annexure annexed to the present accompanying affidavit are true copies of their respective originals.

IV. That the present affidavit on behalf of Uttar Pradesh Pollution control Board, is being submitted before this Hon'ble Tribunal for kind perusal and consideration.


DEPONENT

VERIFICATION:

Verified at Robertson on this the 03rd day of March, 2025 that the contents of above affidavit are true and correct to my knowledge based on records and information received and believed to be true, no part of it is false and nothing material has been concealed therefrom.

[Handwritten signature]

[Handwritten signature]

DEPONENT



Reetish Kumar Sanyal
No. _____ Rd. _____ W. _____
has been identified by Shri. J. Singh
Appeared before me on _____ at _____ a.m./p.m.
I certified that he/she understands and admits the truthness
of facts mentioned in the affidavit/declaration And I
administered oath to him
[Signature]
P. NATH SONEY
ADV. NOTARY
PATNA

1966



उत्तर प्रदेश प्रदूषण नियंत्रण बोर्ड

UTTAR PRADESH POLLUTION CONTROL BOARD

संदर्भ सं०

Ref. No

1105753

/सी-2 /सामान्य-210/24

दिनांक

Date15-1-24

To,

Prof. (Dr.) Ajai Singh
Executive Director & CEO
All India Institute of Medical Sciences
Bhopal

Subject: MoU for Health related effects of air and water pollution due to operation of Thermal Power Plants and Ash generating industries in Sonebhadra" as per the mandate of Fly Ash Management and Utilization Mission : Reg.

Sir,

Please refer above mentioned Board's letter No. H96621/C-2/Samanya-210/2023 dated 30.06.2023 vide which U.P. Pollution Control Board has given in principal approval for conducting study on "Health related effects of air and water pollution due to operation of Thermal Power Plants and Ash generating industries in Sonebhadra" as per the mandate of Fly Ash Management and Utilization Mission.

In this continuation, the amended copy of MoU to be signed between UPPCB and AIIMS Bhopal is attached herewith for your perusal and necessary action please.

Yours faithfully,

sk
(Sanjeev Kumar Singh)
Member Secretary

Copy to : Shri N. Subrahmanyam, Scientist D, Hazardous Substances Management Division, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jal Wing, 2nd Floor, Jor Bagh Road, New Delhi for information please.

sk
Member Secretary

English Letter head

टी.सी. - 12 वी, विभूति खण्ड, गोमती नगर,
लखनऊ - 226 010
दूरभाष : 0522-2720828, 2720831
फैक्स : 0522-2720764, 2720676
ई-मेल : info@uppcb.com
वेबसाइट : www.uppcb.in

T.C.-12 V, Vibhuti Khand, Gomti Nagar,
Lucknow - 226 010
Phone : 0522-2720828, 2720831
Fax : 0522-2720764, 2720676
E-mail : info@uppcb.com
Website : www.uppcb.in



अखिल भारतीय आयुर्विज्ञान संस्थान, भोपाल

Annexure No.2

(स्वास्थ्य एवं परिवार कल्याण मंत्रालय, भारत सरकार के अधीन राष्ट्रीय महत्व का संस्थान)
साकेत नगर, भोपाल 462 020 मध्यप्रदेश, दूरभाष : 0755-2982607 / 2985569

All India Institute of Medical Sciences, Bhopal

(An Institute of National Importance under the Ministry of Health & Family Welfare, Govt. of India)
Saket Nagar, Bhopal 462 020 Madhya Pradesh, Tel.: 0755-2982607 / 2985569
■ Email : info@aiimsbhopal.edu.in ■ Website : www.aiimsbhopal.edu.in

Date: 03/02/2025

To,
Regional Officer
Uttar Pradesh Pollution Control Board
Sonbhadra district UP

Subject: Requesting for necessary support for Uttar Pradesh Pollution Control Board funded research project in Sonbhadra district.

Dear Sir,

As part of MoU between UPPCB and AIIMS Bhopal, we are doing a research project study in Sonbhadra district. UPPCB has funded a research project titled: '**Health-related effects of air and water pollution due to operation of Thermal Power Plants and ash-generating industries in the Sonbhadra district of Uttar Pradesh**', the research team is starting the fieldwork in second week of February 2025.

Regarding this, I request you to kindly facilitate and help the research Project staff for data collection. I request you to make the following arrangements for smooth work:

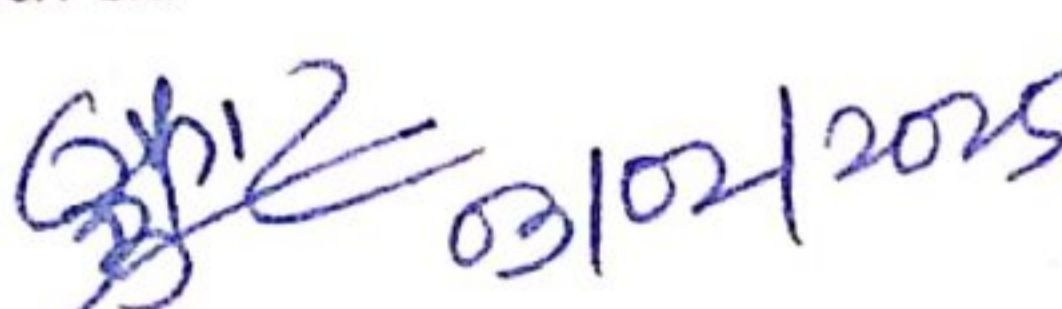
1. Share contact details (Phone, E-mail, and Address) of officers at Regional Office UPPCB, Sonbhadra.
2. Liaison with officials of the thermal power plants, meteorological departments as well as health officials of Sonbhadra district (as per the need, such as CMHO, District Hospital).

Please find the contact details of medical consultant who is approaching you:

Dr. Shereen Khan, Mobile – 9981603704,
E-Mail ID – shereen.project@aiimsbhopal.edu.in

Four other research staff will be accompanying the medical consultant
(Dr. Sachin Kumar Sen, Mrs. Varsha Patle, Miss Divya Sahu, Mr. Madhusoodan)

Regards

 03/02/2025 डॉ. राजकुमार पाटिल
एम. बी. बी. एस., एम. डी.
Dr. RAJKUMAR PATIL
MBBS, MD

Dr. Rajkumar Patil

Principal Investigator, UPPCB Funded Research Project

आचार्य
सामुदायिक एवं पारिवारिक चिकित्सा विभाग
Deptt. of Community & Family Medicine
अखिल भारतीय आयुर्विज्ञान संस्थान, भोपाल
All India Institute of Medical Sciences, Bhopal

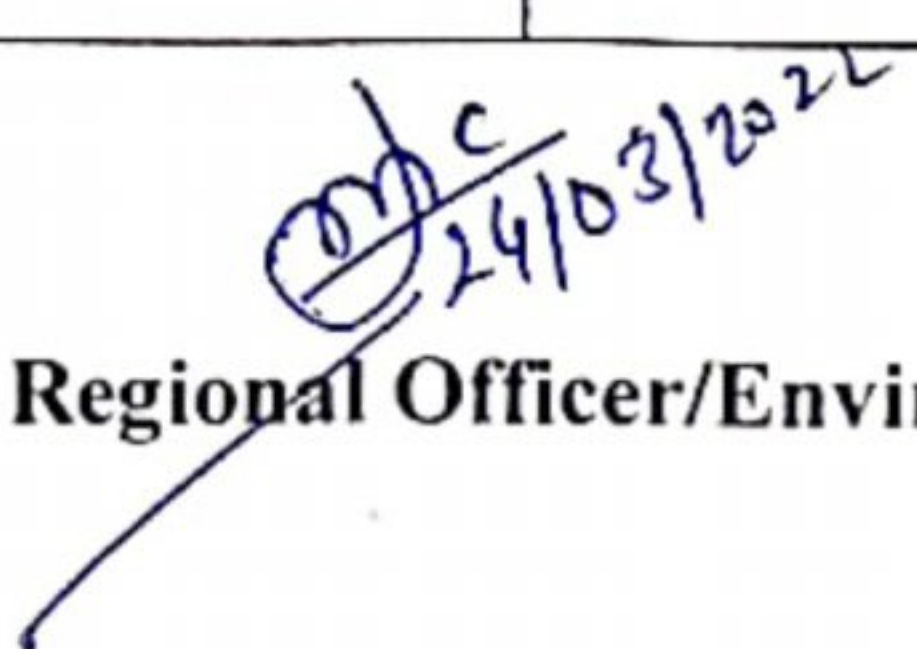
INFORMATION ON POLLUTION SOURCES STATUS IN PIA

1. Name of the Polluted Industrial Area (PIA) : Sonbhadra (U.P.)
2. Demarcated area of the PIA in sq.km : 238.4 Km²
Region-Dala-Tola, Obra, Renkoot, Anpara, Renusagar, Kakri, Dudhichuwa, Bina, Khadia, Shaktinagar, Rihandnagar & Bijpur (U.P. Region).
CPA Areas are merge into 04 Clusters i.e., Cluster 01-(Obra & Dala Cluster), Cluster-02 (Renukoot), Cluster 03-(Anpara, Renusagar, Kakri, Khadia, Bina, Krishnashila, Dudhichua & Shaktinagar), Cluster 04-(Rihandnagar & Bijpur).
Details are attached.
3. Number of 17 category of industries covered under the area: 10
4. Number of Red category industries covered under the area: 13
5. Total human population: 1108772 as per information provided by jal Nigam, Sonbhadra.
6. At least three critical criteria pollutants in each air, surface water and ground water:

Environmental Component	Critical Pollutants
Air	PM ₁₀ , PM _{2.5} and CO
Surface Water	BOD, Tot. Phosphate and Mercury
Groundwater	Total Hardness, Arsenic and Iron

Compliance status of industries, waste management facilities:

Sl.No	Category of industries	Total number of units	Number of units with inadequate facilities	Remarks, if any
1.	Large scale industries	17	17	
2.	Medium & Small scale industries	350	72	Units with inadequate facilities mainly Stone Crushers are closed.
3.	CETPs	Nil	NA	NA
4.	TSDF	Nil	NA	NA
5.	STPs	10	Nil	Nil
6.	CBMWTF	Nil	NA	NA
7.	MSW management facilities	Nil	Nil	Nil


 Signature of Regional Officer/Environmental Officer/DEE

INFORMATION ON POLLUTION SOURCES STATUS IN PIA

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4.	TSDF	Nil	NA	NA
5.	STPs	10	Nil	Nil
6.	CBMWTF	Nil	NA	NA
7	MSW management facilities	Nil	Nil	Nil

Signature of Regional Officer/Environmental Officer/DEE



INFORMATION ON HEALTH STATISTICS IN PIA

1. Name of the Polluted Industrial Area (PIA): SONEBHADRA (U.P)
2. Name of the major health center/organization: KIRTI POLY HOSPITAL
3. Name and designation of the contact person: DR. A.K SINGH MBBS, M.D
4. Address: PIPARI ROAD, ROBERTSGANJ, SONEBHADRA
5. Year of establishment: 1996
6. Consent Status Under BMW:

Health status data received from the Hospital :

Sl. No.	Diseases	No. of patients reported for the years					
		2020-2021	2018-2019	2017-2016	2015-2014	2014-2013	2013-2012
1	Asthma	478	410	384	435	366	390
2	Acute Respiratory Infection	614	562	508	592	495	466
3	Bronchitis	242	294	216	198	186	215
4	Cancer	55	48	36	50	35	39
	Water Borne Diseases						
1.	Gastroenteritis	732	615	668	688	576	547
2.	Diarrhea	418	490	465	445	489	411
3.	Renal diseases	295	238	279	256	199	168
4.	Cancer	43	47	51	45	36	58
5.							

Signature of hospital head/superintendent

Kirtipoly Hospital

Pipari Road, Robertsganj

Sonebhadra

Reg. No. SRF/HCSP-0014/2010

f) INFORMATION ON HEALTH STATISTICS IN PIA

1. Name of the Polluted Industrial Area (PIA):
2. Name of the major health center/organization: Sai Hospital Pipari Road, Robertganj, Sonbhadra
3. Name and designation of the contact person: *Dr. V. SINGH*
4. Address: *PIPARI ROAD ROBERTGANJ SONBHADRA*
5. Year of establishment: *2006*
6. Consent Status Under BMW: *YES*

Health status data received from the Hospital:

Sl. No.	Air Borne Diseases	No. of patients reported for the years				
		2017-2016	2016-2015	2015-2014	2014-2013	2013-2012
1.	Asthma	90	68	77	112	126
2.	Acute Respiratory Infection	360	312	318	346	320
3.	Bronchitis	90	280	80	127	115
4.	Cancer	5	6	3	6	2
	Water Borne Diseases					
1.	Gastroenteritis	320	280	290	300	287
2.	Diarrhea	270	317	291	291	311
3.	Renal diseases	70	67	65	78	117
4.	Cancer	3	2	4	2	1

Signature of Hospital Head/Superintendent



Annexure-B

District Combined Hospital Sonebhadra

Sl. N o.	Air Born Diseases	No. of patients reported for the years									
		2021-2020	2020-2019	2019-2018	2018-2017	2017-2016	2016-2015	2015-2014	2014-2013	2013-2012	
1	Asthma	7149	2608	6960	6802	7975	6726	6083	6130	4870	
2	Acute Respiratory Infection	16443	13563	19480	20406	18620	15694	16222	16300	12900	
3	Bronchitis	15728	12520	20860	19046	19950	16815	14190	24320	14425	
4	Cancer	4	4	6	7	8	7	8	7	8	
Sl. N o.	Water Born Diseases	2021-2020	2020-2019	2019-2018	2018-2017	2017-2016	2016-2015	2015-2014	2014-2013	2013-2012	
1	Gastroenteritis	5780	3129	18094	17685	15995	15695	14190	14320	11360	
2	Diarrhea	3268	3650	16702	25848	26599	24660	20278	22504	19480	
3	Renal diseases	98	104	278	326	398	336	290	307	245	
4	Cancer	0	0	0	0	0	0	0	0	0	

Annexure-B

INFORMATION ON HEALTH STATISTICS IN PIA

1. Name of the Polluted Industrial Area (PIA) :
2. Name of the major health center/organization: ANK Hospital, new colony, Robertsganj, Sonebhadra
3. Name and designation of the contact person: Dr. A. N. Kushwaha
4. Address:
5. Year of establishment: New Colony Robertsganj Sonebhadra.
2014
6. Consent Status Under BMW:
- 7.

Health status data received from the Hospital:

Sl. No.	Air Borne Diseases	No. of patients reported for the years				
		2017-2016	2016-2015	2015-2014	2014-2013	2013-2012
1.	Asthma	192	105	26		
2.	Acute Respiratory Infection	280	210	160		
3.	Bronchitis	101	72	63		
4.	Cancer	13	2	2		
	Water Borne Diseases					
1.	Gastroenteritis	410	352	270		
2.	Diarrhea	1300	83	35		
3.	Renal diseases	65	91	60		
4.	Cancer	13	2	2		

A. N. Kushwaha
27/01/22

Signature of Hospital Head/Superintend

Annexure-B

INFORMATION ON HEALTH STATISTICS IN PIA

1. Name of the Polluted Industrial Area (PIA):
2. Name of the major health center/organization: ANK Hospital, new colony, Robertsganj, Sonebhadra
3. Name and designation of the contact person: Dr. A. M. Kushwaha.
4. Address: New colony Robertsganj Sonebhadra.
5. Year of establishment: - 2014 -
6. Consent Status Under BMW:

Health status data received from the Hospital:

Sl. No.	Air Borne Diseases	No. of patients reported for the years			
		2021-2020	2020-2019	2019-2018	2018-2017
1.	Asthma	125	150	139	114
2.	Acute Respiratory Infection	173	205	310	270
3.	Bronchitis	50	75	132	105
4.	Cancer	14	13	9	12
	Water Borne Diseases				
1.	Gastroenteritis	158	260	289	349
2.	Diarrhea	136	170	280	235
3.	Renal diseases	110	112	129	135
4.	Cancer	14	13	9	12


 Signature of Hospital Head/Superintendent
 27/01/22

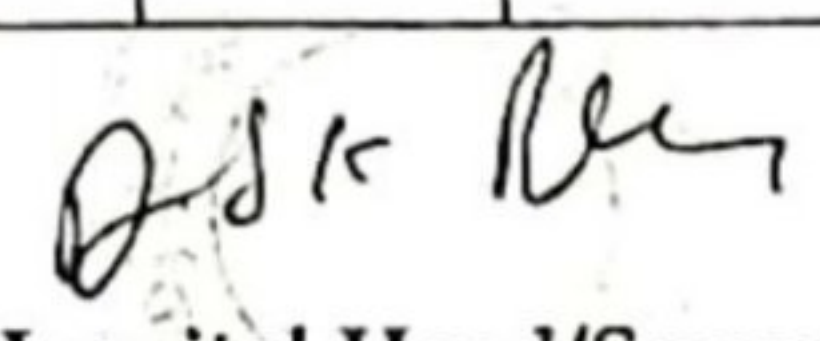
Annexure-B

INFORMATION ON HEALTH STATISTICS IN PIA

1. Name of the Polluted Industrial Area (PIA) :
2. Name of the major health center/organization: SwetaHopsital and Trauma Center, By pass road,Robersganj
3. Name and designation of the contact person :
4. Address:
5. Year of establishment:
6. Consent Status Under BMW:

Health status data received from the Hospital:

Sl. No.	Air Borne Diseases	No. of patients reported for the years				
		2017-2016	2016-2015	2015-2014	2014-2013	2013-2012
1.	Asthma	80	60			
2.	Acute Respiratory Infection	40	30			
3.	Bronchitis	35	20			
4.	Cancer	0	0			
	Water Borne Diseases					
1.	Gastroenteritis	40	40			
2.	Diarrhea	40	40			
3.	Renal diseases	2	3			
4.	Cancer	0	0			


Signature of Hospital Head/Superintend

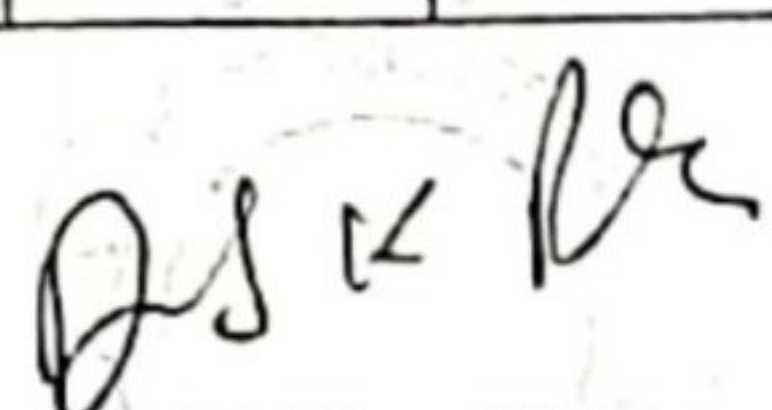
Annexure-B

INFORMATION ON HEALTH STATISTICS IN PIA

1. Name of the Polluted Industrial Area (PIA) :
2. Name of the major health center/organization: SwetaHopsital and Trauma Center, By pass road,Robersganj
3. Name and designation of the contact person : Dr. S.K. Poddar
4. Address: Shree Sweta Hospital and Trauma Center
5. Year of establishment: 2015
6. Consent Status Under BMW:

Health status data received from the Hospital:

Sl. No.	Air Borne Diseases	No. of patients reported for the years			
		2021-2020	2020-2019	2019-2018	2018-2017
1.	Asthma	50	50	60	80
2.	Acute Respiratory Infection	70	40	50	40
3.	Bronchitis	40	60	65	50
4.	Cancer	0	0	0	0
	Water Borne Diseases				
1.	Gastroenteritis	35	40	35	40
2.	Diarrhea	60	30	45	40
3.	Renal diseases	4	2	0	5
4.	Cancer	0	0	0	0


Signature of Hospital Head/Superintend

प्रेषक,

मुख्य चिकित्साधिकारी,
सोनभद्र।

ure No.4

सेवा में,

क्षेत्रीय अधिकारी,
उ०प्र० नियंत्रण बोर्ड, सोनभद्र।

पत्रांक-मु०चि०अ०/सूचना/2024-25/ 1763

दिनांक-24-05-24

विषय:-मा० राष्ट्रीय हरित अधिकरण, नई दिल्ली में योजित ओ०ए० सं०-240/2024
सिंगरौली प्रदूषण मुक्ति वाहिनी एवं अन्य बनाम भारत संघ एवं अन्य में पारित आदेश
दिनांक 15.03.2024 के सम्बन्ध में मांगी गयी सूचना का प्रेषण।

महोदय,

उपरोक्त विषयक आपके पत्रांक सं०-G-0477/ओ०ए०सं०-240/2024, दिनांक 09.05.
2024 के द्वारा मांगी गयी वांछित सूचना इस पत्र के साथ संलग्न कर प्रेषित है।

कृपया प्राप्ति स्वीकार करें।

संलग्नक-उपरोक्तानुसार पेज सं०-1 से 6 तक

भवदीय

मुख्य चिकित्साधिकारी
सोनभद्र।

पत्रांक-मु०चि०अ०/सूचना/2024-25/

प्रतिलिपि-निम्नलिखित को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित।

1. जिलाधिकारी महोदय, सोनभद्र।
2. मुख्य पर्यावरण अधिकारी (वृत्त-2), उत्तर प्रदेश नियंत्रण बोर्ड, लखनऊ।

तददिनांक-

मुख्य चिकित्साधिकारी
सोनभद्र।

Date 24/05/2024

To
the Regional Officer
U.P. Pollution Control Board
Sonabhadra

Ref: G-0477/OA No-240/2024 Dated 08/05/2024

Sir,

Please find the details below as per your requirements:-

Health Status of CHC Myorpur Sonabhadra, for the year 2023-24
(Total Population Covered about 410000)

Sr No	Description of Diseases	Number of Patients in 2023-24	Remarks
1	Lung Related Diseases e.g Tuberculosis	14	All the cases were for Sputum check and for treatment
2	Fluorosis cases	48	Recommendation for Defluoridation Technique
3	Bone Involvement	6	Referred to Specialist
4	Lead & Mercury Toxicity	0	We are not Dealing with Heavy Metals
5	Yellowish Teeth/Bluelines on Gums	10	Suspected the cause of Heavy Metals Referd to District Hospital
6	Rate of Miscarriages in this region	0	We are not dealing with Gynae Cases therefore we do not have any Document

Thanking You, sincerely yours

P. S. B.
अधीक्षक
सामु० स्वा० केन्द्र
म्योरपुर, सोनभद्र

TO

The Regional Officer
UP Pollution Control Board
Sonehadra

Date-24-05-2024
Duddhi, Sonehadra

Ref:G-0477/OA no-240/2024 Dated 08/05/2024

Sir,

Please find the details below as per your requirements:-

**Health Status of this Locality surrounding Duddhi & Nearby areas District-
Sonehadra, for the Year 2022-23 & 2023-24**
Total Population Covered about 2,15,000

SN	Description of Diseases	Number of Patient in 2022-23	Number of Patient in 2023-24	Remarks
1	Lung Related Diseases e.g. Tuberculosis	271	102	All the cases were referred to Govt Hospital for sputum check and for treatment
2	Fluorosis	95	56	deformities not seen and all the Skeletal Fluosis is Presented with bone pain and Arthralgia
3	Bone involvement	0	0	Referred to specialist
4	lead & Mercury Toxicity	0	0	We are not dealing with Heavy Metals
5	Yellowish Teeth/Bluelines on Gums	0	0	
6	Rate of Miscarriage in this region	0	0	We are dealing with Gynae Cases


MOIC
CHC-DUDDHI

The Regional Officer
U.P. Pollution Control Board
Sonebhadra

Date: 22/05/2024
Murdhawa, Renukoot

Ref: G-0477/OA No-240/2024 Dated 08/05/2024

Sir,
Please find the details below as per your requirements :-

**Health Status of this Locality surrounding Birla Carbon Industry, Murdhawa, Renukoot District -
Sonebhadra, for the year 2022 - 23 & 2023-24**

(Total Population covered about 30,000)

Sr No	Description of Diseases	Number of Patients in 2022-23	Number of Patients in 2023-24	Remarks
1	Lung Related Diseases e.g. Tuberculosis	6	4	All the cases were referred to Govt Hospital for Sputum check and for treatment
2	Fluorosis and Bone Involvement	2	0	Deformities not seen and all the Skeletal Fluorosis is presented with Bone Pain and Arthralgia.
3	Lead & Mercury Toxicity	0	0	We are not dealing with Heavy Metals.
4	Yellowish Teeth/ Bluelines on Gums	0	0	
5	Rate of Miscarriages in this region	0	0	We are not dealing with Gynae Cases therefore we do not have any Document

Thanking you, sincerely yours

[Signature]
Dr. M.R. Chaturvedi
M.R.B. Birla Carbon Industry
Regd. No. - 18130 UP

Name	Age	Sex	Father's Name	Prof. Occ.
1. Rajat	129	M	Indrajit	-
2. Pradyumn	133	F	Chandul	-
3. Venkatesh	132	F	Kamath	-
4. Neelika Kinnari	127	F	Ramesh Sharma	-
5. Subram	127	M	Indrajit	-
6. Subhanga	127	F	Indrajit	-
7. Pratik	127	M	Indrajit, Prati	-
8. Vijay Sharma	127	M	Indrajit	GEOMETRICIAN
9. Pradyumn	127	M	Vishal Sharma	-
10. Vikram Chandra	127	M	Kamath	-
11. Pradyumn	127	F	Indrajit	-
12. Chandan Devi	127	F	Indrajit	-
13. Kankaran	127	M	Kamath	-
14. Lakshmi Devi	127	M	Kamath	-
15. Kinnari Sharma	127	M	Kamath	-
16. Kamaladevi	127	M	Kamath	-
17. Lakshmi Devi	127	M	Kamath	-
18. Anand Kumar	127	M	Kamath	-
19. Anand Kumar	127	M	Kamath	-
20. Anand Kumar	127	M	Kamath	-
21. Anand Kumar	127	M	Kamath	-
22. Anand Kumar	127	M	Kamath	-
23. Anand Kumar	127	M	Kamath	-
24. Anand Kumar	127	M	Kamath	-
25. Anand Kumar	127	M	Kamath	-
26. Anand Kumar	127	M	Kamath	-
27. Anand Kumar	127	M	Kamath	-
28. Anand Kumar	127	M	Kamath	-
29. Anand Kumar	127	M	Kamath	-
30. Anand Kumar	127	M	Kamath	-

Dr. Prati	Dr. Prati	Dr. Prati	Dr. Prati
1. Rajat	Yes	No	15-16
2. Pradyumn	Yes	No	-
3. Venkatesh	Yes	No	-
4. Neelika Kinnari	Yes	No	-
5. Subram	Yes	No	-
6. Subhanga	Yes	No	-
7. Pratik	Yes	No	-
8. Vijay Sharma	Yes	No	-
9. Pradyumn	Yes	No	-
10. Vikram Chandra	Yes	No	-
11. Pradyumn	Yes	No	-
12. Chandan Devi	Yes	No	-
13. Kankaran	Yes	No	-
14. Lakshmi Devi	Yes	No	-
15. Kinnari Sharma	Yes	No	-
16. Kamaladevi	Yes	No	-
17. Lakshmi Devi	Yes	No	-
18. Anand Kumar	Yes	No	-
19. Anand Kumar	Yes	No	-
20. Anand Kumar	Yes	No	-
21. Anand Kumar	Yes	No	-
22. Anand Kumar	Yes	No	-
23. Anand Kumar	Yes	No	-
24. Anand Kumar	Yes	No	-
25. Anand Kumar	Yes	No	-
26. Anand Kumar	Yes	No	-
27. Anand Kumar	Yes	No	-
28. Anand Kumar	Yes	No	-
29. Anand Kumar	Yes	No	-
30. Anand Kumar	Yes	No	-

FOOTING

Sum

Dr. Prati

Dr. Prati

Dr. Prati

Dr. Prati

Dr. Prati


Acute Respiratory Illness Cases for District Combind Hospital Sonbhadra

S.no	Month	Total No cases reported
1	Apr-22	0
2	May-22	33
3	Jun-22	63
4	Jul-22	38
5	Aug-22	43
6	Sep-22	83
7	Oct-22	46
8	Nov-22	48
9	Dec-22	62
10	Jan-23	74
11	Feb-23	66
12	Mar-23	74
13	Apr-23	0
14	May-23	93
15	Jun-23	74
16	Jul-23	0
17	Aug-23	90
18	Sep-23	89
19	Oct-23	116
20	Nov-23	105
21	Dec-23	109
22	Jan-24	103
23	Feb-24	109
24	Mar-24	118
25	Apr-24	56
Total		1692


 NODAL NPCCHH
 Sonbhadra

COPD Cases Status Distt. Sonbhadra

S.no	F.Y.	Total No cases
1	2022-23	13
2	2023-24	26
Total		39


NODAL NCD
Sonebhadra

Annexure no.5

REGIONAL OFFICE, U.P. POLLUTION CONTROL BOARD, SONBHADRA

Surface Water Quality of Rivers under NWMP Programme Year-2024

STN Code	Sampling Date	Name Of Monitoring Location	Type Water Body	Sub Basin	District	Frequency of Monitoring	Location Details	Temperature	Dissolved O2 (mg/L)	pH	Conductivity (µmo/cm)	BOD (mg/L)	Nitrate N (mg/L)	Nitrite N (mg/L)	Fecal Coliform (MPN/100ml)	Total Coliform (MPN/100ml)	Fecal Streptococci (MPN/100ml)	Carbonate (CO3-) (mg/L)	E.Coli (MPN/100ml)	Turbidity (mg/L)	Total Alkalinity (mg/L)	Chlorides (mg/L)	COD (mg/L)	
1359	15-01-2024	RIVER RIHAND AT RENUKUT U/S, U.P.	RIVER	RIHAND	SONBHADRA	MONTHLY	Near Pipari Dam, renukoot, Sonbhadra	19.5	9.4	8.35	234	1.7	0.46	NA	220	490	170	NA	84	20	74	20.48	6.4	
1360	15-01-2024	RIVER RIHAND AT RENUKUT D/S, U.P.	RIVER	RIHAND	SONBHADRA	MONTHLY	Near Pipari Rihand Dam, Renukoot, Sonbhadra	19.5	8.8	8.22	250	3	0.58	NA	1100	2200	580	NA	390	28	82	24.98	10.8	
30081	07-02-2024	RIVER SONE AT ROAD BRIDGE CHOPAN, DIST-SONEBHADRA (U.P.)	RIVER	SONE	SONBHADRA	QUARTERLY		23	9.1	8.09	185	1(BDL)	0.3(BDL)	0.02(BDL)	2000	6800	NA	NA	NA	NA	NA	NA	NA	5.24
1360	19-02-2024	RIVER RIHAND AT RENUKUT D/S, U.P.	RIVER	RIHAND	SONBHADRA	MONTHLY	Near Pipari Dam Bridge, Renukoot, Sonbhadra	20.5	8.7	8.18	256	3.2	0.62	NA	1300	2300	630	NA	410	28	85	28.48	11.2	
1359	19-02-2024	RIVER RIHAND AT RENUKUT U/S, U.P.	RIVER	RIHAND	SONBHADRA	MONTHLY	Near Pipari Dam, Renukoot, Sonbhadra	20.5	9.2	8.32	242	1.9	0.5	NA	310	580	200	NA	94	20	78	22.48	6.8	
1360	19-03-2024	RIVER RIHAND AT RENUKUT D/S, U.P.	RIVER	RIHAND	SONBHADRA	MONTHLY	Near Pipari Dam Bridge, Renukoot, Sonbhadra	22.5	8.5	8.15	270	3.3	0.66	NA	1400	2600	700	NA	430	20	90	29.98	11.6	
1359	19-03-2024	RIVER RIHAND AT RENUKUT U/S, U.P.	RIVER	RIHAND	SONBHADRA	MONTHLY	Near Pipari Rihand Dam, Pipari, Renukoot, Sonbhadra	22.5	9	8.28	256	2.1	0.54	NA	330	630	230	NA	110	15	82	24.48	7	
1360	15-04-2024	RIVER RIHAND AT RENUKUT D/S, U.P.	RIVER	RIHAND	SONBHADRA	MONTHLY	Near Pipari Dam Bridge, Renukoot Sonbhadra	24.5	8.3	8.1	274	3.2	0.6	NA	1300	2300	630	NA	380	15	84	31.48	11.2	
1359	15-04-2024	RIVER RIHAND AT RENUKUT U/S, U.P.	RIVER	RIHAND	SONBHADRA	MONTHLY	Near Pipari Rihand Dam, Renukoot, Sonbhadra	24.5	8.8	8.22	262	2	0.48	NA	310	580	210	NA	94	12	76	25.48	6.8	
30081	13-06-2024	RIVER SONE AT ROAD BRIDGE CHOPAN, DIST-SONEBHADRA (U.P.)	RIVER	SONE	SONBHADRA	QUARTERLY		32.8	7	7.62	195	1(BDL)	0.55	0.02(BDL)	23000	49000	NA	NA	NA	4.4	117	12.2	5.12	
1360	20-05-2024	RIVER RIHAND AT RENUKUT D/S, U.P.	RIVER	RIHAND	SONBHADRA	MONTHLY	Near pipari Dam Renukoot, Sonbhadra	27.5	8.1	8.07	282	3.3	0.64	NA	790	1400	700	NA	410	16	88	32.48	11.4	
1359	20-05-2024	RIVER RIHAND AT RENUKUT U/S, U.P.	RIVER	RIHAND	SONBHADRA	MONTHLY	Near Rihand Dam, Pipari, Sonbhadra	27.5	8.6	8.2	270	2.1	0.52	NA	220	340	230	NA	110	13	80	26.98	7	
1359	17-06-2024	RIVER RIHAND AT RENUKUT U/S, U.P.	RIVER	RIHAND	SONBHADRA	MONTHLY	Near Pipari Rihand Dam, Pipari, Sonbhadra	28.6	8.8	8.24	264	2	0.44	NA	210	330	220	NA	94	8	72	24.48	6.8	
1360	17-06-2024	RIVER RIHAND AT RENUKUT D/S, U.P.	RIVER	RIHAND	SONBHADRA	MONTHLY	Near Pipari Dam Bridge Pipari, Sonbhadra	28.5	8.3	8.16	276	3.1	0.56	NA	700	1300	630	NA	390	NA	NA	NA	NA	
1359	15-07-2024	RIVER RIHAND AT RENUKUT U/S, U.P.	RIVER	RIHAND	SONBHADRA	MONTHLY	Near Pipari Rihand Dam, pipari, Renukoot	27.5	8.5	8.27	260	1.8	0.36	NA	260	410	200	NA	84	35	58	21.48	6.6	
1360	15-07-2024	RIVER RIHAND AT RENUKUT D/S, U.P.	RIVER	RIHAND	SONBHADRA	MONTHLY	Near Pipari Dam, Pipari, Renukoot,	27.5	8	8.2	268	2.9	0.44	NA	840	1500	700	NA	330	42	66	26.98	10.4	

1360	19-08-2024	RIVER RIHAND AT RENUKUT D/S, U.P.	RIVER	RIHAND	SONBHADRA	MONTHLY	Rihand reservoir D/s near Pipari, Renukoot	28	7.8	7.96	292	3.1	0.46	NA	920	1600	790	NA	270	52	72	27.98	10.8
1359	19-08-2024	RIVER RIHAND AT RENUKUT U/S, U.P.	RIVER	RIHAND	SONBHADRA	MONTHLY	Rihand reservoir U/s Pipari, Renukoot, Sonbhadra	28	8.3	8.18	280	2	0.4	NA	230	430	220	NA	79	48	66	23.98	6.8
1359	16-09-2024	RIVER RIHAND AT RENUKUT U/S, U.P.	RIVER	RIHAND	SONBHADRA	MONTHLY	Near Pipari Rihanddham, Pipari, Sonbhadra	28.5	8	8.14	288	2.2	0.44	NA	250	580	140	NA	94	82	70	25.48	7
1360	16-09-2024	RIVER RIHAND AT RENUKUT D/S, U.P.	RIVER	RIHAND	SONBHADRA	MONTHLY	Near rihand dam Bridge, Pipari Sonbhadra	28.5	7.6	7.92	295	3.2	0.5	NA	1100	2000	940	NA	310	90	75	29.48	11.2
30081	07-08-2024	RIVER SONE AT ROAD BRIDGE CHOPAN, DIST-SONEBHADRA (U.P.)	RIVER	SONE	SONBHADRA	QUARTERLY	River Sone at Road Bridge Chopan, Sonbhadra	26.3	8.2	7.12	128	2.7	0.3(BDL)	0.02(BDL)	330000	1E+06	NA	NA	NA	NA	118	NA	14.6
1359	13-10-2024	RIVER RIHAND AT RENUKUT U/S, U.P.	RIVER	RIHAND	SONBHADRA	MONTHLY	Near Rihand dam pipari, Renukoot, Sonbhadra	27	8.3	8.22	264	2	0.48	NA	230	490	228	NA	84	30	68	22.48	6.8
1360	13-10-2024	RIVER RIHAND AT RENUKUT D/S, U.P.	RIVER	RIHAND	SONBHADRA	MONTHLY	Near Pipari Rihand Dam Bridge, pipari Renukoot.	27	7.8	7.98	280	3.1	0.56	NA	940	1700	790	NA	270	35	72	26.48	10.6
1359	18-11-2024	RIVER RIHAND AT RENUKUT U/S, U.P.	RIVER	RIHAND	SONBHADRA	MONTHLY	Near Pipari Rihand Reservoir, Pipari, Renukoot, Sonbhadra	26	8.8	8.28	256	1.8	0.4	NA	210	430	200	NA	79	12	62	20.48	NA
1360	18-11-2024	RIVER RIHAND AT RENUKUT D/S, U.P.	RIVER	RIHAND	SONBHADRA	MONTHLY	Near Pipari Dam, Pipari, Renukoot, Sonbhadra	26	8.2	8.07	272	2.9	0.52	NA	840	1500	700	NA	240	18	68	24.48	9.6
1359	16-12-2024	RIVER RIHAND AT RENUKUT U/S, U.P.	RIVER	RIHAND	SONBHADRA	MONTHLY	Near Pipari Rihand dam, Pipari, Renukoot, Sonbhadra	23.5	9.2	8.32	248	1.7	0.36	NA	170	390	170	NA	63	8	56	18.48	6
1360	16-12-2024	RIVER RIHAND AT RENUKUT D/S, U.P.	RIVER	RIHAND	SONBHADRA	MONTHLY	Near Rihand Reservoir dam, Renukoot, Sonbhadra	23.5	8.6	8.14	264	2.7	0.5	NA	790	1300	630	NA	220	14	62	22.98	9.4
30081	11-12-2024	RIVER SONE AT ROAD BRIDGE CHOPAN, DIST-SONEBHADRA (U.P.)	RIVER	SONE	SONBHADRA	QUARTERLY		18.1	10.2	8.34	260	1(BDL)	0.3(BDL)	0.02(BDL)	1.8(BDL)	21000	NA	NA	NA	12	NA	50	5(BDL)

REGIONAL OFFICE, U.P. POLLUTION CONTROL BOARD, SONBHADRA
Surface Water Quality of Rivers under NWMP Programme Year-2024

STN Code	Sampling Date	Name Of Monitoring Location	Type Water Body	Sub Basin	District	Frequency of Monitoring	Location Details	Total Hardness (mg/L)	Ca as CaCo3 (mg/L)	Mg as CaCo3 (mg/L)	Sulphate (mg/L)	Sodium (mg/L)	Total Dissolved Solids (mg/L)	Total Fixed Solids (mg/L)	Total Suspended Solids (mg/L)	Phosphate (mg/L)	Boron (mg/L)	Potassium (mg/L)	Fluoride (mg/L)
1359	15-01-2024	RIVER RIHAND AT RENUKUT U/S, U.P.	RIVER	RIHAND	SONBHADRA	MONTHLY	Near Pipari Dam, renekoot, Sonbhadra	108	90	18	NA	NA	144	NA	NA	0.28	NA	NA	NA
1360	15-01-2024	RIVER RIHAND AT RENUKUT D/S, U.P.	RIVER	RIHAND	SONBHADRA	MONTHLY	Near Pipari Rihand Dam, Renukoot, Sonbhadra	130	104	26	NA	NA	156	NA	NA	0.38	NA	NA	NA
30081	07-02-2024	RIVER SONE AT ROAD BRIDGE CHOPAN, DIST-SONEBHADRA (U.P.)	RIVER	SONE	SONBHADRA	QUARTERLY		365	325	40	6.51	75.8	NA	NA	NA	NA	0.5(BDL)	2.08	0.2(BDL)
1360	19-02-2024	RIVER RIHAND AT RENUKUT D/S, U.P.	RIVER	RIHAND	SONBHADRA	MONTHLY	Near Pipari Dam Bridge, Renukoot, Sonbhadra	136	108	28	NA	NA	160	NA	NA	0.44	NA	NA	NA
1359	19-02-2024	RIVER RIHAND AT RENUKUT U/S, U.P.	RIVER	RIHAND	SONBHADRA	MONTHLY	Near Pipari Dam, Renukoot, Sonbhadra	114	94	20	NA	NA	148	NA	NA	0.32	NA	NA	NA
1360	19-03-2024	RIVER RIHAND AT RENUKUT D/S, U.P.	RIVER	RIHAND	SONBHADRA	MONTHLY	Near Pipari Dam Bridge, Renukoot, Sonbhadra	144	112	32	NA	NA	172	NA	NA	0.52	NA	NA	NA
1359	19-03-2024	RIVER RIHAND AT RENUKUT U/S, U.P.	RIVER	RIHAND	SONBHADRA	MONTHLY	Near Pipari Rihand Dam, Pipari, Renukoot, Sonbhadra	122	98	24	NA	NA	160	NA	NA	0.38	NA	NA	NA
1360	15-04-2024	RIVER RIHAND AT RENUKUT D/S, U.P.	RIVER	RIHAND	SONBHADRA	MONTHLY	Near Pipari Dam Bridge, Renukoot Sonbhadra	134	106	28	NA	NA	176	NA	NA	0.46	NA	NA	NA
1359	15-04-2024	RIVER RIHAND AT RENUKUT U/S, U.P.	RIVER	RIHAND	SONBHADRA	MONTHLY	Near Pipari Rihand Dam, Renukoot, Sonbhadra	116	94	22	NA	NA	164	NA	NA	0.32	NA	NA	NA
30081	13-06-2024	RIVER SONE AT ROAD BRIDGE CHOPAN, DIST-SONEBHADRA (U.P.)	RIVER	SONE	SONBHADRA	QUARTERLY		104	75	29	9.44	8.56	132	NA	NA	NA	0.5(BDL)	2.62	0.2(BDL)

1360	20-05-2024	RIVER RIHAND AT RENUKUT D/S, U.P.	RIVER	RIHAND	SONBHADRA	MONTHLY	Near pipari Dam Renukoot, Sonbhadra	128	102	26	NA	NA	180	NA	NA	0.5	NA	NA	NA
1359	20-05-2024	RIVER RIHAND AT RENUKUT U/S, U.P.	RIVER	RIHAND	SONBHADRA	MONTHLY	Near Rihand Dam, Pipari, Sonbhadra	108	88	20	NA	NA	168	NA	NA	0.34	NA	NA	NA
1359	17-06-2024	RIVER RIHAND AT RENUKUT U/S, U.P.	RIVER	RIHAND	SONBHADRA	MONTHLY	Near Pipari Rihand Dam, Pipari, Sonbhadra	100	82	18	NA	NA	162	NA	NA	0.28	NA	NA	NA
1360	17-06-2024	RIVER RIHAND AT RENUKUT D/S, U.P.	RIVER	RIHAND	SONBHADRA	MONTHLY	Near Pipari Dam Bridge Pipari, Sonbhadra	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1359	15-07-2024	RIVER RIHAND AT RENUKUT U/S, U.P.	RIVER	RIHAND	SONBHADRA	MONTHLY	Near Pipari Rihand Dam, pipari, Renukoot	90	74	16	NA	NA	158	NA	NA	0.22	NA	NA	NA
1360	15-07-2024	RIVER RIHAND AT RENUKUT D/S, U.P.	RIVER	RIHAND	SONBHADRA	MONTHLY	Near Pipari Dam, Pipari, Renukoot,	108	86	22	NA	NA	166	NA	NA	0.38	NA	NA	NA
1360	19-08-2024	RIVER RIHAND AT RENUKUT D/S, U.P.	RIVER	RIHAND	SONBHADRA	MONTHLY	Rihand reservoir D/s near Pipari, Renukoot	98	80	18	NA	NA	176	108	NA	0.54	NA	NA	NA
1359	19-08-2024	RIVER RIHAND AT RENUKUT U/S, U.P.	RIVER	RIHAND	SONBHADRA	MONTHLY	Rihand reservoir U/s Pipari, Renukoot, Sonbhadra	80	68	12	NA	NA	168	101	NA	0.32	NA	NA	NA
1359	16-09-2024	RIVER RIHAND AT RENUKUT U/S, U.P.	RIVER	RIHAND	SONBHADRA	MONTHLY	Near Pipari Rihanddam, Pipari, Sonbhadra	88	72	16	NA	NA	172	104	NA	0.36	NA	NA	NA
1360	16-09-2024	RIVER RIHAND AT RENUKUT D/S, U.P.	RIVER	RIHAND	SONBHADRA	MONTHLY	Near rihand dam Bridge, Pipari Sonbhadra	106	84	22	NA	NA	180	110	NA	0.58	NA	NA	NA
30081	07-08-2024	RIVER SONE AT ROAD BRIDGE CHOPAN, DIST-SONEBHADRA (U.P.)	RIVER	SONE	SONBHADRA	QUARTERLY	River Sone at Road Bridge Chopan, Sonbhadra	63	55	8	10.4	5(BDL)	81	NA	NA	NA	0.5(BDL)	1.4	0.2(BDL)
1359	13-10-2024	RIVER RIHAND AT RENUKUT U/S, U.P.	RIVER	RIHAND	SONBHADRA	MONTHLY	Near Rihand dam pipari, Renukoot, Sonbhadra	94	74	20	NA	NA	168	96	NA	0.32	NA	NA	NA

1360	13-10-2024	RIVER RIHAND AT RENUKUT D/S, U.P.	RIVER	RIHAND	SONBHADRA	MONTHLY	Near Pipari Rihand Dam Bridge, pipari Renukoot.	112	86	26	NA	NA	168	NA	NA	0.46	NA	NA	NA
1359	18-11-2024	RIVER RIHAND AT RENUKUT U/S, U.P.	RIVER	RIHAND	SONBHADRA	MONTHLY	Near Pipari Rihand Reservoir, Pipari, Renukoot, Sonbhadra	86	68	18	NA	NA	154	NA	NA	0.28	NA	NA	NA
1360	18-11-2024	RIVER RIHAND AT RENUKUT D/S, U.P.	RIVER	RIHAND	SONBHADRA	MONTHLY	Near Pipari Dam, Pipari, Renukoot, Sonbhadra	104	82	22	NA	NA	164	NA	NA	0.36	NA	NA	NA
1359	16-12-2024	RIVER RIHAND AT RENUKUT U/S, U.P.	RIVER	RIHAND	SONBHADRA	MONTHLY	Near Pipari Rihand dam, Pipari, Renukoot, Sonbhadra	78	62	16	NA	NA	148	NA	NA	0.25	NA	NA	NA
1360	16-12-2024	RIVER RIHAND AT RENUKUT D/S, U.P.	RIVER	RIHAND	SONBHADRA	MONTHLY	Near Rihand Reservoir dam, Renukoot, Sonbhadra	96	76	20	NA	NA	157	NA	NA	0.32	NA	NA	NA
30081	11-12-2024	RIVER SONE AT ROAD BRIDGE CHOPAN, DIST-SONEBHADRA (U.P.)	RIVER	SONE	SONBHADRA	QUARTERLY		96	50	46	5(BDL)	10.4	160	NA	12.1	NA	0.5(BDL)	3.14	0.2(BDL)



संदर्भ सं० H 62009/CL/413/SAS&CC/2021

दिनांक 27/05/2021

To
Prof. Mukesh Sharma
Department of Civil Engineering
Indian Institute of Technology-Kanpur

Sub: Comprehensive Source Apportionment/ Emission Inventory and Carrying Capacity for Khurja, Raebareli, Anpara, Gajraula, Jhansi and Firozabad cities in the State of Uttar Pradesh

Sir,

Please refer your proposal dated 10.05.2021 on above subject. The Board is agree to assign the implementation of your proposal as under:

S.No.	Project	Total Cost (in Rs.)	Duration
1	Comprehensive Source Apportionment/ Emission Inventory and Carrying Capacity for Khurja, Raebareli, Anpara, Gajraula, Jhansi and Firozabad cities in the State of Uttar Pradesh	The total cost of the study = Rs. 3,07,98,000 (Three Crore Seven Lakh Ninety-eight Thousand only) including Institute Over Heads (IOH) @25% and Goods & Service tax (18% of F&G)	18 Months, The final report submission, Presentations /discussions etc. will be completed within 18 months from the date of signing of MoU.

Scope of Work: The scope of work as per the following-

- Development of GIS-based gridded (2 km × 2 km resolution) emission inventory for air pollutants PM10, PM2.5, SO2, NO2, and CO.
- Compilation of emission factors for all sources, parking lot surveys through questionnaires for vehicle technology, model, engine capacity.
- Monitoring of air pollutants PM10, PM2.5, SO2, NO2, and VOCs. Analyze collected PM10 and PM2.5 mass for elemental composition, ions, elemental carbon, organic carbon, PAHs (Benzo[a]pyrene, Fluorene, Acenaphthene, Phenanthrene, Anthracene, Fluoranthene,
- Pyrene, Chrysene, Benzo(b)f, Benzo(k)f, Dibenz(a,h)a, Inp, and Bghi)) and molecular markers.
- Reconstruction of PM based on chemical species (of PM) and assessment for primary and secondary sources of air pollutants.
- Application of receptor model to establish source-receptor linkages of PM10, and PM2.5 using state-of-the-art modeling to arrive at source apportionments at sampling sites.
- Identification of various control options (e.g. adoption of EURO IV/VI, diesel filter, industrial controls, etc) and assessment of their efficacies control options for air quality improvements and development of control scenarios (in a techno economical perspective) consisting of combinations of several control options.
- Development of time-bound action plan based on the most effective control options and recommendations for strengthening the capacity of board personnel.
- Carrying Capacity

IIT-Kanpur must ensure the active participation and capacity building of local Institutes of Reputes (IoR) of concerned City in the said study. As per MoU carried out under NCAP to co-


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operate in specific assignment(s); they shall share relevant information and experience in their possession with a view to achieve the mutually beneficial and technical association and to satisfy the need of the accomplishment of objective of MoU; except information which may be subject of copyright or technology agreements, royalties in licenses in which case the parties may procure the use of such information on commercial terms. Besides this, all the parties would also share the journals, publications, papers etc., published or any data, monitoring report etc. so that, capacity building of all parties/organization takes place to accomplish the objective.

We are pleased to inform you that your proposal for the above study has been approved by the Board. Kindly sign the Memorandum of Understanding (MoU). The duration of the study will commence immediately after we received the MoU duly signed by you on Non-Judicial Stamp Paper as required. We would send the first instalment payment (60%) of study after receipt of MoU duly signed by you or other Competent Authority.

Yours Sincerely


(Dr. Neelima Deepak)
Incharge, Central laboratory

Copy to following: for kind information and necessary action

1. Member Secretary, Central Pollution Control Board, Delhi.
2. Director, Indian Institute of Technology-Kanpur
3. Member Secretary, UPPCB, Lucknow
4. Incharge, Accounts, UPPCB, Lucknow


27/05/2021
Incharge, Central laboratory

Annexure no.7

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INDIAN INSTITUTE OF TECHNOLOGY KANPUR
DEPARTMENT OF CIVIL ENGINEERING

Dr. Mukesh Sharma
Emeritus Professor

P.O. IIT Kanpur, 208 016, India

Date: 29.10.2024

To:
CEO Lab,
UPPCB, Lucknow

Subject: Request for project extension: Source Apportionment and Carrying Capacity study for Six cities in UP

Ref: Your letter No. H74804/CL/413/CC/22 dated 26-04-2022.

Sir,

In reference to your above-referred letter on the subject, the following project tasks have been completed:

- (1) Emission inventory of all cities and their air pollution carrying capacity.
- (2) Air quality sampling in all six cities (Jhansi, Firozabad, Khurja, Raebareli, Anpara, and Moradabad) for winter and summer seasons.

The following tasks are currently underway:

- (1) Analysis for chemical composition of PM₁₀ and PM_{2.5} for all samples collected on filter paper.
- (2) Receptor modelling for estimating source's contribution to PM₁₀ and PM_{2.5} in the cities, and
- (3) preparation of air pollution control action plan.

The delays in the project completion are primarily due to limitations and some maintenance issues with analytical instruments, late receipt of funds, and intermittent rains in winter 2022-23 delaying the sampling in a few cities. The progress reports for all cities have been submitted on 21.08.2024. The project has ended on June 30, 2024.

The work is progressing well, but some more time is required to complete the projects. Under these circumstances, it is requested to extend the project duration till February 28, 2025 at no extra cost.

Thanking you

Mukesh Sharma, PhD

CEPI ACTION PLAN REVIEW PORTAL

S.No	Month/Year	Catagries	Action Point	Responsible Agency	Timeline	Financial Requirement	Present Progress	Remarks
1	January/2020	Water Environment	Water Pollution Industrial Source- 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	2019-12-31		100%(Date Exceeded)	It is being complied
2	January/2020	Water Environment	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 & Medium Industries and industries situated.	Individual Industries (Large and Medium) & UPPCB	2019-12-31		100%(Date Exceeded)	It is being complied
3	January/2020	Water Environment	Up gradation of ETP in existing water polluting units is to be done on case to case basis. Under the up gradation 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	Individual Industries (Large and Medium) & UPPCB	2020-12-31		100%(Date Exceeded)	It is being complied

S.No	Month/Year	Catagries	Action Point	Responsible Agency	Timeline	Financial Requirement	Present Progress	Remarks
4	January/2020	Water Environment	Up gradation of ETP- 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 physic 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 dozing and Maintenance and proper running of ETPs have also been given in the District Level Committee held on 28/5/2012.	Individual Industries (Large and Medium) & UPPCB	2020-12-31		100%(Date Exceeded)	It is being complied
5	January/2020	Water Environment	Domestic Waste water (Sewage)- Effective operation & Maintenance of installed STP.	UPPCB and Local Authority.	2020-12-31		100%(Date Exceeded)	It is being complied by all units & have to be comply by Jal Nigam. & Local bodies
6	January/2020	Water Environment	Combined Inspection of STPs by UPPCB and Jal Nigam	UPPCB and Local Authority.	2020-01-01		100%(Date Exceeded)	Regular activity
7	January/2020	Water Environment	Upcoming High Rise Buildings, commercial Project, Educational institution, Multi Plexes, Town ship & Building Projects are major source of sewage generation and Municipal Solid Waste. Such projects must ensure setting up of STPs, recirculation of treated water for flushing/gardening regarding purpose & ensure compliance of the conditions of the Environment Clearance and NOC from PCB.	UPPCB and Local Authority.	2020-12-31		50%(Date Exceeded)	STP yet to be established by ULBs

S.No	Month/Year	Catagries	Action Point	Responsible Agency	Timeline	Financial Requirement	Present Progress	Remarks
8	January/2020	Water Environment	Water Pollution Industrial Source- Adoption of Cleaner Technology if available, in order to reduce quantity of waste water. Promote recycle after treatment for sector like Paper, Tannery.	UPPCB & Individual Industries	2019-12-31		100%(Date Exceeded)	Industries have been directed to comply
9	January/2020	Water Environment	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.	UPPCB & Individual Industries	2020-12-31		100%(Date Exceeded)	Industries have been directed to comply
10	January/2020	Water Environment	Widening and Covering of major open Nalas carrying domestic sewage	UPPCB, ULBs & PWD	2020-12-31		70%(Date Exceeded)	Regular Activity
11	January/2020	Water Environment	Ground Water Pollution- Ground water study may be carried out in all the 6 Industrial Clusters by Out Sourcing Agencies every 06 months.	UPPCB, Industries & Designated Agencies.	2019-12-31		100%(Date Exceeded)	Regular Activity
12	January/2020	Air Environment	UPPCL to ensure that electric connection is not sanctioned in favour of such industries which are not in conforming area	UPPCL, Electricity Board and Udyog Bandhu	2019-03-31		100%(Date Exceeded)	Regular Activity
13	January/2020	Air Environment	Air Pollution Industries- A total of air polluting industries have been identified in the region.	UPPCB & Individual Industries	2019-03-31		100%(Date Exceeded)	Regular Activity
14	January/2020	Air Environment	Regular Monitoring of Pollution Control System in Industries in order to ensure strict compliance of prescribed Norms.	UPPCB	2019-02-28		100%(Date Exceeded)	Regular Activity

S.No	Month/Year	Catagries	Action Point	Responsible Agency	Timeline	Financial Requirement	Present Progress	Remarks
15	January/2020	Air Environment	Regular combined drives are to be carried out by Pollution Control board and District Administration to identify and seal illegally operating industrial activities.	UPPCB and District Administration	2019-02-28		100%(Date Exceeded)	Regular Activity
16	January/2020	Air Environment	Monitoring of DG- 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.	UPPCB	2019-03-31		40%(Date Exceeded)	Regular Activity & UPPCB is identifying DG Sets and taking action Under Air Act.
17	January/2020	Air Environment	Post inventorisation 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.	UPPCB	2019-03-31		40%(Date Exceeded)	Regular Activity UPPCB is identifying DG Sets and taking action Under Air Act.
18	January/2020	Air Environment	Proper Storage & Disposal of Hazardous Waste & Solid Waste	Individual Industry & UPPCB	2019-12-31		100%(Date Exceeded)	Regular Activity & Proper Storage & Disposal of Hazardous Waste is being complied & disposal of Solid waste Under Process
19	January/2020	Air Environment	Regular Inspection and Monitoring of Hospitals / Nursing Homes has to be done	UPPCB	2019-02-28		100%(Date Exceeded)	Regular Activity & All Health Care Facilities are Disposing BMW through CBWTF after Getting Authorization from Board

S.No	Month/Year	Catagries	Action Point	Responsible Agency	Timeline	Financial Requirement	Present Progress	Remarks
20	January/2020	Air Environment	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.	Individual Industry & UPPCB	2020-01-31		100%(Date Exceeded)	It is being complied
21	January/2020	Air Environment	To supply and promote the use of cleaner fuel like CNG, in order to reduce emissions in the industrial	Individual Industry & UPPCB	2020-03-31		100%(Date Exceeded)	It is being complied
22	January/2020	Air Environment	Installation of NAMP Station	UPPCB	2019-12-31		100%(Date Exceeded)	It is complied
23	January/2020	Air Environment	Display of AAQM Data- On line display of AAQM data at two different locations in the area need to be under taken by Industries association and UPPCB	Individual Industry & UPPCB	2019-03-31		100%(Date Exceeded)	It is being complied
24	January/2020	Air Environment	Use of Cleaner Fuel- 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	2020-03-31		50%(Date Exceeded)	Regular Activity
25	January/2020	Air Environment	Development of Green Belt-Development of Green Belt from 20% to 33% of the total area.	Individual Industry & UPPCB	2020-03-31	0	100%(Date Exceeded)	Regular Activity
26	January/2019	Land Environment	Municipal Solid waste disposal- Authority should develop proper MSW facility as per MSW Rules at Proper site.	Project Proponent, ULBs & Industries	2019-07-31	0	80%(Date Exceeded)	Industries have build In-House Solid Waste Management treatment facilities.
27	January/2020	Land Environment	Quantification of MSW	Project Proponent, ULBs & Industries	2019-02-28		100%(Date Exceeded)	Regular Activity

S.No	Month/Year	Catagries	Action Point	Responsible Agency	Timeline	Financial Requirement	Present Progress	Remarks
28	January/2020	Land Environment	Site selection for MSW disposal	Project Proponent, ULBs & Industries	2019-03-31	0	100%(Date Exceeded)	For disposal of Solid waste generated in Industries in house- Municipal Solid Waste facility is build in Industries. In Anpara under ULBs MSW facility is established
29	January/2020	Land Environment	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.	Project Proponent, ULBs & Industries	2019-12-31		50%(Date Exceeded)	Partially Complying
30	January/2019	Other	Noise Monitoring- Board is procuring real time noise monitoring system. This will be installed in Commercial, Residential, Industrial and Sensitive Zones of the Region.	UPPCB	2019-07-31	0	50%(Date Exceeded)	Noise monitoring is being carried our manually

Annexure no.9**कार्यालय जिलाधिकारी, सोनभद्र**

पत्रांक-1031 / एन क्रशर / 2024

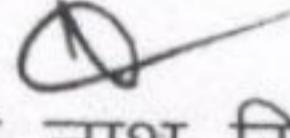
दिनांक- 21/11/2024

आदेश

जनपद-सोनभद्र के तहसील ओबरा के ग्राम-बिल्ली-मारकुण्डी, बारी-डाला क्षेत्र में स्थापित एवं संचालित स्टोन क्रशर उद्योगों से हो रहे वायु प्रदूषण के नियंत्रण हेतु सतत् निगरानी एवं उद्योगों में स्थापित वायु प्रदूषण नियंत्रण व्यवस्थाओं के सत्यापन हेतु स्थलीय जाँच के सम्बन्ध में निम्नानुसार समिति का गठन किया जाता है:-


1. उपजिलाधिकारी, ओबरा, सोनभद्र।
2. उपायुक्त उद्योग, जिला उद्योग प्रोत्साहन तथा उद्यमिता विकास केन्द्र, सोनभद्र।
3. क्षेत्रीय अधिकारी, उ0प्र0 प्रदूषण नियंत्रण बोर्ड, सोनभद्र।

उपरोक्त समिति को निर्देशित किया जाता है कि उद्योगों से प्राप्त प्रत्यावेदनों के अनुक्रम में वायु प्रदूषण नियंत्रण व्यवस्थाओं का सत्यापन कर स्थलीय जाँच आख्या विलम्बतम् एक सप्ताह में प्रस्तुत करें।


(बद्री नाथ सिंह)
जिलाधिकारी,
सोनभद्र।

पत्रांक व तददिनांक:-

प्रतिलिपि:- समस्त सदस्यों को अनुपालनार्थ।


जिलाधिकारी,
सोनभद्र।

Annexure no.10

Status pollution control measures adopted in industries i.e. TPPs, NCL Coal Mines & other industries established in Sonbhadra and implementation status of action plans along with timelines by mines/ TPPs/ stone crushers/ Industries established are given belows:-

1. Progress Status of implementation of action plan along with timeline of thermal Power Plants established in district-Sonbhadra. Details of Thermal Power Plants operational in district Sonbhadra are as follows PPs District Sonbhadra

- i. M/s NTPC Rihand Nagar.
- ii. M/s UPRVUNL, Anpara, TPPs, Sonbhadra
- iii. M/s Lanco Anpara Power Ltd., Anpara, Sonbhadra
- iv. M/s MEIL Anpara Energy limited (formely M/s Lanco Anpara Power Limited, Anpara, Sonbhadra)
- v. M/s Hindalco Industries Ltd. (Power Division), Renusagar, Sonbhadra.
- vi. M/s UPRVUNL, Obra, TPPs, Sonbhadra

I. Thermal Power plants:-

S. No.	Name of TPPs	Completed woks	Under progress/ Reaming works	Timeline/ Remarks
01	<u>M/s NTPC SSTPS, Shaktinagar, Sonbhadra</u>	<ul style="list-style-type: none"> ➤ Fly ash utilization 103.82% As on Nov, 2024 ➤ S1 & S2 Ash Dykes are in running condition ➤ AWRS installed DAES available ➤ CEMS & CAAQMS installed and complied ➤ Sprinkling system at the Ash Dyke installed ➤ Ash dyke stability report submitted, Bio-methanation plant available, PM and NO_X Regularly monitored and complied 	<ul style="list-style-type: none"> ➤ FGD installation work in all 7 units. ➤ Expansion of AWRS capacity ➤ DAES#1 and U#7 is in commissioning 	<ul style="list-style-type: none"> ➤ March-2026 ➤ March-2026 ➤ March-2025

S. No.	Name of TPPs	Completed woks	Under progress/ Reaming works	Timeline/ Remarks
0 2	<u>M/s NTPC Rihandnagar, SSTP, Rihandnagar, Sonbhadra</u>	<ul style="list-style-type: none"> ➤ Fly ash utilization 82.85% As on Nov, 2024, Ash dyke stability report submitted ➤ DAES available & Operational in Stage - II & Stage III ➤ CEMS & CAAQMS installed and complied ➤ PM and NO_X Regularly monitored and complied ➤ Sprinkling system at the Ash Dyke installed, Dry fog dust suppression system in Stage - III. ➤ 3 Bio-methanation plant available ➤ Cold Fog Dust Suppression system (CFDS) in Stage – I is Commissioned in April, 2024, (in Stage – II is in Nov, 2024 	<ul style="list-style-type: none"> ➤ FGD installation work in all units ➤ DAES in Stage I ➤ Cold Fog Dust Suppression system (CFDS) in Stage – I is Commissioned in April, 2024 ➤ (CFDS) in Stage – II is Commissioned in Nov, 2024 	<ul style="list-style-type: none"> ➤ FGD expected to be commissioned by 31.12.2026 ➤ DAES Stage-I- Commissioned by 31.12.2025 ➤ Commissioned ➤ Commissioned

S. No.	Name of TPPs	Completed woks	Under progress/ Reaming works	Timeline/ Remarks
03	<u>.Rajya Vidyut Utpadan Nigam Ltd. (Anpara A, B & D TPS), Anpara, Sonbhadra</u>	<ul style="list-style-type: none"> ➤ Fly ash utilization 17.49. % As on Nov, 2024 ➤ AWRS installed ➤ DAES available ➤ CEMS & 03 CAAQMS installed and complied ➤ Sprinkling system at the Ash Dyke installed ➤ Ash dyke stability report submitted ➤ NO_x regularly monitoredand complied in all units. ➤ MSW Facility installed and operational 	<ul style="list-style-type: none"> ➤ Retendering for ESPs installation at ATPS ➤ Renovation work under progress at BTPS ➤ FGD installation at A, B & D TPS. 	➤ December-26
04	<u>M/s MEIL Anpara Energy limited (formely M/s Lanco Anpara Power Limited, Anpara, Sonbhadra</u>	<ul style="list-style-type: none"> ➤ Fly ash utilization 48.82 % As on Nov, 2024 ➤ AWRS installed ➤ DAES available ➤ CEMS & CAAQMS installed and complied ➤ PM and NO_X Regularly monitored and complied ➤ Sprinkling system at the Ash Dyke installed ➤ Dust extraction and dust suppression system provided. 	➤ FGD installation the contract has been awarded.	➤ December-2025

S. No.	Name of TPPs	Completed woks	Under progress/ Reaming works	Timeline/ Remarks
05	<u>M/s Hindalco Industries Limited, Renusagar Power Division, Renusagar</u>	<ul style="list-style-type: none"> ➤ Fly ash utilization 106.31 % As on Nov, 2024 ➤ Bichhari ash dyke operational so no legacy ash present ➤ Ash dyke stability report submitted ➤ AWRS installed and operational ➤ ZLD achieved ➤ DAES available ➤ CEMS & 03 CAAQMS installed and complied ➤ Sprinkling system at the Ash Dyke installed ➤ PM & NOX regularly monitored and complied 	<ul style="list-style-type: none"> ➤ FGD installation work in progress in Boiler 5 	<ul style="list-style-type: none"> ➤ Completed by June-2025 FGD Erection work is in Progress.
06	<u>M/s U.P. Rajya Vidyut Utpadan Nigam Ltd. (Obra A, B - TPS), Obra, Sonbhadra</u>	<ul style="list-style-type: none"> ➤ Fly ash utilization 31.82 % As on Nov, 2024 ➤ Ash dyke stability report submitted ➤ ZLD achieved ➤ Ash dyke stability report submitted ➤ DAES available, CEMS & CAAQMS installed and complied ➤ PM and NO_x Regularly monitored and complied ➤ Sprinkling system at the Ash Dyke installed ➤ All old deposited ash has been removed and Desilted ash has been disposed in Low Lying area in Orba Sector 2 & 3 and stabilized with soil with Miyawaki Plantation. 	<ul style="list-style-type: none"> ➤ FGD installation ➤ Feasibility Report for installation of DFAES for transportation of Fly Ash through Railway has been submitted by M/s RITES, after thorough examination of the report, tender will be published. 	<ul style="list-style-type: none"> ➤ May 2025 ➤ DFAES through railway will be installed by 2026

2. Progress Status of implementation of action plan along with timeline of NCL Coal mines established in district-Sonbhadra. Details of NCL coal mines operational in district Sonbhadra are as follows:-

- i. M/s northern Coal Fields Limited, Bina Project, Bina , Sonbhadra
- ii. M/s Northern Coal Fields Limited, Dudhichua Project, Dudhichua, Sonbhadra
- iii. M/s Northern Coal Fields Limited, Kakri Project, Kakri, Sonbhadra
- iv. M/s Northern Coal Fields Limited, Khadia Project, Khadia, Sonbhadra
- v. M/s Northern Coal Fields Limited, Krishnashila Project, Bina, Sonbhadra

II. Northern Coalfield Limited Coal Mines:-

S. No.	Name of Coal mines	Completed woks	Under progress/ Reaming works	Timeline/ Remarks
01	<u>M/s Northern Coal Fields Limited, Bina Project, Bina , Sonbhadra</u>	<ul style="list-style-type: none"> ➤ 05 fog cannons. 02 nos. of truck mounted mist spray ➤ Installation of Automatic wheel washing system. ➤ Fire hydrant pipeline provided ➤ High capacity pressurised water tankers, 20 nos. water sprinklers ➤ 1 no road sweeping machine ➤ 2 nos. truck mounted mist spray gun ➤ ZLD achieved ➤ 1 no CAAQMS installed ➤ Transportation of coal through Railway Wagon and tarpaulin covered trucks ➤ Rain Water Harvesting at 4 places. ➤ Plantation activity along 1.2 km Auri-Shaktinagar highway ➤ 1 additional CAAQMS 	<ul style="list-style-type: none"> ➤ Construction of new CHP of 9.5 MTPA ➤ ETP & STP under upgradation by filter press, MGF, ACF etc. ➤ Carrying Capacity of Mine & traffic study (EC cond.) 	<ul style="list-style-type: none"> ➤ June-2025 (91% of work has been completed.) ➤ Dec, 2024 (99% of work has been completed) ➤ Dec, 2024- (work is under progress)
2	M/s Northern Coal Fields Limited, Dudhichua Project, Dudhichua, Sonbhadra	<ul style="list-style-type: none"> ➤ Maximum Coal transportation through MGR rest through Rail and covered trucks ➤ Closed Belt Conveyor System ➤ 02 Fixed type mist fog cannon ➤ 02 Truck Mounted Mist Spray System ➤ 02 no road sweeping machine ➤ 04 no rain water harvesting ➤ 01 CAAQMS installed ➤ Rain Water Harvesting at 4 places. 	<ul style="list-style-type: none"> ➤ Construction of new CHP of 10 MTPA ➤ 02 RCC Bunds are under construction to prevent the entry of silt and discharge to Balia nala from mines. ➤ Construction of 	<ul style="list-style-type: none"> ➤ Completed ➤ Completed

S. No.	Name of Coal mines	Completed woks	Under progress/ Reaming works	Timeline/ Remarks
		<ul style="list-style-type: none"> ➤ 02 Nos. truck mounted mist spray system are deployed. 	<ul style="list-style-type: none"> siltation ponds at 03 locations are under progress ➤ Tyre washing system/mechanism of Coal transporting vehicles on Road 	<ul style="list-style-type: none"> ➤ Completed ➤ 31.12.2024, Till now 99 % work completed
03	<u>M/s Northern Coal Fields Limited, Kakri Project, Kakri, Sonbhadra</u>	<ul style="list-style-type: none"> ➤ Maximum Coal transportation through MGR rest through Rail and covered trucks ➤ High capacity pressurised water tankers 02 water tankers for sprinkling 04 nos. of truck mounted individual. ➤ 01 truck mounted mist spray guns ➤ 02 rain water harvesting system ➤ 01 CAAQMS installed ➤ Fire hydrant system installed ➤ ZLD achieved, ETP upgradation ➤ Plantation along road sides 	<ul style="list-style-type: none"> ➤ Tyre Washing System/Mechanism of coal transporting vehicles on road. ➤ Construction of Wharf wall/Railway siding. 	<ul style="list-style-type: none"> ➤ February, 2025- under construction (025% work has been completed) ➤ Platform work completed. Rail connectivity to wharf wall is to be done by East central railway.
04	<u>M/s Northern Coal Fields Limited, Khadia Project, Khadia, Sonbhadra</u>	<ul style="list-style-type: none"> ➤ Maximum Coal transportation through MGR rest through Rail and covered trucks ➤ All approach road are metalled ➤ 01 Fixed fog cannon ➤ 02 Road sweeping machines ➤ Plantation on overburden dumps ➤ 01 CAAQMS installed ➤ 07 Rain water harvesting system ➤ ZLD achieved ➤ Fire hydrant system installed 	<ul style="list-style-type: none"> ➤ ETP under up-Gradation. ➤ Tyre washing system/mechanism for Coal transporting vehicles on Road. ➤ Construction of Wharf wall/Railway Siding 	<ul style="list-style-type: none"> ➤ July, 2024 ➤ December, 2024, Tendering Process is under progress. ➤ Platform and wall advancement to rail line is to be completed by August-2024. Rail Connectivity to wharf-wall is to be done by East Central Railway

S. No.	Name of Coal mines	Completed woks	Under progress/ Reaming works	Timeline/ Remarks
5	<u>M/s Northern Coal Fields Limited, Krishnashila Project, Bina, Sonbhadra</u>	<ul style="list-style-type: none"> ➤ Maximum Coal transportation through belt pipe conveyer rest through Rail and covered trucks ➤ All CC roads completed ➤ CC road of 6.7 km for coal transportation ➤ 12 water sprinklers installed ➤ 01 Fixed fog cannon ➤ 02 Road sweeping machines ➤ 01 CAAQMS installed ➤ ZLD Achieved ➤ Rain water harvesting system at 07 places ➤ Fire hydrant provided ➤ Wheel washing facility for Bina & Krishnashilla at Bina Entry Gate 	<ul style="list-style-type: none"> ➤ Sedimentation ponds ➤ Green belt 	<ul style="list-style-type: none"> ➤ There is no make of mine water. The run-off water is collected in the sumps of capacity 460000 CuM and 55000 CuM, with additional intermediate sump of Capacity 360000 CuM. ➤ Afforestation and Green Belt developed as per EMP & Mine Closure Plan. Total 5.63 Lacs trees have been planted on 198 Ha. Land.

3. Progress Status of implementation of action plan along with timeline of Metal& Chemical Industries established in district-Sonbhadra. Details of NCL coal mines operational in district Sonbhadra are as follows:-

- i. M/s Grasim Industries Limited Chemical Division, Renukoot, Sonbhadra
- ii. M/s Birla Carbon India Pvt. Ltd., Renukoot, Sonbhadra
- iii. M/s HINDALCO Industries Ltd(Aluminum Smelter),Renukoot, Sonbhadra

III. Other Industries:

S. No.	Name of industries	Completed	Under progress Reaming works	Timeline/ Remarks
1	M/s Grasim Industries Limited Chemical Division, Renukoot, Sonbhadra	<ul style="list-style-type: none"> ➤ ZLD Achieved ➤ APCS with online monitoring system ➤ Brine sludge is completely disposed through TSDF Kanpur Dehat. ➤ Ash disposal site reclaimed completely alongwith miyawaki 	Miyawaki Plantation outside plant premises will be done	➤ Completed inside premises. Presently grassim has developed Approx. 63% Green Belt, inside

S. No.	Name of industries	Completed	Under progress Reaming works	Timeline/ Remarks
		plantation ➤ 63% of land area developed as green belt. ➤ Captive SLF for disposal of mercury sludge is fully capped. ➤ Process changed to membrane technology ➤ Water sprinklers installed for dust suppression. ➤ Miyawaaki Plantation has been done inside the premises		the premises.
2	M/s Birla Carbon India Pvt. Ltd., Renukoot, Sonbhadra	➤ ZLD Achieved ➤ APCS with online monitoring system installed. ➤ PTZ camera installed for continuous monitoring of ZLD. ➤ Green belt developed. ➤ Water sprinklers installed for dust suppression. ➤ Miyawaki Plantation has been done inside the premises.	➤ Miyawaki Plantation outside plant premises will be done.	➤ Completed,
3	Aluminum Smelter: M/s HINDALCO Industries Ltd, Renukoot, Sonbhadra	➤ ZLD Achieved ➤ 4.87 Lakh MT Bottom ash utilized for developing low lying area ➤ MSW processing facility operational ➤ APCS installed for process plant and fugitive emission. ➤ Water sprinklers installed for dust suppression. ➤ OCEMS installed on all stacks ➤ Red Mud is properly disposed.	➤ Procurement of equipment for segregation of collected waste ➤ Red mud mixing with fly ash and disposal in abandoned mines proposed ➤ Feasibility study awarded to IIFM Bhopal.	