



हिन्दुस्तान उर्वरक एवं रसायन लिमिटेड, गोरखपुर HINDUSTAN URVARAK & RASAYAN LTD., GORAKHPUR

(A Joint Venture of NTPC, CIL, IOCL, FCIL & HFCL)

कार्यालय : प्रशासनिक भवन, एच.यू.आर.एल कैंपस, फर्टिलाइजर, गोरखपुर-273 007 उ.प्र. भारत, दूरभाष : 0551-2261177
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Ref. No.: HURL/GKP/23-24/ 01

22th May 2023

Ministry of Environment, Forest & Climate Change
Integrated Regional Office, Lucknow
Kendriya Bhawan, 5th Floor, Sector-H, Aliganj
Lucknow-226024

Kind Attention: Dr. A. K. Gupta, Additional Director

Subject: Compliance Report for the period from April 2022 to September 2022 of M/s Hindustan Urvarak & Rasayan Limited (HURL)-Ammonia (2200 MTPD) & Urea (3850 MTPD) Fertilizer Project at Gorakhpur, Uttar Pradesh, U.P.

Ref:(i) MoEF&CC, Environmental Clearance Letter No. J-11011/166/2016-IA II (I) dated 31.07.2017.

Dear Sir,

With reference to the subject, please find attached herewith the compliance report for the period October, 2022 to March 2023.

Best regards.

for Hindustan Urvarak and Rasayan Limited

Sanjai Kumar Gupta
Vice President- Technical



COMPLIANCE REPORT

(MoEF & CC File No. J-11011/166/2016-IA II (I) dated 31/07/2017)

For the period

OCTOBER, 2022 TO MARCH, 2023

Submitted

TO

MoEF & CC, Regional Office (ECZ), Lucknow

AMMONIA UREA FERTILIZER PLANT

(2200 MTPD Ammonia & 3850 MTPD Urea)

GORAKHPUR

May, 2023



हिंदुस्तान उर्वरक एवं रसायन लिमिटेड
HINDUSTAN URVARAK & RASAYAN LTD.
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COMPLIANCE OF EC CONDITIONS FOR THE PERIOD October, 2022 to March 2023

Sl. No.	EC Conditions	Compliance status
(A) SPECIFIC CONDITIONS		
1	Emissions-limits for the pollutants from the Diesel Generator Sets and the stack height shall be in conformity with the extant statutory regulations and/or the CPCB guidelines in this regard.	Diesel Generator Sets (EDG) were used only during emergencies. Normally EDG will remain in standby condition / non-working mode. Emissions-limits for the pollutants from the Diesel Generator sets and the stack height are as per statutory guidelines. This point is Compliance and closed.
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 ³ , and also the NATIONAL AMBIENT AIR QUALITY STANDARDS.	Pollution control devices are installed to control the particulate matter emissions within the norms. The AAQ analysis is attached for ready reference in Annexure 1.
3	Fresh water requirement shall not exceed 5.36 cum/ton of Urea production. Fresh water for plant operation shall be sourced only from Chilwa Tal.	HURL has made an agreement with the Nagar Nigam of Gorakhpur for consumption of water from the Chilwa Tal for process utility. Fresh water Consumption is within limits. Please refer to Annexure 2.
4	Plantation shall be carried out around the Chilwa Tal.	Digging work completed. Land filling and levelling work around Chilwa Tal is under progress and expected Date of Completion of this work is July 2023. This is important for development of good routing conditions for the planting, including a sufficient volume of routable soil is required. After that plantation shall be carried out in consultation with the district forest department by selecting the local Plant species which flourish in the area's climate & supports maximum biodiversity in the environment.
5	As already committed by the project proponent, no waste/treated water shall be discharged outside to ensure ZLD. Water consumption shall be reduced by adopting 3 R's (Reduce, Reuse & Recycle) concept in the process.	The Project is based on Zero Liquid Discharge concept adopting 3R's. Reverse Osmosis Plant (RO Plant) is running normally. Treated water of RO plant is used in Raw water treatment plant.
6	Industry shall develop Greenbelt with 10 m width along the plant periphery with three layers of perennial native plant species. 33% of the total project cover area i.e. nearly 130 acres out of 350 acres of area of the Project, shall be developed as green area with plantation of native perennial trees.	1 st phase of planting 5000 trees was completed. (photographs are attached as Annexure 3) For the starting of II nd Phase 17500 trees plantation tendering is in progress. A Purchase Requisition copies attached Annexure 4
7	A plan shall be prepared and implemented for the conservation of Chilwa Tal giving special emphasis on protection of conservation of its natural recharge channels	Water from Chilwa Tal is the only source of freshwater. HURL has taken up a project of deepening and dredging of Chilwa Taal for increase in the water storage capacity so as to meet the plant's requirement. The dredging work completed and material is used for land filling in the nearby locality of Chilwa Taal. This point is Compliance and closed.
8	All the commitments made during Public Hearing/Public Consultation meeting held on 24 th April, 2017 shall be satisfactorily implemented and adequate budget provision should be made accordingly.	All the commitments made during the Public Hearing/Public Consultation meeting held on 24 th April 2017 are in progress. The budget for the same is allocated according to the requirement. For the skill development programme, land is identified

Sl. No.	EC Conditions	Compliance status
9	<p>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 Lucknow. Implementation of such program shall be ensured accordingly in a time bound manner within 5 years. The ECS plan will include following activities:</p> <ol style="list-style-type: none"> Up-gradation of existing school with modern education facilities Planting of 5000 trees per year in 5 year in nearby villages in consultation with the local / forest dept. Survival rate of the plants shall be reported to RO, MoEF&CC in 6 monthly compliance report. Conservation plant for shall be continue with. Safe drinking water facility with RO plant in villages located within 3 Km radius of the plant with maintenance cost. 	<p>The ESC program is being carried out and an adequate budget is provided from the Project in a phase-wise manner. Detailed status along with the budget spent will be sent to the Ministry's regional office.</p> <p>The following activities are in progress:</p> <p>1-Installation of RO plant water purifier in nearby Villages (Schools) Work awarded to M/s Oxybee Solutions Pvt. Ltd. All 12 ROs machines were installed in July 2022. Work completion certificate issued by BSA Gorakhpur dated 02nd July 2022.</p> <p>2-Development of a Model village at Sonbarsa, Gorakhpur. MoU signed between GDA & HURL. Work awarded to M/S Arunima Construction and M/S H.S. Construction. Project work started on the 1st week of Nov 2022. Project Cost's 12.3 Crore. The expected date of completion will be November 2023</p> <p>3-Installation of Oxygen Plant at Harnahi & Campiarganj CHC's. Installation of the Oxygen plant completed and handed over to the respective CHCs in charge. Project Cost .72 Crore.</p> <p>4-Creation of Health Infrastructure Paediatric Intensive Care Unit-PICU at 17 CHCs. MoU signed between GDA & HURL. Work awarded to M/S Harsh Enterprises. Project implementation started in the 3rd week of Nov 2022. In the first phase implementation was completed at 02 CHC'S Jangal Kauria & Khuthan Chargawan. Both CHCs were inaugurated by Hon'ble CM Uttar Pradesh and handed over to respective CHC management Project Cost 24.05 Crore. The expected date of completing the rest of the 12 CHCs will be November 2023</p> <p>5-Development of Ramgarh Taal- Facelift and Placemaking, District Gorakhpur. MoU signed between GDA & HURL.LOA awarded to PMC. Implementing Agency is selected through the tendering process. Work order issued to M/S Universal Electrical and Smt. Reena Singh. A total of 95% work was completed by the end of December 22. Only HURL Branding and Placemaking components are remaining. Till the end of this current quarter, the remaining components will also be get completed. Project Cost 3.5 Crore.</p>
10	<p>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.</p>	<p>The EC conditions are relating to establishment of an Environmental Cell operational as Environment & quality Control department.</p> <p>A regular Environment and Quality Control Manager having Ph.D. qualification has been appointed to look after the activities of the proposed plant</p> <p>This point is compliance and closed.</p>
11	<p>Continuous online (24 X 7) 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</p>	<p>The installation of the continuous monitoring system was done according to the CPCB guidelines. Plant data is uploaded on the website and can be viewed by the respective RO of MoEF & CC, CPCB and SPCB.</p> <p>This point is compliance and closed.</p>

Sl. No.	EC Conditions	Compliance status
	website and provided to the respective RO of MoEF& CC, CPCB and SPCB.	
12	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. The ammonia storage shall be limited to 2 days.	This has been addressed in the Detailed Project Report and RRA conducted for the Project Firefighting system has been installed in the entire complex and is in operation. In addition, 03 Nos of fire tenders have been stationed at the plant complex to meet any exigency.
13	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Regular health check-up/monitoring of the operational labourers is being done as per the schedule and records are being maintained for the same. All the workers are ensured to be equipped with PPEs such as helmets, hand gloves, boots etc. before entering the plant.
14	Storage of hazardous raw material shall not exceed more than 7 days.	Complied with. Authorization obtained from UPPCB on dated 09/09/2021, for hazardous waste under Hazardous Waste Management Rules. Ref No 14826/UPPCB/Gorakhpur/(UPPCBRO)/HWM/GORAKHPUR/2021. As on 31 March, 2023, no Hazardous raw material is being stored. Annual Return in Form IV will be submitted along with the compliance of condition mentioned in HW Authorization issued. This point complies and closed.
15	Urea dust shall be controlled by prescribed standard technique.	Complied with. Cyclone separators are installed for controlling urea dust. Height of the Prilling tower is 149.2 meters. It is quite high enough to control dust emission.
B	GENERAL CONDITIONS	
i)	The Project authorities shall strictly adhere to the stipulations made by the State Pollution Control Board (SPCB), State Government and any other statutory authority.	HURL complies with the conditions laid by UPPCB, UP State Government and any other statutory authority.
ii)	No further expansion or modifications in the Plant shall be carried out without prior approval of the MoEF&CC. In case of deviations or alterations in the project proposal from those submitted to MoEF&CC 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.	This condition will be complied with as stated.
iii)	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.	The locations of ambient air quality monitoring have been decided in consultation with the UP-State Pollution Control Board (UPPCB) and HURL officials for monitoring of Air Quality Monitoring. 6Nos. of AAQMS have been installed in the project area out of which two stations are selected in up-wind and two stations are selected in down-wind directions.
iv)	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R.	All efforts are being made to contain the fugitive dust emission within the standard limits.

As per 5

Sl. No.	EC Conditions	Compliance status
	No. 826(E) dated is November, 2009 shall be followed.	
v)	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).	All efforts are being made to contain the noise levels within the standard limits at the plant round the clock. All equipment deployed at site are ensured to have acoustic hoods and silencers/enclosures on sources of noise generation. The workers at site are equipped with ear muffs.
vi)	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.	This condition has been complied during the designing of the buildings and a rainwater harvesting system has been placed. This point is compiled and closed.
vii)	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. Training record are attached as Annexure 5
viii)	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 be implemented.	This condition will be complied in totality as stated.
ix)	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.	CSR activities will be undertaken by involving local villages and administration as per the extant Government guidelines. Currently said activities are being taken up with CER Funds.
x)	The company shall undertake all eco-developmental measures including community welfare measures for overall improvement of the environment.	This will be undertaken by involving local villages and administration as per rules and Government guidelines. Currently said activities are being taken up with CER Funds.
xi)	A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	A separate Environmental Management Cell equipped with full-fledged laboratory facilities are fully functional and started Environmental Management and Monitoring functions.
xii)	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. (xiii) A copy	This stated condition will be complied by HURL.

Sl. No.	EC Conditions	Compliance status
	of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions, representations, if any, were received while processing the proposal.	
xiii)	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parishad /Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions, representations, if any, were received while processing the proposal.	A copy of the clearance letter along with the amendment letter sent to the local Panchayat and Gorakhpur Municipal Corporation Apart from this, the copy of Environment Clearance letter issued by MoEF&CC have been uploaded to company website www.hurl.net.in and also advertised in the local editions of English and Hindi newspapers for reference of everyone.
xiv)	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 Environmental Clearance and six-monthly compliance status reports shall be posted on the website of the company.	Complied.
xv)	The environmental statement for each financial year ending 31 st 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.	The Environment Statement for the financial year ending 31 st March ,2023 in Form-V submitted on time. Copy of the latest Environmental Statement is attached in Annexure 6 for reference.
xvi)	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 http://moef.nic.in . 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.	This point is in compliance and closed.
xvii)	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.	Date of start of project :27 Feb 2018 The date of financial closure is 20.09.2018. COD of the Gorakhpur Project is declared on 03.05.2022.

Annex 2 7

Compliance of EC conditions for the period October 2022 - March 2023 for proposed Ammonia - Urea (2200MTPD & 3850 MTPD) plants of HURL at Gorakhpur

Annexure - I

This Compliance Report is the fulfillments of the condition of the Environmental Clearance (EC) vide File No.EC [IA/UP/IND2/54269/2016, J - 11011/166/2016- IA II (I)] for the period of October 2022 to March 2023. This report has been prepared by Projects and Development India Limited (PDIL) 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 PDIL, Noida under the strict supervision of the Government Analysts.

The project is located at Gorakhpur and was commissioned on 07th December 2021 with the capacity of 2200MTPD Ammonia and 3850MTPD Urea in the District Gorakhpur in the state of Uttar Pradesh. The commercial production has started from 02nd May 2022. The area falls in the agricultural belt of the Uttar Pradesh.

The compliance report fulfills the 15 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 green belt proposed by MoEF&CC is under review for selection of suitable plant species in consultation with local experts of the area.

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, PM_{2.5}, NO_x, SO₂, 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 nos. of chemical parameters, nine nos. of Heavy metals and three nos. 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.

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 October 2022 to March 2023.



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Compliance of EC conditions for the period October 2022 - March 2023 for proposed Ammonia - Urea (2200MTPD & 3850 MTPD) plants of HURL at Gorakhpur

HURL GORAKHPUR, AIR QUALITY DATA – (October 2022 to March 2023)

MONTH	Parameters		NAAQS	HURL Plant (SA1)	HURL Admin Building (SA2)	HURL Quarter No B - 28 (SA3)	HURL residence Quarter No D- 186 (SA4)	Kamaha Village (SA5)	Bargadwah (SA6)
			Standards						
Oct-22	PM10	($\mu\text{g}/\text{m}^3$)	100	93.9	96.5	88.2	88.7	81.6	104.4
	PM2.5		60	50.5	50.4	46.6	46.4	45.9	56.9
	SO2		80	16	16.5	14.7	12.6	10.2	24.2
	NOX		80	24.9	25.4	19.7	18.6	13.9	30.5
	C6H6		5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	BAP	(ng/m^3)	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	CO	(mg/m^3)	2	0.59	0.57	0.4	0.41	0.39	0.67
	NH3	($\mu\text{g}/\text{m}^3$)	400	BDL	BDL	BDL	BDL	BDL	BDL
	OZONE		180	18.1	18	16	16.5	12.6	19.5
	Ni	(ng/m^3)	20	BDL	BDL	BDL	BDL	BDL	BDL
	As		6	BDL	BDL	BDL	BDL	BDL	BDL
	Lead	($\mu\text{g}/\text{m}^3$)	1	BDL	BDL	BDL	BDL	BDL	BDL
	Nov-22	PM10	($\mu\text{g}/\text{m}^3$)	100	105.2	102.4	86.1	87.7	82.9
PM2.5			60	55.6	52.6	48.1	50.2	44.2	63.4
SO2			80	18.3	17.6	15.6	14.2	10.6	24.5
NOX			80	27.8	26.6	20.9	20.9	14.5	30.6
C6H6			5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BAP		(ng/m^3)	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
CO		(mg/m^3)	2	0.64	0.58	0.42	0.45	0.38	0.62
NH3		($\mu\text{g}/\text{m}^3$)	400	BDL	BDL	BDL	BDL	BDL	BDL
OZONE			180	19.3	18	15.9	17.3	14	20.4
Ni		(ng/m^3)	20	BDL	BDL	BDL	BDL	BDL	BDL
As			6	BDL	BDL	BDL	BDL	BDL	BDL



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Compliance of EC conditions for the period October 2022 - March 2023 for proposed Ammonia - Urea (2200MTPD & 3850 MTPD) plants of HURL at Gorakhpur

	Lead	($\mu\text{g}/\text{m}^3$)	1	BDL	BDL	BDL	BDL	BDL	BDL
Dec-22	PM10	($\mu\text{g}/\text{m}^3$)	100	112.5	109.6	92.2	89.5	82.8	114.1
	PM2.5		60	58.7	55.5	50.7	51.7	43.9	65.3
	SO2		80	19.2	18.5	16.4	14.6	11	25.3
	NOX		80	29.1	27.9	21.9	21.7	15.1	33.7
	CO		5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	BAP	(ng/m^3)	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	CO	(mg/m^3)	2	0.67	0.6	0.44	0.46	0.39	0.64
	NH3	($\mu\text{g}/\text{m}^3$)	400	BDL	BDL	BDL	BDL	BDL	BDL
	OZONE		180	19.5	18.1	16	18.7	15.2	22
	Ni	(ng/m^3)	20	BDL	BDL	BDL	BDL	BDL	BDL
	As		6	BDL	BDL	BDL	BDL	BDL	BDL
	Lead	($\mu\text{g}/\text{m}^3$)	1	BDL	BDL	BDL	BDL	BDL	BDL
Jan-23	PM10	($\mu\text{g}/\text{m}^3$)	100	106.7	105.3	89.3	84	79.3	107.1
	PM2.5		60	53.2	50.7	43.6	41.6	39.9	57.3
	SO2		80	18	18	16	14	10.4	23.8
	NOX		80	25.9	25.2	21.1	18.9	14.3	31
	CO		5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	BAP	(ng/m^3)	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	CO	(mg/m^3)	2	0.63	0.57	0.42	0.44	0.37	0.6
	NH3	($\mu\text{g}/\text{m}^3$)	400	BDL	BDL	BDL	BDL	BDL	BDL
	OZONE		180	18.6	17.3	14.9	17.2	14	20.1
	Ni	(ng/m^3)	20	BDL	BDL	BDL	BDL	BDL	BDL
	As		6	BDL	BDL	BDL	BDL	BDL	BDL
	Lead	($\mu\text{g}/\text{m}^3$)	1	BDL	BDL	BDL	BDL	BDL	BDL
Feb-23	PM10	($\mu\text{g}/\text{m}^3$)	100	99.1	96.3	89.4	85	78.4	104.4
	PM2.5		60	52.3	48.6	41.3	38.3	33.1	53.5
	SO2		80	19.4	18.2	16.6	14.2	10.3	23.1
	NOX		80	26.3	25.2	22.2	19.8	14.4	30



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Compliance of EC conditions for the period October 2022 - March 2023 for proposed Ammonia - Urea (2200MTPD & 3850 MTPD) plants of HURL at Gorakhpur

	C6H6		5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	BAP	(ng/m ³)	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	CO	(mg/m ³)	2	0.65	0.56	0.39	0.39	0.32	0.66
	NH3	(µg/m ³)	400	BDL	BDL	BDL	BDL	BDL	BDL
	OZONE		180	18.1	17.9	15.5	17.5	14.5	21.2
	Ni	(ng/m ³)	20	BDL	BDL	BDL	BDL	BDL	BDL
	As		6	BDL	BDL	BDL	BDL	BDL	BDL
	Lead	(µg/m ³)	1	BDL	BDL	BDL	BDL	BDL	BDL
Mar-23	PM10	(µg/m ³)	100	95.4	94.3	86.3	83.9	76.9	103.2
	PM2.5		60	46.1	43.9	36.8	35.9	31.6	52.8
	SO2		80	18.3	17.8	15.6	13.7	10	22.4
	NOX		80	23.2	22.6	20.7	18.2	14.2	29.7
	C6H6		5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	BAP	(ng/m ³)	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	CO	(mg/m ³)	2	0.61	0.54	0.36	0.36	0.32	0.62
	NH3	(µg/m ³)	400	BDL	BDL	BDL	BDL	BDL	BDL
	OZONE		180	16.8	17.1	14.3	16	14.6	20.2
	Ni	(ng/m ³)	20	BDL	BDL	BDL	BDL	BDL	BDL
	As		6	BDL	BDL	BDL	BDL	BDL	BDL
	Lead	(µg/m ³)	1	BDL	BDL	BDL	BDL	BDL	BDL
AVERAGE	PM10	(µg/m ³)	100	102.13	100.73	88.58	86.47	80.32	107.50
	PM2.5		60	52.73	50.28	44.52	44.02	39.77	58.20
	SO2		80	18.20	17.77	15.82	13.88	10.42	23.88
	NOX		80	26.20	25.48	21.08	19.68	14.40	30.92
	C6H6		5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	BAP	(ng/m ³)	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	CO	(mg/m ³)	2	0.63	0.57	0.41	0.42	0.36	0.64



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Compliance of EC conditions for the period October 2022 - March 2023 for proposed Ammonia - Urea (2200MTPD & 3850 MTPD) plants of HURL at Gorakhpur

NH3	(µg/m ³)	400	BDL	BDL	BDL	BDL	BDL	BDL
OZONE		180	18.40	17.73	15.43	17.20	14.15	20.57
Ni	(ng/m ³)	20	BDL	BDL	BDL	BDL	BDL	BDL
As		6	BDL	BDL	BDL	BDL	BDL	BDL
Lead	(µg/m ³)	1	BDL	BDL	BDL	BDL	BDL	BDL

Ni, As, Pb (µg/m³) = BDL, NH₃ (µg/m³) = BDL, BDL = Below Detection Limit
C₆H₆ & Benzo (a) Pyrene (BAP) = <0.01 µg/m³

HURL GORAKHPUR, NOISE QUALITY DATA – (OCTOBER 22 – MARCH 23)

MONTH	Parameters	Prescribed Limits in db(A) as per NAAQS Ind. / Res Area	HURL Plant (SA1)	HURL Admin Building (SA2)	HURL residence Quarter B-9 (SA3)	HURL residence Quarter E-13 (SA4)	Karmaha Village (SA5)	Bargadwa Village (SA6)
OCT-22	24hrs AvgLeq Value db(A)	-	55.2	55	45.2	43.8	43.3	54.4
	Daytime AvgLeq Value db(A)	75/55/65	56.3	56.2	46.2	44.8	44.2	55.8
	Nighttime AvgLeq Value db(A)	70/45/55	49.9	49.7	41.6	41.1	40.8	48.3
NOV-22	24hrs AvgLeq Value db(A)	-	52.9	53.4	45.7	44.3	44.2	54
	Daytime AvgLeq Value db(A)	75/55/65	54.2	54.1	46.7	45.2	45.1	55.3
	Nighttime AvgLeq Value db(A)	70/45/55	48.1	51.2	42.3	41.8	41.6	49.3
DEC-22	24hrs AvgLeq Value db(A)	-	52.8	53.6	46.1	44.8	45.5	53.4
	Daytime AvgLeq Value db(A)	75/55/65	54.3	54.2	47.2	45.7	46.4	54.5
	Nighttime AvgLeq Value db(A)	70/45/55	47.4	52.5	42.7	42.1	42.4	49.7
JAN-23	24hrs AvgLeq Value db(A)	-	52.9	53.1	46.6	45.2	46.7	53.5
	Daytime AvgLeq Value db(A)	75/55/65	54.2	54.1	47.7	46.1	47.9	54.6
	Nighttime AvgLeq Value db(A)	70/45/55	47.3	50	42.8	42.2	42.9	49.7
FEB-23	24hrs AvgLeq Value db(A)	-	53.4	52.7	46.9	48	45.6	53.5
	Daytime AvgLeq Value db(A)	75/55/65	54.6	54	48.2	49.3	48.6	54.7
	Nighttime AvgLeq Value db(A)	70/45/55	49.4	47.4	42.2	42.5	42.4	49.4
MAR-23	24hrs AvgLeq Value db(A)	-	53.5	52.7	47.4	48.4	46.9	53.6
	Daytime AvgLeq Value db(A)	75/55/65	54.7	54.1	48.7	49.8	48	54.8
	Nighttime AvgLeq Value db(A)	70/45/55	48.6	46.9	42.4	42.6	43.4	49.2
Average	24hrs Avg Leq Value db(A)	-	53.5	53.4	46.3	45.8	45.4	53.7
	Daytime Avg Leq Value db(A)	75/55/65	54.7	54.5	47.5	46.8	46.4	55.0
	Nighttime Avg Leq Value db(A)	70/45/55	48.5	49.6	42.3	42.1	42.3	49.3



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Compliance of EC conditions for the period October 2022 - March 2023 for proposed Ammonia - Urea (2200MTPD & 3850 MTPD) plants of HURL at Gorakhpur

HURL, GORAKHPUR, GROUND WATER QUALITY DATA
AVERAGE RESULTS (OCTOBER 22 TO MARCH 23)
(Results are expressed in mg/l, unless otherwise stated)

Sl. No	Parameters	Average Analysis Results			Requirement (Acceptable) / Permissible Limits (IS:10500:2012)
		Hand Pump Adm. Bldg. (Project Site) (GW1)	Hand Pump Quarter No B-8 (GW2)	Hand Pump Bargadwah (GW3)	
PHYSICAL					
1	pH	7.3	7.3	7.3	6.5-8.5
2	Temperature (°C)	27.4	27.2	27.2	-
3	Colour, HU	<5	<5	<5	5/15
4	Odour	Agreeable	Agreeable	Agreeable	Agreeable
5	Taste	Agreeable	Agreeable	Agreeable	Agreeable
6	Turbidity (NTU)	<5	<5	<5	1/5
7	Total Suspended Solid	31.3	29.7	33.3	-
8	Total Dissolved Solids	303.0	295.3	308.7	500/2000
CHEMICAL					
1	P- Alkalinity as CaCO ₃	NIL	NIL	NIL	-
2	Total Alkalinity as CaCO ₃	185.3	185.3	201.3	200/600
3	Chloride as Cl	33.7	26.0	29.3	250/1000
4	Sulphate as SO ₄	30.0	32.0	24.3	200/400
5	Nitrate as NO ₃	3.4	3.6	3.4	45/NR
6	Fluoride as F	<0.4	<0.4	<0.4	1.0/1.5
7	Total Hardness as CaCO ₃	229.0	197.7	218.0	200/600
8	Ca. Hardness as CaCO ₃	167.3	137.3	175.3	75/200*
9	Mg. Hardness as CaCO ₃	61.7	60.3	42.7	30/100**
10	Sodium as Na	16.3	26.5	23.0	-
11	Potassium as K	2.2	3.5	3.2	-
12	Silica as SiO ₂	13.0	13.0	13.0	-
13	Iron as Fe	0.27	0.20	0.17	0.3/NR
HEAVY METALS					
1	Manganese as Mn	BDL	BDL	BDL	0.1/0.3
2	Total Chromium as Cr	BDL	BDL	BDL	0.05/NR
3	Lead as Pb	BDL	BDL	BDL	0.01/NR
4	Zinc as Zn	0.30	0.30	0.28	5.0/15



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Compliance of EC conditions for the period October 2022 - March 2023 for proposed Ammonia - Urea (2200MTPD & 3850 MTPD) plants of HURL at Gorakhpur

5	Cadmium as Cd	BDL	BDL	BDL	0.003/NR
6	Copper as Cu	BDL	BDL	BDL	0.05/1.5
7	Nickel as Ni	BDL	BDL	BDL	0.02/NR
8	Arsenic as As	BDL	BDL	BDL	0.01/0.05
9	Selenium as Se	BDL	BDL	BDL	0.01/NR
OTHERS					
1	Oil & Grease	BDL	BDL	BDL	0.01/0.03
2	Ph.Compound as C ₆ H ₅ OH	BDL	BDL	BDL	0.001/0.002
3	Coliform (MPN/100ml)	<50	<50	<50	-

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

HURL, GORAKHPUR, SURFACE WATER QUALITY DATA
AVERAGE RESULTS (OCTOBER 22 TO MARCH 23)
(Results are expressed in mg/l, unless otherwise stated)

Sl. No.	Parameters	Rohini River SW1	Dismantled Pump House Chitwa Taal. SW2	Near New Bridge Chitwa Taal SW3	Requirement (Acceptable) / Permissible Limits (IS:10500:2012)
PHYSICAL					
1	Temperature (°C)	26.6	26.6	26.6	-
2	Colour, HU	34	32	33	5/15
3	Turbidity (NTU)	46	44	44	1/5
4	pH	7.3	7.3	7.4	6.5-8.5
5	Total Dissolved Solids	245	249	249	500/2000
6	Suspended Solids	60	61	60	-
CHEMICAL					
1	Total Alkalinity as CaCO ₃	148	150	148	200/600
2	Chloride as Cl	28	30	27	250/1000
3	Sulphate as SO ₄	31	29	33	200/400
4	Nitrate as NO ₃	3.3	3.7	3.7	45/NR
5	Fluoride as F	<0.4	<0.4	<0.4	1.0/1.5
6	Total Hardness as CaCO ₃	168.3	155.7	148.0	200/600
7	Calcium Hardness as CaCO ₃	117.7	104.7	103.0	75/200
8	Magnesium Hardness as CaCO ₃	50.7	51.0	45.0	30/100**
9	Dissolve Oxygen	7.3	7.3	7.1	-



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Compliance of EC conditions for the period October 2022 - March 2023 for proposed Ammonia - Urea (2200MTPD & 3850 MTPD) plants of HURL at Gorakhpur

10	COD	9.5	10.0	9.8	-
11	BOD (5 days at 27°C)	2.7	2.9	3.0	-
12	Sodium as Na	23.7	30.3	33.0	-
13	Potassium as K	3.8	4.0	4.0	-
HEAVY METALS					
1	Iron as Fe	0.08	0.07	0.07	0.3/NR
2	Manganese as Mn	BDL	BDL	BDL	0.1/0.3
3	Total Chromium as Cr	BDL	BDL	BDL	0.05/NR
4	Lead as Pb	BDL	BDL	BDL	0.01/NR
5	Zinc as Zn	0.24	0.24	0.24	5.0/15
6	Cadmium as Cd	BDL	BDL	BDL	0.003/NR
7	Copper as Cu	BDL	BDL	BDL	0.05/1.5
8	Nickel as Ni	BDL	BDL	BDL	0.02/NR
9	Arsenic as As	BDL	BDL	BDL	0.01/0.05
10	Selenium as Se	BDL	BDL	BDL	0.01/NR
OTHERS					
1	Oil & grease	BDL	BDL	BDL	0.01/0.03
2	Phenolic Compound	BDL	BDL	BDL	0.001/0.002
3	Coliform (MPN/100ml)	1257	1077	1223	-

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



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HINDUSTAN URVARAK & RASAYAN LIMITED
(A JV of NTPC, CIL, IOCL, FCIL & HFCL)
Gorakhpur

Month	Source of Pollution	U-IA-301, Prilling Tower	101BL-Reformer Stack		HRSG-Boiler -1		HRSG-Boiler -2		Auxiliary Boiler -3	
	Pollutants	Particulates Matter	SOx	NOx	SOx	NOx	SOx	NOx	SOx	NOx
	Limit	50 mg/Nm ³	50 mg/Nm ³	400 mg/Nm ³	50 mg/Nm ³	100 mg/Nm ³	50 mg/Nm ³	100 mg/Nm ³	50 mg/Nm ³	100 mg/Nm ³
April-22	Observed Value (mg/Nm3)	38.6	ND	81.0	ND	29.0	ND	27.0	ND	25.5
	Variation (%)	-22.8	-	-79.8	-	-71.0	-	-73.0	-	-74.5
May-22	Observed Value (mg/Nm3)	44.2	ND	78.0	ND	28.0	ND	28.0	ND	24.5
	Variation (%)	-11.6	-	-80.5	-	-72.0	-	-72.0	-	-75.5
June-22	Observed Value (mg/Nm3)	44.5	ND	80.0	ND	28.0	ND	30.0	ND	26.0
	Variation (%)	-11.0	-	-80.0	-	-72.0	-	-70.0	-	-74.0
July-22	Observed Value (mg/Nm3)	22.0	ND	81.0	ND	28.0	ND	30.0	ND	26.5
	Variation (%)	-56.0	-	-79.8	-	-72.0	-	-70.0	-	-73.5
August-22	Observed Value (mg/Nm3)	40.0	ND	81.0	ND	22.0	ND	31.0	ND	37.0
	Variation (%)	-20.0	-	-79.8	-	-78.0	-	-69.0	-	-63.0
September-22	Observed Value (mg/Nm3)	37.0	ND	80.0	ND	26.0	ND	30.5	ND	40.0
	Variation (%)	-26.0	-	-80.0	-	-74.0	-	-69.5	-	-60.0
October-22	Observed Value (mg/Nm3)	41.6	ND	85.0	ND	30.0	ND	30	ND	37.0
	Variation (%)	-16.8	-	-78.8	-	-70.0	-	-70.0	-	-63.0
November-22	Observed Value (mg/Nm3)	41.7	ND	77.0	ND	23.5	ND	24	ND	43.5
	Variation (%)	-16.6	-	-80.8	-	-76.5	-	-76.0	-	-56.5
December-22	Observed Value (mg/Nm3)	45.0	ND	96.0	ND	19.0	ND	21	ND	51.0
	Variation (%)	-10.0	-	-76.0	-	-81.0	-	-79.0	-	-49.0
January-23	Observed Value (mg/Nm3)	48.3	ND	75.5	ND	20	ND	22	ND	57
	Variation (%)	-3.4	-	-81.1	-	-80.0	-	-78.0	-	-43.0
February-23	Observed Value (mg/Nm3)	45.1	ND	86.0	ND	10	ND	14	ND	56
	Variation (%)	-9.8	-	-78.5	-	-90.0	-	-86.0	-	-44.0
March-23	Observed Value (mg/Nm3)	40.3	ND	81.5	ND	10	ND	13	ND	53
	Variation (%)	-19.4	-	-79.6	-	-90.0	-	-87.0	-	-47.0

Remark Negative Values indicates better performance Parameters over the Standard

डॉ. आदर्श कुमार
 प्रबन्धक (पर्यावरण और गुणवत्ता नियंत्रण)
Dr. Adarsh Kumar
 Manager (E & QC)
 हिन्दुस्तान उर्वरक एवं रासायन लिमिटेड, गोरखपुर
 HURL, Gorakhpur

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उत्तर प्रदेश UTTAR PRADESH

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पट्टा विलेख

वार्षिक किराया मु० 10000=00 प्रतिवर्ष प्रति हेक्टेयर
औसत वार्षिक किराया (मु० 10,000=00 प्रतिवर्ष X 7.745 हेक्टेयर)=
मु० 77450=00
आर्टिकल 35(V) सेड्यूल. 1-बी के अनुसार मूल्यांकन-
(औसत वार्षिक किराया मु० 77,450=00 X 6)= मु० 4,64,700=00
यानी मु० 4,65,000=00
मूल्यांकन का 4% अदा स्टैम्प-मु० 18,600=00



नगर निगम, गोरखपुर जरिये श्री रामसूचित, राजस्व निरीक्षक
नगर निगम, गोरखपुर।.....प्रथम पक्ष।

राजस्व निराक्षक
नगर निगम, गोरखपुर




सुबोध दिक्षित
SUBODH DIXIT
वीर प्रबन्धक
Sr. Manager
हिन्दुस्तान उर्वरक एवं रसायन लिमिटेड, गोरखपुर
HURL, Gorakhpur





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विशाल उर्वरक एवं रसायन लि० गो०२२५५५ युनिट गो०२२५५५
जि०ए० सुबोधा दीक्षित काठक ५५-५५



विशाल उर्वरक एवं रसायन लि०
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सुबोधा दीक्षित
काठक ५५-५५





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हिन्दुस्तान उर्वरक एवं रसायन लिमिटेड, गोरखपुर यूनिट गोरखपुर जरिये श्री सुबोध दीक्षित वरिष्ठ प्रबन्धक हिन्दुस्तान उर्वरक एवं रसायन लिमिटेड, गोरखपुर।.....द्वितीय पक्ष।

ग्राम-जंगल बेनी माधव नं0-1, तप्पा-कस्बा, परगना-हवेली, तहसील-सदर, जनपद-गोरखपुर स्थित ताल (सम्पत्ति नगर निगम) आराजी संख्या-706/258, रकबा- 19.14 एकड़ यानी 7.745 हेक्टेयर को द्वितीय पक्ष अपने कारखाने में जल आपूर्ति के लिये पट्टे पर लेना चाहता है।

साक्ष्य निराकरण
द्वारा किया; गोरखपुर



सुबोध दीक्षित
SUBODH DIXIT
वरिष्ठ प्रबन्धक
Sr. Manager

हिन्दुस्तान उर्वरक एवं रसायन लिमिटेड, गोरखपुर
HURL, Gorakhpur



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हिन्दुस्तान उर्वरक एवं लोहा त्रि० गो० २२०५५ लिमिटेड गो० २२०५५
जटिल सुबोला दीक्षित कोटल पुन-लाक



राज्यीय मंत्रालय
सूचना एवं संचार विभाग
नया दिल्ली



राज्यीय मंत्रालय
सूचना एवं संचार विभाग



उत्तर प्रदेश UTTAR PRADESH

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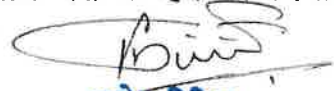
फर्टिलाइजर कारखाना में जल आपूर्ति सुनिश्चित करने के सम्बंध में मा0 मुख्य सचिव, उत्तर प्रदेश शासन द्वारा दिनांक 15.02.2017 को शासन में आहूत बैठक में निर्देश दिया गया है कि नगर निगम गोरखपुर विधि के आलोक में इस सम्बंध में सार्थक विचार करे।

मा0 मुख्य सचिव, उत्तर प्रदेश शासन द्वारा दिये गये निर्देश के अनुसार एवं नगर निगम की धारा-128 में दिये गये प्राविधानों के अनुरूप शासन की स्वीकृति प्राप्त होने के पश्चात् निम्नलिखित शर्तों पर प्रथम पक्ष उक्त ताल को द्वितीय पक्ष को पट्टा पर देने हेतु सहमत है:-

- 1- यह कि शासन की स्वीकृति संख्या-1164/नौ-7-2018-7(जनरल)/2017 दिनांक 12 फरवरी, 2020 के क्रम में ग्राम-जंगल बेनी माधव नं0-1, स्थित ताल (सम्पत्ति नगर निगम) आराजी संख्या-706/258, रकबा-19.14 एकड़ यानी 7.745 हेक्टेयर का पट्टा द्वितीय पक्ष के हक में दिनांक

राजेश्वर त्रिपाठी
मुख्य सचिव, गोरखपुर





सुबोध दिक्षित
SUBODH DIXIT
बरिष्ठ प्रबन्धक
Sr. Manager
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HURL, Gorakhpur





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क्रमांक २०३३



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उत्तर प्रदेश UTTAR PRADESH

BK 325757

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13 फरवरी 2020 को नगर आयुक्त महोदय द्वारा स्वीकृति प्रदान कर दी गयी है। जिसमें पट्टे की अवधि 30 वर्षों की होगी यानी ताल के पट्टे की अवधि दिनांक 29.06.2020 से प्रारम्भ होकर दिनांक 28.06.2050 तक के लिए मान्य होगी। 30 वर्षों की अवधि समाप्त होने के पश्चात् प्रथम पक्ष की सहमति से अगले 25 वर्षों के लिये उक्त पट्टे का नवीनीकरण कराया जा सकेगा। जिसका रजिस्ट्री कार्यालय सदर, गोरखपुर में पंजीकरण कराया जाना अनिवार्य होगा।

2- यह कि द्वितीय पक्ष उक्त ताल से 1450 घनमीटर प्रतिघण्टे, जल प्राप्त कर सकेगा, किन्तु ताल में एक न्यूनतम जल स्तर बनाये रखने का दायित्व द्वितीय पक्ष का होगा, ताकि जलीय जीवन पर कोई दुष्प्रभाव न पड़े। यदि अवर्षण या अन्य किसी कारण से द्वितीय पक्ष को प्रतिघण्टे 1450 घनमीटर जल उपलब्ध नहीं हो पाता है तो उसके पूर्ति का दायित्व किसी भी दशा में प्रथम पक्ष का नहीं होगा।

राज्य निरीक्षक
नगर निगम, गोरखपुर
2020


सुबोध दिक्षित
SUBODH DIXIT
वरिष्ठ प्रबन्धक
Sr. Manager
हिन्दुस्तान उर्वरक एवं रसायन लिमिटेड, गोरखपुर
HURL, Gorakhpur





उत्तर प्रदेश UTTAR PRADESH

BK 325758

- (5)
- 3- यह कि ग्राम-जंगल बेनी माधव नं०-1, स्थित ताल (सम्पत्ति नगर निगम) आराजी संख्या-706/258, रकबा-19.14 एकड़ यानी 7.745 हेक्टेयर का लगान रूपया 10,000=00 प्रतिवर्ष प्रति हेक्टेयर की दर से देय होगा। यदि दरों के सम्बन्ध में कोई शासनादेश अथवा अधिनियम में कोई परिवर्तन होता है, तो उसके अनुसार लगान की दर भी तदनुसार संशोधित होकर लगान दर से प्रतिवर्ष देय होगा। प्रत्येक वित्तीय वर्ष के समाप्ति के पूर्व द्वितीय पक्ष को पट्टा की धनराशि जमा करना अनिवार्य होगा।
- 4- यह कि द्वितीय पक्ष उक्त ताल का सौन्दर्यीकरण/सफाई का कार्य अपने व्यय पर करा सकता है। इस सम्बन्ध में सम्बंधित विभाग से अनापत्ति प्राप्त करने की जिम्मेदारी द्वितीय पक्ष की होगी।

राजस्व निरीक्षण
व्यय लिपि/को
2020



सुबोध दिक्षित
SUBODH DIXIT
वरिष्ठ प्रबन्धक
Sr. Manager
हिन्दुस्तान उर्वरक एवं रसायन लिमिटेड, गोरखपुर
HURL, Gorakhpur



Abha

1000
36
29.6.20.20

पत्रां १० ३३



महाराष्ट्र शासन
अर्थ विभाग
मुंबई



मुंबई
अर्थ विभाग
मुंबई





उत्तर प्रदेश UTTAR PRADESH

BK 325759

(6)

- 5- यह कि द्वितीय पक्ष, उक्त ताल में जल की उपलब्धता सुनिश्चित कराने के सम्बंध में ताल की खुदाई का कार्य, नगर निगम एवं सम्बंधित विभाग/विभागों से अनापत्ति प्राप्त करने के पश्चात् करा सकता है।
- 6- यह कि द्वितीय पक्ष उक्त ताल में जल आपूर्ति के लिए, पम्प हाउस या उससे सम्बंधित अन्य कोई निर्माण कार्य नगर निगम एवं सम्बंधित विभाग/विभागों से अनापत्ति प्राप्त करने के पश्चात् करा सकता है। उक्त कार्य के सम्बंध में नगर निगम, गोरखपुर की कोई जिम्मेदारी नहीं होगी।

साक्ष्य निरोद्धक
नगर निगम/कोरखपुर
रूप



सुबोध दिक्षित
SUBODH DIXIT
वरिष्ठ प्रबन्धक
Sr. Manager
हिन्दुस्तान उर्वरक एवं रसायन लिमिटेड, गोरखपुर
HURL, Gorakhpur



Alma



उत्तर प्रदेश UTTAR PRADESH

AE 412425

(7)

- 7- यह कि द्वितीय पक्ष उक्त ताल में पूर्व से हो रहे किसी भी परम्परागत कार्य में कोई हस्तक्षेप नहीं करेगा।
- 8- यह कि पट्टे की अवधि में, आवश्यकता पड़ने पर, प्रथम पक्ष को सम्पूर्ण ताल या उसके किसी भाग का कब्जा लेने का पूर्ण अधिकार होगा।

राज्य विरोधक
श्री श्री श्री, गोरखपुर

केशव

सुबोध दिक्षित
SUBODH DIXIT
वरिष्ठ प्रबन्धक
Sr. Manager

हिन्दुस्तान उर्वरक एवं रसायन लिमिटेड, गोरखपुर
HURL, Gorakhpur

Arma

6/29/2020

500 - सां० 33
30
29 अक्टूबर 2020 2000950014524

पट्टा विलेख/ कबूलियतनामा



बही सं०: 1

रजिस्ट्रेशन सं०: 4293

प्रतिफल- 465000 स्टाम्प शुल्क- 18600 बाजारी मूल्य - 0 पंजीकरण शुल्क - 4650 प्रतिलिपिकरण शुल्क - 80 योग : 4730

श्री हिन्दुस्तान उर्वरक एवं रसायन लिमिटेड जरिये वरिष्ठ प्रबन्धक द्वारा
सुबोध दीक्षित अधिकृत पदाधिकारी/ प्रतिनिधि,
वरिष्ठ प्रबन्धक
व्यवसाय : नौकरी
निवासी: हिन्दुस्तान उर्वरक एवं रसायन लिमिटेड, गोरखपुर



श्री, हिन्दुस्तान उर्वरक एवं रसायन लिमिटेड जरिये सुबोध दीक्षित अधिकृत
वरिष्ठ प्रबन्धक द्वारा पदाधिकारी/ प्रतिनिधि

ने यह लेखपत्र इस कार्यालय में दिनांक 29/06/2020
एवं 04:12:12 PM बजे
निबंधन हेतु पेश किया।

15/63

रजिस्ट्रीकरण अधिकारी के हस्ताक्षर

योगेन्द्र प्रताप सिंह
उप निबंधक :सदर प्रथम
गोरखपुर
29/06/2020

श्री दिनेश शाही
निबंधक लिपिक





उत्तर प्रदेश UTTAR PRADESH

CC 269185

(8)

9- यह कि द्वितीय पक्ष, किसी भी दशा में उक्त ताल या उसके किसी अंश का पट्टा/हस्तान्तरण किसी तीसरे पक्ष के पक्ष में नहीं करेगा।

उभय पक्ष उपरोक्त पट्टा विलेख पढ़ कर समझकर और सहमत होकर अपना-अपना हस्ताक्षर बनाया।

राजेश्वर निरीश्वर
रविवर निरीश्वर
रविवर



सुबोध दिक्षित
SUBODH DIXIT
वरिष्ठ प्रबन्धक
Sr. Manager

हिन्दुस्तान उर्वरक एवं रसायन लिमिटेड
HURL, Gorakhpur



Alina

बही सं०: 1

रजिस्ट्रेशन सं०: 4293

वर्ष: 2020

निष्पादन लेखपत्र वाद सुनने व समझने मजमुन व प्राप्त धनराशि रु प्रलेखानुसार उक्त

पट्टा दाता: 1

श्री नगर निगम गोरखपुर जरिये राजस्व निरीक्षक के द्वारा
रामसूचित, राजस्व निरीक्षक

निवासी: नगर निगम गोरखपुर

व्यवसाय: नौकरी

पट्टा गृहीता: 1



श्री हिन्दुस्तान उर्वरक एवं रसायन लिमिटेड जरिये वरिष्ठ
प्रबन्धक के द्वारा सुबोध दीक्षित, वरिष्ठ प्रबन्धक

निवासी: हिन्दुस्तान उर्वरक एवं रसायन लिमिटेड, गोरखपुर

व्यवसाय: नौकरी



ने निष्पादन स्वीकार किया। जिनकी पहचान

पहचानकर्ता: 1

श्री अतुल कुमार, पुत्र श्री सुबाष चन्द्र राय

निवासी: ग्राम-दुधरा, पोस्ट-बनियावारी, खलीलाबाद,

संतकबीर नगर

व्यवसाय: नौकरी

पहचानकर्ता: 2



श्री राजनारायण, पुत्र श्री रामउग्रह

निवासी: रामपुर चक, मानीराम, गोरखपुर

व्यवसाय: अन्य



रजिस्ट्रीकरण अधिकारी के हस्ताक्षर

ने की। प्रत्यक्षतः भद्र साक्षियों के निशान अंगूठे नियमानुसार
लिए गए हैं।

टिप्पणी:

योगेन्द्र प्रताप सिंह
उप निबंधक: सदर प्रथम
गोरखपुर

श्री दिनेश शाही
निबंधक लिपिक



उत्तर प्रदेश UTTAR PRADESH

CC 269218

हस्ताक्षर प्रथम पक्ष

(9)

हस्ताक्षर द्वितीय पक्ष

रावन्स विराव
गोरखपुर



सुबोध दिक्षित
SUBODH DIXIT
ज्येष्ठ प्रबन्धक
Sr. Manager
हिन्दुस्तान ज्वेलर्स एंड ग्यार्मन्ट निगम लि.
HUKL, Gorakhpur



साक्षीगण:-

1- अतुल कुमार S/o
सुबाष चन्द्र राय
सा. दुधरा पोखरियाबारी
खलीलाबाद, सतखीर नगर

2- राज नारायण पट्टे S/o
शमशेर पाण्डेय
सा. रामपुर चक पोखरियाबारी
गोरखपुर

स्थान-गोरखपुर
दिनांक-29.06.2020

प्रारूपकर्ता
गोविन्द सिंह
(गोविन्द सिंह)
एडवोकेट
कलेक्ट्री कचहरी, गोरखपुर

Alina

6/29/2020

58
40

हा. नं० 33

29.6.2020
आवेदन सं०: 202000950014524

बही संख्या 1 जिल्द संख्या 16010 के पृष्ठ 357 से 382 तक क्रमांक 4293 पर दिनांक 29/06/2020 को रजिस्ट्रीकृत किया गया।



रजिस्ट्रीकरण अधिकारी के हस्ताक्षर

योगेन्द्र प्रताप सिंह

उप निबंधक : सदर प्रथम

गोरखपुर

29/06/2020

जय प्रकाश प्रसाद
राज्य सरकार
उत्तर प्रदेश
लखनऊ

गोरखपुर
उत्तर प्रदेश



(हस्ताक्षर)

नाम

पद

Annexure 3: Photographs Phase -1 Plantation
at HURL Gorakhpur



Alma



AB02



Gorakhpur Manufacturing Unit
Department : Dr Adarsh
Purchase Requisition : 3000000715

Draft Servie PR

PR Date : 30.01.2023

Indent Type :
(OTE/LTE/STE)

Incase Of STE :
(OEM/OES/PAC/
URGENCY)

Brief Description :

Suggested Vendors :

EIC :
Completion Period :

Currency Code : INR
Estimated Value : 2662083.00

Sno.	Code	Description	UOM	Quantity	Delivery Date	Estimated Price
10		Plantation of 17500 Trees for Green Belt	AU	1.00	30.01.2023	2662083.00

Net Value : 2662083.00

(Scope of Work / Specification/Deliverable / Payment Terms / Defect Liability Period / Other Terms & Conditions)



Gorakhpur Manufacturing Unit
Department : Dr Adarsh
Purchase Requisition : 3000000715

Date : 30.01.2023

Emergency Certificate/ Price/Estimate Justification & Supporting Document :

Prepared By

Approved by



HINDUSTAN URVARAK & RASAYAN LIMITED GORAKHPUR (U.P.)

Safety Training

Attendance Sheet

Date: 16/12/2022

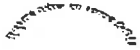
Topic Discussed: Fire Alarm Training for Duplex
SIP S maintenance (ETP. plant)

Sl. No.	Name	Designation	Department/ Agency	Signature
1	Gokulraj Maurya	Subervisor	SRC	[Signature]
2	Sumit Kumar Sharma	Sket	EMEC	[Signature]
3	Navin Singh	Sup.	EMEC	[Signature]
4	Intojee Shukla	Proprietor	Driplex/EM	[Signature]
5	Somnath Maurya	Proprietor	DFM	[Signature]
6	Abhinav K. Pathak	Engg	Driplex	[Signature]
7	Anand Kumar Singh	Facilities manager	Biplex	[Signature]
8	Akshay Kumar Yadav	SUP	Driplex	[Signature]
9	Ashutosh	Engg.	Driplex	[Signature]
10	Dushrath Singh	Sup.	Driplex	[Signature]
11	Azad Anjum	Acct	SRC	[Signature]
12	Vijendra Yadav	Filter	SRC	[Signature]
13	Satyendra	welder	SRC	[Signature]
14	Uday	Riser	SRC	[Signature]
15	Paradeep	Riser	SRC	[Signature]
16	Lalmani	Helper	SRC	[Signature]
17	Kali Kumar	Helper	SRC	[Signature]
18	Prathvi Raj	Helper	SRC	[Signature]
19	Shital	Helper	SRC	[Signature]
20	Dev Das	Painter	SRC	[Signature]

Signature of Trainer:

[Signature]

[Signature]



(HURL)

HINDUSTAN URVARAK & RASAYAN LIMITED GORAKHPUR (U.P.)

Safety Training Attendance Sheet

Date: 06.12.2022

Topic Discussed: Fire fighting & Pass method fire Extinguisher
operation (Urea unit)

Sl. No.	Name	Designation	Department/ Agency	Signature	
1	Vinod Kumar Pandey	Laborator	Mechanical		
2	Vikash Kumar Dixit	Head Per	Sarvagmati		
3	Pravir Kumar	P.E.I.			
4	Dinesh Kumar	Head Per	}		
5	Ramesh Tiwari	F			
6	Raj	F			
7	GANESH DEBNATH	Head Per CHD		Mech	
8	Arun Yadav	M/W		}	
9	Prithvi	HT			
10	Dharamendra Yadav	H			
11	Chanderan Kumar	F			
12	Rajendra Kumar	G			
13	Mukesh Kumar Yadav	M/F			
14	Kamran Kumar	H			
15					
16					
17					
18					
19					
20					

Signature of Trainer:

06/12/2022

HINDUSTAN URVARAK & RASAYAN LIMITED
GORAKHPUR (U.P.)

Safety Training
Attendance Sheet

Date: 18/11/2022

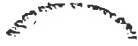
Topic Discussed: Free ammonia unit
training to employees of ammonia unit.

Sl. No.	Name	Designation	Department/ Agency	Signature
1	Bharat Singh	Plant operator	Ammonia	Bharat Singh
2	Ranjay Kumar	JEA - I	Ammonia	Ranjay Kumar
3	Vijay Kumar	field operator	Ammonia	[Signature]
4	[Signature]	JEA - I	Ammonia	[Signature]
5	Mohammad Anisq	field operator	Ammonia	Mohd. Anisq
6	Sandeep Sharma	EA - 2	Ammonia	Sandeep
7	Atul Kumar Singh	Field operator	Ammonia	Atul Singh
8	Indrajit	Field operator	Ammonia	Indrajit
9	[Signature]	Worker	Ammonia	[Signature]
10	Rakesh Kumar	Worker	Ammonia	Rakesh
11	Avneesh Singh	JEA-I	Ammonia	Avneesh
12	Prasad Patel	Field Operator	Ammonia	Prasad
13				
14				
15				
16				
17				
18				
19				
20				

Signature of Trainer:

[Signature]
 18/11/2022
 (SOPMA
 PM)

[Signature]



(HURL)

HINDUSTAN URVARAK & RASAYAN LIMITED GORAKHPUR (U.P.)

Safety Training

Attendance Sheet

Date: 16/12/2022

Topic Discussed: Fire Alarm training & Duplex
 Sup 8 workshop (ETP. Plant)

Sl. No.	Name	Designation	Department/ Agency	Signature
1	Ankuraj Maurya	Subaruler	SRC	Ankuraj
2	Sumit Kumar Sharma	Starr	EMEC	Sumit
3	Navin Singh	Sup.	EMEC	Navin Singh
4	Intyraj Shukla	P. Operator	Driplex/OFM	Intyraj
5	Somnath Gupta	P. Operator	OFM	Somnath
6	Abhishek K. Pathak	Engg	Driplex	Abhishek
7	Anamoh Singh	Process Manager	Orissa	Anamoh
8	Rakshaman Yadav	SVD	Driplex	Rakshaman
9	Ashutosh	Engg.	Driplex	Ashutosh
10	Bushmath Singh	Sup.	Driplex	Bushmath
11	Azad Anzami	Acct	SRC	Azad
12	Vijendra Yadav	Filter	SRC	Vijendra
13	Satyendra	Welder	SRC	Satyendra
14	Uday	Riser	SRC	Uday
15	Pradeep	Riser	SRC	Pradeep
16	Lalmani	Helper	SRC	Lalmani
17	Kali Prasad	Helper	SRC	Kali
18	Prathvi Raj	Helper	SRC	Prathvi
19	Shital	Helper	SRC	Shital
20	Dev Das	Painter	SRC	Dev

Signature of Trainer:



HINDUSTAN URVARAK & RASAYAN LIMITED GORAKHPUR (U.P.)

Safety Training

Attendance Sheet

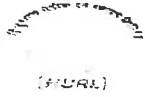
Date: 16-12-2022

Topic Discussed: Fire Alarm Training to Duplex Cont. works.
E.T.P Plant

Sl. No.	Name	Designation	Department/ Agency	Signature
1	Vikash	Painter	SRO	<i>[Signature]</i>
2	Deenat Nath	Fitter	U.S.A	<i>[Signature]</i>
3	Abhishek	Fitter	U.K	<i>[Signature]</i>
4	Rinku	Helper	KM	<i>[Signature]</i>
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Signature of Trainer: *[Signature]*

[Signature]



HINDUSTAN URVARAK & RASAYAN LIMITED GORAKHPUR (U.P.)

Safety Training


Attendance Sheet

Date: 18/11/22

Topic Discussed: Defensive Driving Training
And safety on Traffic Rule inside the plant

Sl. No.	Name	Designation	Department/ Agency	Signature
1	सुवचन्द्र पाण्डेय	इंजीनियर	रिजल टेक्न	सुवचन्द्र पाण्डेय
2	राजेश कुमार सिंह	इंजीनियर	रिजल टेक्न	राजेश कुमार सिंह
3	महेन्द्र चन्द्र वर्मा	इंजीनियर	रिजल टेक्न	महेन्द्र चन्द्र वर्मा
4	बलरंगी पाण्डेय	इंजीनियर	रिजल टेक्न	बलरंगी पाण्डेय
5	संदीप गौड़	इंजीनियर	रिजल टेक्न	संदीप गौड़
6	तन प्रताप पाण्डेय	इंजीनियर	रिजल टेक्न	तन प्रताप पाण्डेय
7	सुनील कुमार सिंह	इंजीनियर	रिजल टेक्न	सुनील कुमार सिंह
8	शबीर इमरान	इंजीनियर	रिजल टेक्न	शबीर इमरान
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Signature of Trainer:


18/11/22





HINDUSTAN URVARAK & RASAYAN LIMITED
GORAKHPUR (U.P.)
Safety Training
Attendance Sheet

Date: 02/11/2022

Topic Discussed: SCBA training at urea
to Swaming (Urea)

Sl. No.	Name	Designation	Department/ Agency	Signature
1	Alkhilish Kir. Singh	FO	Urea (Swaming)	Air L
2	Amit Kumar	FO	Urea U	Amit
3	Deep Kumar	FO	UREA U	Deep
4	Dilip Yadav	FO	UREA U	Dilip Yadav
5	Rahul	F.O	Urea U	Rahul
6	Gurmeet Rathan	F.O	Urea U	Rathan
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Signature of Trainer:

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02/11/2022
SUNDAR PARY
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(Signature)
02.11.2022

(Signature)



HINDUSTAN URVARAK & RASAYAN LIMITED
GORAKHPUR (U.P.)
Safety Training
Attendance Sheet

Date: 31/10/2022

Topic Discussed: Safety Training Urea Operator
 (Sabina) (Urea Unit)

Sl. No.	Name	Designation	Department/ Agency	Signature
1	Arshad	F.O	Urea (Sabina)	Arshad
2	Arshad Khatun	F.O	Urea II	Arshad
3	Shubham Singh	F.O	Urea II	Shubham Singh
4	Shivam Rai	F.O	Urea II	Shivam Rai
5	Deepak Khatun	F.O	Urea II	Deepak Khatun
6	Rajesh Rajbhar	F.O	Urea II	Rajesh Rajbhar
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Signature of Trainer:

Arshad
 31/10/2022

Arshad

HINDUSTAN URVARAK & RASAYAN LIMITED GORAKHPUR (U.P.)

Safety Training

Attendance Sheet

Date: 22/10/2022

Topic Discussed: How to discharge and operate fire extinguisher of one fire pump. (I.T.P.) Duplex construction

Sl. No.	Name	Designation	Department/ Agency	Signature
1	NAVEN SINGH	Supervisor	EIMEC	[Signature]
2	Dream Singh	"		[Signature]
3	Sumit kr. Sharma	Store incharge		[Signature]
4	Rajesh Singh	Rigger		[Signature]
5	Bhawal Kumar	"		[Signature]
6	Rampuray Singh	"		[Signature]
7	Ravikesh Pandey	"		[Signature]
8	Ragu Patel	"		[Signature]
9	Rizam Ali	Helper		[Signature]
10	Pradip Chaurasiya	"		[Signature]
11	Rakesh Kushawaha	Helper		[Signature]
12	Sujit Kumar	Helper		[Signature]
13	Anand Kumar	"		[Signature]
14	Vishal Meurya	"		[Signature]
15	Dinamath Chakraborty	Welder		[Signature]
16	Pankaj Kumar Sahani	"		[Signature]
17	Pranav Sharma	"		[Signature]
18	Anand Sharma	Welder		[Signature]
19	Dipak	Helper		[Signature]
20	Vijay Kumar	Welder		[Signature]

Signature of Trainer: [Signature]

[Signature]

HINDUSTAN URVARAK & RASAYAN LIMITED GORAKHPUR (U.P.)

Safety Training

Attendance Sheet

Date: 22/10/17

Topic Discussed: Fire Extinguisher Pass marksheet - 1
Fire fighting 1 E 17

Sl. No.	Name	Designation	Department/ Agency	Signature
1	Yogendra Kr. Shukla	Supervisor	SRC/p Dimple	Yogendra
2	Narresh Chauhan	Grinder	"	Narresh
3	Vijendra	Fitter	"	Vijendra
4	Satendra	Welder	"	Satendra
5	Azad Ansari	Welder	"	Azad
6	Uday Kumar	Rigger	"	Uday Kumar
7	Kali Prasad	Rigger	"	Kali Prasad
8	Vinay Kumar Chauhan	Motion	"	Vinay Kumar
9	Vikas Kumar	Helper	"	Vikas Kumar
10	Amit Kumar	Fitter	KM Electric	Amit
11	Daranath Kusiwaha	Fitter	B.K.S	Daranath Kusiwaha
12	Vinayak Pr Shukla	Welder	B.K.S	Vinayak Pr Shukla
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Signature of Trainer: 


HINDUSTAN URVARAK & RASAYAN LIMITED
GORAKHPUR (U.P.)
Safety Training
Attendance Sheet

Topic Discussed: SCBA SET TRAINING
(HURL EMPLOYEE)

Date: 08-10-2022

Sl. No.	Name	Designation	Department/ Agency	Signature
1	S. Narayan	A.M.	O & U. HURL	[Signature]
2	Siddhant	JFA-I	O & U. HURL	Siddhant
3	Rahul Pal	Engg.	Swamina.	Rahul Pal
4	Kamal	operator.	Swamina	Kamal
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of Trainer: Rab
08/10/2022
(Siddhant/ash)

Arrived
08/10/2022

[Signature]



Training on Working at
height & Rescue mock drill
in April-23

Amr



Training on Fire fighting , operation of
fire extinguisher, PASS method in
March & April-23

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Training on First Aid,
CPR , heat stress Etc
in April-23

AK



Training on Portable gas detector,
SCBA set and other Fire safety
related information in March-23

AGM

Annexure 9: Environmental Statement For the period April 2022 to March ,2023

(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: Hindustan Urvarak & Rasayan Limited
3. Registered Office of the Company: Core-4, 9th Floor, SCOPE Minar,
Laxmi Nagar District Centre, New Delhi - 110092,
Tel.: 011-22502267
4. Factory Address: Hindustan Urvarak & Rasayan Ltd. (HURL)
Admin Building, Fertilizer Township Gorakhpur
PO-Fertilizer Factory, Dist. - Gorakhpur-273007
Tel – 0551-2980206
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 & CIL
7. Date of Last Environmental Statement: May-2022.

Statement submitted

PART - B

Water and Raw Materials Consumption

1. Water consumption m³/day

Category	FY, 2022-2023 (m ³ /day)	FY, 2021-2022 (m ³)
Process	2326	Plant was in construction /Commissioning
Cooling	8928	Plant was in construction /Commissioning
Domestic	343	Not applicable

Water Consumption per MT of product Output

Name of Product	FY, 2022-2023 (m ³ /MT)	FY, 2021-2022 (m ³ /MT)
Urea	4.60	NA

2. Raw Material Consumption

* Nature of consumption	Raw Material Consumption per MT of product		
	Name of product	FY, 2022-2023	FY, 2021-2022
Natural Gas SM ³ /MT of Urea	Urea	695.8	Plant was in construction /Commissioning

Amr 1

PART - C

3. Pollution discharged to the 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	Not Applicable due to zero liquid discharges		NA
(b) Air	Details see in Annexure-1		Within prescribed standards (24/8/1 hourly Avg.)

PART - D**HAZARDOUS WASTES**

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

Hazardous Wastes	Total Quantity (kg)	
	FY, 2022-2023	FY, 2021-2022
(a) From process	NIL	Plant was in construction /Commissioning
(b) From pollution control facilities	NIL	Plant was in construction /Commissioning

PART - E**SOLID WASTE**

SOLID WASTE	Total Quantity (Kg)	
	FY, 2022-2023	FY, 2021-2022
a) From process	NIL	Plant was in construction /Commissioning
b) From pollution control facilities	NIL	Plant was in construction /Commissioning
c) Quantity recycled or reutilized within the Unit.	NIL	Plant was in construction /Commissioning
d) Sold	NIL	Plant was in construction /Commissioning
e) Disposed	NIL	Plant was in construction /Commissioning

PART - F

4. 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.

Generation of Hazardous Waste

Category	FY, 2022-2023 Qty	FY, 2021-2022 Qty
Used/spent Oil	NIL	Plant was in construction /Commissioning
Spent Catalyst	NIL	Plant was in construction /Commissioning
Process Sludge	NIL	Plant was in construction /Commissioning
Empty Barrels/Containers/Liners Contaminated with Hazardous Chemicals/Wastes	NIL	Plant was in construction /Commissioning
Contaminated Cotton Rags or other Cleaning Materials	NIL	Plant was in construction /Commissioning
Chemical Sludge from WasteWater Treatment	NIL	Plant was in construction /Commissioning
Sludge from Treatment of Waste Water Arising out of Cleaning/Disposal of Barrels/Containers	NIL	Plant was in construction /Commissioning
Spent Ion Exchange Resin Containing Toxic Metals	NIL	Plant was in construction /Commissioning

PART - G

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

Smooth operation of Pollution abatement measures has resulted in the following impact in conservation of Natural resources and the cost of production.

- Surface water and ambient air quality within the plant premises and also outside premises as per EC norms.
- Complete recycling of Ammonia and Urea Plant Process condensates after treatment in the plant itself resulting in recovery of Ammonia, CO₂ and Urea and also serves as water conservation measure.
- Complete recycle of Turbine and other steam condensates to conserve water and chemicals.
- Due to Natural Draft Prilling Tower, emission of Urea dust is very low, which conserves the natural resource and increases the production.
- Due to use of clean fuel and state of art technology, emissions are minimized.
- Proper schedule of preventive maintenance and centrifuging of oil on all critical machines is there to minimize used oil generation.

Reduction in Raw water consumption has been achieved by:

- Maximum recycling of Service Water, Air Compressor Interstate Condensate etc., which were earlier being drained in surface drain.
- Using surface drain water for Green Belt Development in different plant areas like: Bagging, ETP & Cooling Towers by installing portable pumps.
- Push type cock valves for washbasins and sensor based flushing system in toilets.
- Recycling backwash water from sand filters to raw water plants.
- Reduction of power consumption by LED electrical lights in plants by installing timers.
- By proper collection of spilled urea & recycled back in process from different locations in the bagging plant.
- Running of cooling towers on High cycle of concentration and reducing water losses through blowdown.

PART - H

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

- Plant will be based on zero discharge concept i.e. all effluent water will be treated and reused.
- Continuous monitoring of particulate matter, NO_x & So_x from all stack, particulate matter and NH₃ from Prilling Tower will be done to control emission as per norms.
- Installation of gas detectors at different locations will be installed to check fugitive emissions.

PART - I

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

The possible areas of resource conservation and the source of Pollutants are identified, assessed and subsequently proper arrangements for their control are incorporated. Some actions taken in direction to improve the quality of Environment at HURL are:

- HURL has a systematic procedure for safe collection and storage of spent lubricating oil. Centrifuges are provided to all machines to reduce the used oil generation. Oil drums are stored in main concrete.
- HURL is adopting a systematic procedure for Collection & Segregation of Solid waste. Separate bins have been provided for metallic / non-metallic waste, Consumable /non -consumable waste thus resulting in a better management of the same.
- Continuous development of Flora & Fauna by tree plantation and Green Belt Development, Gardens and Landscaping.

Ambient Air Quality Monitoring Statement F.Y 2022-2023

Annexure-1

Period of Monitoring: Financial Year April 2022 to March 2023

Location: Main Gate HURL Plant

DAY	No. of Obs	PARAMETERS											
		PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	C ₂ H ₄ (µg/m ³)	Benzo (a)pyrene (ng/m ³)	CO (mg/m ³)	NH ₃ (µg/m ³)	Ozone (µg/m ³)	NI (ng/m ³)	As (ng/m ³)	Lead (µg/m ³)
NAAQ Standards		100	60	80	80	05	01	02	400	180	20	06	1.0
Apr-22	8	91.6	56.3	21.3	25.2	<0.01	<0.01	0.75	BDL	16.9	BDL	BDL	BDL
May-22	9	84.8	50.9	18.1	23.3	<0.01	<0.01	0.61	BDL	17.1	BDL	BDL	BDL
Jun-22	8	80.5	48.2	16	22.6	<0.01	<0.01	0.59	BDL	17.1	BDL	BDL	BDL
Jul-22	8	72.3	43.1	14.2	20.3	<0.01	<0.01	0.55	BDL	16.5	BDL	BDL	BDL
Aug-22	9	66.6	39.5	13.1	19.1	<0.01	<0.01	0.52	BDL	14.9	BDL	BDL	BDL
Sep-22	9	60.3	34.6	13.2	18.4	<0.01	<0.01	0.47	BDL	14.6	BDL	BDL	BDL
Oct-22	8	93.9	50.5	16	24.9	<0.01	<0.01	0.59	BDL	18.1	BDL	BDL	BDL
Nov-22	9	105.2	55.6	18.3	27.8	<0.01	<0.01	0.64	BDL	19.3	BDL	BDL	BDL
Dec-22	8	112.5	58.7	19.2	29.1	<0.01	<0.01	0.67	BDL	19.5	BDL	BDL	BDL
Jan-23	9	106.7	53.2	18	25.9	<0.01	<0.01	0.63	BDL	18.6	BDL	BDL	BDL
Feb-23	8	99.1	52.3	19.4	26.3	<0.01	<0.01	0.65	BDL	18.1	BDL	BDL	BDL
Mar-23	9	95.4	46.1	18.3	23.2	<0.01	<0.01	0.61	BDL	16.8	BDL	BDL	BDL
Min. Conc	103	60.3	34.6	13.1	18.4	<0.01	<0.01	0.47	BDL	14.6	BDL	BDL	BDL
Max. Conc		112.5	58.7	21.3	29.1	<0.01	<0.01	0.75	BDL	19.5	BDL	BDL	BDL
Avg		89.1	49.1	17.1	23.8	<0.01	<0.01	0.61	BDL	17.29	BDL	BDL	BDL
98 th percentile		111.2	58.2	20.9	28.8	<0.01	<0.01	0.73	BDL	19.46	BDL	BDL	BDL

BDL: Below Detection Limit



डॉ. आदर्श कुमार
 प्रबन्धक (पर्यावरण और गुणवत्ता नियंत्रण)
 Dr. Adarsh Kumar
 Manager (E & QC)
 हिन्दुस्तान उर्वरक एवं रसायन लिमिटेड, गोरखपुर
 HIRI, Gorakhpur

Dr Adarsh Kumar
 Manager (E & QC)
 Hindustan Urvarak & Rasayan Ltd. (HURL)
 Admin Building, Fertilizer Township Gorakhpur
 PO-Fertilizer Factory, Dist. - Gorakhpur-273007