ब्रह्मपुत्र वैली फर्टिलाइजर कॉरपोरेशन लिमिटेड
नामरूप
Brahmaputra Valley Fertilizer Corporation Limited
Namrup

(A Government of India Undertaking)
CIN U24123AS2002GOI006786
GST IN: 18AABCB9399R1ZK

Ref. No. NAM/TS/01(29G)/904

Date: 18.09.2020

To,
Member Secretary
Pollution Control Board, Assam
Bamunimaidam
Guwahati – 21

Sub: Environmental Statement for the Year 2019-20

Sir,

Environmental Statement of BVFCL Namrup for the year 2019-20, prepared as per Rule-14 of Environment (Protection) Amendment Rules 1993, is enclosed herewith for kind information please.

Regards.

Yours faithfully,
For and on behalf of BVFC Ltd., Namrup

18/09/2020
(S Sarkar)
Dy. GM
Technical Services Department

Encl: As above

Copy to:
1. Joint Director (S)
   Ministry of Environment & Forests
   Regional Office (NEZ), Law-U-Sib, Lumbatngen
   Near MTC Workshop, Shillong – 793 021
2. Zonal Officer
   North Eastern Zonal Office,
   Central Pollution Control Board,
   'TUM –SIR', Lower Motinagar,
   Near Fire Brigade H.Q., Shillong -793014
3. Executive Engineer
   Pollution Control Board, Assam
   Match Factory Lane (Back side of ASTC Bus Station)
   Chowckidingee, Dibrugarh, Assam

ENVIRONMENTAL STATEMENT FOR THE PERIOD 01.04.2019 TO 31.03.2020

(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 : Brahmaputra Valley Fertilizer Corporation Limited,Namrup

2. Occupier's Name : Brahmaputra Valley Fertilizer Corporation Limited,Namrup

3. Registered Office of the Company with address : Brahmaputra Valley Fertilizer Corporation Limited,Namrup
P.O. Parbatpur, Dist. Dibrugarh, Assam
Pin 786623

4. Factory Address : Brahmaputra Valley Fertilizer Corporation Limited,Namrup
P.O. Parbatpur, Dist. Dibrugarh, Assam
Pin 786623

5. Industry Category : Nitrogenous Fertilizer (Continuous Chemical)

6. Production Capacity :

Name of Product	As per Consent (MT / Year)	Production (MT/Year) As per actual	
		2018-19	2019-20
Urea (Namrup-II)	240000	57712	46087
Urea (Namrup-III)	270000	228603	109905

7. Establishment Year : 1969

8. Date of Last Environmental Statement submitted : 17/Sep/19

PART "B"

WATER AND RAW MATERIAL CONSUMPTION

B-1. Total Water Consumption (M^3/day)

Source Name	Type of Water	Namrup-II		Namrup-III	
		2018-19	2019-20	2018-19	2019-20
Near by Dilli River (Dishang River)	Process	1663	1166	1706	1536
	Domestic	3464	3474	3176	3186
	Cooling	10273	6823	8566	6601

B-2. Water Consumption per unit of Product (M^3/MT)

Name of the Product	Water Consumption per Unit of Product (M^3/MT)	
	2018-19	2019-20
Urea (Namrup-II)	62.05	52.01
Urea (Namrup-III)	13.48	22.21

B-3. Raw Material Consumption (MT/MT)

Name of Raw Material	Name of the Product	Quantity of Raw Material per unit of the product manufactured (MT/MT)	
		2018-19	2019-20
Natural Gas	Urea (Namrup-II)	2.30	1.59
	Urea (Namrup-III)	0.99	1.63

PART "C"

POLLUTION DISCHARGED TO ENVIRONMENT PER UNIT OF OUTPUT

C-1. Water Pollution

Pollution Parameter	Prescribed Limit for Inland Surface Water (mg/litr.)*	Quantity of Pollutants Discharge (Kg/day)	Concentration of Pollutants in Discharge (mg/litr.)	Percentage of Variation from Prescribed Limit
B.O.D	30	91	27.02	-10%
C.O.D	250	468	139.00	-44%

* As per CPCB's General Standard for inland surface water. No prescribed limit for effluent.

C-2. Air Pollution (Flue Gas)

Name of Parameters	Prescribed Limit (mg/NM^3)	Quantity of Pollutant Discharge (Kg/day)	Concentration of Pollutants in Discharge (mg/NM^3)	Percentage of Variation from Prescribed Limit
SO_2	80			
(a) Namrup-II		0.831	0.900	
(b) Namrup-III		1.545	1.291	Parameters are well within limit
NO_2	400			
(a) Namrup-II		0.608	0.662	
(b) Namrup-III		1.079	0.904	

PART "D"

HAZARDOUS WASTES

[As Specified under Hazardous Wastes(Management & Handling) Rule 1989]

Description	Total Quantity Generated	
	2018-19	2019-20
Used Oil (in KL)	1.610	0.000
Spent Catalyst (in MT)	-	38.05
Waste Oil (in KL)	-	-

PART "E"
SOLID WASTES

Description	Total Quantity (in MT)	
	2018-19	2019-20
Spent Resin	Nil	Nil
Water Treatment Plant Sludge	Nil	Nil

PART "F"
CHARACTERISTICS OF HAZARDOUS / SOLID WASTES

Description	Quantity Generated	Constituent Parameter with Concentration	Method of Disposal
Used Oil (in kilioliters)	0.000	Approx. 20% water	Used Oil, Spent Catalysts and Waste Oil are sold to CPCB authorized parties only.
Spent Catalyst (in MT)	38.05	Total stock is a mixture of catalysts	
Waste Oil (in kilioliters)	-	NG Condensate	

NB: The stock of spent catalyst is a mixture of 37.7 HT, 66.4 LT, PR/SR 16.6 & Methanation catalyst of 16.4 MT containing Nickel, Silicon, Chromium, Manganese etc.

PART "G"

IMPACT OF POLLUTION CONTROL MEASURES ON CONSERVATION OF NATURAL RESOURCES AND COST OF PRODUCTION

Operation of plants of Namrup Fertilizer Complex of BVFCL have their effect on the nature and natural resources like air and water in the following ways:

(a) Impact of emissions in atmosphere, which is negligible.

i) Sulphur content in Natural Gas which is being used as fuel with excess quantity of air is only in traces, so flue gas exit at the stacks of Primary Reformers, Boilers and Captive Power Plant turbines are practically free from hydrocarbons and SPM, SOX, NOX and CO content is well within norm.

ii) Urea Prilling Tower dust emission in Urea Plant–III and Urea Plant-II are within the limits. Therefore, the contribution of Namrup Fertilizer Complex towards increase in ambient SPM level is insignificant.

iii) Various leakages taking place in plants occasionally (though being attended as soon as possible), ammonia concentration at some places inside the plants sometimes goes high. However, quality of ambient air outside the plants / factory is well within the allowable limit. Ambient air condition is monitored continuously in 2 Nos. fixed stations inside the factory premises and 2 Nos. stations outside the factory through Mobile Ambient Air Monitoring Van.

(b) Impact of Liquid Effluents in water:

The characteristics of some of the ingredients in the effluent generated in Namrup Fertilizer Complex are such that these have only a very marginal potential to affect the river water. Analysis of various samples of ground water had shown practically no impact on ground water. However, in case of start-up and shut down of plants, fluctuation in pH and ammoniacal nitrogen contents is experienced. As per CPCB's directive, online monitoring system for liquid effluents and stack gas was successfully installed and commissioned. The data is being continuously uploaded in the designated website of CPCB.

(c) Impact of Solid wastes:

Solid Wastes generated in Namrup Fertilizer Complex are very small in quantity as natural gas is being used as raw material and fuel. Spent catalysts, discarded batteries etc. are the main solid wastes. These wastes are handled properly as a result of which there is no unwanted impact on the environment observed so far. As per relevant Hazardous Waste act, these solid wastes are sold to CPCB authorized vendors only.

Impact on Conservation of Natural Resources and on Cost of Production:

The most important natural resources used in manufacture of fertilizer in Namrup Fertilizer Complex of BVFCL are (a) Natural Gas from M/S OIL (b) Water from nearby Dilli River and (c) Atmospheric Air.

The pollution control measures as explained above ensure that the various constituents resulting in pollution both due to emissions as well as discharge of liquid effluents are kept within permissible limits after revamp. Apart from ensuring control of pollution, the measures also have resulted in tangible gains as far as conservation of natural resources is concerned. Purge gas from Ammonia synthesis in Ammonia-II and Ammonia-III are used as fuel in Primary Reformer instead of venting.

PART "H"

ADDITIONAL INVESTMENT PROJECTIONS ON ENVIRONMENTAL PROTECTION

Both the existing operating plants are likely to be permanetly closed down within next 4 to 5 years and new higher capacity plant based on state-of-the-art zero discharge plant will be established at the existing location of BVFCL Namrup.

PART "I"

ANY OTHER PARTICULARS IN RESPECT OF ENVIRONMENT PROTECTION AND ABETMENT OF POLLUTION

(a) Brahmaputra Valley Fertilizer Corporation Ltd, Namrup is located amidst pristine surroundings in the Dibrugarh district of Assam consisted of three plants. All the three Plants were established under the banner of Fertilizer Corporation of India Limited and Hindustan Fertilizer Corporation Limited at different periods. The first group of plants (Namrup-I) was established in the sixties and went into commercial production in 1969. Namrup-II group of Plants were added in the seventies and went into commercial production in 1976 and was followed by Namrup-III group of plants established in the eighties which went into commercial production in 1987. All the plants in Namrup-I group has now been dismantled and disposed off due to ageing, small capacity and obsolence. Presently, Namrup-II and Namrup-III group of plants are only running.

(b) Thus Plants were established at Namrup at different decades. As a consequence, the improvements in technologies are reflected in establishment of these plants - Namrup – III being the most sophisticated. Namrup–II and Namrup-III plants did not have most of the in-built pollution abatement facilities as these plants were coceived before the enactment of most of the present day pollution prevention laws/acts/norms etc. Depending on requirements from time to time as desired by Pollution Control Board, various pollution control facilities had been incorporated for Namrup – II & Namrup-III group of plants so as to meet the prescribed pollution standards. The process had continued and the pollution control measures were adopted as integral part of the renovation / revamping of the plants. In this connection it is worth noting that it is easier to incorporate in-built pollution control measures, in a new plant from design stage itself.

Signature of the Occupier

Signature 18/09/2020

S. Sarkar / एस. सरकार
DGM (T.S.) / उप महा प्रबंधक (तकनीकी सेवा)
BVFCL / बी.वी.एफ.सी.एल
Namrup / नामरूप

Designation CMD
BVFCL Namrup