

#### **HINDUSTAN URVARAK & RASAYAN LIMITED**

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

#### Barauni Urvarak Nagar, Begusarai-851115

TO,

23.05.2022

Regional officer, Bihar State Pollution Control Board Barauni Industrial area Begusarai.

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

Sub: Environmental Statement for the financial year ending 31st March 2022.

Sir, we are submitting herewith the environmental statement for the financial year ending 31st March 2022 in respect of upcoming Ammonia & Urea production plant. This is for your kind information.

Thanking you.

For & on behalf of HURL, Barauni.

Karanam Manoranjan Babu
Vice President (Technical Services)
Hindustan Urvarak & Rasayan Ltd.
V.P.(TS & Production)

23.5.2022
Urvarak Nagar, Barauni, Begusarai (Bihar) 851115

Encl: Environmental Statement for the financial year ending 31st March 2022.

# ENVIRONMENTAL STATEMENT FOR THE PERIOD 01.04.2021 TO 31.03.2022

(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:

Coal Bhawan, Coal India Limited, 7th Floor,

With address

Plot No. AF-III,

Action Area-1A, Newtown, Kolkata 700 156,

West Bengal, India Tel.: 033-2324 6526

4. Factory Address:

Hindustan Urvarak & Rasayan Limited

Barauni Urvarak Nagar, Begusarai-851115

5. Production capacity:

Ammonia- 2200 MTPD Urea-3850 MTPD

6. Establishment Year:

Hindustan Urvarak & Rasayan Limited (HURL) was

incorporated on 15th June, 2016 as joint venture company by CIL, NTPC, IOCL as the lead promoters with HFCL &

FCIL as two other partners.

7. Date of Last Environmental:

Statement submitted

4th environmental statement.

#### PART - B

#### Water and Raw Materials Consumption

(1) Water consumption m<sup>3</sup>/d.

**Process** 

: NA

Cooling

: NA

Construction: 250 to 450 m3/d

(Plant is in construction stage and its schedule commissioning date is expected in August-2022)

#### (2) Raw Material Consumption - NA

* Nature of	Process Raw Material Consumption per unit of product output			
consumption	Quality of product   During the previous   During the curr			
		financial year	financial year	
	-	- ·		
			-	
	-	-	-	

(Plant is in construction stage and its schedule commissioning date is expected in August-2022)

#### PART - C

Pollution discharged to environment/unit of output.

(Parameter as specified in the consent issued)

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

#### STACK EMISSION TEST:

As the Plant is in under construction phase there is no source point of emission. However, emissions data from DG sets deployed at site is attached as Annexure-2.

<sup>\*</sup> 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 - D

#### HAZARDOUS WASTES

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

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

(As the plant is in construction phase, there is no generation of hazardous waste as of now.)

#### PART - E

#### SOLID WASTE

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

(As the plant is in construction phase, there is no generation of solid waste as of now.)

#### 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 Barauni fertilizer plant is in construction stage and its schedule commissioning is expected in August-2022. 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 Barauni fertilizer plant is in construction stage and its schedule commissioning is expected in

August-2022. However, HURL is monitoring parameters such as groundwater, surface water and ambient air quality within the plant premises and also outside premise as per EC norms.

#### PART - H

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

HURL Barauni fertilizer plant is in construction stage and its schedule commissioning is expected in August- 2022.

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<sub>x</sub> & SO<sub>x</sub> from all stack; particulate matter and NH<sub>3</sub> 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.

HURL Barauni fertilizer plant is in construction stage and its schedule commissioning is expected in August- 2022.

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.

Name & signature of the Occupier

Seal

ASHOK BANSAL Sr. VP (Project Head) Hindustan Urvarak & Rasayan Ltd. Urvarak Nagar, Barauni,Begusarai (Bihar) 851115 Ozone (µg/m³)

(mg/m<sub>3</sub>) 02/04

NO<sub>x</sub> (µg/m³)

40/80

00

(verage Concentration)

100/180 16.3 15.3

13.6 16.8

0.39

0.52

22.8 29.8

11.6 13.1

0.97

13.8

1.7

14.1

0.46

20.4

0.30 0.20

0.76 0.49

25.8

21.9

0.88

0.69 09.0

29.9 26.2 24.2 23.8

14.2

1.26

18.3

17.1

29.0 11.1

0.20 1.26 0.63 1.20

11.6 29.9 22.8 29.9

9.1 15.5 13.1 15.4

13.3 58.5 42.3 57.9

32.0 123.5 84.4 121.6

86

Average Max. Conc. Min. Conc.

98th percentile

88.7

90

March 2022

29.0

21.7

Environment statement for the financial year 2021-2022 for proposed Ammonia - Urea (2200MTPD & 3850MTPD) Plants of HURL at Barauni, Bihar

Period of Monite Location: Admn	Period of Monitoring: Financial Year: 2021-2022 Location: Admn. Building-HURL (Near Construction Site)	ar: 2021-2022 sar Construction	n Site)	
	90			Parameters (A
PERIOD	Observations	PM <sub>10</sub> (µg/m³)	PM <sub>2.6</sub> (µg/m³)	SO <sub>2</sub> (µg/m³
NAAQ Standards	dards —	60/100	40/60	20/80
April 2021	80	94.7	58.5	14.1
May 2021	08	84.0	47.1	13.5
June 2021	80	75.8	42.5	12.2
July 2021	60	46.8	23.8	10.6
Aug. 2021	08	32.0	13.3	9.1
Sept. 2021	08	63.0	27.0	10.7
Oct. 2021	60	74.5	33.0	13.5
Nov. 2021	60	115.0	52.3	15.5
Dec. 2021	80	123.5	55.8	15.1
Jan. 2022	90	113.0	52.3	15.1
Feb. 2022	20	101.6	52.4	13.4

 $C_6H_6$  & Benzo( $\alpha$ )pyrene = <0.01 µg/m<sup>3</sup>  $NH_3 (\mu g/m^3) = BDL$ 

NOTE: BDL = Below Detection Limit  $Ni, As, Pb (ng/m^3) = BDL$ 

त्यावरण प्रयोगशाला वस्त एड डेवलपमेट इंडिया लिमिटेड (भारत मरकार का उपक्रम) मिनी रत्ना-।कंपनी

पी,डी.आई,एल. भवन, ए-14,सेक्टर.-1

नोएडा-201301,(उ.प्र.), ारत



House No.- 322/2, Ward No.-15, Near RPS More, Next to Capital Suzuki, Distt.-Patna (Bihar) - 801503 Office No.: 7667299840, Ph.: 9798697785 / 9334254100 E-mail: gtrlpatna@gtrl.org.in, Visit us: www.gtrl.org.in

#### TESTING CERTIFICATE

Issued to:

Kamlesh Kumar Singh Engineers Private Limited

Date of Report:

25/11/2021

Report No:

221121/Civ/07980/iii

**Date of Field Testing:** 

23/11/2021

Period of Testing:

23/11/2021 To 24/11/2021

Job S. No.:

GTRL/221121/07915

Job Code No.:

Civ/221121/07924/iii

Name of Customer:

M/s Kamlesh Kumar Singh Engineers Private Limited

Customer Ref No. to GTRL:

**Customer-Client Agreement No.:** 

Sample Description:

Stack Emission of DG Set; Make - Sudhir, Id. No. - KKS/DG/01

**Environmental Condition During Sampling:** 

Temperature - 32°c, RH - 35%, Weather - Clear

**Sampling Time:** 

Name of Work:

**Environmental Monitoring Work** 

S.	No.
	1.

	Particula	ar
	(nulthator)	

Result

Type of Fuel Used

High Speed Diesel (HSD)

2. 3.

Sampling Duration, min. Stack Height

Height of Stack from Ground Level

32

4.

Stack Temperature, °C

08 mtrs.

5

120°c

6.

250 KVA

08 meter

8.

Diameter of Stack

Capacity of DG

06 Inch 20.5 LPM

9.

S. No. Tests

Average Flow Rate Stack Gas Velocity, m/s as Per IS:11255 (Part - 3)

10.5 m/sec

#### Concentration of Pollutants in Fuel Gas

1	PM, mg/Nm <sup>3</sup>
2	Sulphur Dioxide (SO2), mg/Nm3
•	0.11

Requirement **Test Method** 

The Environmental (Protection) Rules, 1996 General Emission Standard - Part -D

IS 11255 (Part 1):1985 (RA 2019)

150.00

60.58

Result

IS 11255 (Part 2):1985

**Not Specified** 

52.8

Oxides of Nitrogen(Nox), mg/Nm3

(RA 2014) IS 11255 (Part 7):1985

**Not Specified** 

60.7

(RA 2012) \*\*\*End of Report\*\*\*







"SEE OVERLEAF FOR STATUTORY NOTE



M- ARUX BLULA

# GLOBAL TESTING AND RESEARCH LABORATORY

House No.- 322/2, Ward No.-15, Near RPS More, Next to Capital Suzuki, Distt.-Patna (Bihar) - 801503 Office No.: 7667299840, Ph.: 9798697785 / 9334254100 E-mail: gtripatna@gtrl.org.in, Visit us: www.gtrl.org.in

#### TESTING CERTIFICATE

Issued to:

Kamlesh Kumar Singh Engineers Private Limited

Date of Report:

Report No:

25/11/2021

221121/Civ/07980/iv

Date of Field Testing:

23/11/2021

Period of Testing:

23/11/2021 To 24/11/2021

Job S. No.:

GTRL/221121/07915

Job Code No.:

Civ/221121/07924/iv

Courtement Ref No. to GT

Name of Customer:

M/s Kamlesh Kumar Singh Engineers Private Limited

Customer Ref No. to GTRL:

STATES AND SOURCE SALES

Customer-Client Agreement No.:

Sample Description: Description:

Noise limit for DG Set

Environmental Condition During Sampling: Temperature - 32°c , RH - 35% , Weather - Clear

**Sampling Time:** 

03:30 a.m.

Name of Work:

**Environmental Monitoring Work** 

Requirement

S. No. Tests

**Test Method** 

Environment (Protection) Amendment Rules vide GSR 371(E), dated 17th May 2002 at serial no.94 and its amendments vide GSR No 520(E) dated 1st July 2003; GSR 448(E), dated 12th July 2004; GSR 315(E) dated 16th May 2005; GSR 464(E) dated 7th August 2006; GSR 566(E) dated 29th August 2007 and GSR 752(E) dated 24th

October 2008; G.S.R. 215 (E), dated 15th

Conformity

Noise limit for 1

**Generator Set** (dB)

IS 9989:1981: (RA 2014)

75 dB(A) at 1 meter from the enclosure surface, Max.

March, 2011 under the Environment

70.5

Result

Yes

\*\*\*End of Report\*\*\*

0.00C AND ...

(Protection) Act, 1986)









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#### TESTING CERTIFICATE

Issued to:

B P Enterprises

Date of Report:

25/11/2021

Report No:

2211121/Civ/07980/vi

**Date of Field Testing:** 

22/11/2021

**Period of Testing:** 

23/11/2021 To 24/11/2021

Job S. No.:

GTRL/221121/07915

Job Code No.:

Civ/221121/07924/vi

Name of Customer:

M/s B P Enterprises

**Customer Ref No. to GTRL:** 

**Customer-Client Agreement No.:** 

Nil

Sample Description:

Noise limit for DG Set

Environmental Condition During Sampling: Temperature - 30°c, RH - 48%, Weather - Clear

Sampling Time:

12:30 a.m.

Name of Work:

S. No.

Environmental Monitoring Work

Requirement

Environment

second

(Protection)

Amendment Rules vide GSR 371(E), dated 17th May 2002 at serial no.94 and its

amendments vide GSR No 520(E) dated 1st July 2003; GSR 448(E), dated 12th July 2004;

GSR 315(E) dated 16th May 2005; GSR 464(E) dated 7th August 2006; GSR 566(E) dated

29th August 2007 and GSR 752(E) dated 24th

October 2008; G.S.R. 215 (E), dated 15th March, 2011 under the Environment

(Protection) Act, 1986)

Noise limit for

**Generator Set** 1 (dB)

Tests

IS 9989:1981: (RA 2014)

heamshipsk

**Test Method** 

75 dB(A) at 1 meter from the enclosure

surface, Max.

65.3

Result

Yes

Conformity

\*\*\*End of Report\*\*\*

15.11255 (Part 2)-1985

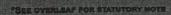
\*\*\* Trough to bad \*\*\*

5 11255 (Part 7),1985

AUTHOR

Sulphier Dioxide (502), my Nims

ided & Hitchenson(Nox), Engrines









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E-mail: gtrlpatna@gtrl.org.in, Visit us: www.gtrl.org.in

#### TESTING CERTIFICATE

Issued to:

B P Enterprises

Date of Report:

ii Keporti

221121/Civ/07980/v

25/11/2021

Report No: Date of Field Testing:

23/11/2021

Period of Testing:

23/11/2021 To 24/1/2021

Job S. No.:

GTRL/221121/07915

teams of Customet:

Customer Rull Pay 40 (MR. :

Job Code No.:

Civ/221121/07924/v

Name of Customer:

Customer Ref No. to GTRL:

Nil

**Customer-Client Agreement No.:** 

Nil

Sample Description:

Stack Emission of DG Set; Make – Genset India, Id. No. – BPE/DG/01

105 ARI : 1861: 6862 201

Environmental Condition During Sampling: Temperature - 30°c, RH - 48%, Weather - Clear

Lolf shouldet.

**Sampling Time:** 

12:30 a.m.

12.50 d.III

Name of Work:

Environmental Monitoring Work

M/s B P Enterprises

S. No.

Particular

Result

1.

Type of Fuel Used

High Speed Diesel (HSD)

3.

Sampling Duration, min.

30

4.

Stack Temperature, °C

118°c

5.

Capacity of DG

62.5 KVA

-6. 7.

Height of Stack from Ground Level

05 meter

8.

Diameter of Stack

04 Inch

\_

Average Flow Rate

25.5 LPM

9.

Stack Gas Velocity, m/s as Per IS:11255 (Part - 3)

6.8 m/sec

#### Concentration of Pollutants in Fuel Gas

				1 TE 1	
S. No.	Tests	Test Method		rement rotection) Rules, 1996 Standard – Part -D	Result
1	PM, mg/Nm <sup>3</sup>	IS 11255 (Part 1):1985 (RA 2019)	150	0.00	70.82
2	Sulphur Dioxide (SO2), mg/Nm3	IS 11255 (Part 2):1985 (RA 2014)	Not Sp	ecified	62.2
3	Oxides of Nitrogen(Nox), mg/Nm3	IS 11255 (Part 7):1985 (RA 2012)	• Not Sp	ecified	65.4
		***End of Report**			

AUTHORIZED SIGNATORY







\*SEE OVERLEAF FOR STATUTORY NOTE



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#### TESTING CERTIFICATE

Issued to:

Technip India Limited HURL Project, Barauni

Bihar India - 851135

Date of Report:

Report No:

25/11/2021

221121/Civ/07980/i

**Date of Field Testing:** 

Stack Emission of DG Set; Make - RAPower, Id. No. - TFMC/DG/01

23/11/2021 23/11/2021 To 24/11/2021

**Period of Testing:** 

GTRL/221121/07915

Job S. No.:

Job Code No.:

Civ/221121/06924/i

Name of Customer:

Customer Ref No. to GTRL:

Customer-Client Agreement No.:

Sample Description:

**Environmental Condition During Sampling:** 

Sampling Time:

Name of Work:

Nil

M/s Technip India Ltd.

Temperature - 32°c, RH - 34%, Weather - Clear

01:30 a.m.

Environmental Monitoring Work Particular

Nil

Result

High Speed Diesel (HSD)

40 KVA

108°c

7.2 m/sec

1. Type of Fuel Use

2.

S. No.

3...

4.. 5.

6.

7.

S. No.

1

2

8

Concentration of Pollutants in Fuel Gas

ed , , , , , , , , , , , , , , , , , , ,	
A Marini and and and	

Sampling Duration, min. Stack Temperature, °C

Capacity of DG 62.5 KVA Height of Stack from Ground Level 06 meter

Diameter of Stack 05 Inch Average Flow Rate 23.2 LPM

Stack Gas Velocity, m/s as Per IS:11255 (Part - 3)

Requirement

The Environmental (Protection) Rules, 1996 General Emission Standard - Part -D

PM, mg/Nm<sup>3</sup> Sulphur Dioxide 2 (SO2), mg/Nm3

Oxides of

IS 11255 (Part 1):1985 (RA 2019) IS 11255 (Part 2):1985

**Test Method** 

(RA 2014) IS 11255 (Part 7):1985 150.00

**Not Specified** 

Not Specified

53.2

Result

62.40

61.7

\*\*\*End of Report\*\*\*

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#### TESTING CERTIFICATE

Issued to:

Technip India Limited HURL Project, Barauni Bihar India - 851135 Date of Report:

Report No:

25/11/2021

221121/Civ/07980/ii

Date of Field Testing:

23/11/2021

Period of Testing:

23/11/2021 To 24/11/2021

Job S. No.: Job Code No.: GTRL/221121/07915 Civ/250920/07924/ii

Name of Customer:

Customer Ref No. to GTRL:

Customer-Client Agreement No.:

Sample Description:

**Environmental Condition During Sampling:** 

**Sampling Time:** 

Name of Work:

S. No. Tests

1

M/s Technip India Ltd.

Nil- askabil stad bid to resistantit dastili

Noise limit for DG Set

Temperature - 32°c, RH - 34%, Weather - Clear

01:30 a.m.

Environmental Monitoring Work

Requirement

Environment (Protection) Amendment Rules vide GSR 371(E), dated 17th May 2002 at serial no.94 and its amendments vide GSR No 520(E) dated 1st July 2003; GSR 448(E), dated 12th July 2004; GSR 315(E) dated 16th May 2005; GSR 464(E) dated 7th August 2006; GSR 566(E) dated 29th August 2007 and GSR 752(E) dated 24th October 2008; G.S.R. 215 (E), dated 15th March, 2011 under the Environment

(Protection) Act, 1986)

Noise limit for

**Generator Set** (dB)

IS 9989:1981: (RA 2014)

**Test Method** 

75 dB(A) at 1 meter from the enclosure

surface, Max.

District our Confer

65.8

Recult

Yes

Conformity

\*\*\*End of Report\*\*\*





