



हिंदुस्तान उर्वरक एवं रसायन लिमिटेड HINDUSTAN URVARAK & RASAYAN LTD.

(A Joint Venture of NTPC, CIL, IOCL, FCIL & HFCL)
P.O.-Barauni Urvarak Nagar, Begusarai-851115 (Bihar)

Date: 24.09.2026

To,

Mr. Suresh P Roy,
Regional Officer,
Bihar State Pollution Control Board,
Barauni Industrial area,
Begusarai.

Ref: MoEF&CC, Environmental Clearance Letter No. J-11011/371/2016-IAII (I) dated 29.08.2017.

Sub: Environmental Statement for the financial year ending 31st March 2026.

We are submitting herewith the environmental statement for the financial year ending 31st March 2026 in respect of Ammonia & Urea production plant.

This is for your kind information.

Thanking you.

For & on behalf of
HURL, Barauni.

Srinu Pitta

Manager (Environment & Quality Control)

श्रीनु पिट्टा
हिंदुस्तान उर्वरक एवं रसायन लिमिटेड
(सीआईएल, आईओसीएल, एनटीपीसी, एफसीआईएल & एचएफसीएल का एक संयुक्त उद्यम)
बरोनी (बिहार) 851115

Encl: Environmental Statement for the financial year ending 31st March 2026.

ENVIRONMENTAL STATEMENT FOR THE PERIOD 01.04.2025 TO 31.03.2026

(Submitted as per Rule-14 of the Environment (Protection) Amendment Rules, 1993 of the Environment (Protection) Act, 1986 (29 of 1986) published vide Notification dated 22.04.1993-G.S.R. 386(E) in the Gazette of India (Extraordinary) Part-II Section-3 Subsection (i). No.155 dated 28.04.1993 by the Ministry of Environment and Forests, Government of India: read with the Notification dated 13.02.1993 G.S.R. 329 (E) of the Gazette of India (Extraordinary) Part-II Section-3 Subsection (i) No. 120 dated 13-03-1993)

"FORM - V" (See Rule 14)

PART-A

GENERAL INFORMATION

1. Company Name : Hindustan Urvarak & Rasayan Limited
2. Occupier's Name : Shri. Nitin Saxena
3. Registered Office of the Company: Hindustan Urvarak & Rasayan Limited
with address Core-2, 2nd Floor, SCOPE Minar Laxmi Nagar
District Centre, New Delhi, Delhi 110092
Tel.: 011-22502267
4. Factory Address : Hindustan Urvarak & Rasayan Limited
Barauni, Urvarak Nagar, Begusarai-851115
5. Production capacity : Ammonia- 2200 MTPD
Urea-3850 MTPD
6. Establishment Year : Hindustan Urvarak & Rasayan Limited (HURL) was
incorporated on 15th June, 2016 as joint venture
company by CIL, NTPC, IOCL as the lead promoters
with HFCL & FCIL as two other partners.
7. Date of Last Environmental Statement submitted : 8th Environmental statement.



PART - B

Water and Raw Materials Consumption

(1) Water consumption m³/day:

Category	During the previous* financial year (2024-25)	During the current financial year (2025-26)
Process (m ³ /Day)	12089	14728
Cooling (m ³ /Day)	13396	11167
Domestic (m ³ /Day)	1227	1250

Water consumption per MT of Product Output:

Name of Product	During the previous * financial year (2024-25) (m ³ /MT)	During the current financial year (2025-26) (m ³ /MT)
Urea	5.16	4.49

(2) Raw Material Consumption -

* Nature of consumption	Process Raw Material Consumption per unit of product output		
	Quality of product	During the previous* financial year (2024-25)	During the current financial year (2025-26)
Natural Gas	Natural Gas	643 Sm ³ /MT	608 Sm ³ /MT

* Industry may use codes if disclosing details of raw materials would violate contractual obligations, otherwise all industries have to name the raw materials used.

PART - C

Pollution discharged to environment/unit of output.

(Parameter as specified in the consent issued)

Pollutants	Quantity of pollutants discharged (mass/day)	Concentration of pollutants in discharges (mass/volume)	Percentage of variation from prescribed standards with reasons
(a) Water	Nil	NA	NA
(b) Air	Ambient Air Quality Monitoring data near site is attached as Annexure-1.	Ambient Air Quality Monitoring data near site is attached as Annexure-1.	Within prescribed standards (24/8/1 hourly Avg.)

STACK EMISSION TEST:

The emission data is attached as Annexure-1.

PART - D

HAZARDOUS WASTES

(As specified under Hazardous Wastes/Management and Handling Rules 1989)

Hazardous Wastes	Total Quantity (kg)	
	During the previous* financial year (2024-25)	During the current financial year (2025-26)
(a) From process	Nil	Nil
(b) From pollution control facilities	Nil	Nil

PART - E

SOLID WASTE

	Total Quantity	
	During the previous financial year (2024-25)	During the current financial year (2025-26)
a) From process	~150 MT (Chemical sludge from waste water treatment) ~ 25 MT ZLD salt	~140 MT (Chemical sludge from waste water treatment) ~ 22 MT ZLD salt
b) From pollution control facilities	NA	NA
c) Quantity recycled or reutilized within the Unit.	NA	NA
d) Sold	NA	NA
e) Disposed	NA	NA

PART - F

Please specify the characterizations (in terms of composition and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

HURL has adopted waste management plan conforming to different National and local regulations. An Agreement was made with M/s MSTC, Various Wastes mentioned in the Authorization no. HW/B-1934 Patna-10 dated 20.07.2022 shall be sold/disposed as the need arises.

PART - G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production.

HURL is monitoring parameters such as groundwater, surface water and ambient air quality within the plant premises and also outside premise as per EC norms.

PART - H

Additional measures / investment proposed for environmental protection including abatement of pollution, prevention of pollution.

Some of the measures adopted in the design stage itself of the project are mentioned below:

- Plant is based on zero liquid discharge concept i.e.; effluent water is being treated and reused.



- Continuous monitoring of particulate matter, NO_x & SO_x from all stacks; particulate matter and NH₃ from prilling tower is being done to control emission as per norms.
- Installed gas detectors at different locations to check fugitive emissions.

PART - I

Any other particulars in respect of environment protection and abatement of pollution.

Plant is based on natural gas as a raw material with state-of-the-art technology to minimize impact on surrounding environment. As per environment management plan (EMP) all required pollution control measures are adopted as integral part of the plant in design stage itself.

World Environment Day, World Water Day and World Forest Day was celebrated at HURL Barauni by planting various plants in plant and Township.

Plantation drive is going on to promote #Ek Ped Maa Ke Naam#Plant4Mother campaign initiated by Hon'ble Prime Minister and plantation drive conducted on the occasion of International Day of Clean air for Blue skies.

Nitin

Nitin Saxena

Name & signature of the Occupier

Seal

NITIN SAXENA
BUH, BARAUNI

Hindustan Urvarak & Rasayan Ltd.
Urvarak Nagar, Barauni, Begusarai (Bihar)-851115

24/07/2026

[Signature]

[Signature]

For:
**Hindustan Urvarak and
Rasayan Limited (HURL).**



Prepared By:
GO GREEN MECHANISMS PVT. LTD.




श्री. पी. डी. सिंहा
प्रबंधक, केन्द्रीय प्रयोगशाला, ई & क्यूसी विभाग
हिंदुस्तान उर्वरक & रसायन लिमिटेड
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बरोनी (बिहार) 851115

Reports on Environmental Statement for New Ammonia and Urea Project at Hurl Barauni
HURL Barauni Unit-2, HURL Barauni Project, Urvarak Nagar Barauni-851 115, District-Begusarai, Bihar
Study Period: October-2025 to March 2026



Hindustan Urvarak and Rasayan Limited (HURL)

HURL Barauni Unit-2, HURL Barauni Project, Urvarak Nagar Barauni-851 115,
District-Begusarai, Bihar

Reports on Environmental Monitoring for New Ammonia and Urea Project at Hurl Barauni



Disclaimer: This report has been produced by Go Green Mechanisms Pvt. Ltd with skill and care ordinarily exercised by us as Environmental Monitoring and Testing Laboratory at the time the services were performed. Further, and in particular, the Environmental Data Generation Services were performed by GGMPL taking into account the limits of the scope of works of the Hindustan Urvarak & Rasayan Limited (HURL), the time scale involved and the resources, including financial and manpower resources, agreed between GGMPL and Hindustan Urvarak & Rasayan Limited (HURL).

Other than that expressly contained in the paragraph above, GGMPL provides no other representation or warranty whether express or implied, in relation to the services.

This report is produced exclusively for the purpose of the Environmental Statement Report of M/s. Hindustan Urvarak & Rasayan Limited (HURL)

Unless expressly provided in writing, GGMPL does not authorize, consent or condone any party other than Hindustan Urvarak & Rasayan Limited (HURL) & regulatory bodies to rely upon the services provided. Any reliance on the services or any part of the services by any party other than Hindustan Urvarak & Rasayan Limited (HURL) and the regulatory bodies is made wholly at that party's own and sole risk and GGMPL disclaims any liability to such parties.

Table of Content

SR NO	LIST OF CONTENTS	Page No.
Annexure-1		
1.1 : Table- 1	Location of Air Quality Monitoring Stations	3
1.2 : Table- 2	Location of Noise Monitoring Stations	8
1.3 : Table- 3	Location of Ground water Monitoring Stations	10
1.4 : Table- 4	Location of Surface water Monitoring Stations	12
1.5 : Table- 5	Location of Flue Gas Monitoring Stations	15


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For. GO GREEN MECHANISMS PVT. LTD.


 Authorized Signatory

Annexure-1

Environmental Statement for CTO Compliance for the period October 2025 - March 2026 for Ammonia -Urea (2200 MTPD & 3850 MTPD) plant of HURL at Barauni

This Compliance Report is the fulfilments of the condition of the Environmental Clearance (EC) vide File No.EC [IA/BR/IND2/61377/2016, J-11011/371/2016-IA II (I)] for the period of October 2025 - March 2026 This report has been prepared by Go Green Mechanisms Pvt Ltd by collecting respective samples in consultation with the State Pollution Control Board (SPCB) officials and Hindustan Urvarak and Rasayan Limited (HURL) officials During the above mentioned period the analysis of the environmental parameters has been conducted by the MOEF&CC recognized Laboratory at Go Green Mechanisms Pvt Ltd, Ahmedabad.

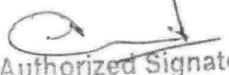
The proposed project is located at Barauni and was commissioned on 18 November 2022 with the capacity of 2200MTPD Ammonia and 3850MTPD Urea in the District Begusarai in the state of Bihar. The commercial production has started from 19 November 2022 with the board name APNA UREA. The area falls in the agricultural belt of the Bihar.

The compliance report fulfils the 19 Nos of Specific Conditions and 17 Nos. of General Conditions led by Ministry of Environment, Forests and Climate Change Rainwater Harvesting and Ground Water charging has been proposed as per Standard Guidelines:

- Guidelines on Artificial Recharge of Water, Central Water Ground Board, Ministry of Water Resources, Gol (2000)
- Manual on Artificial Recharge of Ground Water, Central Water Ground Board, Ministry of Water Resources, Gol (2007)
- Rain Water Harvesting and Conservation Manual Consultancy Services Organization, CPWD, Gol (2002)

The Environmental Monitoring report of 6 months w.r.t Air. Water and Noise have been presented separately with the average values. The environmental conditions and the compliance have been found normal as per the Standards. The Air Quality results have been presented through a self-explanatory table with the NAAQ Standards w.r.t the parameter PM10, PM2.5, NOx. SOX, C6H6, CO Benzo(a) pyrene (BAP), NH3, Ozone, Nickel, Arsenic and Lead. Three sets each of Ground Water Samples and Surface Water Samples have been collected, analyzed in a self-explanatory table, and compared with Drinking Water Standards (IS:10500:2012) The analysis consists of eight nos. of physical parameters, thirteen no's of chemical parameters, nine no's of Heavy metals and three no's of miscellaneous parameters. Noise Quality has also been measured at six different locations in the periphery of the project area. The results have been presented through self-explanatory table consisting of the Standard NAAQS w.r.t noise



 For. GO GREEN MECHANISMS PVT. LTD.
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 अध्यक्ष, के.पी. प्रयोगशाला, ई & क्यूसी विभाग
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ENVIRONMENTAL STATEMENT

The below report with respect to Air, Water and Noise represents the average values of different sampling stations collected at different time during the study period of October 2025 - March 2026.

TABLE -1

Location of Air Quality Monitoring Stations

Sr. No.	Location of Station	Frequency
1.	HURL Admin Building(SA1)	Twice a Week
2.	HURL Township(SA2)	Twice a Week
3.	Chakiya Village (SA3)	Twice a Week
4.	Bihat Village (SA4)	Twice a Week
5.	Simiriya Village (SA5)	Twice a Week
6.	Chackbali Village(SA6)	Twice a Week


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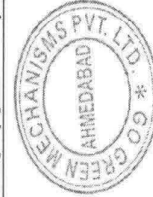
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ENVIRONMENTAL STATEMENT

HURL Barauni, Air Quality data – (October 2024 - March 2025)									
Month	Parameters	NAAQS Standards	HURL Admin Building (SA1)	HURL Township (SA2)	Chakiya Village (SA3)	Bihat Village (SA4)	Simariya Village (SA5)	Chackbali Village (SA6)	
Oct-25	PM ₁₀	100 µg/m ³	72.26	71.29	63.89	67.42	63.05	66.00	
	PM _{2.5}	60 µg/m ³	36.45	35.98	32.23	33.38	31.92	32.44	
	SO ₂	80 µg/m ³	17.77	16.33	14.20	15.25	14.38	15.65	
	NO ₂	80 µg/m ³	27.30	26.84	23.53	24.13	21.60	22.50	
	Ozone	180 µg/m ³	16.42	15.89	15.13	12.50	12.70	14.28	
	Ammonia	400 µg/m ³	17.04	18.48	13.64	16.51	13.80	14.89	
	Carbon Monoxide	4 mg/m ³	0.59	0.60	0.56	0.56	0.54	0.52	
	Benzene	5 µg/m ³	BQL (QL=2.5)	BQL (QL=2.5)	BQL (QL=2.5)	BQL (QL=2.5)	BQL (QL=2.5)	BQL (QL=2.5)	
	Benzo(a) pyrene	1 ng/m ³	BQL (QL=0.5)	BQL (QL=0.5)	BQL (QL=0.5)	BQL (QL=0.5)	BQL (QL=0.5)	BQL (QL=0.5)	
	Nickel	20 ng/m ³	BQL (QL=5)	BQL (QL=5)	BQL (QL=5)	BQL (QL=5)	BQL (QL=5)	BQL (QL=5)	
	Arsenic	6 ng/m ³	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)	
	Lead	1 µg/m ³	BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)	
	PM ₁₀	100 µg/m ³	74.16	73.93	70.54	73.12	72.81	72.00	
	PM _{2.5}	60 µg/m ³	37.33	36.65	33.90	35.98	35.83	35.61	
Nov-25	SO ₂	80 µg/m ³	18.00	18.08	16.99	18.43	17.42	17.78	
	NO ₂	80 µg/m ³	29.63	29.79	27.44	29.31	27.56	27.28	
	Ozone	180 µg/m ³	17.25	17.09	17.13	17.89	15.62	16.33	
	Ammonia	400 µg/m ³	18.96	18.26	17.20	17.91	18.00	17.34	
	Carbon Monoxide	4 mg/m ³	0.70	0.71	0.69	0.70	0.68	0.67	
	Benzene	5 µg/m ³	BQL (QL=2.5)	BQL (QL=2.5)	BQL (QL=2.5)	BQL (QL=2.5)	BQL (QL=2.5)	BQL (QL=2.5)	
	Benzo(a) pyrene	1 ng/m ³	BQL (QL=0.5)	BQL (QL=0.5)	BQL (QL=0.5)	BQL (QL=0.5)	BQL (QL=0.5)	BQL (QL=0.5)	
	Nickel	20 ng/m ³	BQL (QL=5)	BQL (QL=5)	BQL (QL=5)	BQL (QL=5)	BQL (QL=5)	BQL (QL=5)	
	Arsenic	6 ng/m ³	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)	
	Lead	1 µg/m ³	BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)	
	PM ₁₀	100 µg/m ³	74.16	73.93	70.54	73.12	72.81	72.00	
	PM _{2.5}	60 µg/m ³	37.33	36.65	33.90	35.98	35.83	35.61	
	SO ₂	80 µg/m ³	18.00	18.08	16.99	18.43	17.42	17.78	
	NO ₂	80 µg/m ³	29.63	29.79	27.44	29.31	27.56	27.28	

For: GO GREEN MECHANISMS PVT. LTD.



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सिंदूरस्तान उर्वरक & रसायन लिमिटेड
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बरोनी (बिहार) 851115

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ENVIRONMENTAL STATEMENT

Month	Parameters	NAAQS Standards		HURL Admin Building(SA1)	HURL Township (SA2)	Chakiya Village (SA3)	Bihat Village (SA4)	Simariya Village (SA5)	Chackbali Village(SA6)
		µg/m ³	mg/m ³						
Feb-26	PM ₁₀	100		75.20	77.78	73.35	75.65	75.28	72.72
	PM _{2.5}	60		36.92	37.44	36.03	36.03	37.70	34.89
	SO ₂	80		16.12	16.22	16.91	17.63	17.54	16.05
	NO ₂	80		26.07	28.53	27.58	26.00	28.10	28.51
	Ozone	180		14.67	16.30	15.78	14.85	16.02	15.25
	Ammonia	400		16.04	17.27	16.56	16.40	18.34	16.44
	Carbon Monoxide	4		0.63	0.73	0.67	0.63	0.66	0.61
	Benzene	5		BQL (QL=2.5)	BQL (QL=2.5)	BQL (QL=2.5)	BQL (QL=2.5)	BQL (QL=2.5)	BQL (QL=2.5)
	Benzo(a) pyrene	1		BQL (QL=0.5)	BQL (QL=0.5)	BQL (QL=0.5)	BQL (QL=0.5)	BQL (QL=0.5)	BQL (QL=0.5)
	Nickel	20		BQL (QL=5)	BQL (QL=5)	BQL (QL=5)	BQL (QL=5)	BQL (QL=5)	BQL (QL=5)
Mar-26	Arsenic	6		BQL (QL=1)	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)
	Lead	1		BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)
	PM ₁₀	100		75.22	78.87	76.49	76.31	74.42	74.36
	PM _{2.5}	60		36.93	38.70	37.95	38.32	36.66	36.52
	SO ₂	80		16.80	17.01	17.13	17.10	17.26	17.32
	NO ₂	80		26.96	28.11	28.08	27.43	27.63	26.72
	Ozone	180		15.07	15.93	15.14	15.47	15.15	15.47
	Ammonia	400		15.42	16.65	15.87	15.70	15.24	16.81
	Carbon Monoxide	4		0.65	0.70	0.67	0.65	0.67	0.69
	Benzene	5		BQL (QL=2.5)	BQL (QL=2.5)	BQL (QL=2.5)	BQL (QL=2.5)	BQL (QL=2.5)	BQL (QL=2.5)
	Benzo(a) pyrene	1		BQL (QL=0.5)	BQL (QL=0.5)	BQL (QL=0.5)	BQL (QL=0.5)	BQL (QL=0.5)	BQL (QL=0.5)
	Nickel	20		BQL (QL=5)	BQL (QL=5)	BQL (QL=5)	BQL (QL=5)	BQL (QL=5)	BQL (QL=5)
	Arsenic	6		BQL (QL=1)	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)
	Lead	1		BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)



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For, GO GREEN MECHANISMS PVT. LTD.

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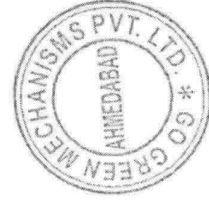
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विहड़स्तान ज्वेलर्स, इ. & टी. LTD.
(विहड़स्तान, अहमदाबाद) 3851115
बरांची विहार 3851115

PREPARED BY: GO GREEN MECHANISMS PVT. LTD.

ENVIRONMENTAL STATEMENT

Month	Parameters	NAAQS Standards		HURL Admin Building(SA1)	HURL Township (SA2)	Chakiya Village (SA3)	Bihat Village (SA4)	Simariya Village (SA5)	Chackballi Village(SA6)
Average (October 2025 - March 2026)	PM ₁₀	µg/m ³	100	73.92	76.09	70.02	73.52	72.92	71.50
	PM _{2.5}	µg/m ³	60	36.72	37.24	34.64	36.10	36.24	34.84
	SO ₂	µg/m ³	80	17.07	17.51	16.17	17.25	16.76	16.79
	NO ₂	µg/m ³	80	27.45	29.15	26.49	27.05	26.84	26.77
	Ozone	µg/m ³	180	15.58	16.35	15.45	15.12	14.89	15.34
	Ammonia	µg/m ³	400	17.03	18.53	16.28	17.03	16.84	16.70
	Carbon Monoxide	mg/m ³	4	0.64	0.69	0.65	0.65	0.66	0.64
	Benzene	µg/m ³	5	BQL (QL=2.5)	BQL (QL=2.5)	BQL (QL=2.5)	BQL (QL=2.5)	BQL (QL=2.5)	BQL (QL=2.5)
	Benzo(a) pyrene	ng/m ³	1	BQL (QL=0.5)	BQL (QL=0.5)	BQL (QL=0.5)	BQL (QL=0.5)	BQL (QL=0.5)	BQL (QL=0.5)
	Nickel	ng/m ³	20	BQL (QL=5)	BQL (QL=5)	BQL (QL=5)	BQL (QL=5)	BQL (QL=5)	BQL (QL=5)
	Arsenic	ng/m ³	6	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)
	Lead	µg/m ³	1	BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)

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(मिआसपुर, अहमदाबाद, गुजरात) एवं राष्ट्रीय बाजार मण्डल
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TABLE -2**Location of Noise Monitoring Stations**

Sr. No.	Source	Frequency
1.	HURL Admin Building (SN1)	Once in a Month
2.	HURL Township (SN2)	Once in a Month
3.	Chakiya Village (SN3)	Once in a Month
4.	Bihat Village (SN4)	Once in a Month
5.	Simiriya Village (SN5)	Once in a Month
6.	Chackbali Village (SN6)	Once in a Month



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HURL Barauni, Noise data – (October 2024 - March 2025)									
Month	Parameters	Prescribed Limit in dB(A) as per NAAQS Industrial area	HURL Admin Building	HURL Township	Chakiya Village	Bihat Village	Simiriya Village	Chackballi Village	
Oct-24	24 hrs. Avg Leq Value dB(A)	-	64	63	58	60	58	58	
	Day time dB (A) Leq	75	65	65	60	62	59	60	
	Night time dB (A) Leq	70	53	52	53	50	48	52	
Nov-24	24 hrs. Avg Leq Value dB(A)	-	62	62	61	59	56	60	
	Day time dB (A) Leq	75	64	63	63	60	58	61	
	Night time dB (A) Leq	70	52	51	51	53	47	54	
Dec-24	24 hrs. Avg Leq Value dB(A)	-	61	60	56	60	58	56	
	Day time dB (A) Leq	75	63	61	58	62	59	59	
	Night time dB (A) Leq	70	53	50	51	52	48	52	
Jan-25	24 hrs. Avg Leq Value dB(A)	-	60	61	56	59	55	57	
	Day time dB (A) Leq	75	61	63	57	60	56	58	
	Night time dB (A) Leq	70	53	55	51	52	49	50	
Feb-25	24 hrs. Avg Leq Value dB(A)	-	61	59	58	60	56	55	
	Day time dB (A) Leq	75	63	60	59	61	57	56	
	Night time dB (A) Leq	70	54	53	53	51	50	52	
Mar-25	24 hrs. Avg Leq Value dB(A)	-	60	58	58	59	55	54	
	Day time dB (A) Leq	75	62	59	60	61	57	55	
	Night time dB (A) Leq	70	53	52	51	50	49	52	
Average	24 hrs. Avg Leq Value dB(A)	-	61	61	58	60	56	57	
	Day time dB (A) Leq	75	63	62	60	61	58	58	
	Night time dB (A) Leq	70	53	52	52	51	49	52	



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Page | 9

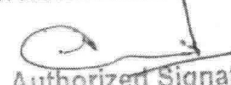
TABLE -3**Location of Ground water Monitoring Stations**

Sr. No.	Source	Parameters	Frequency
1.	HURL Plant Nr. Main gate (Bore-well)	As per (IS:10500)	Once in a Month
2.	HURL Township (Guest House) (Bore-Well)	As per (IS:10500)	Once in a Month
3.	Chakiya Village (Hand Pump)	As per (IS:10500)	Once in a Month


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ENVIRONMENTAL STATEMENT

Sr No.	Parameters	Unit	Township (Guest House)	Chakiya Village	Nr. Main gate	AL	PL
1	Alkalinity as CaCO ₃	mg/L	338.17	360.67	325.50	200	600
2	Calcium	mg/L	97.06	108.01	91.05	75	200
3	Chloride	mg/L	86.39	66.15	50.65	250	1000
4	Color	CU	BQL (QL=2.5)	BQL (QL=2.5)	BQL (QL=2.5)	5	15
5	Fluoride	mg/L	0.71	0.67	0.71	1	1.5
6	Mg	mg/L	50.50	45.47	51.27	30	100
7	Odour	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
8	Oil & Grease	mg/L	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)	NS	NS
9	pH	-	7.52	7.63	7.55	6.5-8.5	No relaxation
10	Silica	mg/L	30.53	30.03	19.54	NS	NS
11	Sulphate	mg/L	42.72	44.63	34.22	200	400
12	Taste	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
13	Temperature	oC	25.40	25.78	25.48	NS	NS
14	TDS	mg/L	628.00	629.50	541.43	500	2000
15	TSS	mg/L	BQL (QL=5)	BQL (QL=5)	BQL (QL=5)	NS	NS
16	Total Hardness	mg/L	460.50	457.33	438.33	200	600
17	Turbidity	NTU	0.87	0.61	0.64	1	5
18	P. Alkalinity	mg/L	BQL (QL=2)	BQL (QL=2)	BQL (QL=2)	NS	NS
19	Arsenic as As	mg/L	0.01	0.01	0.01	0.01	0.05
20	Cadmium as Cd	mg/L	BQL (QL=0.002)	BQL (QL=0.002)	BQL (QL=0.002)	0.003	No relaxation
21	Total Chromium as Cr	mg/L	BQL (QL=0.02)	BQL (QL=0.02)	BQL (QL=0.02)	0.05	No relaxation
22	Copper as Cu	mg/L	BQL (QL=0.02)	BQL (QL=0.02)	BQL (QL=0.02)	0.05	1.5
23	Iron as Fe	mg/L	0.06	0.06	0.06	0.3	No relaxation
24	Lead as Pb	mg/L	BQL (QL=0.005)	BQL (QL=0.005)	BQL (QL=0.005)	0.01	No relaxation
25	Manganese As Mn	mg/L	BQL (QL=0.05)	BQL (QL=0.05)	0.13	0.1	0.3
26	Nickel as Ni	mg/L	BQL (QL=0.01)	BQL (QL=0.01)	BQL (QL=0.01)	0.02	No relaxation
27	Zinc as Zn	mg/L	BQL (QL=0.02)	BQL (QL=0.02)	BQL (QL=0.02)	5	15
28	Potassium as K	mg/L	2.78	2.95	2.06	NS	NS
29	Sodium As Na	mg/L	36.47	32.88	12.90	NS	NS
30	Nitrate	mg/L	2.30	1.06	0.92	45	No relaxation
31	Total Coliform	MPN per 100ml	BQL(QL=2)	BQL(QL=2)	BQL(QL=2)	Absent	Absent

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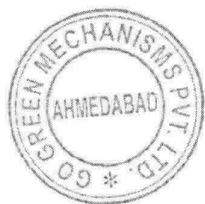
Page | 11

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TABLE -4**Location of Surface water Monitoring Stations**

Sr. No.	Source	Parameters	Frequency
1.	Ganga River	As per (IS:10500)	Once in a Month
2.	Bihat Pokhar	As per (IS:10500)	Once in a Month
3.	Baya Nallah	As per (IS:10500)	Once in a Month



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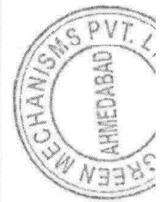
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Sr No.	Parameters	Unit	Ganga River	Bihat Pokhar	AL	PL
1	Alkalinity as CaCO ₃	mg/L	139.00	227.67	200	600
2	BOD at 27°C for 3 days	mg/L	5.28	7.12	75	200
3	Calcium as Ca	mg/L	44.69	73.28	250	1000
4	Chemical Oxygen Demand (COD)	mg/L	22.00	32.00	5	15
5	Chloride	mg/L	70.14	147.96	1	1.5
6	Colour	CU	BQL (QL=2.5)	BQL (QL=2.5)	30	100
7	Fluoride	mg/L	0.64	0.83	Agreeable	Agreeable
8	Magnesium as Mg	mg/L	29.32	30.49	NS	NS
9	Oil & Grease	mg/L	BQL (QL=1)	BQL (QL=1)	6.5-8.5	No relaxation
10	pH	-	7.47	7.63	NS	NS
11	Sulphate	mg/L	39.81	23.72	200	400
12	Temperature	oC	25.63	25.83	Agreeable	Agreeable
13	TDS	mg/L	353.17	563.17	NS	NS
14	TSS	mg/L	22.53	20.00	500	2000
15	Total Hardness	mg/L	231.67	308.33	NS	NS
16	Turbidity	NTU	24.43	2.48	200	600
17	Dissolved Oxygen	mg/L	5.55	5.18	1	5
18	Arsenic as As	mg/L	BQL (QL=0.005)	BQL (QL=0.005)	NS	NS
19	Cadmium as Cd	mg/L	BQL (QL=0.002)	BQL (QL=0.002)	0.01	0.05
20	Chromium as Cr	mg/L	BQL (QL=0.02)	BQL (QL=0.02)	0.003	No relaxation
21	Copper as Cu	mg/L	BQL (QL=0.02)	BQL (QL=0.02)	0.05	No relaxation
22	Iron as Fe	mg/L	BQL (QL=0.05)	0.06	0.05	1.5
23	Lead as Pb	mg/L	BQL (QL=0.005)	BQL (QL=0.005)	0.3	No relaxation
24	Manganese As Mn	mg/L	BQL (QL=0.05)	BQL (QL=0.05)	0.01	No relaxation
25	Nickel as Ni	mg/L	BQL (QL=0.01)	BQL (QL=0.01)	0.1	0.3
26	Zinc As Zn	mg/L	BQL (QL=0.02)	BQL (QL=0.02)	0.02	No relaxation
27	Potassium As K	mg/L	4.70	8.50	5	15
28	Sodium As Na	mg/L	20.72	68.05	NS	NS
29	Nitrate	mg/L	3.78	4.69	NS	NS
30	Total Coliform	MPN per 100ml	81.67	61.67	45	No relaxation


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Sr No.	Parameters	Unit	Baya Nallah	Norms
1	Alkalinity as CaCO ₃	mg/L	225.33	-
2	BOD at 27°C for 3 days	mg/L	7.30	30
3	Calcium as Ca	mg/L	53.71	-
4	Chemical Oxygen Demand (COD)	mg/L	32.00	250
5	Chloride	mg/L	51.48	-
6	Colour	CU	BQL (QL=2.5)	-
7	Fluoride	mg/L	0.65	2
8	Magnesium as Mg	mg/L	36.37	-
9	Oil & Grease	mg/L	BQL (QL=1)	10
10	pH	-	7.58	5.5 to 9.0
11	Sulphate	mg/L	38.17	-
12	Temperature	oC	25.75	-
13	TDS	mg/L	396.83	-
14	TSS	mg/L	16.83	100
15	Total Hardness	mg/L	284.67	-
16	Turbidity	NTU	2.71	-
17	Dissolved Oxygen	mg/L	4.75	-
18	Arsenic as As	mg/L	BQL (QL=0.005)	0.2
19	Cadmium as Cd	mg/L	BQL (QL=0.002)	2
20	Chromium as Cr	mg/L	BQL (QL=0.02)	2
21	Copper as Cu	mg/L	BQL (QL=0.02)	3
22	Iron as Fe	mg/L	BQL (QL=0.05)	3
23	Lead as Pb	mg/L	BQL (QL=0.005)	0.1
24	Manganese As Mn	mg/L	BQL (QL=0.05)	2
25	Nickel as Ni	mg/L	BQL (QL=0.01)	3
26	Zinc As Zn	mg/L	BQL (QL=0.02)	5
27	Potassium As K	mg/L	4.58	-
28	Sodium As Na	mg/L	24.30	-
29	Nitrate	mg/L	1.30	50
30	Total Coliform	MPN per 100ml	75.00	-

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TABLE -5**Location of Flue Gas Monitoring Stations**

Sr. No.	Source	Parameters	Frequency
1.	HRSG -01	PM, SOx, NOx & CO	Twice in a Month
2.	HRSG -02	PM, SOx, NOx & CO	Twice in a Month
3.	Primary Reformer	PM, SOx, NOx & CO	Twice in a Month
4.	UREA Prill Tower	PM, NH3	Twice in a Month

Month	Parameter	HRSG -01	HRSG -02	Primary Reformer	UREA Prill Tower
Oct-24	PM (mg/Nm ³)	6.42	4.81	4.60	41.82
	Sox (ppm)	7.88	7.85	6.55	-
	NOx (ppm)	87.41	87.41	60.15	-
	CO (mg/Nm ³)	23.49	28.07	33.80	-
	NH3 (mg/Nm ³)	-	-	-	62.60
Nov-24	PM (mg/Nm ³)	7.35	6.41	5.21	41.28
	Sox (ppm)	11.78	7.88	6.55	-
	NOx (ppm)	77.06	76.12	62.97	-
	CO (mg/Nm ³)	26.92	30.36	32.70	-
	NH3 (mg/Nm ³)	-	-	-	66.03
Dec-24	PM (mg/Nm ³)	7.15	7.31	6.12	43.42
	Sox (ppm)	9.16	9.16	9.16	-
	NOx (ppm)	72.36	78.01	65.78	-
	CO (mg/Nm ³)	27.50	30.93	36.66	-
	NH3 (mg/Nm ³)	-	-	-	70.86
Jan-25	PM (mg/Nm ³)	7.64	6.92	5.98	41.95
	Sox (ppm)	5.24	9.19	6.54	-
	NOx (ppm)	58.27	62.97	58.27	-
	CO (mg/Nm ³)	24.63	31.51	32.06	-
	NH3 (mg/Nm ³)	-	-	-	73.84
Feb-25	PM (mg/Nm ³)	4.07	4.38	4.78	43.15
	Sox (ppm)	7.87	7.85	6.54	-
	NOx (ppm)	56.39	114.66	50.75	-
	CO (mg/Nm ³)	22.91	28.07	32.65	-
	NH3 (mg/Nm ³)	-	-	-	70.97
Mar-25	PM (mg/Nm ³)	5.19	3.92	5.38	46.44
	Sox (ppm)	6.55	6.55	6.55	-
	NOx (ppm)	51.69	60.15	48.87	-
	CO (mg/Nm ³)	19.48	27.49	30.36	-
	NH3 (mg/Nm ³)	-	-	-	70.36
Average	PM (mg/Nm ³)	6.30	5.62	5.34	43.01
	Sox (ppm)	8.08	8.08	6.98	-
	NOx (ppm)	67.20	79.89	57.80	-
	CO (mg/Nm ³)	24.15	29.40	33.04	-
	NH3 (mg/Nm ³)	-	-	-	69.11



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 बरौनी (बिहार) 851115

For:
**Hindustan Urvarak and
Rasayan Limited (HURL).**



Prepared By:
GO GREEN MECHANISMS PVT. LTD.



Reports on Environmental Statement for New Ammonia and Urea Project at Hurl Barauni
HURL Barauni Unit-2, HURL Barauni Project, Urvarak Nagar Barauni-851 115, District-Begusarai, Bihar
Study Period: April 2025 to September 2025



Hindustan Urvarak and Rasayan Limited (HURL)

HURL Barauni Unit-2, HURL Barauni Project, Urvarak Nagar Barauni-851 115,
District-Begusarai, Bihar

Reports on Environmental Monitoring for New Ammonia and Urea Project at Hurl Barauni



ENVIRONMENTAL STATEMENT

Disclaimer: This report has been produced by Go Green Mechanisms Pvt. Ltd with skill and care ordinarily exercised by us as Environmental Monitoring and Testing Laboratory at the time the services were performed. Further, and in particular, the Environmental Data Generation Services were performed by GGMPL taking into account the limits of the scope of works of the Hindustan Urvarak & Rasayan Limited (HURL), the time scale involved and the resources, including financial and manpower resources, agreed between GGMPL and Hindustan Urvarak & Rasayan Limited (HURL).

Other than that expressly contained in the paragraph above, GGMPL provides no other representation or warranty whether express or implied, in relation to the services.

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Table of Content

SR NO	LIST OF CONTENTS	Page No.
Annexure-1		
1.1: Table- 1	Location of Air Quality Monitoring Stations	3
1.2: Table- 2	Location of Noise Monitoring Stations	8
1.3: Table- 3	Location of Ground water Monitoring Stations	10
1.4: Table- 4	Location of Surface water Monitoring Stations	12
1.5: Table- 5	Location of Flue Gas Monitoring Stations	15



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ENVIRONMENTAL STATEMENT

Annexure-1

Environmental Statement for CTO Compliance for the period April 2025 - September 2025 for Ammonia-Urea (2200 MTPD & 3850 MTPD) plant of HURL at Barauni

This Compliance Report is the fulfilments of the condition of the Environmental Clearance (EC) vide File No.EC [IA/BR/IND2/61377/2016, J-11011/371/2016-IA II (I)] for the period of October 2024 - March 2025 This report has been prepared by Go Green Mechanisms Pvt Ltd by collecting respective samples in consultation with the State Pollution Control Board (SPCB) officials and Hindustan Urvarak and Rasayan Limited (HURL) officials During the above mentioned period the analysis of the environmental parameters has been conducted by the MOEF&CC recognized Laboratory at Go Green Mechanisms Pvt Ltd, Ahmedabad.

The proposed project is located at Barauni and was commissioned on 18 November 2022 with the capacity of 2200MTPD Ammonia and 3850MTPD Urea in the District Begusarai in the state of Bihar. The commercial production has started from 19 November 2022 with the board name APNA UREA. The area falls in the agricultural belt of the Bihar.

The compliance report fulfils the 19 Nos of Specific Conditions and 17 Nos. of General Conditions led by Ministry of Environment, Forests and Climate Change Rainwater Harvesting and Ground Water charging has been proposed as per Standard Guidelines:

- Guidelines on Artificial Recharge of Water, Central Water Ground Board, Ministry of Water Resources, Gol (2000)
- Manual on Artificial Recharge of Ground Water, Central Water Ground Board, Ministry of Water Resources, Gol (2007)
- Rain Water Harvesting and Conservation Manual Consultancy Services Organization, CPWD, Gol (2002)

The Environmental Monitoring report of 6 months w.r.t Air. Water and Noise have been presented separately with the average values. The environmental conditions and the compliance have been found normal as per the Standards. The Air Quality results have been presented through a self-explanatory table with the NAAQ Standards w.r.t the parameter PM10, PM2.5, NOx, SOx, C6H6, CO Benzo(a) pyrene (BAP), NH3, Ozone, Nickel, Arsenic and Lead. Three sets each of Ground Water Samples and Surface Water Samples have been collected, analyzed in a self-explanatory table, and compared with Drinking Water Standards (IS:10500:2012) The analysis consists of eight nos. of physical parameters, thirteen no's of chemical parameters, nine no's of Heavy metals and three no's of miscellaneous parameters. Noise Quality has also been measured at six different locations in the periphery of the project area. The results have been presented through self-explanatory table consisting of the Standard NAAQS w.r.t noise.



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ENVIRONMENTAL STATEMENT

The below report with respect to Air, Water and Noise represents the average values of different sampling stations collected at different time during the study period of April 2025 - September 2025.

TABLE -1
Location of Air Quality Monitoring Stations

Sr. No.	Location of Station	Frequency
1.	HURL Admin Building (SA1)	Twice a Week
2.	HURL Township (SA2)	Twice a Week
3.	Chakiya Village (SA3)	Twice a Week
4.	Bihat Village (SA4)	Twice a Week
5.	Simiriya Village (SA5)	Twice a Week
6.	Chackbali Village (SA6)	Twice a Week



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ENVIRONMENTAL STATEMENT

HURL Barauni, Air Quality data – (April 2025 - September 2025)										
Month	Parameters	NAAQS	HURL Admin Building (SA1)	HURL Township (SA2)	Chakiya Village (SA3)	Bihat Village (SA4)	Simariya Village (SA5)	Chackballi Village (SA6)		
		Standards								
April-25	PM ₁₀	µg/m ³	100	72.00	79.17	73.94	74.22	79.70	79.35	
	PM _{2.5}	µg/m ³	60	40.25	46.34	40.00	42.07	44.99	44.47	
	SO ₂	µg/m ³	80	17.69	20.50	17.41	17.36	19.70	19.23	
	NO ₂	µg/m ³	80	27.43	29.33	26.72	26.61	29.61	28.65	
	Ozone	µg/m ³	180	17.96	20.14	18.33	17.95	19.32	18.67	
	Ammonia	µg/m ³	400	15.76	18.42	15.93	15.78	17.59	16.92	
	Carbon Monoxide	mg/m ³	4	0.60	0.67	0.65	0.65	0.68	0.64	
	Benzene	µg/m ³	5	BQL (QL=2.5)	BQL (QL=2.5)	BQL (QL=2.5)	BQL (QL=2.5)	BQL (QL=2.5)	BQL (QL=2.5)	
	Benzo(a) pyrene	ng/m ³	1	BQL (QL=0.5)	BQL (QL=0.5)	BQL (QL=0.5)	BQL (QL=0.5)	BQL (QL=0.5)	BQL (QL=0.5)	
	Nickel	ng/m ³	20	BQL (QL=5)	BQL (QL=5)	BQL (QL=5)	BQL (QL=5)	BQL (QL=5)	BQL (QL=5)	
	Arsenic	ng/m ³	6	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)	
	Lead	µg/m ³	1	BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)	
May-25	PM ₁₀	µg/m ³	100	73.58	79.34	75.63	75.25	76.91	80.19	
	PM _{2.5}	µg/m ³	60	41.1	45.21	41.05	42.07	42.81	44.11	
	SO ₂	µg/m ³	80	18.26	20.99	18.42	19.13	19.13	19.53	
	NO ₂	µg/m ³	80	27.79	29.64	27.44	27.52	28.35	29.33	
	Ozone	µg/m ³	180	17.04	19.98	18.32	18.26	17.67	18.46	
	Ammonia	µg/m ³	400	15.34	17.97	15.77	16.06	16.65	15.77	
	Carbon Monoxide	mg/m ³	4	0.64	0.71	0.68	0.68	0.69	0.69	
	Benzene	µg/m ³	5	BQL (QL=2.5)	BQL (QL=2.5)	BQL (QL=2.5)	BQL (QL=2.5)	BQL (QL=2.5)	BQL (QL=2.5)	
	Benzo(a) pyrene	ng/m ³	1	BQL (QL=0.5)	BQL (QL=0.5)	BQL (QL=0.5)	BQL (QL=0.5)	BQL (QL=0.5)	BQL (QL=0.5)	
	Nickel	ng/m ³	20	BQL (QL=5)	BQL (QL=5)	BQL (QL=5)	BQL (QL=5)	BQL (QL=5)	BQL (QL=5)	
	Arsenic	ng/m ³	6	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)	
	Lead	µg/m ³	1	BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)	

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Page | 4

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ENVIRONMENTAL STATEMENT

Month	Parameters	NAAQS Standards		HURL Admin Building (SA1)	HURL Township (SA2)	Chakiya Village (SA3)	Bihat Village (SA4)	Simariya Village (SA5)	Chackbali Village (SA6)
June-25	PM ₁₀	µg/m ³	100	71.95	72.58	75.82	71.95	73.53	75.09
	PM _{2.5}	µg/m ³	60	38.3	40.72	39.40	37.67	40.04	40.51
	SO ₂	µg/m ³	80	19.98	22.01	21.35	17.88	19.45	20.21
	NO ₂	µg/m ³	80	28.41	27.19	26.44	25.24	27.72	26.50
	Ozone	µg/m ³	180	19.86	20.82	17.91	19.71	16.85	18.51
	Ammonia	µg/m ³	400	15.84	18.42	17.62	18.59	16.08	14.11
	Carbon Monoxide	mg/m ³	4	0.66	0.68	0.67	0.66	0.67	0.66
	Benzene	µg/m ³	5	BQL (QL=2.5)	BQL (QL=2.5)	BQL (QL=2.5)	BQL (QL=2.5)	BQL (QL=2.5)	BQL (QL=2.5)
	Benzo(a) pyrene	ng/m ³	1	BQL (QL=0.5)	BQL (QL=0.5)	BQL (QL=0.5)	BQL (QL=0.5)	BQL (QL=0.5)	BQL (QL=0.5)
	Nickel	ng/m ³	20	BQL (QL=5)	BQL (QL=5)	BQL (QL=5)	BQL (QL=5)	BQL (QL=5)	BQL (QL=5)
	Arsenic	ng/m ³	6	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)
	Lead	µg/m ³	1	BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)
	PM ₁₀	µg/m ³	100	63.41	62.54	60.29	62.95	63.07	62.17
	PM _{2.5}	µg/m ³	60	29.94	29.57	29.20	29.02	30.78	30.59
July-25	SO ₂	µg/m ³	80	13.78	15.67	15.41	14.75	17.20	16.43
	NO ₂	µg/m ³	80	22.53	20.72	21.48	21.47	21.15	21.19
	Ozone	µg/m ³	180	14.84	15.04	14.93	14.26	15.44	13.96
	Ammonia	µg/m ³	400	12.27	12.72	13.03	13.92	14.07	13.33
	Carbon Monoxide	mg/m ³	4	0.55	0.53	0.56	0.57	0.54	0.55
	Benzene	µg/m ³	5	BQL (QL=2.5)	BQL (QL=2.5)	BQL (QL=2.5)	BQL (QL=2.5)	BQL (QL=2.5)	BQL (QL=2.5)
	Benzo(a) pyrene	ng/m ³	1	BQL (QL=0.5)	BQL (QL=0.5)	BQL (QL=0.5)	BQL (QL=0.5)	BQL (QL=0.5)	BQL (QL=0.5)
	Nickel	ng/m ³	20	BQL (QL=5)	BQL (QL=5)	BQL (QL=5)	BQL (QL=5)	BQL (QL=5)	BQL (QL=5)
	Arsenic	ng/m ³	6	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)
	Lead	µg/m ³	1	BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)
	PM ₁₀	µg/m ³	100	63.41	62.54	60.29	62.95	63.07	62.17
	PM _{2.5}	µg/m ³	60	29.94	29.57	29.20	29.02	30.78	30.59
	SO ₂	µg/m ³	80	13.78	15.67	15.41	14.75	17.20	16.43
	NO ₂	µg/m ³	80	22.53	20.72	21.48	21.47	21.15	21.19



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ENVIRONMENTAL STATEMENT

Month	Parameters	NAAQS		HURL Admin Building (SA1)	HURL Township (SA2)	Chakiya Village (SA3)	Bihat Village (SA4)	Simariya Village (SA5)	Chackballi Village (SA6)
		Standards							
August-25	PM ₁₀	µg/m ³	100	62.95	64.03	62.30	60.94	61.03	61.01
	PM _{2.5}	µg/m ³	60	30.82	30.61	29.41	29.63	29.94	28.74
	SO ₂	µg/m ³	80	15.70	15.63	15.02	15.40	14.35	15.07
	NO ₂	µg/m ³	80	23.33	22.87	22.20	21.58	22.51	21.63
	Ozone	µg/m ³	180	14.26	15.60	14.88	13.96	14.47	14.74
	Ammonia	µg/m ³	400	14.13	14.15	14.28	13.06	14.13	15.32
	Carbon Monoxide	mg/m ³	4	0.51	0.58	0.52	0.51	0.54	0.54
	Benzene	µg/m ³	5	BQL (QL=2.5)	BQL (QL=2.5)	BQL (QL=2.5)	BQL (QL=2.5)	BQL (QL=2.5)	BQL (QL=2.5)
	Benzo(a) pyrene	ng/m ³	1	BQL (QL=0.5)	BQL (QL=0.5)	BQL (QL=0.5)	BQL (QL=0.5)	BQL (QL=0.5)	BQL (QL=0.5)
	Nickel	ng/m ³	20	BQL (QL=5)	BQL (QL=5)	BQL (QL=5)	BQL (QL=5)	BQL (QL=5)	BQL (QL=5)
	Arsenic	ng/m ³	6	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)
	Lead	µg/m ³	1	BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)
	PM ₁₀	µg/m ³	100	65.88	69.42	67.55	65.11	62.76	64.28
	PM _{2.5}	µg/m ³	60	33.17	33.58	34.00	32.54	31.82	30.57
September-25	SO ₂	µg/m ³	80	13.76	16.39	16.08	16.82	13.45	14.74
	NO ₂	µg/m ³	80	23.88	25.46	25.01	24.81	23.74	23.15
	Ozone	µg/m ³	180	13.44	15.85	17.02	14.47	14.65	14.77
	Ammonia	µg/m ³	400	16.54	17.08	18.50	16.19	13.17	17.09
	Carbon Monoxide	mg/m ³	4	0.54	0.60	0.54	0.54	0.53	0.53
	Benzene	µg/m ³	5	BQL (QL=2.5)	BQL (QL=2.5)	BQL (QL=2.5)	BQL (QL=2.5)	BQL (QL=2.5)	BQL (QL=2.5)
	Benzo(a) pyrene	ng/m ³	1	BQL (QL=0.5)	BQL (QL=0.5)	BQL (QL=0.5)	BQL (QL=0.5)	BQL (QL=0.5)	BQL (QL=0.5)
	Nickel	ng/m ³	20	BQL (QL=5)	BQL (QL=5)	BQL (QL=5)	BQL (QL=5)	BQL (QL=5)	BQL (QL=5)
	Arsenic	ng/m ³	6	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)
	Lead	µg/m ³	1	BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)
	PM ₁₀	µg/m ³	100	65.88	69.42	67.55	65.11	62.76	64.28
	PM _{2.5}	µg/m ³	60	33.17	33.58	34.00	32.54	31.82	30.57
	SO ₂	µg/m ³	80	13.76	16.39	16.08	16.82	13.45	14.74
	NO ₂	µg/m ³	80	23.88	25.46	25.01	24.81	23.74	23.15

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ENVIRONMENTAL STATEMENT

Month	Parameters	NAAQS		HURL Admin Building (SA1)	HURL Township (SA2)	Chakiya Village (SA3)	Bihat Village (SA4)	Simariya Village (SA5)	Chackbali Village (SA6)
		Standards							
Average (April 25 - September 25)	PM ₁₀	µg/m ³	100	68.29	71.18	69.25	68.40	69.50	70.35
	PM _{2.5}	µg/m ³	60	35.59	37.67	35.51	35.50	36.73	36.50
	SO ₂	µg/m ³	80	16.53	18.53	17.28	16.89	17.21	17.54
	NO ₂	µg/m ³	80	25.56	25.87	24.88	24.54	25.51	25.08
	Ozone	µg/m ³	180	16.23	17.91	16.90	16.43	16.40	16.52
	Ammonia	µg/m ³	400	14.98	16.46	15.85	15.60	15.28	15.42
	Carbon Monoxide	mg/m ³	4	0.58	0.63	0.60	0.60	0.61	0.60
	Benzene	µg/m ³	5	BQL (QL=2.5)	BQL (QL=2.5)	BQL (QL=2.5)	BQL (QL=2.5)	BQL (QL=2.5)	BQL (QL=2.5)
	Benzo(a) pyrene	ng/m ³	1	BQL (QL=0.5)	BQL (QL=0.5)	BQL (QL=0.5)	BQL (QL=0.5)	BQL (QL=0.5)	BQL (QL=0.5)
	Nickel	ng/m ³	20	BQL (QL=5)	BQL (QL=5)	BQL (QL=5)	BQL (QL=5)	BQL (QL=5)	BQL (QL=5)
	Arsenic	ng/m ³	6	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)
	Lead	µg/m ³	1	BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)	BQL (QL=0.001)



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TABLE -2**Location of Noise Monitoring Stations**

Sr. No.	Source	Frequency
1.	HURL Admin Building (SN1)	Once in a Month
2.	HURL Township (SN2)	Once in a Month
3.	Chakiya Village (SN3)	Once in a Month
4.	Bihat Village (SN4)	Once in a Month
5.	Simiriya Village (SN5)	Once in a Month
6.	Chackbali Village (SN6)	Once in a Month



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ENVIRONMENTAL STATEMENT

HURL Barauni, Noise data – (April 2025 - September 2025)									
Month	Parameters	Prescribed Limit in dB(A) as per NAAQS Industrial area	HURL Admin Building	HURL Township	Chakiya Village	Bihat Village	Simiriya Village	Chackbali Village	
April-25	24 hrs. Avg Leq Value dB(A)	-	64.6	66.9	64.2	66.0	61.8	62.1	
	Day time dB (A) Leq	75	66.1	68.6	65.8	67.7	63.4	63.7	
	Night time dB (A) Leq	70	56.3	55.6	53.7	52.0	49.6	51.8	
May-25	24 hrs. Avg Leq Value dB(A)	-	65.2	66.4	64.5	66.5	62.3	62.2	
	Day time dB (A) Leq	75	66.7	68.0	66.1	68.2	64.0	63.8	
	Night time dB (A) Leq	70	56.6	55.1	54.8	52.5	49.6	51.8	
June-25	24 hrs. Avg Leq Value dB(A)	-	66.0	65.3	64.0	64.1	61.9	61.7	
	Day time dB (A) Leq	75	67.6	66.8	65.6	65.7	63.5	63.2	
	Night time dB (A) Leq	70	56.1	56.3	55.3	53.8	51.7	52.7	
July-25	24 hrs. Avg Leq Value dB(A)	-	65.7	64.2	61.7	63.3	62.4	62.2	
	Day time dB (A) Leq	75	67.3	65.7	63.2	64.9	64.0	63.7	
	Night time dB (A) Leq	70	55.9	56.1	53.5	53.9	52.9	54.5	
August-25	24 hrs. Avg Leq Value dB(A)	-	67.0	63.0	63.0	62.0	61.0	61.0	
	Day time dB (A) Leq	75	68.0	65.0	60.0	63.0	63.0	62.0	
	Night time dB (A) Leq	70	57.0	52.0	54.0	55.0	52.0	53.0	
September-25	24 hrs. Avg Leq Value dB(A)	-	65.0	64.0	58.0	60.0	59.0	60.0	
	Day time dB (A) Leq	75	67.3	65.7	59.0	61.0	60.0	61.0	
	Night time dB (A) Leq	70	55.9	53.0	55.0	55.0	52.9	53.0	
Average	24 hrs. Avg Leq Value dB(A)	-	65.6	65.0	62.6	63.7	61.4	61.5	
	Day time dB (A) Leq	75	67.2	66.6	63.3	65.1	63.0	62.9	
	Night time dB (A) Leq	70	56.3	54.7	54.4	53.7	51.5	52.8	

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Page | 9

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TABLE -3**Location of Ground water Monitoring Stations**

Sr. No.	Source	Parameters	Frequency
1.	HURL Plant Nr. Main gate (Bore-well)	As per (IS:10500)	Once in a Month
2.	HURL Township (Guest House) (Bore-Well)	As per (IS:10500)	Once in a Month
3.	Chakiya Village (Hand Pump)	As per (IS:10500)	Once in a Month



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ENVIRONMENTAL STATEMENT

Sr No.	Parameters	Unit	Township (Guest House)	Chakiya Village	Nr. Main gate	AL	PL
1	Alkalinity as CaCO ₃	mg/L	386.33	382.00	359.67	200	600
2	Calcium	mg/L	117.30	95.92	103.80	75	200
3	Chloride	mg/L	47.40	111.21	39.15	250	1000
4	Colour	CU	BQL (QL=2.5)	BQL (QL=2.5)	BQL (QL=2.5)	5	15
5	Fluoride	mg/L	0.77	0.67	0.39	1	1.5
6	Mg	mg/L	30.86	59.41	40.90	30	100
7	Odour	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
8	Oil & Grease	mg/L	BQL (QL=1)	BQL (QL=1)	BQL (QL=1)	NS	NS
9	pH	-	7.53	7.53	7.55	6.5-8.5	No relaxation
10	Silica	mg/L	14.55	19.56	13.81	NS	NS
11	Sulphate	mg/L	33.71	44.19	31.15	200	400
12	Taste	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
13	Temperature	oC	25.88	26.05	26.10	NS	NS
14	TDS	mg/L	572.50	675.17	546.83	500	2000
15	TSS	mg/L	BQL (QL=5)	BQL (QL=5)	BQL (QL=5)	NS	NS
16	Total Hardness	mg/L	419.67	483.67	427.33	200	600
17	Turbidity	NTU	1.37	1.01	2.43	1	5
18	P. Alkalinity	mg/L	BQL(QL=2)	BQL(QL=2)	BQL(QL=2)	NS	NS
19	Arsenic as As	mg/L	0.01	0.01	0.01	0.01	0.05
20	Cadmium as Cd	mg/L	BQL(QL=0.002)	BQL (QL=0.002)	BQL(QL=0.002)	0.003	No relaxation
21	Total Chromium as Cr	mg/L	BQL (QL=0.02)	BQL (QL=0.02)	BQL (QL=0.02)	0.05	No relaxation
22	Copper as Cu	mg/L	BQL (QL=0.02)	BQL (QL=0.02)	BQL (QL=0.02)	0.05	1.5
23	Iron as Fe	mg/L	BQL (QL=0.05)	0.07	0.05	0.3	No relaxation
24	Lead as Pb	mg/L	BQL(QL=0.005)	BQL (QL=0.005)	BQL(QL=0.005)	0.01	No relaxation
25	Manganese As Mn	mg/L	BQL (QL=0.05)	BQL (QL=0.05)	0.15	0.1	0.3
26	Nickel as Ni	mg/L	BQL (QL=0.01)	BQL (QL=0.01)	BQL (QL=0.01)	0.02	No relaxation
27	Zinc as Zn	mg/L	BQL (QL=0.02)	BQL (QL=0.02)	BQL (QL=0.02)	5	15
28	Potassium as K	mg/L	1.83	4.00	2.65	NS	NS
29	Sodium As Na	mg/L	27.70	48.14	20.99	NS	NS
30	Nitrate	mg/L	2.32	0.85	0.82	45	No relaxation
31	Total Coliform	MPN per 100ml	BQL(QL=2)	BQL(QL=2)	BQL(QL=2)	Absent	Absent



TABLE -4**Location of Surface water Monitoring Stations**

Sr. No.	Source	Parameters	Frequency
1.	Ganga River	As per (IS:10500)	Once in a Month
2.	Bihat Pokhar	As per (IS:10500)	Once in a Month
3.	Baya Nallah	As per (IS:10500)	Once in a Month



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ENVIRONMENTAL STATEMENT

Sr No.	Parameters	Unit	Ganga River	Bihat Pokhar	AL	PL
1	Alkalinity as CaCO ₃	mg/L	88.00	223.33	200	600
2	BOD at 27°C for 3 days	mg/L	7.15	6.05	75	200
3	Calcium as Ca	mg/L	38.47	72.81	250	1000
4	Chemical Oxygen Demand (COD)	mg/L	23.33	24.00	5	15
5	Chloride	mg/L	55.82	142.12	1	1.5
6	Colour	CU	BQL (QL=2.5)	BQL (QL=2.5)	30	100
7	Fluoride	mg/L	0.28	0.87	Agreeable	Agreeable
8	Magnesium as Mg	mg/L	17.05	25.75	NS	NS
9	Oil & Grease	mg/L	BQL (QL=1)	BQL (QL=1)	6.5-8.5	No relaxation
10	pH	-	7.49	7.64	NS	NS
11	Sulphate	mg/L	26.25	20.26	200	400
12	Temperature	oC	26.23	25.92	Agreeable	Agreeable
13	TDS	mg/L	253.83	562.17	NS	NS
14	TSS	mg/L	16.17	13.83	500	2000
15	Total Hardness	mg/L	166.33	288.33	NS	NS
16	Turbidity	NTU	33.59	2.70	200	600
17	Dissolved Oxygen	mg/L	6.48	6.62	1	5
18	Arsenic as as	mg/L	BQL (QL=0.005)	BQL (QL=0.005)	NS	NS
19	Cadmium as Cd	mg/L	BQL (QL=0.002)	BQL (QL=0.002)	0.01	0.05
20	Chromium as Cr	mg/L	BQL (QL=0.02)	BQL (QL=0.02)	0.003	No relaxation
21	Copper as Cu	mg/L	BQL (QL=0.02)	BQL (QL=0.02)	0.05	No relaxation
22	Iron as Fe	mg/L	BQL (QL=0.05)	BQL (QL=0.05)	0.05	1.5
23	Lead as Pb	mg/L	BQL (QL=0.005)	BQL (QL=0.005)	0.3	No relaxation
24	Manganese As Mn	mg/L	BQL (QL=0.05)	BQL (QL=0.05)	0.01	No relaxation
25	Nickel as Ni	mg/L	BQL (QL=0.01)	BQL (QL=0.01)	0.1	0.3
26	Zinc As Zn	mg/L	BQL (QL=0.02)	BQL (QL=0.02)	0.02	No relaxation
27	Potassium As K	mg/L	4.74	14.05	5	15
28	Sodium As Na	mg/L	13.03	75.10	NS	NS
29	Nitrate	mg/L	3.63	4.74	NS	NS
30	Total Coliform	MPN per 100ml	53.00	35.00	45	No relaxation



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Page | 13

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ENVIRONMENTAL STATEMENT

Sr No.	Parameters	Unit	Baya Nallah	Norms
1	Alkalinity as CaCO ₃	mg/L	185.83	-
2	BOD at 27°C for 3 days	mg/L	6.95	30
3	Calcium as Ca	mg/L	45.62	-
4	Chemical Oxygen Demand (COD)	mg/L	29.33	250
5	Chloride	mg/L	32.65	-
6	Colour	CU	BQL (QL=2.5)	-
7	Fluoride	mg/L	0.28	2
8	Magnesium as Mg	mg/L	26.77	-
9	Oil & Grease	mg/L	BQL (QL=1)	10
10	pH	-	7.52	5.5 to 9.0
11	Sulphate	mg/L	27.30	-
12	Temperature	oC	25.88	-
13	TDS	mg/L	307.83	-
14	TSS	mg/L	9.67	100
15	Total Hardness	mg/L	224.00	-
16	Turbidity	NTU	3.11	-
17	Dissolved Oxygen	mg/L	5.35	-
18	Arsenic as as	mg/L	BQL (QL=0.005)	0.2
19	Cadmium as Cd	mg/L	BQL (QL=0.002)	2
20	Chromium as Cr	mg/L	BQL (QL=0.02)	2
21	Copper as Cu	mg/L	BQL (QL=0.02)	3
22	Iron as Fe	mg/L	BQL (QL=0.05)	3
23	Lead as Pb	mg/L	BQL (QL=0.005)	0.1
24	Manganese As Mn	mg/L	BQL (QL=0.05)	2
25	Nickel as Ni	mg/L	BQL (QL=0.01)	3
26	Zinc As Zn	mg/L	BQL (QL=0.02)	5
27	Potassium As K	mg/L	3.13	-
28	Sodium As Na	mg/L	14.44	-
29	Nitrate	mg/L	0.99	50
30	Total Coliform	MPN per 100ml	53.33	-



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Page | 14

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TABLE -5**Location of Flue Gas Monitoring Stations**

Sr. No.	Source	Parameters	Frequency
1.	HRSR -01	PM, SO _x , NO _x & CO	Twice in a Month
2.	HRSR -02	PM, SO _x , NO _x & CO	Twice in a Month
3.	Primary Reformer	PM, SO _x , NO _x & CO	Twice in a Month
4.	UREA Prill Tower	PM, NH ₃	Twice in a Month

Month	Parameter	HRSR -01	HRSR -02	Primary Reformer	UREA Prill Tower
April-25	PM (mg/Nm ³)	3.93	4.57	3.52	42.63
	Sox (ppm)	3.50	2.50	3.00	-
	NO _x (ppm)	43.50	55.00	33.00	-
	CO (mg/Nm ³)	18.59	25.20	26.32	-
	NH ₃ (mg/Nm ³)	-	-	-	37.16
May-25	PM (mg/Nm ³)	4.24	4.69	4.01	44.12
	Sox (ppm)	5.24	5.24	7.85	-
	NO _x (ppm)	62.03	56.39	33.83	-
	CO (mg/Nm ³)	18.32	21.76	36.65	-
	NH ₃ (mg/Nm ³)	-	-	-	41.20
June-25	PM (mg/Nm ³)	4.82	4.93	4.34	40.99
	Sox (ppm)	6.54	9.18	5.22	-
	NO _x (ppm)	63.90	56.40	43.25	-
	CO (mg/Nm ³)	16.68	22.34	28.64	-
	NH ₃ (mg/Nm ³)	-	-	-	42.70
July-25	PM (mg/Nm ³)	5.61	5.44	4.25	37.23
	Sox (ppm)	5.23	7.85	7.85	-
	NO _x (ppm)	107.14	90.22	48.87	-
	CO (mg/Nm ³)	17.18	19.47	24.05	-
	NH ₃ (mg/Nm ³)	-	-	-	41.83
August-25	PM (mg/Nm ³)	6.16	6.11	4.78	43.05
	Sox (ppm)	9.16	6.54	7.84	-
	NO _x (ppm)	88.34	81.76	56.39	-
	CO (mg/Nm ³)	38.95	34.94	26.92	-
	NH ₃ (mg/Nm ³)	-	-	-	74.95
September-25	PM (mg/Nm ³)	6.23	5.14	4.90	41.63
	Sox (ppm)	7.83	5.24	9.16	-
	NO _x (ppm)	90.23	95.87	57.33	-
	CO (mg/Nm ³)	22.34	25.20	31.51	-
	NH ₃ (mg/Nm ³)	-	-	-	66.42
Average	PM (mg/Nm ³)	5.16	5.14	4.30	41.61
	Sox (ppm)	6.25	6.09	6.82	-
	NO _x (ppm)	75.86	72.61	45.45	-
	CO (mg/Nm ³)	22.01	24.82	29.01	-
	NH ₃ (mg/Nm ³)	-	-	-	50.71

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