

EOGEPL/CBM- RG (E)/ HSE/ 2021/3464
Date: 6th September 2021



Essar Oil and Gas Exploration and Production Ltd.
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To
The Environmental Engineer and In-Charge
Durgapur regional Office
West Bengal Pollution Control Board
Sahid Khudiram Sarani, City Centre
Durgapur, Paschim Bardhaman 713216

Sub: Submission of Form V: Environmental Statement (FY 2020-21)

Dear Sir,

We are enclosed herewith the Environmental Statement for (FY 2020-21) of Raniganj East CBM Block-
RG (E)- CBM-2001/1 Durgapur West Bengal of Essar Oil and Gas Exploration and Production Limited.

Thanking you for your continued support,

With Best Regards,

For Essar Oil and Gas Exploration and Production Limited

Kannan Rajendran
Chief Operating Officer
Raniganj East, CBM Project-Durgapur



Enclosures: Form V: Environmental Statement of FY 2020-21

Copy to

1. Senior Environmental Engineer, Head Office, WBPCB, Kolkata
2. The Regional Director, IRO, MOEFCC, IB -194, Sector III, Salt Lake , Kolkata

FORM-V
(See rule 14)

Environmental Statement for the financial year ending with 31st March 2021

PART- A

- i. **Name and address of the owner/occupier of the industry operation or process.**
Pankaj Kalra – Mines Owner, Raniganj CBM-Durgapur
Essar Oil and Gas Exploration and Production Limited,
3rd Floor, Essar House, 11 K. K. Marg, Mahalaxmi, Mumbai-400034, Maharashtra
- ii. **Industry category Primary-(STC Code) :**Coal Bed Methane (Exploration & Production)
Secondary- (STC Code)
- iii. **Production Capacity-** ~ 52,200,000 m³/month
- iv. **Year of establishment-** Established in year 2008-09.
- v. **Date of the last environmental statement submitted:** 06-07-2019

PART - B

Water and Raw Material Consumption:

i. Water consumption in m³/d

Process: Nil

Cooling: Not applicable

Domestic: 15 m³ per day

Sr. No.	Name of Products	Process water consumption per unit of products	
		During the previous financial year	During the current financial year
1	Coal Bed Methane	Nil	Nil

ii. Raw material consumption

Sr. No.	Name of raw materials*	Name of Products	Consumption of raw material per unit of Output	
			During the previous financial year (2018-2019)	During the current financial year (2019-2020)
1	Main raw material during drilling phase- Water based Mud		No Drilling operation	No Drilling operation

* Industry may use codes if disclosing details of raw material 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)

Sr. No.	Parameter	Pollutants Quantity of Pollutants discharged (mass/day)	Concentration of Pollutants discharged (mass/volume)	Percentage of variation from prescribed standards with reasons
A	Water	Nil	Nil	-
B	Air	Nil	Nil	-

PART- D**HAZARDOUS WASTES**

(as specified under Hazardous Wastes (Management & Handling Rules, 1989).

Sr. No	Area	Hazardous Wastes	Total Quantity (Kg)	
			During the previous financial year (2019-2020)	During the current financial year (2020-2021)
1	From Process	1. Waste Oil/used oil 2. Oil contaminated Waste	34. 650 KL 1.640 MT	32. 97 KL 1.9 MT
2	From Pollution Control Facilities (RO Plant)	1. Used RO Membrane Filter	0	1.25 MT

PART - E**SOLID WASTES:**

Sr. No	Area	Solid Wastes	Total Quantity (Kg)	
			During the previous financial year	During the current financial year
A	From Process	Waste Mud & Drill Cutting during drilling	No drilling Operation	No drilling Operation
B	From Pollution Control Facilities		-	-
C	1. Quantity recycled or re-utilized within the unit. 2. Solid (recyclable and Reusable) 3. Disposed		-	1. 0 2. 19.465 MT 3. 3.965 MT



PART - F

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

Sr. No.	Types of Waste	Quantity	Mode of Disposal
1	Hazardous Waste- Waste/used Oil	20,000 Litres	Sold to authorize recycler. Address of recycler: M/S Amit Lubricants M M Road, Raghunathpur, Dankuni, Hooghly 712247
		32,970 Litres	M/s Lubrina Recycling (P) Ltd Joy Chandipur, PO Bakrahat, PS Bishnupur, Dist @4 pgs (south)
2	Oil contaminated waste	1.535 MT	Sent to TSDF, Haldia Address: West Bengal Waste Management Limited, J.I.no-103, Mouza-Purba Srikrishnapur, P.O & P.S.-Sutahata, PIN-721635, Haldia, Dist-Purba Midnapur

PART- G

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

1. Reuse of produced water in dust suppression and as utilities.
2. Gas based Generator Sets used at well sites and facilities (i.e GGS 1, 2, 3, 4 and MCS).
3. Connected all well pads with GGS/MCS and Customer end with CGS through pipeline. The Pipeline is also connected with the GAIL pipeline network (as a part of Urja Ganga Pipeline Project) . Maximum Sale of Coal bed Methane Gas and target to achieve "Zero" the Gas flaring.
4. Installation RO (4200 KLD) for the treatment of Produced water generated from CBM wells and additional 2 MLD RO is in operation and 2 MLD more is in advance stage and will be in operation the year ending.
5. Ceramic membrane Oil & water separator in addition to the Gravimetric separator installed in GGS 2 Compressor station and plan for installation of two more in GGS 1 and GGS 3 as a precautionary measure.



PART - H

Additional measures/investment proposal for environmental protection including abatement of pollution.

1. Regular environmental monitoring through CPCB/NABL approved laboratory for Ambient Air and Noise Quality monitoring and DG set Stack emission monitoring, sampling and Analysis of Produced water, Ground water. The analysis and monitoring report was submitted with half yearly Environmental Clearance compliance report.
2. Three Bin waste Management System (different colour code) is developed at all the major site to segregate the waste generated at source.
3. Initiative stated for onsite bio manure from the food waste generated at site
4. Total plantation of the major facility Plan for plantation of 1000 more plant in each consecutive year and awarded to work to export for coming three years.

PART - I

Any Other Particulars for improving the Quality of the Environment.

Participation in the plantation program of forest department in Chua village - this year Forest Deptt has been instructed to organize a plantation programme under "Mission Green" of Govt. of India and the Molandighi Beat has been given a target of organizing plantation drive on about 8Ha land of Forest Deptt. This plantation programme was scheduled to be initiated in July 2021, on a stretch on Molandighi road till Chua More which belongs to Forest Deptt. Since safeguarding the saplings on the road sides is difficult, so EOGEPL has decided to extend CSR support to the "Mission Green" programme in the form of providing 625 bamboo tree-guards.


