



HINDUSTAN URVARAK & RASAYAN LIMITED

(A JV of NTPC, CIL, IOCL, FCIL & HFCL)

Ref. No.: HURL/SND/23-24/705

Date: 30.09.2023

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

Ref: MoEF & CC, Environmental Clearance Letter No. J11011/154/2016-IAII (I) dated 29.08.2017.

Sub: Environmental Statement for the financial year ending 31st March 2023.

Dear Sir;

we are submitting herewith the environmental statement for the financial year ending 31st March' 2023 in respect of upcoming Ammonia & Urea Production plant.

This is for your kind information pls.

Thanking you.


Dipten Roy

(Sr. VP, HURL, Sindri)

Encl: Environmental Statement for the financial year ending 31st March 2023 Annexure - I.

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 (HURL)
2. Occupier's Name: Hindustan Urvarak & Rasayan Limited (HURL)
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 Limited (HURL)
Office of The Project Head, Sindri Project, HURL
Old FCIL Office Complex, PO- Sindri,
Dhanbad, Jharkhand-828122
5. Production capacity: Ammonia- 2200 MTPD
Urea-3850 MTPD
6. Establishment Year: 2017 (Consent to Establish was granted on 21-12-2017),
however the Company Hindustan Urvarak & Rasayan
Limited (HURL) was incorporated on 15th June, 2016 as joint
venture company by CIL, NTPC, IOCL as the lead promoters
with HFCL & FCIL as two other partners
7. Date of Last Environmental: 31.05.2022
Statement submitted

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Following action has been /being taken w.r.t. Environmental Legislations Applicable to the Project:

<u>Sr. No.</u>	Legislation	Action Taken
<u>1.</u>	The water (Prevention and Control of Pollution) Act 1974	Consent to Operate from Jharkhand State Pollution Control Board was obtained vide Consent No: JSPCB/HO/RNC/CTO-11189035/2022/767 dated 04/06/2022 (Annexure -A).
<u>2.</u>	The Air (Prevention and Control of Pollution) Act 1981	Consent to Operate from Jharkhand State Pollution Control Board was obtained vide Consent No: JSPCB/HO/RNC/CTO-11189035/2022/767 dated 04/06/2022 (Annexure -A).
<u>3.</u>	The Environment (Protection) Act, 1986 and EIA Notification 2006, & its amendments	Environment Clearance (EC) was granted by MoEF & CC, GOI, vide letter J-11011/154/2016-IA II (I) dated 29/08/2017 (Annexure - B). Six monthly compliance report is being submitted regularly for compliance of EC conditions.
<u>4.</u>	Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 its amendments	Authorization under Hazardous Waste Rules was obtained from Jharkhand State Pollution Control Board vide Consent No: JSPCB/HO/RNC/HWM-9761205/2022/44 dated 09/10/2022. Agreement for disposal of Hazardous Waste was done with Authorized Recycler.
<u>5.</u>	Solid Waste Management Rules, 2016	Solid Waste Disposal will be done as provisions of Solid Waste Management Rules, 2016.
<u>6.</u>	E-Waste (Management & Handling) Rules, 2016 and Amendment 2018	E-Waste Disposal Agreement will be done with Authorized Recycler.
<u>7.</u>	Construction & Demolition waste Management Rule, 2016	All waste during construction stage was properly disposed of at the Allocated Areas.
<u>8.</u>	Plastic Waste Management Rules 2016 and amendment 2018	Plastic Waste Disposal Agreement will be done with approved recyclers
<u>9.</u>	The Noise Pollution (Regulation and Control) Rules, 2000	Acoustically Enclosed DG sets have been installed to minimize noise in the area. Also, Green Belt / plantation is being provided around the periphery of the premises.
<u>10.</u>	Battery Waste Management Rules, 2001 and its amendments	A Waste Disposal Agreement for disposal of Battery waste was done with approved recyclers.

PART - B

Water and Raw Materials Consumption

(1) Water consumption m³/d.

Process : 20664
Cooling : 17564 (Includes in the above-mentioned Process Requirement)
Construction : NA
Domestic use : 5736 (Including the requirement of Town ship)

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Horticulture use : Treated Effluent is being used.

(2) Raw Material Consumption – Natural Gas

* Nature of consumption	Process Raw Material Consumption per unit of product output		
	Quality of product	During the previous financial year	During the current financial year
Natural Gas	LHV 8349.28 Kcal/Sm ³	Not Applicable. Ammonia Plant was commissioned on 10 th October 2022 & Urea Plant Commissioned on 7 th November 2022	946.147 Sm ³ /MT of Urea

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

PART - C

Pollution discharged to environment/unit of output.

(Parameter as specified in the consent issued)

Pollutants	Quantity of pollutants discharged (mass/day)	Concentration of pollutants in discharges (mass/volume)	Percentage of variation from prescribed standards with reasons
(a) Water	Nil . Water is either used for domestic / Horticulture purpose or for construction purpose. No waste water discharge as plant is at construction stage.	NA	NA
(b) Air	Fugitive emission, as plant is at construction stage.	Ambient Air Quality Monitoring data near construction site is attached as Annexure - C	Parameters are within prescribed standards (24/8/1 hourly Avg.)

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STACK EMISSION TEST REPORT:

Month	Parameter	Captive Power Plant		Ammonia Plant (Reformer)	Urea Prill Tower
		HRSG - 1	HRSG - 2		
		(Standard: PM < 150 mg/Nm ³)			
June	Particulate Matter (PM)	< 5	< 5	< 5	38
July		< 5	< 5	< 5	41
Aug		< 5	< 5	< 5	36
Sept.		< 5	< 5	< 5	37
Oct.		< 5	< 5	< 5	43
Nov.		< 5	< 5	< 5	41
Dec.		< 5	< 5	< 5	34
Jan.		< 5	< 5	< 5	37
Feb.		< 5	< 5	< 5	41
March		< 5	< 5	< 5	42

PART - D

HAZARDOUS WASTES

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

Hazardous Wastes	Total Quantity (kg)	
	During the previous financial year	During the current financial year
(a) From process	NA	NA
(b) From pollution control facilities	Nil	Nil

PART - E

SOLID WASTE

	Total Quantity	
	During the previous financial year	During the current financial year
a) From process	NA	NIL
b) From pollution control facilities	NA	NIL
c) Quantity recycled or reutilized within the Unit.	NA	-
d) Sold	NA	NIL
e) Disposed	NA	NIL

There is no generation of solid waste from process or pollution control facilities as of now. However, Municipal solid waste / Construction & Demolition waste generated during construction phase is managed / disposed off as per Rules.

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PART - F

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

HURL Sindri fertilizer plant started its operation from 10th Oct 2022 only. Therefore, there is no generation of hazardous waste as of now. However, HURL has adopted waste management plan conforming to different National and local Regulations. Waste categorization will be in line such as hazardous waste, E-wastes, Used Batteries, Non-hazardous Solid waste, Solid wastes (biodegradable) etc. and disposal will be done as per Regulation during plant operation phase.

PART - G

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

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

PART - H

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



Some of the measures taken in this project are mentioned below:

- 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 stacks, 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. Plant is based on natural gas as a raw material with state-of-the-art technology to minimize impact on surrounding environment. As per Environment Management Plan (EMP), all pollution control measures are adopted as integral part of the plant in design stage itself. In order to minimize fugitive dust emission during construction phase, regular water sprinkling is being done at construction site. Workers and manpower at site are provided with PPE kit during working hours. Health check-up of work-force is being done on regular basis through a Doctor in the dispensary at site.


Dipten Roy
(Sr. VP, HURL Sindri)


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