



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)

Ref. No.: HURL/BR/EC/C/03

Date: 29/11/2024

To,  
The Scientist-D,  
Regional Office (ECZ),  
Ministry of Environment, Forest and Climate Change,  
Bungalow No. A-2, Shyamali Colony,  
Ranchi – 834002.

Subject: Regarding Six months EC compliance report of M/s Hindustan Urvarak & Rasayan Limited (HURL)-Barauni for April-2024 to September-2024.

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

Dear Sir,

With reference to the subject mentioned above, please find attached herewith the Six months EC compliance report for the period April-2024 to September-2024.

Thanking you,

Yours faithfully,  
For Hindustan Urvarak & Rasayan Limited

  
29.11.24

Sanjai Kumar Gupta  
Business Unit Head - Barauni.

Encl: Annexures

CC: Mr. Suresh P Roy, Regional officer,  
Bihar State Pollution Control Board  
Barauni Industrial area, Begusarai (Bihar).

CC: Regional Directorate – Kolkata  
Central Pollution Control Board,  
Ministry of Environment, Forest and Climate Change,  
'South end Conclave' Block-502, 5<sup>th</sup> & 6<sup>th</sup> Floor, 1582,  
Razidanga, Main Road, Kolkata-700107 West Bengal.

**COMPLIANCE OF EC CONDITIONS FOR THE PERIOD APRIL-2024 TO SEPTEMBER 2024**

S. No.	EC Conditions	Self-Declaration	Compliance status
(A)	<b>Specific Conditions</b>		
1.	Emissions limits for the pollutants from the DG sets and the stack height, shall be in conformity with the extant statutory regulations and/or the CPCB guidelines in this regard.	Complied	Diesel Generator Sets are being used only in case of total Power Failure for safe shutdown of the Plants. Normally, the plant Complex Power requirement is being met from NBPDC and Natural Gas based HURL own Captive Power Generation (2 Gas Turbines). Adequate stack height provided to ensure the statutory regulations & guidelines.
2.	To control source emissions, scrubber and/or other suitable pollution control device shall be installed to meet the prescribed Particulate Matter emission norms of 50 mg/Nm <sup>3</sup> , and also the NAAQS.	Complied	This has been addressed in the Feasibility Report of the project during design stage of the plant itself and complied. Design considerations include scrubbers, adequate height of prilling tower and other gas sensors/control measures in the plant to meet emission norms as per NAAQS. AAQ analysis report is attached as <b>Annexure-I</b>
3.	Fresh water requirement shall not exceed 5.36 cum/ton of Urea production. Fresh water shall be sourced from River Ganga only after the required permission from the concerned authority. During construction phase, ground water may be used after prior permission in this regard from the concerned regulatory authority.	Complied	Fresh water supply is sourced from river Ganga. Requisite NOC has been accorded by Central Water Commission (CWC). However, it is ensured that the fresh water requirement does not exceed 5.36 cum/ton of Urea production.
4.	As already committed by the project proponent, no waste/treated water shall be discharged outside to ensure ZLD. The effluent discharge, if any, shall meet the standards for 'Nitrogenous Fertilizer Industry' prescribed under the Environment (Protection) Rules, 1986.	Complied	ZLD plant is commissioned on 12.05.2024 and currently in operation. As the Project is based on Zero liquid discharge concept entire wastewater generated will be treated upto tertiary level in ETP and reusing in process.
5.	The project proponent shall develop greenbelt in an area of 33% i.e., nearly 116 acres out of 350 acres of plant area of the project. The green belt of 30 m width around periphery shall be provided.	Agree to Comply	MOU made DFO Begusarai for plantation within the plant premises, approximately 41.30 acres of land has been designated for the creation of a green belt, out of a total area of approximately 116 acres. This plantation work expected to complete before monsoon season.
6.	5000 trees per year in 5 years shall be planted in nearby villages with the consultation of the villagers. Survival rate of plants shall be reported to RO, MoEF & CC in 6 monthly compliance report.	Complied	Plantation work is awarded to State Forest dept on depositary work basis. 25000 plants planted by State Forest dept. (DFO Begusarai) in FY 2022-23 and survival rate of plants in Oct 2023 attached as <b>Annexure-II</b>
7.	All the commitments made during the Public Hearing/ Public Consultation meeting held on 29th April, 2017 shall be satisfactorily implemented and adequate budget provision shall be made accordingly.	Agree to Comply	All the commitments made during Public Hearing/Public Consultation meeting held on 27th April, 2017 are being complied for which adequate budget was considered in the project cost.

  
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8.	At least 2.5 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment (ESC) based on local needs and action plan with financial and physical breakup/details shall be prepared and submitted to the Ministry's Regional Office at Ranchi. Implementation of such program shall be ensured accordingly in a time bound manner.	Agree to Comply	The Enterprise Social Commitment (ESC) will be implemented according to the specified conditions outlined by the Project. HURL is responsible for developing a detailed action plan and budget. Currently, HURL management is reviewing a proposal titled "Improvement/Augmentation of Education & Related Infrastructure" for selected Government Schools in Barauni, Begusarai district, under the Corporate Environmental Responsibility (CER) initiative. The site-level committee has recommended an estimated cost of Rs. 20,92,56892/- (Rupees twenty crores ninety-two lakhs fifty-six thousand eight hundred ninety-one only) for this project, which is under review and consideration.
9.	A regular environment manager having post graduate qualification in environmental sciences/ environmental engineering to be appointed for looking after the environmental management activities of the proposed plant.	Complied	The environmental management activities of the plant are being looked after by a permanent Manager level officer Mr. Srinu Pitta. Environmental Monitoring work has been outsourced to an external agency.
10.	Continuous online (24x7) monitoring system for emissions and effluent generation shall be installed for flow/discharge measurement and the pollutants concentration within the plant. Data shall be uploaded on company's website and provided to the respective RO of MoEF&CC, CPCB and SPCB.	Complied	Continuous online(24x7) monitoring system for stacks emissions has been installed at site. Its Connectivity with CPCB server completed. Manual display board for environment data (EC required data) display has been installed and data is being updated regularly.
11.	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms.	Complied	Plant is equipped with adequate measures for control of failures/ hazards. Firefighting facilities are implemented as per norms.
12.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Complied	Regular health check-up/monitoring of the commissioning/operation workers are being done and records have been maintained for the same. All the workers are ensured to be equipped with PPEs such as helmets, hand gloves, boots etc. before entering into plant site.
13.	Storage of hazardous raw material shall not exceed more than 7 days.	Complied	Storage of raw materials addressed in the Feasibility Report and EIA (HAZID & ENVID) report of the Project, being complied with the stated condition.
14.	Urea dust shall be controlled by prescribed standard technique.	Complied	This is addressed while designing the prilling tower w.r.t height of UPT, gas sensors, manual PM monitoring etc. to control emission of urea dust and subsequent loss/ environmental pollution. The urea dust concentration is less than 50 mg/Nm <sup>3</sup> or below 0.5 Kg/MT of urea produced. Following control measures adopted to ensure the above concentration: • Provided adequate free fall height

  
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			<ul style="list-style-type: none"> <li>• Maintaining the moisture content in the melt below 0.5% to increase prill strength.</li> <li>• Prilling Tower of special design installed to maintain uniform and low velocity profile of cooling air.</li> <li>• The louvers of the prilling tower designed in such a way that the air entering the louvers located in the bottom of PT shall generate low velocity cooled air.</li> <li>• Maintaining optimum melt temperature</li> <li>• Use of special design prilling buckets, etc.</li> </ul> <p>Besides above, all safety valves exhaust, which operates during occasional upsets, connected to Blow-down Stacks and the inerts shall be vented through 93-m high Vent Stacks.</p>
15.	In Urea Plant, particulate emissions shall not exceed 50 mg/Nm <sup>3</sup> , Monitoring of Prilling Tower shall be carried out as per CPCB guidelines.	Complied	Particulate Emissions are within the 50 mg/Nm <sup>3</sup> . Urea Prilling tower Emissions are being monitored as per the CPCB Guidelines. Emission Monitoring report attached as <b>Annexure-I</b> .
16.	The levels of PM <sub>10</sub> (Urea dust), SO <sub>2</sub> , NO <sub>x</sub> , Ammonia, Ozone and HC shall be monitored in the ambient air and displayed at a convenient location near the main gate of the company and at important public places. The company shall upload the results of monitored data on its website and shall update the same periodically. It shall simultaneously be sent to the Regional office of MoEF&CC, the respective Zonal office of CPCB and the SPCB.	Complied	The levels of PM <sub>10</sub> (Urea dust), SO <sub>x</sub> , NO <sub>x</sub> , Ammonia, Ozone and HC in the ambient air are being monitored since the construction phase by external agencies, having CPCB recognized laboratories. (Monitoring Report for April 2024 to September 2024 attached as <b>Annexure- I</b> ). Monitoring data is updated manually at outside of Plant Gate. Six monthly compliance reports with monitoring results are uploaded on HURL's website and its regular updating is done periodically. Simultaneously, every six-monthly compliance report is also being sent to the Regional office of MoEF&CC, the respective Zonal office of MoEF&CC and BSPCB as per stated condition.
17.	In plant, control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fugitive emissions shall be controlled by providing closed storage, closed handling & conveyance of chemicals / materials, multi cyclone separator and water sprinkling system. Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored. The emissions shall conform to the limits stipulated by the SPCB.	Complied	The water sprinkling is being done on regular basis for dust suppression in and around site. Air Quality is being monitored in work zone environment as per monitoring plan for assessment of pollution level during the operation phase ( <b>Annexure-I</b> ). The technology has inherent design features for minimum gaseous emissions. Gaseous raw materials, Liquid product, gaseous product, urea product and chemicals are handled in the closed system. Fugitive emission surveys are carried out to monitor emission in the work zone environment, product area etc. and are regularly monitored. Fugitive emissions monitored confirm the emission limits stipulated by as per SPCB norms.
18.	The company shall obtain Authorization for collection, storage and disposal of hazardous waste under the Hazardous waste "(Management, Handling and Trans-Boundary Movement) Rules, 2016 and	Complied	Authorization has been obtained from BSPCB for Authorization for collection, storage and disposal of hazardous waste under the Hazardous & other Waste (Management, Handling and Trans-Boundary Movement) Rules, 2016. Adequate fire-fighting

  
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	amended as on date for management of Hazardous wastes. Measures shall be taken for fire fighting facilities in case of emergency.		facilities have been provided and maintained for meeting the emergencies. (Authorization no. HW/B-1934 patna-10 dated 20.07.2022)
19.	Provision shall be made for the housing for the construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile sewage treatment plant, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structure to be removed after the completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment.	Complied	The plant is at the operation stage. However, all necessary compliances were ensured during the construction phase. Majority of the construction wastes have been removed in an environmentally friendly manner.
<b>(B)</b>	<b>General Conditions</b>		
1.	The project authorities shall strictly adhere to the stipulations made by the State Pollution Control Board (SPCB), State Government and any other statutory authority.	Complied	It is being complied regularly.
2.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Complied	Noted, there is no further expansion or modifications in the plant is envisaged at this stage. However, as and when required, a fresh reference shall be made to the MoEF&CC, Gov. of India.
3.	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	Complied	The locations of ambient air quality monitoring have been decided in consultation with the Bihar State Pollution Control Board (BSPCB) and HURL officials for monitoring of Air Quality during construction /commissioning phase. 06 Nos. of AAQMS have been installed in the project area, out of which one station is selected in up-wind (East) and one station is selected in down-wind (West) directions.
4.	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 18th November, 2009 shall be followed.	Complied	Being Complied.
5.	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed	Complied	The noise levels are maintained within the standard prescribed limits by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. (Data attached as <b>Annexure-1</b> )

	under the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).		
6.	The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.	Complied	Rain water harvesting system is provided to collect water from all the plant buildings viz. admin, control rooms and laboratory as well as surface run off to ensure effective rain water harvesting and subsequent ground water recharge. As per envisaged plan, buildings like control room, operator room, maintenance building, canteen, laboratory building etc. will be having rain water harvesting facility. These are completed.
7.	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	Complied	All Employees are imparted training on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees is being undertaken on regular basis.
8.	The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing shall be implemented.	Complied	This condition will be complied in totality as stated. HURL has taken care of compliance with all the pollution control measures at every single step wherever suggested/possible at design stage itself. This includes provision of suitable UPT, scrubbers, stacks, ETP with ZLD, equipment's with acoustic enclosures, development of green belt/ green cover, rain water harvesting system etc. The effective implementation of all env. Pollution control measures being ensured in operational phase.
9.	The company shall undertake all relevant measures for improving the socioeconomic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.	Agree to Comply	CSR activities are being undertaken as and when applicable. However, some initiatives are under implementation as well as under consideration aimed at improving the socio-economic conditions of the surrounding area, as part of fulfilment of the obligations under ESC/ PH issues. The various activities are being initiated through CIPET and other imparted agencies.
10.	The company shall undertake all eco-developmental measures including community welfare measures for overall improvement of the environment.	Agree to Comply	All eco-developmental measures including community welfare measures for overall improvement of the environment will be undertaken by involving local villages and administration as per rule and Government guidelines. MoU made with CIPET.
11.	A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Being to Comply	The EC conditions relating to establishment of Environmental Cell have been complied with and the following arrangement for environment cell is in place. 1) Mr. Srinu Pitta, Manager (Env. & QC) reports to Shri. Sanjai Kumar Gupta, HURL Barauni Project Head 2) Mr. Divyanshu Trivedi, AM (Env. & QC)

  
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			Full-fledged laboratory facilities are to be established to carry out the Environmental Management and Monitoring functions. Which is currently done by 3 <sup>rd</sup> party agency.
12.	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management pollution control measures shall not be diverted for any other purpose.	Complied	Being Complied.
13.	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions, representations, if any, were received while processing the proposal.	Complied	Complied.
14.	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by-mail) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six-monthly compliance status reports shall be posted on the website of the company.	Complied	Being Complied. Regularly six-monthly compliance report is being submitted to MOEF & CC zonal office (both in hard copies as well as by-mail) and posted on the website of the company.
15.	The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF&CC by-mail.	Complied	The environmental statement for the financial year ending 31 <sup>st</sup> march 2024 in Form-V submitted and uploaded the same on Company's website.
16.	The project proponent shall inform the public that the project has been accorded' environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the	Complied	Complied.

  
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	Ministry at <a href="http://moef.nic.in">http://moef.nic.in</a> . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.		
17.	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	Complied	Complied.

  
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### Env. STATEMENT for CTO Compliance for the period April 2024 – September 2024 for

### Ammonia –Urea (2200 MTPD & 3850 MTPD) plant of HURL at Barauni

This Compliance Report is the fulfillments 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 April 2024 to September 2024. This report has been prepared by Nitya Laboratories 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 Nitya Laboratories, Jammu.

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 PM<sub>10</sub>, PM<sub>2.5</sub>, NO<sub>x</sub>, SO<sub>x</sub>, C<sub>6</sub>H<sub>6</sub>, CO, Benzo(a) pyrene (BAP), NH<sub>3</sub>, 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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**Env. STATEMENT for CTO Compliance for the period April 2024 – September 2024 for  
Ammonia –Urea (2200 MTPD & 3850 MTPD) plant of HURL at Barauni**

The above 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 2024 to September 2024.

**TABLE- 1**

**Location of Air Quality Monitoring Stations**

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

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Env. STATEMENT for CTO Compliance for the period April 2024 – September 2024 for Ammonia –Urea (2200 MTPD & 3850 MTPD) plant of HURL at Barauni

**HURL BARAUNI, AIR QUALITY DATA – (April 2024 to September 2024)**

Month	Parameters		NAAQS	HURL Admin Building(SA 1)	Simariya Village(SA 2)	HURL Residential Township(SA3)	Chackbali Refinery Road(SA4)	Chakiya Village (SA5)	Bihat Village (SA6)
			Standards						
April 2024	PM10	µg/m <sup>3</sup>	100	58.64	58.10	57.52	59.13	57.56	56.97
	PM2.5		60	36.51	36.75	37.46	36.84	35.33	34.68
	SO <sub>2</sub>		80	11.31	11.22	10.84	11.96	10.52	10.97
	NO <sub>x</sub>		80	16.27	14.11	13.18	16.93	19.68	15.86
	C6H6		5	ND	ND	ND	ND	ND	ND
	BAP	ng/m <sup>3</sup>	1	ND	ND	ND	ND	ND	ND
	CO	mg/m <sup>3</sup>	2	0.33	0.28	0.23	0.19	0.26	0.21
	NH <sub>3</sub>	µg/m <sup>3</sup>	400	45.86	12.16	10.89	62.91	17.00	19.98
	Ozone		180	18.87	12.18	11.69	12.00	13.52	12.83
	Ni	ng/m <sup>3</sup>	20	ND	ND	ND	ND	ND	ND
	As		6	ND	ND	ND	ND	ND	ND
	Pb	µg/m <sup>3</sup>	1	ND	ND	ND	ND	ND	ND
May 2024	PM10	µg/m <sup>3</sup>	100	57.99	56.77	56.56	58.19	56.90	56.59
	PM2.5		60	35.79	36.59	37.44	34.98	35.88	37.47
	SO <sub>2</sub>		80	11.99	11.55	11.93	12.61	12.08	11.97
	NO <sub>x</sub>		80	16.82	13.73	13.64	16.66	20.12	16.39
	C6H6		5	ND	ND	ND	ND	ND	ND
	BAP	ng/m <sup>3</sup>	1	ND	ND	ND	ND	ND	ND
	CO	mg/m <sup>3</sup>	2	0.29	0.26	0.23	0.19	0.24	0.19
	NH <sub>3</sub>	µg/m <sup>3</sup>	400	45.84	12.53	11.89	56.71	19.87	19.76
	Ozone		180	19.97	12.51	12.07	12.77	14.53	14.00
	Ni	ng/m <sup>3</sup>	20	ND	ND	ND	ND	ND	ND
	As		6	ND	ND	ND	ND	ND	ND
	Pb	µg/m <sup>3</sup>	1	ND	ND	ND	ND	ND	ND



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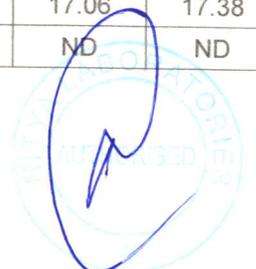
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June 2024	PM10	µg/m3	100	64.66	64.40	64.78	64.81	64.67	64.82
	PM2.5		60	41.45	38.46	39.00	40.55	39.53	38.83
	SO2		80	12.97	12.16	11.06	11.86	11.66	11.17
	NOx		80	18.21	14.87	13.37	18.25	21.52	17.65
	C6H6		5	ND	ND	ND	ND	ND	ND
	BAP	ng/m3	1	ND	ND	ND	ND	ND	ND
	CO	mg/m3	2	0.18	0.18	0.17	0.16	0.2	0.19
	NH3	µg/m3	400	51.91	12.36	10.78	72.36	20.70	24.53
	Ozone		180	12.96	13.55	11.47	13.52	15.22	15.32
	Ni	ng/m3	20	ND	ND	ND	ND	ND	ND
	As		6	ND	ND	ND	ND	ND	ND
	Pb	µg/m3	1	ND	ND	ND	ND	ND	ND
July 2024	PM10	µg/m3	100	61.85	61.09	60.95	61.14	61.29	61.24
	PM2.5		60	38.48	37.99	36.58	38.55	36.35	37.26
	SO2		80	13.31	12.71	12.83	13.90	13.19	13.30
	NOx		80	18.64	16.54	16.03	17.61	19.54	18.39
	C6H6		5	ND	ND	ND	ND	ND	ND
	BAP	ng/m3	1	ND	ND	ND	ND	ND	ND
	CO	mg/m3	2	0.19	0.20	0.21	0.19	0.18	0.19
	NH3	µg/m3	400	47.48	14.56	12.83	68.11	19.73	22.91
	Ozone		180	13.35	13.88	13.40	14.78	15.63	16.76
	Ni	ng/m3	20	ND	ND	ND	ND	ND	ND
	As		6	ND	ND	ND	ND	ND	ND
	Pb	µg/m3	1	ND	ND	ND	ND	ND	ND
Aug 2024	PM10	µg/m3	100	59.06	57.14	56.20	56.89	54.88	57.18
	PM2.5		60	37.34	34.19	33.79	35.95	33.19	35.00
	SO2		80	15.29	14.63	14.89	15.99	15.48	15.11
	NOx		80	19.58	18.58	17.90	19.28	20.50	19.68
	C6H6		5	ND	ND	ND	ND	ND	ND
	BAP	ng/m3	1	ND	ND	ND	ND	ND	ND
	CO	mg/m3	2	0.21	0.17	0.19	0.20	0.18	0.17
	NH3	µg/m3	400	42.73	16.53	14.71	62.63	21.83	24.15
	Ozone		180	15.01	15.45	15.21	16.90	17.06	17.38
	Ni	ng/m3	20	ND	ND	ND	ND	ND	ND

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Ammonia –Urea (2200 MTPD & 3850 MTPD) plant of HURL at Barauni

Sep 2024	As		6	ND	ND	ND	ND	ND	ND
	Pb	µg/m3	1	ND	ND	ND	ND	ND	ND
	PM10	µg/m3	100	64.66	64.40	64.78	64.81	64.67	64.82
	PM2.5		60	41.45	38.46	39.00	40.55	39.53	38.83
	SO2		80	12.97	12.16	11.06	11.86	11.66	11.17
	NOx		80	18.21	14.87	13.37	18.25	21.52	17.65
	C6H6		5	ND	ND	ND	ND	ND	ND
	BAP	ng/m3	1	ND	ND	ND	ND	ND	ND
	CO	mg/m3	2	0.18	0.18	0.17	0.16	0.20	0.19
	NH3	µg/m3	400	51.91	12.36	10.78	72.36	20.70	24.53
	Ozone		180	12.96	13.55	11.47	13.52	15.22	15.32
	Ni	ng/m3	20	ND	ND	ND	ND	ND	ND
	As		6	ND	ND	ND	ND	ND	ND
Pb	µg/m3	1	ND	ND	ND	ND	ND	ND	
Average	PM10	µg/m3	100	61.14	60.32	60.15	60.83	60.00	60.27
	PM2.5		60	38.50	37.07	37.21	37.90	36.64	37.01
	SO2		80	12.97	12.41	12.10	13.03	12.43	12.28
	NOx		80	17.96	15.45	14.58	17.81	20.48	17.60
	C6H6		5	ND	ND	ND	ND	ND	ND
	BAP	ng/m3	1	ND	ND	ND	ND	ND	ND
	CO	mg/m3	2	0.23	0.21	0.20	0.18	0.21	0.19
	NH3	µg/m3	400	47.62	13.42	11.98	65.85	19.97	22.64
	Ozone		180	15.52	13.52	12.55	13.92	15.20	15.32
	Ni	ng/m3	20	ND	ND	ND	ND	ND	ND
	As		6	ND	ND	ND	ND	ND	ND
	Pb	µg/m3	1	ND	ND	ND	ND	ND	ND

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Env. STATEMENT for CTO Compliance for the period April 2024 – September 2024 for  
Ammonia –Urea (2200 MTPD & 3850 MTPD) plant of HURL at Barauni

TABLE - 2

Noise Monitoring Assessment Schedule

Sr. No.	Source	Frequency
1.	HURL Admin Building (SN 1)	Once in a Month
2.	HURL Simariya Village (SN 2)	Once in a Month
3.	HURL Township (SN 3)	Once in a Month
4.	HURL Mahna Village (SN 4)	Once in a Month
5.	HURL Chakiya Village (SN 5)	Once in a Month
6.	Near Bihat Village(SN 6)	Once in a Month

  
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**Env. STATEMENT for CTO Compliance for the period April 2024 – September 2024 for Ammonia –Urea (2200 MTPD & 3850 MTPD) plant of HURL at Barauni**

HURL BARAUNI, NOISE DATA (April 2024 to September 2024)								
Month	Parameters	Prescribed Limits in db(A) as per NAAQS Ind./Res. Area	HURL Admin Building(SA 1)	Simariya Village(SA 2)	HURL Residential Township(SA 3)	Chackbali Refinery Road(SA4)	Chakiya Village (SA5)	Bihat Village (SA6)
April 2024	24 hrs. Avg Leq Value db (A)	-	65.40	67.40	67.20	66.60	61.80	64.50
	Day time Avg Leq Value db (A)	75/55/65	71.22	70.38	71.13	69.65	67.96	69.19
	Night time Avg Leq Value db (A)	70/45/55	62.16	64.42	65.36	60.59	55.33	57.22
May 2024	24 hrs. Avg Leq Value db (A)	-	66.90	67.50	68.80	64.20	62.10	62.90
	Day time Avg Leq Value db (A)	75/55/65	70.19	71.28	70.39	67.29	65.49	67.78
	Night time Avg Leq Value db (A)	70/45/55	63.21	63.25	66.39	61.21	56.63	56.24
June 2024	24 hrs. Avg Leq Value db (A)	-	68.40	65.30	70.20	61.50	49.40	49.90
	Day time Avg Leq Value db (A)	75/55/65	71.29	70.32	72.39	63.28	64.23	65.15
	Night time Avg Leq Value db (A)	70/45/55	65.20	61.43	68.12	60.12	55.34	54.14
July 2024	24 hrs. Avg Leq Value db (A)	-	64.80	64.70	68.90	61.90	58.10	60.50
	Day time Avg Leq Value db (A)	75/55/65	69.40	68.71	70.18	64.89	62.79	67.89
	Night time Avg Leq Value db (A)	70/45/55	62.96	59.68	66.35	58.79	53.22	52.89
Aug 2024	24 hrs. Avg Leq Value db (A)	-	63.60	62.70	66.90	60.90	55.20	62.80
	Day time Avg Leq Value db (A)	75/55/65	67.58	66.48	72.87	62.48	60.48	69.48
	Night time Avg Leq Value db (A)	70/45/55	60.58	57.85	64.85	59.63	51.96	52.89

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Ammonia –Urea (2200 MTPD & 3850 MTPD) plant of HURL at Barauni

Sep 2024	24 hrs. Avg Leq Value db (A)	-	69.70	68.10	65.50	59.90	61.30	58.90
	Day time Avg Leq Value db (A)	75/55/65	73.69	72.65	69.68	67.85	65.89	63.99
	Night time Avg Leq Value db (A)	70/45/55	66.78	63.69	60.39	54.23	57.46	54.21
Average	24 hrs. Avg Leq Value db (A)	-	66.47	65.95	67.92	62.50	59.65	61.58
	Day time Avg Leq Value db (A)	75/55/65	70.90	69.97	71.27	65.91	64.47	67.25
	Night time Avg Leq Value db (A)	70/45/55	63.48	61.67	65.24	59.10	54.99	54.60

  
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Env. STATEMENT for CTO Compliance for the period April 2024 – September 2024 for  
Ammonia –Urea (2200 MTPD & 3850 MTPD) plant of HURL at Barauni

TABLE - 3

Ground Water Quality Assessment Schedule

Sr. No.	Source	Parameters	Frequency
1.	HURL Plant (Bore-well)	As per IS: 10500	Once in a Month
2.	HURL Township (Hand Pump)	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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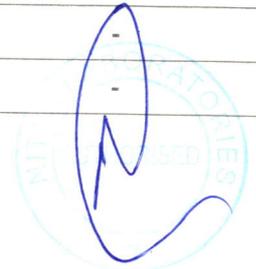
Env. STATEMENT for CTO Compliance for the period April 2024 – September 2024 for Ammonia –Urea (2200 MTPD & 3850 MTPD) plant of HURL at Barauni

**HURL BARAUNI, GROUND WATER QUALITY DATA AVERAGE RESULT (April 2024 to September 2024)**

(Results are expressed in mg/l, unless otherwise stated)

Sr. No.	Parameters	Average Analysis Results			Requirement (Acceptable)/Permissible Limits (IS:10500:2012)
		HURL Plant (Bore-well)GW-1	HURL Township (Hand Pump)GW-2	Chakiya Village (Hand Pump)GW-3	
<b>PHYSICAL</b>					
1.0	pH	7.33	7.28	7.10	6.5-8.5
2.0	Temperature	26.70	27.12	26.07	-
3.0	Colour	<5	<5	<5	5/15
4.0	Odour	ND	ND	ND	Agreeable
5.0	Taste	ND	ND	ND	Agreeable
6.0	Turbidity (NTU)	ND	ND	ND	1/5
7.0	Total Suspended Solids	15	20.50	21	-
8.0	Total Dissolved Solids	886.67	545.33	588.33	500/2000
<b>CHEMICAL</b>					
1.0	P-Alkalinity as (CaCO <sub>3</sub> )	ND	ND	ND	-
2.0	Total Alkalinity as (CaCO <sub>3</sub> )	285	321.67	253.33	200/600
3.0	Chloride as Cl	67	59.50	50.17	250/1000
4.0	Sulphate as (SO <sub>4</sub> )	26.47	32.58	69.25	200/400
5.0	Nitrate as (NO <sub>3</sub> )	0.55	0.55	0.94	45/NR
6.0	Fluoride as (F)	ND	ND	ND	1.0/1.5
7.0	Total Hardness as (CaCO <sub>3</sub> )	266.67	283.33	240	200/600
8.0	Calcium as Ca	87.67	77	81.33	-
9.0	Magnesium as Mg	39.97	41.04	28.27	-
10.0	Sodium as Na	33.57	21.40	33.82	-
11.0	Potassium as K	3.35	2.33	5.49	-

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Env. STATEMENT for CTO Compliance for the period April 2024 – September 2024 for

Ammonia –Urea (2200 MTPD & 3850 MTPD) plant of HURL at Barauni

12.0	Silica as SiO <sub>2</sub>	21.24	7.21	13.27	-
13.0	Iron as Fe	ND	0.19	0.22	0.3/NR
<b>HEAVY METALS</b>					
1.0	Manganese as Mn	ND	ND	ND	0.1/0.3
2.0	Total Chromium as Cr	ND	ND	ND	0.05/NR
3.0	Lead as Pb	ND	ND	ND	0.01/NR
4.0	Zinc as Zn	0.59	0.23	0.24	5.0/15
5.0	Cadmium as Cd	ND	ND	ND	0.003/NR
6.0	Copper as Cu	ND	ND	ND	0.05/1.5
7.0	Nickel as Ni	ND	ND	ND	0.02/NR
8.0	Arsenic as As	ND	ND	ND	0.01
9.0	Selenium as Se	ND	ND	ND	0.01/NR
<b>OTHERS</b>					
1.0	Oil & Grease	ND	ND	ND	0.01/0.03
2.0	Phenolic compound as C <sub>6</sub> H <sub>6</sub> OH	ND	ND	ND	0.001/0.002
3.0	Total Coliform (MPN/100 ml)	Absent	Absent	Absent	-

NR= No Relaxation, \*Calcium as Ca, \*\* Magnesium as Mg

  
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Env. STATEMENT for CTO Compliance for the period April 2024 – September 2024 for  
Ammonia –Urea (2200 MTPD & 3850 MTPD) plant of HURL at Barauni

TABLE - 4

Surface Water Quality Assessment Schedule

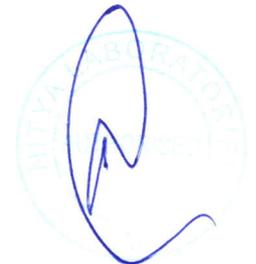
Sr. No.	Source	Parameters	Frequency
1.	Ganga River	As per IS: 10500	Once in a Month
2.	Bihat Village (Pond)	As per IS: 10500	Once in a Month
3.	Baya Nallah	As per IS: 10500	Once in a Month

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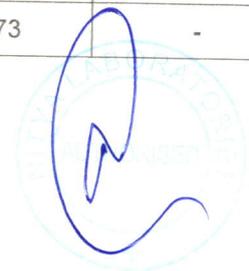
**Env. STATEMENT for CTO Compliance for the period April 2024 – September 2024 for  
Ammonia –Urea (2200 MTPD & 3850 MTPD) plant of HURL at Barauni**

**HURL BARAUNI, Surface Water Quality Data Average Result (April 2024 to September 2024)**

(Results are expressed in mg/l, unless otherwise stated)

Sr. No.	Parameters	Average Analysis Results			Requirement (Acceptable)/Permissible Limits (IS: 10500:2012)
		Ganga River (SW1)	Bihat Village (Pond) (SW2)	Baya Nallah (SW3)	
<b>PHYSICAL</b>					
1.0	pH	7.62	7.55	7.85	6.5-8.5
2.0	Temperature	26.93	26.52	27.83	-
3.0	Colour	<5	<5	<5	5/15
4.0	Turbidity (NTU)	29	31.17	<1	1/5
5.0	Total Suspended Solids	17.17	40.33	19.88	-
6.0	Total Dissolved Solids	354.67	948.33	299.67	500/2000
<b>CHEMICAL</b>					
1.0	Total Alkalinity as (CaCO <sub>3</sub> )	153	288.33	158.83	200/600
2.0	Chloride as Cl	36	218.33	37.33	250/1000
3.0	Sulphate as (SO <sub>4</sub> )	23.88	48.65	21.94	200/400
4.0	Nitrate as (NO <sub>3</sub> )	1.01	0.47	0.29	45/NR
5.0	Fluoride as (F)	ND	ND	ND	1.0/1.5
6.0	Total Hardness as (CaCO <sub>3</sub> )	171.67	292.83	174.67	200/600
7.0	Calcium as Ca	68	68	71.33	-
8.0	Magnesium as Mg	13.21	44.28	7.54	-
9.0	Dissolved Oxygen	5.48	3.32	4.77	-
10.0	COD	31.67	111.67	40.67	-
11.0	BOD (3 days at 27°C)	6.20	24.83	7.17	-
12.0	Sodium as Na	31.37	30.83	24.88	-
13.0	Potassium as K	2.88	2.58	1.73	-

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HEAVY METALS					
1.0	Iron as Fe	0.16	ND	ND	0.3/NR
2.0	Manganese as Mn	ND	ND	ND	0.1/0.3
3.0	Total Chromium as Cr	ND	ND	ND	0.05/NR
4.0	Lead as Pb	ND	ND	ND	0.01/NR
5.0	Zinc as Zn	0.51	0.51	0.45	5.0/15
6.0	Cadmium as Cd	ND	ND	ND	0.003/NR
7.0	Copper as Cu	ND	ND	ND	0.05/1.5
8.0	Nickel as Ni	ND	ND	ND	0.02/NR
9.0	Arsenic as As	ND	ND	ND	0.01
10.0	Selenium as Se	ND	ND	ND	0.01/NR
OTHERS					
1.0	Oil & Grease	ND	ND	ND	0.01/0.03
2.0	Phenolic compound as C <sub>6</sub> H <sub>6</sub> OH	ND	ND	ND	0.001/0.002
3.0	Total Coliform (MPN/100 ml)	392.67	752.67	1068.83	-

NR= No Relaxation, \*Calcium as Ca, \*\* Magnesium as Mg

  
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Env. STATEMENT for CTO Compliance for the period April 2024 – September 2024 for  
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TABLE - 5

Flue Gas Monitoring Assessment Schedule

Sr. No.	Source	Parameters	Frequency
1.	Primary Reformer	SPM, SO <sub>x</sub> , NO <sub>x</sub> & CO	Twice in a Month
2.	Prill Tower	SPM & Ammonia	Twice in a Month
3.	HRSG-1	SPM, SO <sub>x</sub> , NO <sub>x</sub> & CO	Twice in a Month
4.	HRSG-2	SPM, SO <sub>x</sub> , NO <sub>x</sub> & CO	Twice in a Month

  
**SRINU PITTA**  
MANAGER (E&QC)  
HINDUSTAN URVARAK & RASAYAN LTD.  
(A Joint Venture of NTPC, CIL, IOCL, FCIL & HFCL)  
Project Office- Urvarak Nagar, Barauni



**CORPORATE OFFICE & CENTRAL LABORATORIES :-**

Plot No. 118, Church Road, Behind Kausik Vatika, Bhagat Singh Colony, Ballabhgarh, Faridabad - 121004, Haryana, India

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**Env. STATEMENT for CTO Compliance for the period April 2024 – September 2024 for  
Ammonia –Urea (2200 MTPD & 3850 MTPD) plant of HURL at Barauni**

**HURL BARAUNI, Flue Gas Monitoring Data Average Result (April 2024 to September 2024)**

(Results are expressed in mg/l, unless otherwise stated)

Month	Parameters		NAAQS	Primary Reformer	HRSG-1	HRSG-2
			Standards			
April 2024	PM10	mg/Nm <sup>3</sup>	-	ND (DL-5)	ND (DL-5)	ND (DL-5)
	NO <sub>x</sub>		-	60	70	64
	SO <sub>2</sub>		-	7	6	6
	CO		-	ND (DL-1)	7	13
May 2024	PM10	mg/Nm <sup>3</sup>	-	ND (DL-5)	ND (DL-5)	ND (DL-5)
	NO <sub>x</sub>		-	58	69	61
	SO <sub>2</sub>		-	7	4	5
	CO		-	ND (DL-1)	9	10
June 2024	PM10	mg/Nm <sup>3</sup>	-	ND (DL-5)	ND (DL-5)	ND (DL-5)
	NO <sub>x</sub>		-	48	56	61
	SO <sub>2</sub>		-	6	7	5
	CO		-	ND (DL-1)	9	13
July 2024	PM10	mg/Nm <sup>3</sup>	-	ND (DL-5)	ND (DL-5)	ND (DL-5)
	NO <sub>x</sub>		-	44	52	55
	SO <sub>2</sub>		-	5	6	7
	CO		-	ND (DL-1)	7	13
Aug 2024	PM10	mg/Nm <sup>3</sup>	-	ND (DL-5)	ND (DL-5)	ND (DL-5)
	NO <sub>x</sub>		-	44	53	52
	SO <sub>2</sub>		-	5	7	8
	CO		-	ND (DL-1)	7	13
Sep 2024	PM10	mg/Nm <sup>3</sup>	-	ND (DL-5)	ND (DL-5)	ND (DL-5)
	NO <sub>x</sub>		-	60	70	64
	SO <sub>2</sub>		-	7	6	6
	CO		-	ND (DL-1)	8	14
Average	PM10	mg/Nm <sup>3</sup>	-	ND (DL-5)	ND (DL-5)	ND (DL-5)
	NO <sub>x</sub>		-	52.33	61.66	59.50
	SO <sub>2</sub>		-	6.16	6.00	6.16
	CO		-	ND (DL-1)	7.83	12.66

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Env. STATEMENT for CTO Compliance for the period April 2024 – September 2024 for Ammonia –Urea (2200 MTPD & 3850 MTPD) plant of HURL at Barauni

**HURL BARAUNI, Flue Gas Monitoring Data Average Result (April 2024 to September 2024)**

(Results are expressed in mg/l, unless otherwise stated)

Month	Parameters		NAAQS	Prill Tower
			Standards	
April 2024	PM10	mg/Nm <sup>3</sup>	-	33
	NH <sub>3</sub>		-	44
May 2024	PM10	mg/Nm <sup>3</sup>	-	39
	NH <sub>3</sub>		-	42
June 2024	PM10	mg/Nm <sup>3</sup>	-	46
	NH <sub>3</sub>		-	52
July 2024	PM10	mg/Nm <sup>3</sup>	-	43
	NH <sub>3</sub>		-	52
Aug 2024	PM10	mg/Nm <sup>3</sup>	-	43
	NH <sub>3</sub>		-	53
Sep 2024	PM10	mg/Nm <sup>3</sup>	-	33
	NH <sub>3</sub>		-	44
Average	PM10	mg/Nm <sup>3</sup>	-	39.50
	NH <sub>3</sub>		-	47.83

  
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बेगूसराय वन प्रमंडल, बेगूसराय  
अक्टूबर, 23 के आधार पर उत्तरजीविता प्रतिवेदन  
HURL योजना

क्र०	प्रमंडल का नाम	जिला का नाम	योजना का नाम / निधि का नाम	वृक्षारोपण स्थल का नाम	वृक्षारोपण वर्ष	क्षेत्रफल (हे० मी०) लम्बाई (कि०मी० मी०)	रोपित वीधों की संख्या	उत्तरजीविता पौधों की संख्या (अक्टूबर, 2023)	उत्तरजीविता प्रतिशत (अक्टूबर, 2023)	अभियुक्ति।
1	2	3	4	5	6	7	8	9	10	11

## HURL योजना

1	बेगूसराय	बेगूसराय	HURL योजना	जानीपुर ढाला से साहेबपुरकमाल तक (डाउन साईड)	2022-23	7	5000	4654	93.08	
2				रेलवे साहेबपुरकमाल से चौकी ढाला (डाउन साईट)		4	5500	4980	90.55	
3				रेलवे चौकी ढाला से उमेश नगर (दोनों साईड)		4	9500	9082	95.60	
4				रेलवे शाहपुर ढाला से सुरदासा ढाला (अप साईड)		5	5000	4672	93.44	
HURL योजना का कुल :-						20	25000	23388	93.55	

  
वन प्रमंडल पदाधिकारी,  
बेगूसराय वन प्रमंडल, बेगूसराय।

  
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Project Office-Urvarak Nagar, Barauni

**Your (Half Yearly Compliance Report) has been Submitted with following details**

<b>Proposal No</b>	IA/BR/IND2/61377/2016
<b>Compliance ID</b>	113027057
<b>Compliance Number(For Tracking)</b>	EC/M/COMPLIANCE/113027057/2024
<b>Reporting Year</b>	2024
<b>Reporting Period</b>	01 Dec(01 Apr - 30 Sep)
<b>Submission Date</b>	30-11-2024
<b>RO/SRO Name</b>	ARTATRANA MISHRA
<b>RO/SRO Email</b>	jhk109@ifs.nic.in
<b>State</b>	BIHAR
<b>RO/SRO Office Address</b>	Integrated Regional Offices, Ranchi

**Note:-** SMS and E-Mail has been sent to ARTATRANA MISHRA, BIHAR with Notification to Project Proponent.



## Half Yearly Compliance Report

2024

01 Dec(01 Apr - 30 Sep)

### Acknowledgement

<b>Proposal Name</b>		Ammonia Urea Fertilizer project at Barauni	
<b>Name of Entity / Corporate Office</b>		HINDUSTAN URVARAK AND RASAYAN LIMITED	
<b>Village(s)</b>		N/A	
<b>District</b>		BEGUSARAI	
<b>Proposal No.</b>	IA/BR/IND2/61377/2016	<b>Category</b>	Industrial Projects - 2
<b>Plot / Survey / Khasra No.</b>	N/A	<b>Sub-District</b>	N/A
<b>State</b>	BIHAR	<b>Entity's PAN</b>	*****9368N
<b>MoEF File No.</b>	J-11011/371/2016-IA II (I)	<b>Entity name as per PAN</b>	HINDUSTAN URVARAK & RASAYAN LIMITED

### Compliance Reporting Details

**Reporting Year**                      2024

**Remarks (if any)**

**Reporting Period**                      01 Dec(01 Apr - 30 Sep)

### Details of Production and Project Area

**Name of Entity / Corporate Office**                      HINDUSTAN URVARAK AND RASAYAN LIMITED

	Project Area as per EC Granted	Actual Project Area in Possession
Private	480	350
Revenue Land	0	0
Forest	0	0
Others	0	0
<b>Total</b>	<b>480</b>	<b>350</b>

### Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Urea	Others:MTPD	N/A	3850	1057228 MT	
2	Ammonia	Others:MTPD	N/A	2200	599614 MT	

### Conditions

**Specific Conditions**

Sr.No.	Condition Type	Condition Details
1	Statutory compliance	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
<b>PPs Submission: Complied</b> Regular health check-up/monitoring of the commissioning/operation workers are being done and records have been maintained for the same. All the workers are ensured to be equipped with PPEs such as helmets, hand gloves, boots etc. before entering into plant site.		Date: 29/11/2024
2	Risk Mitigation and Disaster Management	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms.
<b>PPs Submission: Complied</b> Plant is equipped with adequate measures for control of failures/ hazards. Firefighting facilities are implemented as per norms.		Date: 29/11/2024
3	MISCELLANEOUS	A regular environment manager having post graduate qualification in environmental sciences/ environmental engineering to be appointed for looking after the environmental management activities of the proposed plant.
<b>PPs Submission: Complied</b> The environmental management activities of the plant are being looked after by a permanent Manager level officer Mr. Srinu Pitta. Environmental Monitoring work has been outsourced to an external agency.		Date: 29/11/2024
4	MISCELLANEOUS	Storage of hazardous raw material shall not exceed more than 7 days.
<b>PPs Submission: Complied</b> Storage of raw materials addressed in the Feasibility Report and EIA (HAZID and ENVID) report of the Project, being complied with the stated condition.		Date: 29/11/2024
5	Statutory compliance	Urea dust shall be controlled by prescribed standard technique.
<b>PPs Submission: Complied</b> This is addressed while designing the prilling tower w.r.t height of UPT, gas sensors, manual PM monitoring etc. to control emission of urea dust and subsequent loss/ environmental pollution. The urea dust concentration is less than 50 mg/Nm <sup>3</sup> or below 0.5 Kg/MT of urea produced. Following control measures adopted to ensure the above concentration: Provided adequate free fall height Maintaining the moisture content in the melt below 0.5 percentage to increase prill strength. Prilling Tower of special design installed to maintain uniform and low velocity profile of cooling air. The louvers of the prilling tower designed in such a way that the air entering the louvers located in the bottom of PT shall generate low velocity cooled air. Maintaining optimum melt temperature Use of special design prilling buckets, etc. Besides above, all safety valves exhaust, which operates during occasional upsets, connected to Blow-down Stacks and the inerts shall be vented through 93-m high Vent Stacks.		Date: 29/11/2024
6	Statutory compliance	In Urea Plant, particulate emissions shall not exceed 50 mg/Nm <sup>3</sup> , Monitoring of Prilling Tower shall be carried out as per CPCB guidelines.
<b>PPs Submission: Complied</b> Particulate Emissions are within the 50 mg/Nm <sup>3</sup> . Urea Prilling tower Emissions are being monitored as per the CPCB Guidelines. Emission Monitoring report attached as Annexure-I.		Date: 29/11/2024
7	Statutory compliance	Continuous online (24x7) monitoring system for emissions and effluent generation shall be installed for flow/discharge measurement

		and the pollutants concentration within the plant. Data shall be uploaded on company's website and provided to the respective RO of MoEF&CC, CPCB and SPCB.
		<p><b>PPs Submission:</b> Complied</p> <p>Continuous online(24x7) monitoring system for stacks emissions has been installed at site. Its Connectivity with CPCB server completed. Manual display board for environment data (EC required data) display has been installed and data is being updated regularly.</p> <p style="text-align: right;">Date: 29/11/2024</p>
8	MISCELLANEOUS	Emissions limits for the pollutants from the DG sets and the stack height, shall be in conformity with the extant statutory regulations and/or the CPCB guidelines in this regard.
		<p><b>PPs Submission:</b> Complied</p> <p>Diesel Generator Sets are being used only in case of total Power Failure for safe shutdown of the Plants. Normally, the plant Complex Power requirement is being met from NBPDC and Natural Gas based HURL own Captive Power Generation (2 Gas Turbines). Adequate stack height provided to ensure the statutory regulations and guidelines.</p> <p style="text-align: right;">Date: 29/11/2024</p>
9	AIR QUALITY MONITORING AND PRESERVATION	To control source emissions, scrubber and/or other suitable pollution control device shall be installed to meet the prescribed Particulate Matter emission norms of 50 mg/Nm <sup>3</sup> , and also the NAAQS.
		<p><b>PPs Submission:</b> Complied</p> <p>This has been addressed in the Feasibility Report of the project during design stage of the plant itself and complied. Design considerations include scrubbers, adequate height of prilling tower and other gas sensors/control measures in the plant to meet emission norms as per NAAQS. AAQ analysis report is attached as Annexure-I</p> <p style="text-align: right;">Date: 29/11/2024</p>
10	WATER QUALITY MONITORING AND PRESERVATION	Fresh water requirement shall not exceed 5.36 cum/ton of Urea production. Fresh water shall be sourced from River Ganga only after the required permission from the concerned authority. During construction phase, ground water may be used after prior permission in this regard from the concerned regulatory authority.
		<p><b>PPs Submission:</b> Complied</p> <p>Fresh water supply is sourced from river Ganga. Requisite NOC has been accorded by Central Water Commission (CWC). However, it is ensured that the fresh water requirement does not exceed 5.36 cum/ton of Urea production.</p> <p style="text-align: right;">Date: 29/11/2024</p>
11	WATER QUALITY MONITORING AND PRESERVATION	As already committed by the project proponent, no waste/treated water shall be discharged outside to ensure ZLD. The effluent discharge, if any, shall meet the standards for 'Nitrogenous Fertilizer Industry' prescribed under the Environment (Protection) Rules, 1986.
		<p><b>PPs Submission:</b> Complied</p> <p>ZLD plant is commissioned on 12.05.2024 and currently in operation. As the Project is based on Zero liquid discharge concept entire wastewater generated will be treated upto tertiary level in ETP and reusing in process.</p> <p style="text-align: right;">Date: 29/11/2024</p>
12	GREENBELT	The project proponent shall develop greenbelt in an area of 33% i.e., nearly 116 acres out of 350 acres of plant area of the project. The green belt of 30 m width around periphery shall be provided.
		<p><b>PPs Submission:</b> Agreed to Comply</p> <p>MOU made DFO Begusarai for plantation within the plant premises, approximately 41.30 acres of land has been designated for the creation of a green belt, out of a total area of approximately 116 acres. This plantation work expected to complete before monsoon season.</p> <p style="text-align: right;">Date: 29/11/2024</p>

13	Corporate Environmental Responsibility	5000 trees per year in 5 years shall be planted in nearby villages with the consultation of the villagers. Survival rate of plants shall be reported to RO, MoEF & CC in 6 monthly compliance report.	
<b>PPs Submission:</b> Complied Plantation work is awarded to State Forest dept on depositary work basis. 25000 plats planted by State Forest dept. (DFO Begusarai) in FY 2022-23 and survival rate of plants in Oct 2023 attached as Annexure-II			Date: 29/11/2024
14	PUBLIC HEARING	All the commitments made during the Public Hearing/ Public Consultation meeting held on 29th April, 2017 shall be satisfactorily implemented and adequate budget provision shall be made accordingly.	
<b>PPs Submission:</b> Agreed to Comply All the commitments made during Public Hearing/Public Consultation meeting held on 27th April, 2017 are being complied for which adequate budget was considered in the project cost.			Date: 29/11/2024
15	Corporate Environmental Responsibility	At least 2.5 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment (ESC) based on local needs and action plan with financial and physical breakup/details shall be prepared and submitted to the Ministry's Regional Office at Ranchi. Implementation of such program shall be ensured accordingly in a time bound manner.	
<b>PPs Submission:</b> Agreed to Comply The Enterprise Social Commitment (ESC) will be implemented according to the specified conditions outlined by the Project. HURL is responsible for developing a detailed action plan and budget. Currently, HURL management is reviewing a proposal titled "Improvement/Augmentation of Education and Related Infrastructure" for selected Government Schools in Barauni, Begusarai district, under the Corporate Environmental Responsibility (CER) initiative. The site-level committee has recommended an estimated cost of Rs. 20,92,56892/- (Rupees twenty crores ninety-two lakhs fifty-six thousand eight hundred ninety-one only) for this project, which is under review and consideration.			Date: 29/11/2024
16	Statutory compliance	The levels of PM10 (Urea dust), SO <sub>2</sub> , NO <sub>x</sub> , Ammonia, Ozone and HC shall be monitored in the ambient air and displayed at a convenient location near the main gate of the company and at important public places. The company shall upload the results of monitored data on its website and shall update the same periodically. It shall simultaneously be sent to the Regional office of MoEF&CC, the respective Zonal office of CPCB and the SPCB.	
<b>PPs Submission:</b> Complied The levels of PM10 (Urea dust), SO <sub>x</sub> , NO <sub>x</sub> , Ammonia, Ozone and HC in the ambient air are being monitored since the construction phase by external agencies, having CPCB recognized laboratories. (Monitoring Report for April 2024 to September 2024 attached as Annexure- I). Monitoring data is updated manually at outside of Plant Gate. Six monthly compliance reports with monitoring results are uploaded on HURLs website and its regular updating is done periodically. Simultaneously, every six-monthly compliance report is also being sent to the Regional office of MoEF and CC, the respective Zonal office of MoEF and CC and BSPCB as per stated condition.			Date: 29/11/2024
17	AIR QUALITY MONITORING AND PRESERVATION	In plant, control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fugitive emissions shall be controlled by providing closed storage, closed handling & conveyance of chemicals / materials, multi cyclone separator and water sprinkling system. Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored. The emissions shall conform to the limits stipulated by the SPCB.	

<p><b>PPs Submission:</b> Complied</p> <p>The water sprinkling is being done on regular basis for dust suppression in and around site. Air Quality is being monitored in work zone environment as per monitoring plan for assessment of pollution level during the operation phase (Annexure-I). The technology has inherent design features for minimum gaseous emissions. Gaseous raw materials, Liquid product, gaseous product, urea product and chemicals are handled in the closed system. Fugitive emission surveys are carried out to monitor emission in the work zone environment, product area etc. and are regularly monitored. Fugitive emissions monitored confirm the emission limits stipulated by as per SPCB norms.</p>		<p>Date: 29/11/2024</p>
18	WASTE MANAGEMENT	<p>The company shall obtain Authorization for collection, storage and disposal of hazardous waste under the Hazardous waste "(Management, Handling and Trans-Boundary Movement) Rules, 2016 and amended as on date for management of Hazardous wastes. Measures shall be taken for fire 'fighting facilities in case of emergency.</p>
<p><b>PPs Submission:</b> Complied</p> <p>Authorization has been obtained from BSPCB for Authorization for collection, storage and disposal of hazardous waste under the Hazardous and other Waste (Management, Handling and Trans-Boundary Movement) Rules, 2016. Adequate fire-fighting facilities have been provided and maintained for meeting the emergencies. (Authorization no. HW/B-1934 patna-10 dated 20.07.2022)</p>		<p>Date: 29/11/2024</p>
19	MISCELLANEOUS	<p>Provision shall be made for the housing for the construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile sewage treatment plant, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structure to be removed after the completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment.</p>
<p><b>PPs Submission:</b> Complied</p> <p>The plant is at the operation stage. However, all necessary compliances were ensured during the construction phase. Majority of the construction wastes have been removed in an environmentally friendly manner.</p>		<p>Date: 29/11/2024</p>
<p><b>General Conditions</b></p>		
Sr.No.	Condition Type	Condition Details
1	Statutory compliance	<p>The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF&amp;CC by-mail.</p>
<p><b>PPs Submission:</b> Complied</p> <p>The environmental statement for the financial year ending 31st march 2024 in Form-V submitted and uploaded the same on Companys website.</p>		<p>Date: 29/11/2024</p>
2	Statutory compliance	<p>The project authorities shall strictly adhere to the stipulations made by the State Pollution Control Board (SPCB), State Government and any other statutory authority.</p>
<p><b>PPs Submission:</b> Complied</p> <p>It is being complied regularly.</p>		<p>Date: 29/11/2024</p>

3	MISCELLANEOUS	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
<b>PPs Submission:</b> Complied Noted, there is no further expansion or modifications in the plant is envisaged at this stage. However, as and when required, a fresh reference shall be made to the MoEF and CC, Gov. of India.		Date: 29/11/2024
4	AIR QUALITY MONITORING AND PRESERVATION	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.
<b>PPs Submission:</b> Complied The locations of ambient air quality monitoring have been decided in consultation with the Bihar State Pollution Control Board (BSPCB) and HURL officials for monitoring of Air Quality during construction /commissioning phase. 06 Nos. of AAQMS have been installed in the project area, out of which one station is selected in up-wind (East) and one station is selected in down-wind (West) directions.		Date: 29/11/2024
5	AIR QUALITY MONITORING AND PRESERVATION	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 18th November, 2009 shall be followed.
<b>PPs Submission:</b> Complied Being Complied.		Date: 29/11/2024
6	Noise Monitoring & Prevention	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
<b>PPs Submission:</b> Complied The noise levels are maintained within the standard prescribed limits by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. (Data attached as Annexure-1)		Date: 29/11/2024
7	WATER QUALITY MONITORING AND PRESERVATION	The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.
<b>PPs Submission:</b> Complied Rain water harvesting system is provided to collect water from all the plant buildings viz. admin, control rooms and laboratory as well as surface run off to ensure effective rain water harvesting and subsequent ground water recharge. As per envisaged plan, buildings like control room, operator room, maintenance building, canteen, laboratory building etc. will be having rain water harvesting facility. These are completed.		Date: 29/11/2024
8	Human Health Environment	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.



<p><b>PPs Submission: Complied</b> All Employees are imparted training on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees is being undertaken on regular basis.</p>		<p>Date: 29/11/2024</p>
9	PUBLIC HEARING	<p>The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing shall be implemented.</p>
<p><b>PPs Submission: Complied</b> This condition will be complied in totality as stated. HURL has taken care of compliance with all the pollution control measured at every single step wherever suggested/possible at design stage itself. This includes provision of suitable UPT, scrubbers, stacks, ETP with ZLD, equipments with acoustic enclosures, development of green belt/ green cover, rain water harvesting system etc. The effective implementation of all env. Pollution control measures being ensured in operational phase.</p>		<p>Date: 29/11/2024</p>
10	Human Health Environment	<p>The company shall undertake all relevant measures for improving the socioeconomic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.</p>
<p><b>PPs Submission: Agreed to Comply</b> CSR activities are being undertaken as and when applicable. However, some initiatives are under implementation as well as under consideration aimed at improving the socio-economic conditions of the surrounding area, as part of fulfilment of the obligations under ESC/ PH issues. The various activities are being initiated through CIPET and other imparted agencies.</p>		<p>Date: 29/11/2024</p>
11	Statutory compliance	<p>The project proponent shall inform the public that the project has been accorded' environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at <a href="http://moef.nic.in">http://moef.nic.in</a>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.</p>
<p><b>PPs Submission: Complied</b> Complied</p>		<p>Date: 29/11/2024</p>
12	Corporate Environmental Responsibility	<p>The company shall undertake all eco-developmental measures including community welfare measures for overall improvement of the environment.</p>
<p><b>PPs Submission: Agreed to Comply</b> All eco-developmental measures including community welfare measures for overall improvement of the environment will be undertaken by involving local villages and administration as per rule and Government guidelines. MoU made with CIPET.</p>		<p>Date: 29/11/2024</p>
13	MISCELLANEOUS	<p>A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.</p>
<p><b>PPs Submission: Being Complied</b> The EC conditions relating to establishment of Environmental Cell have been complied with and the following arrangement for environment cell is in place. 1) Mr. Srinu Pitta, Manager (Env. and QC) reports to Shri. Sanjai Kumar Gupta, HURL Barauni Project Head 2) Mr. Divyanshu Trivedi, AM (Env. and QC) Full-fledged laboratory facilities are to be established to carry out the Environmental</p>		<p>Date: 29/11/2024</p>

Management and Monitoring functions. Which is currently done by 3rd party agency.

14	Corporate Environmental Responsibility	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management pollution control measures shall not be diverted for any other purpose.
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<b>PPs Submission:</b> Complied Being Complied.	Date: 29/11/2024
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15	Statutory compliance	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions, representations, if any, were received while processing the proposal.
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<b>PPs Submission:</b> Complied Complied.	Date: 29/11/2024
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16	Statutory compliance	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by-mail) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six-monthly compliance status reports shall be posted on the website of the company.
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<b>PPs Submission:</b> Complied Being Complied. Regularly six-monthly compliance report is being submitted to MOEF and CC zonal office (both in hard copies as well as by-mail) and posted on the website of the company.	Date: 29/11/2024
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17	MISCELLANEOUS	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.
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<b>PPs Submission:</b> Complied Complied	Date: 29/11/2024
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### Visit Remarks

**Last Site Visit Report Date:** N/A

**Additional Remarks:**

**Note:** This acknowledgement is as per the details submitted by project proponent. In no way is this document to be considered as conclusion on any action on the compliance of the project. This is strictly for the project proponent's reference purpose.

