

## ENVIRONMENTAL STATEMENTS

## FORM-V

(See Rule 14)

The Ministry of Environment & Forest vide its notification dated 13 March, 1992 directed all industries which need to have consent under Water (Prevention & Control of Pollution) 1974 and Air (Prevention & Control of Pollution) 1981 to file the environmental statement every year. This is to be filed for the period ending March by September every year. The format for the same is as follows:

Environmental Statement for the Current financial year ( 01 April- 2020 to 31 March -2021)

## PART-A

- Name and address of the owner/occupier of the industry operation or process. **M/s Radiant Manufacture private Ltd. Distillery Division**, Village- Khatkhathi, Distt.- Karbi anglong Assam.
- Industry category Primary** - (STC Code) Secondary- (SIC Code).
- Production capacity** - :- 45 KLPD
- Year of establishment** :- 31/03/2010

## PART-B Water and Raw Material Consumption

**Permitted water abstraction from River** :- 560 M<sup>3</sup>/Day  
**Process(Liquefaction, Fermentation, Products)** :- 200 M<sup>3</sup>/Day

**Cooling& Boiler** :- 330 M<sup>3</sup>/Day

**Domestic** :- 30 M<sup>3</sup>/Day

**Water consumption m3/d** :- 560 M<sup>3</sup>/Day

\*(Above average consumption is including production and non production days.)

Name of Product	Process Water Consumption Per Unit of Product Output. (Liquefaction, Fermentation,)		
	During the Previous Financial Year 2019-20	During the current financial Year 2020-21	
1	2	3	
ENA	4.037	4.087	
<b>Raw Material Consumption</b>			
Name of Raw Material	Name of Products	Consumption of Raw Material per unit of Output. (Kg/BL. Of Alcohol)	
Grain	ENA	During the previous financial year 19-20	During the current financial year 20-21
Rice, Maiz		2.304	2.40

Polluting Industry may use codes if disclosing details of raw material would violate contractual obligations; otherwise all industries have to name the raw Material used.

**PART-C**

Discharged to environment/unit of output Specified if the consent issued.

Pollutants		Quantity of Pollutants Discharged (Mass/Day)	Concentration of Pollutants in Discharges (Mass/Volume)		Prevent age of Variation from Prescribed Standards with
a	Water	170 M <sup>3</sup> /Day Max. at full capacity	pH	8.72	5.5 to 9.0 250 100 10 100
			Chemical Oxygen Demand Mg/I	164	
			Bio Chemical Oxygen Demand (3 Days at 27° C)Mg/l	28	
			Oil and Grease, Mg/I ( Less Than)	7.2	
			Total Suspended Solids, Mg/I	51.8	
b	Air	_____	Particulate matter Mg/Nm <sup>3</sup>	87	100

**PART-D****HAZARDOUS WASTES**

(as specified under Hazardous Wastes / Management and handling Rules, 1989)

Hazardous Waste	Total Quantity (Kg.)	
	During the previous Financial Year ( 2019-20)	During the current financial year ( 2020-21)
• Form Process	Nil	Nil
• From Pollution Control Facilities	Nil	Nil

**PART-E****Solid Waste (Non Hazardous Waste)**

		Total Quantity	
		During The previous financial year 2019-20 (No. of Days - 324 )	During the Current Financial Year 2020-21 (No. Of Days - 291 )
(a)	From Process(DDGS)	7770.03 MT	8393.13 MT
(b)	From Pollution Control Facility	0.865 MT	2.8636 MT
(c)	(1) Quantity Recycled or re utilized within the unit	_____	_____
	(2) Sold	Total DDGS	Total DDGS
	(3) Disposed	Total Sludge use as manure in the gardening	Total Sludge use as manure in the gardening.

**PART-F**

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

- **Solid Wastes:**

- (a) **DDGS :-**

- High protein food used as cattle feed additive. Approx production is 8393.13 MT During the current financial year ( 1April - 2020 to 31 March 2021) and total quantity has been sold.

(b) **ETP Sludge:** 2.8636 MT ( None Hazardous Waste )Produced in primary and secondary treatment process, used as manure in the gardening.

#### **PART-G**

In respect of the pollution abatement measures taken up on conservation of natural Resources and on the cost of production.

- Rs 7.5 crore were invested to install effluent treatment plant.
- In Present operating conditions, Impact on cost of production is **Rs 53.85/liter** of product output.

#### **PART-H**

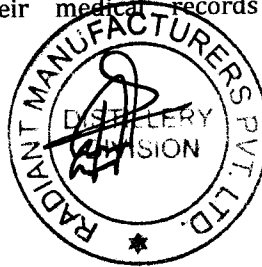
Additional measures/investment proposal for environment protection including Abatement of pollution prevention of pollution.

- Final treated effluent has been used recycled in cooling tower, industry has zero liquid discharge.
- We are always trying to maintain our plant and campus in clean and hygienic condition.
- We have well equipped laboratory for analysis of the samples and monitor the process.
- The samples of the final treated effluent were analyzed by approved laboratory for regular monitoring to control the parameters. Which have been found within the prescribed standards. (Copy of report enclosed **Annexure- 1**).

#### **PART-I**

Any other particular for improving the quality of the environment.

- We have installed 04 Nos. rain water harvesters in the premises.
- Occupational health surveillance program has already been taken regularly for all employees after each six months interval. And their medical records are being maintained.



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SP BOKAJAH S.O <732400>

Counter No:4.22/07/2021,11:00

To:TO THE EXECUT.CONTROL BOARD AS

PIN:785621, Golaghat H.O

From:JEEHAND CHAND,BOKAJAH

Wt:40gms

Amt:0.00PS:42.00Tax:6.30

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# RADIANT MANUFACTURERS PVT. LTD.

Lt.No.-RMPLDD/HW/2020- 21/04

Date: 21/07/2021

To,

The Executive Engineer  
Pollution Control Board, Assam  
College Tiniali, Near Circuit House  
Regional Office Golaghat- 785621.

**Subject :-** Annual report for the year 2020-21 under Hazardous & other Waste ( M & TBM) Rules, 2016 as per your Ref. Letter No. RO/GOL/T-753/2001-02/202/2880 dated 24/07/2018.

Respected Sir,

With reference to above cited subject we are enclosed the Annual return in form-4 , for the period of "01April-2020 to 31March 2021"as per Hazardous waste ( Management & Tran boundary Movement) Rule ,2016 by the industry M/s Radiant Manufacturer Pvt. Ltd. Khatkhati , Dist.- Karbianglong , Assam. This is for your kind information please.

Thanking You

Your s faithfully

For - Radiant Manufacturer Pvt. Ltd.

(Authorized Signatory)



**FORM - 4**

{ See rules 6(5), 13(8), 16(6) and 20(2) FORM FOR FILING ANNUAL RETURNS. [ To be submitted to State Pollution Control Board by 30 th day of June of every year for the preceding period 01 April- 2020 to 31 March 2021. ]

<b>1. Name and address of Facility .</b>	M/s Radiant Manufacturer Pvt. Ltd. Distillery Division , Vill.- Khatkhati, Dist.- Karbi Anglong ( Assam.)												
<b>2. Authorization No. and Date of issue</b>	Not Applicable.												
<b>3. Name of authorized person and full address with</b>	Mr. Jeevan chand ( Unite Head) , Mob. No.- 8471897090, e-mail - jeevan.chand@yahoo.com .												
<b>4. Production during the year ( product wise), wherever applicable :-</b>	Production during the FY. 2020 -2021												
	<table border="1"> <thead> <tr> <th>Sl No</th> <th>Product / By- Product</th> <th>Quantity per annum</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ENA + RS</td> <td>14238775.0 BL</td> </tr> <tr> <td>2</td> <td>Fusel oil (By Product)</td> <td>35.5969 KL</td> </tr> <tr> <td>3</td> <td>DDGS</td> <td>8393.13 MT</td> </tr> </tbody> </table>	Sl No	Product / By- Product	Quantity per annum	1	ENA + RS	14238775.0 BL	2	Fusel oil (By Product)	35.5969 KL	3	DDGS	8393.13 MT
	Sl No	Product / By- Product	Quantity per annum										
	1	ENA + RS	14238775.0 BL										
2	Fusel oil (By Product)	35.5969 KL											
3	DDGS	8393.13 MT											

**Part A. To be filled by Hazardous Waste generators.**

<b>1. Total quantity of waste generated category wise:-</b>	<b>Sr. No</b>	<b>Waste Discription</b>	<b>Category of H. Waste as per the sheduld I, II and III of these Rules.</b>	<b>QTY./A ( MT)</b>
	1	Fly ash	Sheduled -1 HW Rule -9	4690.9
	2	Waste resin	Sheduled -1 Stream-35.2	2.150
	3	ETP Sludge	Sheduled -1 stream-35.3	2.8636
	4	Used Oil	Sheduled -1 Stream -5.1	0.045
	5	Condense t water	Sheduled -1 Stream -36.1	44964.0
	6	Chemical Container	Sheduled -1 Stream -33.1	357 Nos
	7	Wastes oil	Sheduled -1 Stream - 5.2	0.130
<b>2. Quantity dispatched.</b>				
<b>(i) Disposal Facility:-</b>	<b>Sr. No</b>	<b>Discription</b>	<b>Reused/ Utilization and Storage</b>	
	1	Fly ash	Used in Land filling and covered by soil	
	2	Waste resin	Stored in under shed packed in plastic bags.	
	3	ETP Sludge	Used as a manure in the gardening.	
	4	Used Oil	Reused as a lubricant in plant machinery	
	5	Condense t water	After treatment used in cooling tower.	
	6	Chemical Container	Store, to be returned to the supplier & sold	
	7	Waste oil	Used as a lubricant in plant machinery	
<b>(ii.) To recycler or co-processors or pre- processor:-</b>	Chemical container quantity-110 Nos return to the supplier and 247 Nos Sold .			
<b>(iii) Others. :-</b>	Nill			
<b>1. Quantity utilized in house, if any :-</b>	Utilized quantity of H. Waste in the house as given below .			
	<b>Sr. No</b>	<b>H Waste Discription</b>	<b>QTY. / Annum (MT)</b>	
	1	Fly ash	4690.9	
	2	Waste resin	2.150	
	3	ETP Sludge	2.8636	
	4	Used Oil	0.045	
	5	Condense t water	44964.0	
	6	Chemical Container	357 Nos.	
7	Waste oil	0.130		
<b>Quantity in storage at the end of the year :-</b>	The storage quantity of H. waste ( Resin) at the end of the year = 4.55 MT			

**Part B. To be filled by Treatment , storage and disposal facility operators .:-**

1. Total quantity received :-	Not Applicable
2. Quantity in stock beginning of the year :-	
3. Quantity Treated :-	
4. Quantity disposed in landfills as such and after treatment:-	
5. Quantity incinerated ( If applicable) :-	
6. Quantity processed other then specified above.	
7. Quantity in storage at the end of the year.	

**Part C To be filled by recyclers or co- processors or other users :-**

1. Quantity of waste received during the year	Not Applicable.
(i) Domestic source :-	
(ii) Imported ( If applicable)	
2. Quantity in stock at the beginning of the year	
3. Quantity recycled or co processed or used	
4. Quantity of product dispatched ( wherever applicable) :-	
5. Quantity of waste generated	
6. Quantity of waste disposed	
7. Quantity re- exported ( wherever applicable) :-	
8 Quantity in storage at the end of the year	

Date :-  
Place :-

Signature of Occupier Or  
Operator of the Disposal facility

