ESSAR
OIL & GAS

Essar Oil and Gas Exploration and Production Ltd
Essar House - Durgapur
Village & Post Office – Molandighi
Block - Kanksa
Durgapur Sub-Division
Dist. - Paschim Bardhhaman
Durgapur – 713212
West Bengal
India

CIN: U11203GJ2016PLC091903

E eogepl@essarenp.co.in
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EOGEPL/CBM- RG (E)/ HSE/ 2025/6860
15th September 2025

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 Environmental Statement for the Financial Year ending with 31st March 2025.**

Dear Sir,
Greetings from Essar Oil and Gas Exploration and Production Ltd. (EOGEPL)!

Please find attached herewith the Environmental Statement (Form V) for the Financial Year ending with 31st March 2025 for the Raniganj CBM Block- RG (East)- CBM-2001/1, Durgapur, West Bengal, operated by EOGEPL.

Kindly acknowledge and oblige.

Thanking you,
For Essar Oil and Gas Exploration and Production Limited

Vikram Anand Goday
Vice President & Head- Facilities
Raniganj East, CBM Project-Durgapur

Essar Oil and Gas Exploration and Production Limited
Raniganj East
CBM Project
Durgapur

Enclosed: i) Environmental Statement (Form V) for the Financial Year ending with 31st March 2025.
ii) Annexure- I, II, III, IV, V, VI

Copy to:

i) The Regional Director, Ministry of Environment, Forest and Climate Change, Regional Office (EZ), A/3, Chandersekharpur, Bhubaneswar-751023.
ii) Sub-Office, Kolkata, MoEF&CC, IB-198, Sector- III, Salt Lake City, Kolkata- 700106.

Durgapur Regional Office
Documents Not Verified

FORM-V
(See rule 14)

Environmental Statement for the Financial Year ending with 31st March 2025

PART- A

i. **Name and address of the owner/occupier of the industry operation or process.**
Mr. Pankaj Kalra – Mines Owner, Raniganj East CBM Project-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), Secondary (SIC Code)** : Onshore Oil & Gas Exploration Development & Production (Coal Bed Methane Production), Category- RED.

iii. **Production Capacity** : 75375000 SCM/Month
Or, 75.375 MMSCM/Month
Or, 904.5 MMSCM/Year

iv. **Year of establishment** : Established in the Financial Year 2008-09.

v. **Date of the last Environmental Statement Submitted** : 04-09-2024

 # SCM denotes Standard Cubic Meter
 # MMSCM denotes Million Matric Standard Cubic Meter

PART - B

Water and Raw Material Consumption:

i. Water Consumption in m^3/d

Process: Nil, CBM operation does not have any fresh water requirement. As because produced water generation is inherent for CBM production, thus treated produced water is fulfilling the process water requirement.

Cooling: Not applicable

Domestic: 17.19 m^3 per day

S. No.	Name of Products	Process water consumption per unit of product output.	
		During the previous financial year (FY 2023-24)	During the current financial year (FY 2024-25)
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 (FY 2023-2024)	During the current financial year (FY 2024-2025)
1.	Bentonite Powder Polymer PGS (Pre Gel Starch)	Preparation of water base mud (Non-	Total= 3961 MT ** 12,5 MT per MMSCM	Total= 2390 MT ** 7.11 MT per MMSCM

	Caustic Soda Fly ash Cement Oil Well Cement Portland	hazardous) for drilling of wells		
2.	HSD (as fuel)	HSD (as fuel) for drilling & production phases	Total= 2733.55 MT ** 8.68 MT per MMSCM	Total= 1513.87 MT ** 4.5 MT per MMSCM

MT denotes Metric Ton

* 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)

<table>
<tr><th>S. No.</th><th>Discharge /Emission</th><th>Pollutants</th><th>Quantity of Pollutants discharged (mass/day)</th><th>Concentration of Pollutants discharged (mass/volume)</th><th>Percentage of variation from prescribed standards with reasons</th></tr>
<tr><td>A</td><td>Water discharge is included with i)Domestic effluent ii)RO treated produced water</td><td>TSS
BOD
COD
Oil & Grease</td><td>TSS- 2.22 kg/day
BOD- 1.51 kg/day
COD- 6.64 kg/day
Oil & Grease- 3.07 kg/day</td><td>Domestic effluent quality shown in the below table:
<table>
<tr><th>Parameter</th><th>Limit</th><th>MCS</th><th>GGS# 1</th><th>GGS# 2</th><th>Gopalpur Warehouse</th></tr>
<tr><td>pH</td><td>5.5-9.0</td><td>7.02</td><td>6.91</td><td>7.31</td><td>7.36</td></tr>
<tr><td>TSS (mg/L)</td><td>100</td><td>88</td><td>92</td><td>57</td><td>26</td></tr>
<tr><td>BOD (mg/L)</td><td>30</td><td>28</td><td>25</td><td>19</td><td>21</td></tr>
<tr><td>COD (mg/L)</td><td>250</td><td>135</td><td>132</td><td>122</td><td>127</td></tr>
<tr><td>Oil & Grease (mg/L)</td><td>10</td><td>7</td><td>8</td><td><5</td><td><5</td></tr>
</table></td><td>All the analyzed parameters resulted within the specified discharge limit.
RO treated water quality analysis refer to Annexure I.</td></tr>
<tr><td>B</td><td>Stack Emissions through i) Gas Gen. Set ii) DG set</td><td>Total NOx + NMHC
Carbon Monoxide (CO)</td><td>Total NOx + NMHC- 356.46 g/kw-day.
Carbon Monoxide (CO)– 377.52 g/kw-day.</td><td>A sample stack report for Gas Gen. Set illustrated as below.
Stack No.-97, 250 KVA GG Set [S.No. G 9211000228]
<table>
<tr><td>Total Conc. Nox + NMHC , (g/Kw-hr)</td><td>0.0793</td></tr>
<tr><td>Concentration of Carbon Monoxide (CO), (g/Kw-hr)</td><td>0.07</td></tr>
</table></td><td>All the analyzed stack emission parameters are within the specified</td></tr>
</table>

		Particulate Matter (PM)	Particulate Matter (PM)- 69.84 g/kw-day	A sample stack report for DG Set illustrated as below. Stack No.-101, 125 KVA DG Set [S.No. P 84075275]		discharge limit. Stack analysis report refers to **Annexure II.**
				Total Conc. Nox + NMHC, (g/Kw-hr)	0.1006	
				Concentration of Carbon Monoxide (CO), (g/Kw-hr)	0.09	
				Concentration of Particulate Matter (PM), (g/Kw-hr)	0.07	

PART- D

Hazardous Wastes:

(As specified under Hazardous & Other Waste (Management & Transboundary Movement) Rules, 2016).

Sr. No	Area	Hazardous Wastes	Total Quantity: Metric Ton (MT)	
			During the previous financial year (2023-2024)	During the current financial year (2024-2025)
1	From Process operation	Used Oil	116.79 MT	53.8986 MT
		Waste and residues containing oil	5.3 MT	7.08 MT
		Oil Filter Medium	6 MT	5 MT
		Exhaust gas cleaning residues	2 MT	1 MT
		Used Insulation	-	1 MT
		Used Lead Acid Battery	-	10.11 MT
		Battery Scrap	-	1 MT
2	From Pollution Control Facilities (RO Plants)	Spent RO Membrane Filter Medium.	4.14 MT	4.6 MT

MT denotes Metric Ton

PART - E

Solid Wastes:

Sr. No	Area	Solid Wastes	Total Quantity: Metric Ton (MT)	
			During the previous Financial Year (2023 – 24)	During the current Financial Year (2024 – 25)
A	From Process	Drill Cuttings (non-hazardous)	1402 MT	647 MT
B	From Pollution Control Facilities.	Dry cuttings (dry spent drilling mud- non-hazardous)	1335 MT	613 MT
C	Quantity recycled or re-utilized within the unit.	Drill cuttings and dry cuttings (non-hazardous)	2737 MT	1260 MT
	Recyclable	Municipal Solid Waste (MSW)	48.98 MT	41.23 MT
	Bio-degradable	Municipal Solid Waste (MSW)	23.65 MT	21.12 MT

MT denotes Metric Ton

PART - F

Please specify the characteristics (in terms of concentration of 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
Hazardous Wastes:			
1	Used Oil	53.8986MT	Sold to the authorized re-processor/co-processor through manifest system in Form 10. (Refer to **Annexure III**). **Address:** M/s Inspec Oils Ltd. A/122, Phase-III, Block-A, Kalyani, Nodia.
2	Waste and residues containing oil	7.08 MT	Disposed of through the authorized CHWTSDF, Saltora, Bankura along with Manifest (Form 10). (Refer to **Annexure IV).** **Address:** M/s West Bengal Waste Management Limited, Saltora, Bankura, Pin-722158.
	Spent Oil Filter Medium	5 MT	
	Spent R.O. Membrane Filter Medium	4.6 MT	
	Exhaust gas cleaning residues	1 MT	
	Used Insulation	1 MT	
	Battery Scrap	1 MT	
	Used Lead Acid Battery	10.11 MT	Disposed of through the authorized recycler M/s Global International. (refer to **Annexure V**) **Address:** M/s Global International Vill. & PO.- Lakshmanpur, PS.- Domjur, Dist. Howrah-711 114.
Solid Wastes:			
1	Drill cutting and dry cuttings- non-hazardous).	1260 MT	Reutilized within the unit for well pad development.
2	MSW- Recyclable	41.23 MT	Recyclable waste sent to local collection center for further utilization.
3	MSW- Bio-degradable	21.12 MT	Bio-degradable waste disposed through the municipal dumping yard.

MT denotes Metric Ton

PART- G

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

1. Produced water is reused in drilling and other activities, so that there is no usage of fresh water.
2. Gas based Generator Set is used at well sites for the generation of electricity. Electric power is generated by the combustion of CBM (free from Sulfur), comparatively lesser pollution load than HSD

and coal. Also, electricity purchased from the grid of WBSEDCL. Until 31st March 2025, EOGEPL has facilitated the supply of electricity to 16 well pads and 8 facilities/offices.

3. The total volume of produced gas (CBM) is evacuated through National Gas Grid "Urja Ganga Pipeline". So that EOGEPL is approaching towards "Zero Flaring". For example, in the Financial Year 2024-25, there are only 0.0088% of emergency flaring has been encountered due to the CBM operation comparison with 0.033% by the FY2023-24.

Apart from the above initiatives the following expenditures have been incurred towards the pollution abatement measures and conservation of natural resources.

1. Expenditure towards the produced water/ effluent treatment & management aimed at environmental protection, including pollution abatement and prevention is detailed below for the **FY 2024-25**.

   i) An expenditure in terms of capital expenditure (cap-ex) and operational expenditure (op-ex) for the RO plants & equipments has been accounted of **Rs. 67,30,798.00** and **Rs. 4,01,63,212** respectively.

   ii) An expenditure in terms of capital expenditure (capex) towards the central drilling waste processing plant and mobile ETP has been accounted of **Rs. 3,03,46,050.00**.

   iii) An expenditure for the produced water & drilled effluent handling/ storage has been accounted of **Rs. 72,34,613.00**.

2. Regular environmental monitoring is carried out through a recognized laboratory to assess ambient air, noise pressure level, GG set/DG set stack emissions, produced water, RO water, surface water, ground water quality, ground water levels, soil quality etc. An expenditure of **Rs. 12,30,902.00** has been accounted for the same above activities for the **FY 2024-25**.

3. Toxicology analysis is carried out for the drill cuttings and spent drilling mud (water base mud) through a recognized laboratory. The result of all the analyzed parameters indicate that the drill cuttings and spent drilling mud are non-hazardous and non-toxic, as the measured values are below the permissible or detection limits (the result refers to **Annexure VI**). An expenditure of **Rs. 1,68,858.00** has been accounted for the **FY 2024-25**.

4. Hazardous waste is collected separately in the drums/RED colored bins and stored in the designated storage area at the central warehouse- Gopalpur, which is made with concrete floor, shedding, parapet wall, dyke, catch pit with secondary containment pit.

   Thereafter, the hazardous waste is disposed of through authorized CHWTSDF at Saltora, Bankura, Pin-722158 operated by M/s West Bengal Waste Management Ltd.

   On account of the hazardous waste disposal, EOGEPL expensed an amount of **Rs. 7,61,623.00 for the FY 2024-25**.

5. Green belt development and maintenance is a long-standing tradition at EOGEPL. Demonstrating our commitment to environmental sustainability, EOGEPL added with 2575 new saplings of native species by the end of FY 2024–25. These saplings are currently thriving and contributing to our expanding green footprint. An expenditure of **Rs. 9,71,348.00** has been accounted for the **FY 2024-25.**

PART – H

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

1. MSW is segregated at source through different colored bins- BLUE & GREEN, Where the BLUE colored bins are used for dry recyclable waste and GREEN colored bins are used for bio-degradable waste

collection. Further the dry recyclable waste is sent to local collection center for auxiliary utilization and the bio-degradable waste is disposed through municipal dumping yard. An expenditure of **Rs. 10,84,725.00** has been accounted for the disposal of MSW for the **FY 2024-25.**

2. Bio-medical waste is collected in YELLOW bags at the First-Aid center and disposed of through authorized CBWTF regular basis. An expenditure of **Rs. 99,510.00** has been accounted for the **FY 2024-25.**

3. An awareness campaign on the **"Ban of Single-Use Plastic"** was organized at Bijra High School and Kantaberia Anganwari Center. The campaign was successfully conducted through awareness training sessions and the distribution of jute bags. EOGEPL incurred an expenditure of **Rs. 14,400.00** for this initiative during **FY 2024–25.**

4. In addition, the following expenditures have been expensed towards the enterprise social commitment for the following CSR activities by the **FY 2024-25**

i) Community health care services through mobile medical van incurred an amount of **Rs. 24,39,783.00**

ii) Basic amenities support for 6 Anganwaris under the Kanksa Block incurred an amount of **Rs. 7,35,926.00**

iii) Apprenticeship training incurred an amount of **Rs. 18,38,262.00**

iv) Sports and cultural events incurred an amount of **Rs. 2,33,845.00**

v) Community infrastructure development incurred an amount of **Rs. 1,59,15,328.00**

vi) Administrative overhead for general management and administration incurred an amount of **Rs. 12,78,037.00**

PART - I

Any Other Particulars for improving the Quality of the Environment

In the context of a clean fuel economy, Coal Bed Methane (CBM) is considered one of the best alternative fuel resources globally. It offers a cutting-edge solution for both the industrial and transportation sectors. Additionally, CBM plays a vital role in bridging the demand-supply gap for household cooking fuel, contributing to energy accessibility and sustainability.

In addition to EOGEPL voluntarily supplies gas to an ICDS center in Village Dhabani for cooking mid-day meals for more than 80 children.

From an environmental perspective, the combustion of natural gas generates a nominal pollution load compared to the combustion of conventional fossil fuels such as coal and oil. For example, natural gas combustion produces less tCO2e; i.e. ~40% and ~25% less than coal and oil combustion respectively.

In line with the vision of a gas-based and clean fuel economy, EOGEPL is progressively expanding its footprint within the Raniganj CBM Block [RG (East)-CBM-2001/1], West Bengal, with the aim of reducing environmental pollution at both the state and national levels.

Month				Apr'24			
S. No.	Parameter	Unit	Onshore Discharge Standards vide G.S.R.546(E), dated 30.8.2005.	EDN-99 R.O. Treated Water Analysis	EDD 50 R.O. Treated Water Analysis	EDH-64 R.O. Treated Water Analysis	GGS-001 R.O. Treated Water Analysis
1	pH		5.5-9.0	7.33	7.52	7.78	7.39
2	Temperature	deg. C	40 deg. C	33.4°C	32.8°C	29.1°C	34.6°C
3	Suspended Solids	mg/L	100	<2	<2	<2	<2
4	Total Dissolved Solids	mg/L	2100	974	808	960	1598
5	Chlorides	mg/L	600	506	350	407	585
6	Sulphates	mg/L	1000	5.1	<2.5	3.9	2.9
7	BOD	mg/L	30	<2	<2	<2	<2
8	COD	mg/L	100	<8	<8	<8	<8
9	Oil & Grease	mg/L	10	<5.0	<5.0	<5.0	<5.0
10	Phenolic Compounds	mg/L	1.2	<0.002	<0.002	<0.002	<0.002
11	Sulphides	mg/L	2	<0.5	<0.5	<0.5	<0.5
12	Fluorides	mg/L	1.5	0.46	0.48	0.45	0.45
13	Chromium (Total)	mg/L	1	<0.05	<0.05	<0.05	<0.05
14	Zinc	mg/L	2	0.012	0.011	0.018	0.014
15	Copper	mg/L	0.2	<0.05	<0.05	<0.05	<0.05
16	Nickel	mg/L	3	<0.05	<0.05	<0.05	<0.05
17	Lead	mg/L	0.1	<0.1	<0.1	<0.1	<0.1
18	Mercury	mg/L	0.01	<0.001	<0.001	<0.001	<0.001
19	Cyanide	mg/L	0.2	<0.02	<0.02	<0.02	<0.02
20	Chromium (Cr+6)	mg/L	0.1	<0.01	<0.01	<0.01	<0.01
21	% Sodium	mg/L	60	54.6	58.7	57.3	58.3

Month				May'24			
S. No.	Parameter	Unit	Onshore Discharge Standards vide G.S.R.546(E), dated 30.8.2005.	GGS-001 R.O. Treated Water Analysis	EDD 50 R.O. Treated Water Analysis	EDH-64 R.O. Treated Water Analysis	EDN-99 R.O. Treated Water Analysis
1	pH		5.5-9.0	7.67	7.24	7.35	7.29
2	Temperature	deg. C	40 deg. C	33.8°C	33.4°C	34.7°C	31.8°C
3	Suspended Solids	mg/L	100	<2	<2	<2	<2
4	Total Dissolved Solids	mg/L	2100	1886	1676	1046	1254
5	Chlorides	mg/L	600	240	255	490	595
6	Sulphates	mg/L	1000	5	4.2	6.1	7.1
7	BOD	mg/L	30	<2	<2	<2	<2
8	COD	mg/L	100	<8	<8	<8	<8
9	Oil & Grease	mg/L	10	<5.0	<5.0	<5.0	<5.0
10	Phenolic Compounds	mg/L	1.2	<0.002	<0.002	<0.002	<0.002
11	Sulphides	mg/L	2	<0.5	<0.5	<0.5	<0.5
12	Fluorides	mg/L	1.5	0.35	0.43	0.61	0.44
13	Chromium (Total)	mg/L	1	<0.05	<0.05	<0.05	<0.05
14	Zinc	mg/L	2	0.014	0.016	<0.01	0.012
15	Copper	mg/L	0.2	<0.05	<0.05	<0.05	<0.05
16	Nickel	mg/L	3	<0.05	<0.05	<0.05	<0.05
17	Lead	mg/L	0.1	<0.1	<0.1	<0.1	<0.1
18	Mercury	mg/L	0.01	<0.001	<0.001	<0.001	<0.001
19	Cyanide	mg/L	0.2	<0.02	<0.02	<0.02	<0.02
20	Chromium (Cr+6)	mg/L	0.1	<0.01	<0.01	<0.01	<0.01
21	% Sodium	mg/L	60	58.6	58.1	56.6	57.6

Month				Jun'24			
S. No.	Parameter	Unit	Onshore Discharge Standards vide G.S.R.546(E), dated 30.8.2005.	GGS-001 R.O. Treated Water Analysis	EDD 50 R.O. Treated Water Analysis	EDH-64 R.O. Treated Water Analysis	EDN-99 R.O. Treated Water Analysis
1	pH		5.5-9.0	8.39	8.34	7.92	7.35
2	Temperature	deg. C	40 deg. C	33.9°C	31.1°C	30.2°C	31.2°C
3	Suspended Solids	mg/L	100	<2	<2	2	<2
4	Total Dissolved Solids	mg/L	2100	1756	1714	1250	1470
5	Chlorides	mg/L	600	470	495	560	870
6	Sulphates	mg/L	1000	3.8	4.2	4.0	4.9
7	BOD	mg/L	30	<2	<2	<2	<2
8	COD	mg/L	100	<8	<8	<8	<8
9	Oil & Grease	mg/L	10	<5.0	<5.0	<5.0	<5.0
10	Phenolic Compounds	mg/L	1.2	<0.002	<0.002	<0.002	<0.002
11	Sulphides	mg/L	2	<0.5	<0.5	<0.5	<0.5
12	Fluorides	mg/L	1.5	0.49	0.3	0.45	0.57
13	Chromium (Total)	mg/L	1	<0.05	<0.05	<0.05	<0.05
14	Zinc	mg/L	2	0.011	0.012	0.019	0.014
15	Copper	mg/L	0.2	<0.05	<0.05	<0.05	<0.05
16	Nickel	mg/L	3	<0.05	<0.05	<0.05	<0.05
17	Lead	mg/L	0.1	<0.1	<0.1	<0.1	<0.1
18	Mercury	mg/L	0.01	<0.001	<0.001	<0.001	<0.001
19	Cyanide	mg/L	0.2	<0.02	<0.02	<0.02	<0.02
20	Chromium (Cr+6)	mg/L	0.1	<0.01	<0.01	<0.01	<0.01
21	% Sodium	mg/L	60	58.5	56.4	56.9	51.3

Month				Jul'24			
S. No.	Parameter	Unit	Onshore Discharge Standards vide G.S.R.546(E), dated 30.8.2005.	GGS-001 R.O. Treated Water Analysis	EDD 50 R.O. Treated Water Analysis	EDH-64 R.O. Treated Water Analysis	EDN-99 R.O. Treated Water Analysis
1	pH		5.5-9.0	8.44	8.36	7.95	7.85
2	Temperature	deg. C	40 deg. C	35.1°C	30.5°C	31.2°C	30.5°C
3	Suspended Solids	mg/L	100	<2	3	<2	<2
4	Total Dissolved Solids	mg/L	2100	1842	1148	946	1510
5	Chlorides	mg/L	600	223	490	470	585
6	Sulphates	mg/L	1000	4	5.9	6.5	4.7
7	BOD	mg/L	30	<2	<2	<2	<2
8	COD	mg/L	100	<8	<8	<8	<8
9	Oil & Grease	mg/L	10	<5.0	<5.0	<5.0	<5.0
10	Phenolic Compounds	mg/L	1.2	<0.002	<0.002	<0.002	<0.002
11	Sulphides	mg/L	2	<0.5	<0.5	<0.5	<0.5
12	Fluorides	mg/L	1.5	0.71	0.63	0.81	0.59
13	Chromium (Total)	mg/L	1	<0.05	<0.05	<0.05	<0.05
14	Zinc	mg/L	2	0.017	0.015	0.016	0.014
15	Copper	mg/L	0.2	<0.05	<0.05	<0.05	<0.05
16	Nickel	mg/L	3	<0.05	<0.05	<0.05	<0.05
17	Lead	mg/L	0.1	<0.1	<0.1	<0.1	<0.1
18	Mercury	mg/L	0.01	<0.001	<0.001	<0.001	<0.001
19	Cyanide	mg/L	0.2	<0.02	<0.02	<0.02	<0.02
20	Chromium (Cr+6)	mg/L	0.1	<0.01	<0.01	<0.01	<0.01
21	% Sodium	mg/L	60	59	56.2	58	55.5

Month				Aug'24			
S. No.	Parameter	Unit	Onshore Discharge Standards vide G.S.R.546(E), dated 30.8.2005.	GGS-001 R.O. Treated Water Analysis	EDD 50 R.O. Treated Water Analysis	EDH-64 R.O. Treated Water Analysis	EDN-99 R.O. Treated Water Analysis
1	pH		5.5-9.0	8.33	8.37	7.55	7.21
2	Temperature	deg. C	40 deg. C	32.3°C	31.2°C	31.3°C	31.3°C
3	Suspended Solids	mg/L	100	<2	<2	<2	2
4	Total Dissolved Solids	mg/L	2100	1682	1056	1410	1932
5	Chlorides	mg/L	600	225	189	580	590
6	Sulphates	mg/L	1000	4.9	<2.5	5.2	6.5
7	BOD	mg/L	30	<2	<2	<2	<2
8	COD	mg/L	100	<8	<8	<8	<8
9	Oil & Grease	mg/L	10	<5.0	<5.0	<5.0	<5.0
10	Phenolic Compounds	mg/L	1.2	<0.002	<0.002	<0.002	<0.002
11	Sulphides	mg/L	2	<0.5	<0.5	<0.5	<0.5
12	Fluorides	mg/L	1.5	0.68	0.73	0.81	0.93
13	Chromium (Total)	mg/L	1	<0.05	<0.05	<0.05	<0.05
14	Zinc	mg/L	2	0.015	0.017	0.013	0.018
15	Copper	mg/L	0.2	<0.05	<0.05	<0.05	<0.05
16	Nickel	mg/L	3	<0.05	<0.05	<0.05	<0.05
17	Lead	mg/L	0.1	<0.1	<0.1	<0.1	<0.1
18	Mercury	mg/L	0.01	<0.001	<0.001	<0.001	<0.001
19	Cyanide	mg/L	0.2	<0.02	<0.02	<0.02	<0.02
20	Chromium (Cr+6)	mg/L	0.1	<0.01	<0.01	<0.01	<0.01
21	% Sodium	mg/L	60	53.8	54.3	53.7	54.7

Month				Sep'24			
S. No.	Parameter	Unit	Onshore Discharge Standards vide G.S.R.546(E), dated 30.8.2005.	EDH-64 R.O. Treated Water Analysis	EDN-99 R.O. Treated Water Analysis	EDD 50 R.O. Treated Water Analysis	GGS-001 R.O. Treated Water Analysis
1	pH		5.5-9.0	7.98	7.73	8.31	8.41
2	Temperature	deg. C	40 deg. C	28.7°C	32.2°C	30.5°C	31.7°C
3	Suspended Solids	mg/L	100	<2	3	<2	<2
4	Total Dissolved Solids	mg/L	2100	1312	1246	1620	1684
5	Chlorides	mg/L	600	588	585	128	155
6	Sulphates	mg/L	1000	6.1	9.1	4.5	3.5
7	BOD	mg/L	30	<2	<2	<2	<2
8	COD	mg/L	100	<8	<8	<8	<8
9	Oil & Grease	mg/L	10	<5.0	<5.0	<5.0	<5.0
10	Phenolic Compounds	mg/L	1.2	<0.002	<0.002	<0.002	<0.002
11	Sulphides	mg/L	2	<0.5	<0.5	<0.5	<0.5
12	Fluorides	mg/L	1.5	0.71	1.01	0.67	0.48
13	Chromium (Total)	mg/L	1	<0.05	<0.05	<0.05	<0.05
14	Zinc	mg/L	2	0.017	0.020	0.014	0.011
15	Copper	mg/L	0.2	<0.05	<0.05	<0.05	<0.05
16	Nickel	mg/L	3	<0.05	<0.05	<0.05	<0.05
17	Lead	mg/L	0.1	<0.1	<0.1	<0.1	<0.1
18	Mercury	mg/L	0.01	<0.001	<0.001	<0.001	<0.001
19	Cyanide	mg/L	0.2	<0.02	<0.02	<0.02	<0.02
20	Chromium (Cr+6)	mg/L	0.1	<0.01	<0.01	<0.01	<0.01
21	% Sodium	mg/L	60	57	51.6	55.4	53

Month				Oct-24			
S. No.	Parameter	Unit	Onshore Discharge Standards vide G.S.R.546(E), dated 30.8.2005.	EDN-99 R.O. Treated Water Analysis	EDD 50 R.O. Treated Water Analysis	EDH-64 R.O. Treated Water Analysis	GGS-001 R.O. Treated Water Analysis
1	pH		5.5-9.0	7.41	7.54	7.53	7.68
2	Temperature	deg. C	40 deg. C	32.1°C	29.8°C	28.2°C	31.2°C
3	Suspended Solids	mg/L	100	<2	<2	<2	<2
4	Total Dissolved Solids	mg/L	2100	678	312	482	942
5	Chlorides	mg/L	600	205	85	105	213
6	Sulphates	mg/L	1000	4	<2.5	6	3.8
7	BOD	mg/L	30	<2	<2	<2	<2
8	COD	mg/L	100	<8	<8	<8	<8
9	Oil & Grease	mg/L	10	<5.0	<5.0	<5.0	<5.0
10	Phenolic Compounds	mg/L	1.2	<0.002	<0.002	<0.002	<0.002
11	Sulphides	mg/L	2	<0.5	<0.5	<0.5	<0.5
12	Fluorides	mg/L	1.5	0.95	0.62	0.82	0.55
13	Chromium (Total)	mg/L	1	<0.05	<0.05	<0.05	<0.05
14	Zinc	mg/L	2	0.018	0.012	0.017	0.016
15	Copper	mg/L	0.2	<0.05	<0.05	<0.05	<0.05
16	Nickel	mg/L	3	<0.05	<0.05	<0.05	<0.05
17	Lead	mg/L	0.1	<0.1	<0.1	<0.1	<0.1
18	Mercury	mg/L	0.01	<0.001	<0.001	<0.001	<0.001
19	Cyanide	mg/L	0.2	<0.02	<0.02	<0.02	<0.02
20	Chromium (Cr+6)	mg/L	0.1	<0.01	<0.01	<0.01	<0.01
21	% Sodium	mg/L	60	53.8	54.1	55.8	58.9

Month				Nov-24			
S. No.	Parameter	Unit	Onshore Discharge Standards vide G.S.R.546(E), dated 30.8.2005.	GGS-001 R.O. Treated Water Analysis	EDD 50 R.O. Treated Water Analysis	EDH-64 R.O. Treated Water Analysis	EDN-99 R.O. Treated Water Analysis
1	pH		5.5-9.0	7.33	7.58	7.41	7.5
2	Temperature	deg. C	40 deg. C	29.3°C	28.1°C	27.8°C	29.6°C
3	Suspended Solids	mg/L	100	3	<2	<2	6
4	Total Dissolved Solids	mg/L	2100	462	442	710	802
5	Chlorides	mg/L	600	41	70	216	390
6	Sulphates	mg/L	1000	4.3	4.9	7.1	8.6
7	BOD	mg/L	30	<2	<2	<2	<2
8	COD	mg/L	100	<8	<8	<8	<8
9	Oil & Grease	mg/L	10	<5.0	<5.0	<5.0	<5.0
10	Phenolic Compounds	mg/L	1.2	<0.002	<0.002	<0.002	<0.002
11	Sulphides	mg/L	2	<0.5	<0.5	<0.5	<0.5
12	Fluorides	mg/L	1.5	0.58	0.41	0.63	0.85
13	Chromium (Total)	mg/L	1	<0.05	<0.05	<0.05	<0.05
14	Zinc	mg/L	2	0.014	0.011	0.015	0.019
15	Copper	mg/L	0.2	<0.05	<0.05	<0.05	<0.05
16	Nickel	mg/L	3	<0.05	<0.05	<0.05	<0.05
17	Lead	mg/L	0.1	<0.1	<0.1	<0.1	<0.1
18	Mercury	mg/L	0.01	<0.001	<0.001	<0.001	<0.001
19	Cyanide	mg/L	0.2	<0.02	<0.02	<0.02	<0.02
20	Chromium (Cr+6)	mg/L	0.1	<0.01	<0.01	<0.01	<0.01
21	% Sodium	mg/L	60	57.4	56.3	54.5	58.3

Month				Dec-24			
S. No.	Parameter	Unit	Onshore Discharge Standards vide G.S.R.546(E), dated 30.8.2005.	GGS-001 R.O. Treated Water Analysis	EDD 50 R.O. Treated Water Analysis	EDH-64 R.O. Treated Water Analysis	EDN-99 R.O. Treated Water Analysis
1	pH		5.5-9.0	7.6	7.34	7.42	7.63
2	Temperature	deg. C	40 deg. C	23.2°C	25.1°C	25.8°C	27.3°C
3	Suspended Solids	mg/L	100	3	<2	<2	5
4	Total Dissolved Solids	mg/L	2100	1062	996	1124	1318
5	Chlorides	mg/L	600	109	260	410	560
6	Sulphates	mg/L	1000	3.7	3.3	4.7	10.6
7	BOD	mg/L	30	<2	<2	<2	2
8	COD	mg/L	100	<8	<8	<8	10
9	Oil & Grease	mg/L	10	<5.0	<5.0	<5.0	<5.0
10	Phenolic Compounds	mg/L	1.2	<0.002	<0.002	<0.002	<0.002
11	Sulphides	mg/L	2	<0.5	<0.5	<0.5	<0.5
12	Fluorides	mg/L	1.5	0.58	0.41	0.76	0.70
13	Chromium (Total)	mg/L	1	<0.05	<0.05	<0.05	<0.05
14	Zinc	mg/L	2	0.014	0.017	0.015	0.018
15	Copper	mg/L	0.2	<0.05	<0.05	<0.05	<0.05
16	Nickel	mg/L	3	<0.05	<0.05	<0.05	<0.05
17	Lead	mg/L	0.1	<0.1	<0.1	<0.1	<0.1
18	Mercury	mg/L	0.01	<0.001	<0.001	<0.001	<0.001
19	Cyanide	mg/L	0.2	<0.02	<0.02	<0.02	<0.02
20	Chromium (Cr+6)	mg/L	0.1	<0.01	<0.01	<0.01	<0.01
21	% Sodium	mg/L	60	57.8	57.9	55.3	56.5

Month				Jan-25			
S. No.	Parameter	Unit	Onshore Discharge Standards vide G.S.R.546(E), dated 30.8.2005.	GGS-001 R.O. Treated Water Analysis	EDD 50 R.O. Treated Water Analysis	EDH-64 R.O. Treated Water Analysis	EDN-99 R.O. Treated Water Analysis
1	pH		5.5-9.0	7.23	7.67	7.27	7.55
2	Temperature	deg. C	40 deg. C	26.1°C	25.2°C	23.2°C	23.6°C
3	Suspended Solids	mg/L	100	<2	<2	<2	3
4	Total Dissolved Solids	mg/L	2100	612	776	660	1122
5	Chlorides	mg/L	600	168	329	345	580
6	Sulphates	mg/L	1000	4.8	5.9	7.4	7
7	BOD	mg/L	30	<2	<2	<2	<2
8	COD	mg/L	100	<8	<8	<8	<8
9	Oil & Grease	mg/L	10	<5.0	<5.0	<5.0	<5.0
10	Phenolic Compounds	mg/L	1.2	<0.002	<0.002	<0.002	<0.002
11	Sulphides	mg/L	2	<0.5	<0.5	<0.5	<0.5
12	Fluorides	mg/L	1.5	0.68	0.49	1.02	0.77
13	Chromium (Total)	mg/L	1	<0.05	<0.05	<0.05	<0.05
14	Zinc	mg/L	2	0.015	0.011	0.018	0.021
15	Copper	mg/L	0.2	<0.05	<0.05	<0.05	<0.05
16	Nickel	mg/L	3	<0.05	<0.05	<0.05	<0.05
17	Lead	mg/L	0.1	<0.1	<0.1	<0.1	<0.1
18	Mercury	mg/L	0.01	<0.001	<0.001	<0.001	<0.001
19	Cyanide	mg/L	0.2	<0.02	<0.02	<0.02	<0.02
20	Chromium (Cr+6)	mg/L	0.1	<0.01	<0.01	<0.01	<0.01
21	% Sodium	mg/L	60	53.6	58.9	54.6	53.5

Month				Feb-25			
S. No.	Parameter	Unit	Onshore Discharge Standards vide G.S.R.546(E), dated 30.8.2005.	GGS-001 R.O. Treated Water Analysis	EDD 50 R.O. Treated Water Analysis	EDH-64 R.O. Treated Water Analysis	EDN-99 R.O. Treated Water Analysis
1	pH		5.5-9.0	7.52	7.69	7.66	7.88
2	Temperature	deg. C	40 deg. C	23.6°C	21.3°C	26.1°C	28.4°C
3	Suspended Solids	mg/L	100	<2	<2	3	<2
4	Total Dissolved Solids	mg/L	2100	552	660	542	644
5	Chlorides	mg/L	600	110	193	265	282
6	Sulphates	mg/L	1000	4.6	7.5	6.8	7.9
7	BOD	mg/L	30	<2	<2	<2	2
8	COD	mg/L	100	<8	<8	<8	10
9	Oil & Grease	mg/L	10	<5.0	<5.0	<5.0	<5.0
10	Phenolic Compounds	mg/L	1.2	<0.002	<0.002	<0.002	<0.002
11	Sulphides	mg/L	2	<0.5	<0.5	<0.5	<0.5
12	Fluorides	mg/L	1.5	0.59	0.60	0.88	0.92
13	Chromium (Total)	mg/L	1	<0.05	<0.05	<0.05	<0.05
14	Zinc	mg/L	2	0.015	0.017	0.014	0.026
15	Copper	mg/L	0.2	<0.05	<0.05	<0.05	<0.05
16	Nickel	mg/L	3	<0.05	<0.05	<0.05	<0.05
17	Lead	mg/L	0.1	<0.1	<0.1	<0.1	<0.1
18	Mercury	mg/L	0.01	<0.001	<0.001	<0.001	<0.001
19	Cyanide	mg/L	0.2	<0.02	<0.02	<0.02	<0.02
20	Chromium (Cr+6)	mg/L	0.1	<0.01	<0.01	<0.01	<0.01
21	% Sodium	mg/L	60	55.9	57.6	58.3	58.3

Month				Mar-25			
S. No.	Parameter	Unit	Onshore Discharge Standards vide G.S.R.546(E), dated 30.8.2005.	EDH-64 R.O. Treated Water Analysis	EDN-99 R.O. Treated Water Analysis	EDD 50 R.O. Treated Water Analysis	GGS-001 R.O. Treated Water Analysis
1	pH		5.5-9.0	7.43	7.70	7.67	7.54
2	Temperature	deg. C	40 deg. C	25.1°C	27.8°C	27.7°C	28.6°C
3	Suspended Solids	mg/L	100	<2	3	<2	<2
4	Total Dissolved Solids	mg/L	2100	1138	924	1014	618
5	Chlorides	mg/L	600	470	518	286	94
6	Sulphates	mg/L	1000	5.3	8.1	3.3	4.3
7	BOD	mg/L	30	<2	<2	<2	<2
8	COD	mg/L	100	<8	<8	<8	<8
9	Oil & Grease	mg/L	10	<5.0	<5.0	<5.0	<5.0
10	Phenolic Compounds	mg/L	1.2	<0.002	<0.002	<0.002	<0.002
11	Sulphides	mg/L	2	<0.5	<0.5	<0.5	<0.5
12	Fluorides	mg/L	1.5	0.88	0.88	0.54	0.62
13	Chromium (Total)	mg/L	1	<0.05	<0.05	<0.05	<0.05
14	Zinc	mg/L	2	0.012	0.019	0.015	0.017
15	Copper	mg/L	0.2	<0.05	<0.05	<0.05	<0.05
16	Nickel	mg/L	3	<0.05	<0.05	<0.05	<0.05
17	Lead	mg/L	0.1	<0.1	<0.1	<0.1	<0.1
18	Mercury	mg/L	0.01	<0.001	<0.001	<0.001	<0.001
19	Cyanide	mg/L	0.2	<0.02	<0.02	<0.02	<0.02
20	Chromium (Cr+6)	mg/L	0.1	<0.01	<0.01	<0.01	<0.01
21	% Sodium	mg/L	60	55.8	50.2	56.4	59

	A	B	C	D	E	F	G	H
1	NO. OF STACKS	Standard as per the G.S.R.281(E) dated 07/03/2016	1	2	3	4	5	6
2	Date of Sampling		03.06.2024	03.06.2024	03.06.2024	03.06.2024	03.06.2024	03.06.2024
3	Site Name		EDI - 036	EDI - 036	EDI - 032	EDI - 032	EDI - 068	EDD - 047
4	Village Name		AKANDARA	AKANDARA	AKANDARA	AKANDARA	AKANDARA	AKANDARA
5	Stack connected to		125 KVA GG Set [Sl. No. EXHM 412154]	125 KVA GG Set [Sl. No. PNHM 100291]	63 KVA GG [Sl.No. NGHM 110978]	125 KVA GG [Sl.No. PLHM 105086]	125 KVA GG [Sl.No. JBHM 428265]	125 KVA GG [Sl.No. PNHM 101636]
6	Emission due to		Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of CBM
7	Material of construction of stack		M.S.	M.S.	M.S.	M.S.	M.S.	M.S.
8	Shape of stack		Circular	Circular	Circular	Circular	Circular	Circular
9	Height of the stack from ground level		4.65 m.	4.26 m.	4.26 m.	4.23 m.	4.26 m.	4.00 m.
10	Height of the sampling point from ground level		3.04 m.	3.65 m.	3.65 m.	3.00 m.	3.04 m.	3.00 m.
11	Diameter of the stack at Sampling Point		0.1015 m.	0.1015 m.	0.1015 m.	0.1015 m	0.1015 m	0.1015 m
12	Fuel used		CBM	CBM	CBM	CBM	CBM	CBM
13	Temperature of emission, (deg. C)		104	98	68	74	76	73
14	Barometric pressure, (mm of Hg)		752	752	752	752	752	752
15	Velocity of gas in stack, (m/Sec)		10.35	9.37	8.04	9.93	9.96	10.32
16	Quantity of gas flow, (Nm^3/hr)		235.96	217.06	200.28	243.07	246.51	252.06
17	Total Conc. Nox + NMHC , (g/Kw-hr)	≤ 4.0	0.0899	0.0859	0.1074	0.0967	0.0939	0.0986
18	Concentration of Carbon Monoxide (CO), (g/Kw-hr)	≤ 3.5	0.10	0.10	0.12	0.10	0.11	0.11
19	Concentration of Particulate Matter (PM), (g/Kw-hr)	≤ 0.2	0.00	0.00	0.00	0.00	0.00	0.00

	A	B	I	J	K	L	M	N
1	NO. OF STACKS	Standard as per the G.S.R.281(E) dated 07/03/2016	7	8	9	10	11	12
2	Date of Sampling		03.06.2024	04.06.2024	04.06.2024	04.06.2024	04.06.2024	04.06.2024
3	Site Name		EDD - 047	EDI - 115	EDE- 039	EDI - 039	EDI - 038	EDI - 038
4	Village Name		AKANDARA	SARASWATIGUNGE	SARASWATIGUNGE	SARASWATIGUNGE	SARASWATIGUNGE	SARASWATIGUNGE
5	Stack connected to		125 KVA GG Set [Sl.No. PNHM 101639]	125 KVA GG Set [Sl.No. FBHM 409963]	125 KVA GG Set [Sl.No. NGHM 110974]	125 KVA GG Set [Sl.No. LMHM 113681]	125 KVA GG Set [Sl.No. PLHM 105083]	125 KVA GG Set [Sl.No. PLHM 105053]
6	Emission due to		Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of CBM
7	Material of construction of stack		M.S.	M.S.	M.S.	M.S.	M.S.	M.S.
8	Shape of stack		Circular	Circular	Circular	Circular	Circular	Circular
9	Height of the stack from ground level		3.26 m.	4.87 m.	4.65 m.	4.65 m.	3.35 m.	3.65 m.
10	Height of the sampling point from ground level		3.00 m.	3.65 m.	3.04 m.	3.04 m.	3.04 m.	3.04 m.
11	Diameter of the stack at Sampling Point		0.1015 m	0.1015 m	0.1015 m	0.1015 m	0.1015 m	0.1015 m
12	Fuel used		CBM	CBM	CBM	CBM	CBM	CBM
13	Temperature of emission, (deg. C)		86	104	102	100	98	104
14	Barometric pressure, (mm of Hg)		752	752	752	752	752	752
15	Velocity of gas in stack, (m/Sec)		10.10	10.35	9.88	10.30	9.37	9.46
16	Quantity of gas flow, (Nm^3/hr)		243.01	233.18	223.81	237.34	214.55	212.56
17	Total Conc. Nox + NMHC , (g/Kw-hr)	≤ 4.0	0.0863	0.0857	0.0807	0.0940	0.0677	0.0888
18	Concentration of Carbon Monoxide (CO), (g/Kw-hr)	≤ 3.5	0.10	0.10	0.09	0.10	0.09	0.09
19	Concentration of Particulate Matter (PM), (g/Kw-hr)	≤ 0.2	0.00	0.00	0.00	0.00	0.00	0.00

	A	B	O	P	Q	R	S	T
1	NO. OF STACKS	Standard as per the G.S.R.281(E) dated 07/03/2016	13	14	15	16	17	18
2	Date of Sampling		04.06.2024	04.06.2024	04.06.2024	04.06.2024	04.06.2024	04.06.2024
3	Site Name		EDI - 038	EDI - 038	EDI - 120	EDI - 042	EDI - 123	EDI - 123
4	Village Name		SARASWATIGUNGE	SARASWATIGUNGE	SARASWATIGUNGE	SARASWATIGUNGE	LOHAGORI	LOHAGORI
5	Stack connected to		125 KVA GG Set [Sl.No. MJHM 105653]	125 KVA GG Set [Sl.No.NGHM-110972]	125 KVA GG Set [Sl.No. KXHM 412772]	125 KVA GG Set [Sl.No. PMHM 103503]	125 KVA GG Set [Sl.No. GBHM 412372]	50 KVA GG Set [Sl.No. KBHM 112685]
6	Emission due to		Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of CBM
7	Material of construction of stack		M.S.	M.S.	M.S.	M.S.	M.S.	M.S.
8	Shape of stack		Circular	Circular	Circular	Circular	Circular	Circular
9	Height of the stack from ground level		4.26 m.	3.65 m.	4.26 m.	4.57 m.	3.35 m.	4.87 m.
10	Height of the sampling point from ground level		3.04 m.	3.00 m.	3.65 m.	3.65 m.	3.00 m.	3.65 m.
11	Diameter of the stack at Sampling Point		0.1015 m	0.1015 m	0.1015 m	0.1015 m	0.1015 m	0.1015 m
12	Fuel used		CBM	CBM	CBM	CBM	CBM	CBM
13	Temperature of emission, (deg. C)		99	106	86	106	103	68
14	Barometric pressure, (mm of Hg)		752	752	752	752	752	752
15	Velocity of gas in stack, (m/Sec)		10.28	9.94	9.22	9.47	10.34	8.04
16	Quantity of gas flow, (Nm^3/hr)		234.74	222.78	262.80	212.14	233.60	200.25
17	Total Conc. Nox + NMHC , (g/Kw-hr)	≤ 4.0	0.0863	0.0988	0.1035	0.0753	0.0930	0.0988
18	Concentration of Carbon Monoxide (CO), (g/Kw-hr)	≤ 3.5	0.10	0.10	0.11	0.09	0.09	0.16
19	Concentration of Particulate Matter (PM), (g/Kw-hr)	≤ 0.2	0.00	0.00	0.00	0.00	0.00	0.00

	A	B	U	V	W	X	Y	Z
1	NO. OF STACKS	Standard as per the G.S.R.281(E) dated 07/03/2016	19	20	21	22	23	24
2	Date of Sampling		05.06.2024	05.06.2024	05.06.2024	05.06.2024	05.06.2024	05.06.2024
3	Site Name		EDI - 123	EDN - 162	EDN - 162	EDN - 163	EDN - 169	EDN - 162
4	Village Name		LOHAGORI	BHALUKODA	BHALUKODA	BHALUKODA	SARENGA	BHALUKODA
5	Stack connected to		50 KVA GG Set [Sl.No. KBHM 112685]	125 KVA GG Set [Sl.No. MHHM 107182]	125 KVA GG Set [Sl.No. PNHM - 101643]	125 KVA GG Set [Sl.No. PNHM 103498]	62.5 KVA GG Set [Sl.No. PJHM 109164]	125 KVA DG Set [Sl.No. DPHM 416547]
6	Emission due to		Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of HSD
7	Material of construction of stack		M.S.	M.S.	M.S.	M.S.	M.S.	M.S.
8	Shape of stack		Circular	Circular	Circular	Circular	Circular	Circular
9	Height of the stack from ground level		4.57 m.	4.26 m.	3.65 m.	3.96 m.	3.65 m.	4.26 m.
10	Height of the sampling point from ground level		3.96 m.	3.65 m.	3.35 m.	3.65 m.	3.35 m.	3.04 m.
11	Diameter of the stack at Sampling Point		0.1015 m	0.1015 m	0.1015 m	0.1015 m	0.1015 m	0.1015 m
12	Fuel used		CBM	CBM	CBM	CBM	CBM	HSD
13	Temperature of emission, (deg. C)		81	108	109	110	74	122
14	Barometric pressure, (mm of Hg)		752	752	752	752	752	752
15	Velocity of gas in stack, (m/Sec)		8.37	9.50	10.84	10.86	9.51	10.53
16	Quantity of gas flow, (Nm^3/hr)		200.82	211.81	243.90	244.36	235.53	226.65
17	Total Conc. Nox + NMHC , (g/Kw-hr)	≤ 4.0	0.1057	0.0826	0.0966	0.0855	0.1286	0.0830
18	Concentration of Carbon Monoxide (CO), (g/Kw-hr)	≤ 3.5	0.15	0.09	0.11	0.12	0.15	0.09
19	Concentration of Particulate Matter (PM), (g/Kw-hr)	≤ 0.2	0.00	0.00	0.00	0.00	0.00	0.09

	A	B	AA	AB	AC	AD	AE	AF
1	NO. OF STACKS	Standard as per the G.S.R.281(E) dated 07/03/2016	25	26	27	28	29	30
2	Date of Sampling		05.06.2024	05.06.2024	05.06.2024	06.06.2024	06.06.2024	06.06.2024
3	Site Name		EDH - 046	EDI - 115	EDI - 040	EDD - 003	EDD - 003	EDD - 003
4	Village Name		AKANDARA	SARASWATIGUNGE	SARASWATIGUNGE	BARGORIA	BARGORIA	BARGORIA
5	Stack connected to		50 KVA DG Set [Sl.No. 110207090]	50 KVA DG Set [Sl.No. 110524643]	50 KVA DG Set [Sl.No. 120846371]	125 KVA DG Set [Sl.No. P 84075982]	125 KVA GG Set [Sl.No. - JCHM - 42227]	125 KVA GG Set [Sl.No. - LMHM - 113674]
6	Emission due to		Combustion of HSD	Combustion of HSD	Combustion of HSD	Combustion of HSD	Combustion of CBM	Combustion of CBM
7	Material of construction of stack		M.S.	M.S.	M.S.	M.S.	M.S.	M.S.
8	Shape of stack		Circular	Circular	Circular	Circular	Circular	Circular
9	Height of the stack from ground level		4.57 m.	4.26 m.	4.57 m.	3.65 m.	3.35 m.	3.35 m.
10	Height of the sampling point from ground level		3.96 m.	3.65 m.	3.65 m.	3.04 m.	3.04 m.	3.04 m.
11	Diameter of the stack at Sampling Point		0.1015 m	0.1015 m	0.1015 m	0.1015 m	0.1015 m	0.1015 m
12	Fuel used		HSD	HSD	HSD	HSD	CBM	CBM
13	Temperature of emission, (deg. C)		75	105	76	115	129	116
14	Barometric pressure, (mm of Hg)		752	752	752	752	752	752
15	Velocity of gas in stack, (m/Sec)		8.12	8.46	8.62	11.00	11.12	10.51
16	Quantity of gas flow, (Nm^3/hr)		198.36	190.28	209.97	237.95	235.19	229.72
17	Total Conc. Nox + NMHC , (g/Kw-hr)	≤ 4.0	0.1036	0.1134	0.1111	0.0887	0.0815	0.0777
18	Concentration of Carbon Monoxide (CO), (g/Kw-hr)	≤ 3.5	0.15	0.01	0.18	0.10	0.09	0.09
19	Concentration of Particulate Matter (PM), (g/Kw-hr)	≤ 0.2	0.12	0.17	0.11	0.09	0.00	0.00

	A	B	AG	AH	AI	AJ	AK	AL
1	NO. OF STACKS	Standard as per the G.S.R.281(E) dated 07/03/2016	31	32	33	34	35	36
2	Date of Sampling		06.06.2024	06.06.2024	06.06.2024	06.06.2024	06.06.2024	06.06.2024
3	Site Name		EDD - 003	EDD - 012	EDD - 012	EDD - 007	EDD - 007	GGS - 01
4	Village Name		BARGORIA	KANTABERIA	KANTABERIA	GOPEDANGA	GOPEDANGA	KHATGORIA
5	Stack connected to		125 KVA GG Set [Sl.No.: DBHM 402198]	63 KVA GG Set [DSHM - 412618]	125 KVA GG Set [Sl.No.: NFHM - 112833]	50 KVA DG Set [Sl. No.- 110939662]	63 KVA GG Set [Sl.No - NGHM - 101972]	180 KVA DG Set [Sl.No. - 10F09485]
6	Emission due to		Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of HSD	Combustion of CBM	Combustion of HSD
7	Material of construction of stack		M.S.	M.S.	M.S.	M.S.	M.S.	M.S.
8	Shape of stack		Circular	Circular	Circular	Circular	Circular	Circular
9	Height of the stack from ground level		3.35 m.	4.57 m.	3.35 m.	4.57 m.	4.57 m.	4.03 m.
10	Height of the sampling point from ground level		3.04 m.	3.65 m.	3.04 m.	3.65 m.	3.65 m.	3.65 m.
11	Diameter of the stack at Sampling Point		0.1015 m	0.1015 m	0.1015 m	0.1015 m	0.1015 m	0.1015 m
12	Fuel used		CBM	CBM	CBM	HSD	CBM	HSD
13	Temperature of emission, (deg. C)		110	84	105	70	77	140
14	Barometric pressure, (mm of Hg)		752	752	752	752	752	752
15	Velocity of gas in stack, (m/Sec)		6.73	8.22	10.37	8.06	8.64	11.70
16	Quantity of gas flow, (Nm^3/hr)		149.39	195.74	233.26	199.76	209.85	243.50
17	Total Conc. Nox + NMHC , (g/Kw-hr)	≤ 4.0	0.0549	0.0907	0.0920	0.1154	0.0988	0.0751
18	Concentration of Carbon Monoxide (CO), (g/Kw-hr)	≤ 3.5	0.06	0.13	0.10	0.15	0.16	0.09
19	Concentration of Particulate Matter (PM), (g/Kw-hr)	≤ 0.2	0.00	0.00	0.00	0.17	0.00	0.09

	A	B	AM	AN	AO	AP	AQ	AR
1	NO. OF STACKS	Standard as per the G.S.R.281(E) dated 07/03/2016	37	38	39	40	41	42
2	Date of Sampling		06.06.2024	07.06.2024	07.06.2024	07.06.2024	07.06.2024	07.06.2024
3	Site Name		GGS - 01	EDN - 169	EDN - 184	EDN - 184	EDD - 006	EDD - 006
4	Village Name		KHATGORIA	SARENGA	GOPEDANGA	GOPEDANGA	GOPEDANGA	GOPEDANGA
5	Stack connected to		125 KVA GG Set [Sl.No.- JCHM - 427228]	125 KVA GG Set [Sl.No.- PLHM - 105085]	125 KVA GG Set [Sl.No. EBHM 407478]	125 KVA GG Set [Sl.No. EBHM 401928]	50 KVA DG Set [Sl. No.- 120843783]	50 KVA GG Set [Sl. No.- KEHM - 112682]
6	Emission due to		Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of HSD	Combustion of CBM
7	Material of construction of stack		M.S.	M.S.	M.S.	M.S.	M.S.	M.S.
8	Shape of stack		Circular	Circular	Circular	Circular	Circular	Circular
9	Height of the stack from ground level		4.57 m.	3.65 m.	3.96 m.	4.57 m.	4.26 m.	3.65 m.
10	Height of the sampling point from ground level		3.35 m.	3.04 m.	3.35 m.	3.65 m.	3.65 m.	3.04 m.
11	Diameter of the stack at Sampling Point		0.1015 m	0.1015 m	0.1015 m	0.1015 m	0.1015 m	0.1015 m
12	Fuel used		CBM	CBM	CBM	CBM	HSD	CBM
13	Temperature of emission, (deg. C)		137	130	132	112	55	58
14	Barometric pressure, (mm of Hg)		752	752	752	752	752	752
15	Velocity of gas in stack, (m/Sec)		10.79	11.14	10.73	10.89	7.88	7.92
16	Quantity of gas flow, (Nm^3/hr)		226.17	237.55	227.69	243.10	206.45	205.63
17	Total Conc. Nox + NMHC , (g/Kw-hr)	≤ 4.0	0.0793	0.0800	0.0802	0.0843	0.1109	0.1262
18	Concentration of Carbon Monoxide (CO), (g/Kw-hr)	≤ 3.5	0.09	0.10	0.09	0.11	0.17	0.16
19	Concentration of Particulate Matter (PM), (g/Kw-hr)	≤ 0.2	0.00	0.00	0.00	0.00	0.12	0.00

	A	B	AS	AT	AU	AV	AW	AX
1	NO. OF STACKS	Standard as per the G.S.R.281(E) dated 07/03/2016	43	44	45	46	47	48
2	Date of Sampling		07.06.2024	07.06.2024	07.06.2024	07.06.2024	07.06.2024	07.06.2024
3	Site Name		EDD - 015	EDD - 015	EDD - 011	EDD - 004	EDI - 040	EDI - 046
4	Village Name		BORGARIA	BORGARIA	BORGARIA	BORGARIA	SARASWATIGUNGE	AKANDARA
5	Stack connected to		125 KVA GG Set [Sl. No.- KXHM - 412775]	125 KVA GG Set [Sl. No.- HAHM - 424136]	125 KVA GG Set [Sl. No.- EDHM - 401932]	125 KVA GG Set [Sl. No. FAHM - 412381]	50 KVA DG Set [Sl.No.: 120846371]	50 KVA DG Set [Sl.No. 110207090]
6	Emission due to		Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of HSD	Combustion of HSD
7	Material of construction of stack		M.S.	M.S.	M.S.	M.S.	M.S.	M.S.
8	Shape of stack		Circular	Circular	Circular	Circular	Circular	Circular
9	Height of the stack from ground level		4.57 m.	4.57 m.	3.65 m.	3.65 m.	5.08 m.	4.26 m.
10	Height of the sampling point from ground level		3.35 m.	3.65 m.	3.04 m.	3.04 m.	4.57 m.	3.65 m.
11	Diameter of the stack at Sampling Point		0.1015 m	0.1015 m	0.1015 m	0.1015 m	0.1015 m	0.1015 m
12	Fuel used		CBM	CBM	CBM	CBM	HSD	HSD
13	Temperature of emission, (deg. C)		109	98	105	118	83	65
14	Barometric pressure, (mm of Hg)		752	752	752	752	752	752
15	Velocity of gas in stack, (m/Sec)		10.42	10.27	10.79	10.54	8.17	7.96
16	Quantity of gas flow, (Nm^3/hr)		234.45	237.90	245.35	231.67	188.28	198.72
17	Total Conc. Nox + NMHC , (g/Kw-hr)	≤ 4.0	0.0893	0.0967	0.0901	0.1016	0.1411	0.1172
18	Concentration of Carbon Monoxide (CO), (g/Kw-hr)	≤ 3.5	0.10	0.11	0.10	0.09	0.13	0.15
19	Concentration of Particulate Matter (PM), (g/Kw-hr)	≤ 0.2	0.00	0.00	0.00	0.00	0.10	0.09

	A	B	AY	AZ	BA	BB	BC	BD
1	NO. OF STACKS	Standard as per the G.S.R.281(E) dated 07/03/2016	49	50	51	52	53	54
2	Date of Sampling		07.06.2024	07.06.2024	08.06.2024	08.06.2024	08.06.2024	08.06.2024
3	Site Name		EDN - 162	EDI - 115	EDE - 300	EDD - 011	EDD - 015	EDD - 017
4	Village Name		BHALUKKODA	SARASWATIGUNGE	JATGORIA	BORGORIA	PRATAPPUR	PRATAPPUR
5	Stack connected to		125 KVA DG Set [Sl.No.84075228]	50 KVA DG Set [Sl.No.: 110524643]	50 KVA DG Set [Sl.No.- 110524308]	50 KVA DG Set [Sl.No.- 120846379]	50 KVA DG Set [Sl.No.- 110527923]	125 KVA DG Set [Sl.No.- 120846380]
6	Emission due to		Combustion of HSD	Combustion of HSD	Combustion of HSD	Combustion of HSD	Combustion of HSD	Combustion of HSD
7	Material of construction of stack		M.S.	M.S.	M.S.	M.S.	M.S.	M.S.
8	Shape of stack		Circular	Circular	Circular	Circular	Circular	Circular
9	Height of the stack from ground level		4.26 m.	3.65 m.	3.65 m.	4.57 m.	4.26 m.	3.65 m.
10	Height of the sampling point from ground level		3.04 m.	3.04 m.	3.04 m.	3.04 m.	3.65 m.	3.04 m.
11	Diameter of the stack at Sampling Point		0.1015 m	0.1015 m	0.1015 m	0.1015 m	0.1015 m	0.1015 m
12	Fuel used		HSD	HSD	HSD	HSD	HSD	HSD
13	Temperature of emission, (deg. C)		125	49	68	63	62	110
14	Barometric pressure, (mm of Hg)		752	752	752	752	752	752
15	Velocity of gas in stack, (m/Sec)		10.58	7.77	8.48	7.93	7.91	10.33
16	Quantity of gas flow, (Nm^3/hr)		224.35	204.49	208.26	198.78	198.31	226.20
17	Total Conc. Nox + NMHC , (g/Kw-hr)	≤ 4.0	0.0834	0.1323	0.1183	0.1423	0.1264	0.0937
18	Concentration of Carbon Monoxide (CO), (g/Kw-hr)	≤ 3.5	0.10	0.15	0.14	0.14	0.15	0.10
19	Concentration of Particulate Matter (PM), (g/Kw-hr)	≤ 0.2	0.08	0.10	0.11	0.10	0.11	0.08

	A	B	BE	BF	BG	BH	BI	BJ
1	NO. OF STACKS	Standard as per the G.S.R.281(E) dated 07/03/2016	55	56	57	58	59	60
2	Date of Sampling		08.06.2024	08.06.2024	08.06.2024	08.06.2024	08.06.2024	08.06.2024
3	Site Name		EDD - 022	EDD - 022	EDD - 022	EDD - 022	EDE - 001	EDE - 005
4	Village Name		GOPEDANGA	GOPEDANGA	GOPEDANGA	GOPEDANGA	JATGORIA	JATGORIA
5	Stack connected to		125 KVA GG Set [Sl.No.- LMHM - 113675]	125 KVA GG Set [Sl.No.- NGHM - 110968]	125 KVA GG Set [Sl.No.- NJHM - 105650]	125 KVA DG Set [Sl.No.- P 84074159]	125 KVA GG Set [Sl.No.- DBHM 402382]	125 KVA GG Set [Sl.No.- LMHM 115276]
6	Emission due to		Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of HSD	Combustion of CBM	Combustion of CBM
7	Material of construction of stack		M.S.	M.S.	M.S.	M.S.	M.S.	M.S.
8	Shape of stack		Circular	Circular	Circular	Circular	Circular	Circular
9	Height of the stack from ground level		4.57 m.	4.57 m.	4.26 m.	3.65 m.	4.26 m.	3.65 m.
10	Height of the sampling point from ground level		3.65 m.	3.65 m.	3.04 m.	3.04 m.	3.65 m.	3.04 m.
11	Diameter of the stack at Sampling Point		0.1015 m	0.1015 m	0.1015 m	0.1015 m	0.1015 m	0.1015 m
12	Fuel used		CBM	CBM	CBM	HSD	CBM	CBM
13	Temperature of emission, (deg. C)		110	107	103	121	88	90
14	Barometric pressure, (mm of Hg)		752	752	752	752	752	752
15	Velocity of gas in stack, (m/Sec)		10.43	10.39	10.76	10.51	9.70	9.27
16	Quantity of gas flow, (Nm^3/hr)		231.30	232.25	243.09	223.10	228.24	216.91
17	Total Conc. Nox + NMHC , (g/Kw-hr)	≤ 4.0	0.0832	0.0924	0.1038	0.0909	0.0912	0.0929
18	Concentration of Carbon Monoxide (CO), (g/Kw-hr)	≤ 3.5	0.10	0.09	0.11	0.09	0.09	0.10
19	Concentration of Particulate Matter (PM), (g/Kw-hr)	≤ 0.2	0.00	0.00	0.00	0.07	0.00	0.00

	A	B	BK	BL	BM	BN	BO	BP
1	NO. OF STACKS	Standard as per the G.S.R.281(E) dated 07/03/2016	61	62	63	64	65	66
2	Date of Sampling		08.06.2024	08.06.2024	08.06.2024	08.06.2024	08.06.2024	09.06.2024
3	Site Name		EDE - 025	EDE - 019	EDD - 002	EDD - 008	EDD - 021	EDD - 364
4	Village Name		JATGORIA	JATGORIA	JATGORIA	JAMBON	JAMBON	GOPEDANGA
5	Stack connected to		125 KVA GG Set [Sl.No.- NJHM 110977]	125 KVA GG Set [Sl.No.- DBHM 402345]	63 KVA GG Set [Sl.No.- KXHM 412277]	125 KVA GG Set [Sl.No.- PLHM 105082]	125 KVA GG Set [Sl.No.- EXHM 412156]	50 KVA DG Set [Sl.No.- 110524514]
6	Emission due to		Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of HSD
7	Material of construction of stack		M.S.	M.S.	M.S.	M.S.	M.S.	M.S.
8	Shape of stack		Circular	Circular	Circular	Circular	Circular	Circular
9	Height of the stack from ground level		4.26 m.	3.65 m.	4.57 m.	4.26 m.	4.26 m.	4.26 m.
10	Height of the sampling point from ground level		3.04 m.	3.04 m.	3.65 m.	3.04 m.	3.04 m.	3.04 m.
11	Diameter of the stack at Sampling Point		0.1015 m	0.1015 m	0.1015 m	0.1015 m	0.1015 m	0.1015 m
12	Fuel used		CBM	CBM	CBM	CBM	CBM	HSD
13	Temperature of emission, (deg. C)		54	86	49	87	108	67
14	Barometric pressure, (mm of Hg)		752	752	752	752	752	752
15	Velocity of gas in stack, (m/Sec)		7.87	10.10	8.28	10.11	10.83	7.98
16	Quantity of gas flow, (Nm^3/hr)		204.41	238.98	218.40	238.57	241.48	196.58
17	Total Conc. Nox + NMHC , (g/Kw-hr)	≤ 4.0	0.0910	0.0945	0.1120	0.0996	0.1083	0.1527
18	Concentration of Carbon Monoxide (CO), (g/Kw-hr)	≤ 3.5	0.09	0.10	0.17	0.10	0.10	0.15
19	Concentration of Particulate Matter (PM), (g/Kw-hr)	≤ 0.2	0.00	0.00	0.00	0.00	0.00	0.10

	A	B	BQ	BR	BS	BT	BU	BV
1	NO. OF STACKS	Standard as per the G.S.R.281(E) dated 07/03/2016	67	68	69	70	71	72
2	Date of Sampling		09.06.2024	09.06.2024	09.06.2024	09.06.2024	09.06.2024	09.06.2024
3	Site Name		EDC - 072	EDH - 044	GGS - 002	GGS - 002	EDG - 075	EDG - 075
4	Village Name		PARULIA	AKANDARA	AKANDARA	AKANDARA	PARULIA	PARULIA
5	Stack connected to		125 KVA DG Set [Sl.No.- P - 84074158]	63 KVA GG Set [Sl.No.- PJHM - 109155]	125 KVA GG Set [Sl.No.- DCHM - 400073]	125 KVA DG Set [Sl.No.- P - 84074703]	125 KVA GG Set [Sl.No.- KXHM - 412777]	125 KVA GG Set [Sl.No.- JBHM - 428266]
6	Emission due to		Combustion of HSD	Combustion of CBM	Combustion of CBM	Combustion of HSD	Combustion of CBM	Combustion of CBM
7	Material of construction of stack		M.S.	M.S.	M.S.	M.S.	M.S.	M.S.
8	Shape of stack		Circular	Circular	Circular	Circular	Circular	Circular
9	Height of the stack from ground level		4.57 m.	4.15 m.	3.65 m.	3.65 m.	4.26 m.	4.26 m.
10	Height of the sampling point from ground level		3.26 m.	3.26 m.	3.04 m.	3.04 m.	3.65 m.	3.04 m.
11	Diameter of the stack at Sampling Point		0.1015 m	0.1015 m	0.1015 m	0.1015 m	0.1015 m	0.1015 m
12	Fuel used		HSD	CBM	CBM	HSD	CBM	CBM
13	Temperature of emission, (deg. C)		126	58	106	119	109	106
14	Barometric pressure, (mm of Hg)		752	752	752	752	752	752
15	Velocity of gas in stack, (m/Sec)		10.12	7.92	10.38	10.47	9.97	10.38
16	Quantity of gas flow, (Nm^3/hr)		212.41	206.63	236.51	224.64	221.19	232.13
17	Total Conc. Nox + NMHC , (g/Kw-hr)	≤ 4.0	0.0930	0.0912	0.1026	0.0952	0.0854	0.1129
18	Concentration of Carbon Monoxide (CO), (g/Kw-hr)	≤ 3.5	0.09	0.13	0.11	0.09	0.09	0.10
19	Concentration of Particulate Matter (PM), (g/Kw-hr)	≤ 0.2	0.07	0.00	0.00	0.07	0.00	0.00

	A	B	BW	BX	BY	BZ	CA	CB
1	NO. OF STACKS	Standard as per the G.S.R.281(E) dated 07/03/2016	73	74	75	76	77	78
2	Date of Sampling		09.06.2024	09.06.2024	09.06.2024	09.06.2024	09.06.2024	09.06.2024
3	Site Name		EDG - 075	EDC - 074	EDG - 240	EDC - 077	EDO - 049	EDD - 049
4	Village Name		PARULIA	PARULIA	PARULIA	KAMALPUR	NACHAN	NACHAN
5	Stack connected to		125 KVA GG Set [Sl.No.- MJHM - 107178]	125 KVA DG Set [Sl.No.- P - 84076199]	50 KVA DG Set [Sl.No.- 110527558]	125 KVA GG Set [Sl.No.- JOHM - 427226]	125 KVA DG Set [Sl.No.- P - 84076196]	125 KVA GG Set [Sl.No.- KBHM - 111921]
6	Emission due to		Combustion of CBM	Combustion of HSD	Combustion of HSD	Combustion of CBM	Combustion of HSD	Combustion of CBM
7	Material of construction of stack		M.S.	M.S.	M.S.	M.S.	M.S.	M.S.
8	Shape of stack		Circular	Circular	Circular	Circular	Circular	Circular
9	Height of the stack from ground level		4.15 m.	4.57 m.	3.65 m.	4.19 m.	3.65 m.	4.26 m.
10	Height of the sampling point from ground level		3.65 m.	3.04 m.	3.04 m.	3.65 m.	3.04 m.	4.15 m.
11	Diameter of the stack at Sampling Point		0.1015 m	0.1015 m	0.1015 m	0.1015 m	0.1015 m	0.1015 m
12	Fuel used		CBM	HSD	HSD	CBM	HSD	CBM
13	Temperature of emission, (deg. C)		103	102	63	115	116	108
14	Barometric pressure, (mm of Hg)		752	752	752	752	752	752
15	Velocity of gas in stack, (m/Sec)		10.76	9.42	7.98	10.50	10.07	9.96
16	Quantity of gas flow, (Nm^3/hr)		233.50	212.86	201.24	232.58	222.47	224.68
17	Total Conc. Nox + NMHC , (g/Kw-hr)	≤ 4.0	0.0846	0.1012	0.1372	0.0928	0.0954	0.0958
18	Concentration of Carbon Monoxide (CO), (g/Kw-hr)	≤ 3.5	0.09	0.09	0.15	0.09	0.10	0.10
19	Concentration of Particulate Matter (PM), (g/Kw-hr)	≤ 0.2	0.00	0.07	0.08	0.00	0.08	0.00

	A	B	CC	CD	CE	CF	CG	CH
1	NO. OF STACKS	Standard as per the G.S.R.281(E) dated 07/03/2016	79	80	81	82	83	84
2	Date of Sampling		09.06.2024	10.06.2024	10.06.2024	10.06.2024	10.06.2024	10.06.2024
3	Site Name		EDD - 049	EDH - 033	EDH - 029	EDD - 050	EDD - 052	EDD - 052
4	Village Name		NACHAN	LABNAPUR	DHABANI	PRATAPPUR	PRATAPPUR	PRATAPPUR
5	Stack connected to		125 KVA GG Set [Sl.No.- LMHM - 113679]	125 KVA GG Set [Sl.No.- MJHM - 105654]	63 KVA GG Set [Sl.No.- NGHM - 110965]	125 KVA GG Set [Sl.No.- KXHM - 412773]	125 KVA GG Set [Sl.No.- PKHM - 1108349]	50 KVA GG Set [Sl.No.- PJHM - 109158]
6	Emission due to		Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of CBM
7	Material of construction of stack		M.S.	M.S.	M.S.	M.S.	M.S.	M.S.
8	Shape of stack		Circular	Circular	Circular	Circular	Circular	Circular
9	Height of the stack from ground level		3.65 m.	3.65 m.	4.26 m.	4.15 m.	3.65 m.	4.26 m.
10	Height of the sampling point from ground level		3.04 m.	3.04 m.	3.04 m.	3.04 m.	3.04 m.	3.04 m.
11	Diameter of the stack at Sampling Point		0.1015 m	0.1015 m	0.1015 m	0.1015 m	0.1015 m	0.1015 m
12	Fuel used		CBM	CBM	CBM	CBM	CBM	CBM
13	Temperature of emission, (deg. C)		107	103	61	109	111	53
14	Barometric pressure, (mm of Hg)		752	752	752	752	752	752
15	Velocity of gas in stack, (m/Sec)		10.39	10.76	8.44	10.42	10.45	7.86
16	Quantity of gas flow, (Nm^3/hr)		235.01	245.95	217.15	234.44	233.89	207.20
17	Total Conc. Nox + NMHC , (g/Kw-hr)	≤ 4.0	0.1056	0.0962	0.1155	0.1033	0.1073	0.1130
18	Concentration of Carbon Monoxide (CO), (g/Kw-hr)	≤ 3.5	0.10	0.10	0.11	0.09	0.09	0.17
19	Concentration of Particulate Matter (PM), (g/Kw-hr)	≤ 0.2	0.00	0.00	0.00	0.00	0.00	0.00

	A	B	CI	CJ	CK	CL	CM	CN
1	NO. OF STACKS	Standard as per the G.S.R.281(E) dated 07/03/2016	85	86	87	88	89	90
2	Date of Sampling		10.06.2024	10.06.2024	10.06.2024	10.06.2024	10.06.2024	10.06.2024
3	Site Name		EDD - 053	EDD - 053	EDD - 053	EDD - 054	EDD - 064	EDH - 065
4	Village Name		NACHAN	NACHAN	NACHAN	NACHAN	AKANDARA	JEMOAH
5	Stack connected to		125 KVA GG Set [Sl.No.- KEHM - 111922]	125 KVA GG Set [Sl.No.- MHHM - 107177]	125 KVA DG Set [Sl.No.- P - 84074461]	125 KVA GG Set [Sl.No.- KXHM - 412783]	125 KVA GG Set [Sl.No.- FBHM - 409893]	125 KVA GG Set [Sl.No.- KXHM - 412771]
6	Emission due to		Combustion of CBM	Combustion of CBM	Combustion of HSD	Combustion of CBM	Combustion of CBM	Combustion of CBM
7	Material of construction of stack		M.S.	M.S.	M.S.	M.S.	M.S.	M.S.
8	Shape of stack		Circular	Circular	Circular	Circular	Circular	Circular
9	Height of the stack from ground level		4.57 m.	3.65 m.	3.96 m.	3.96 m.	3.96 m.	4.26 m.
10	Height of the sampling point from ground level		3.35 m.	3.04 m.	3.35 m.	3.04 m.	3.35 m.	3.96 m.
11	Diameter of the stack at Sampling Point		0.1015 m	0.1015 m	0.1015 m	0.1015 m	0.1015 m	0.1015 m
12	Fuel used		CBM	CBM	HSD	CBM	CBM	CBM
13	Temperature of emission, (deg. C)		115	107	116	129	127	124
14	Barometric pressure, (mm of Hg)		752	752	752	752	752	752
15	Velocity of gas in stack, (m/Sec)		10.93	10.39	10.51	10.69	10.66	11.06
16	Quantity of gas flow, (Nm^3/hr)		242.10	234.99	232.19	228.53	229.05	239.45
17	Total Conc. Nox + NMHC , (g/Kw-hr)	≤ 4.0	0.1148	0.1169	0.1030	0.1001	0.1121	0.1050
18	Concentration of Carbon Monoxide (CO), (g/Kw-hr)	≤ 3.5	0.11	0.10	0.09	0.09	0.10	0.10
19	Concentration of Particulate Matter (PM), (g/Kw-hr)	≤ 0.2	0.00	0.00	0.08	0.00	0.00	0.00

	A	B	CO	CP	CQ	CR	CS	CT
1	NO. OF STACKS	Standard as per the G.S.R.281(E) dated 07/03/2016	91	92	93	94	95	96
2	Date of Sampling		13.06.2024	13.06.2024	13.06.2024	13.06.2024	13.06.2024	13.06.2024
3	Site Name		EDC - 411	EDC - 413	RO # 064	RO # 064	RO # 064	WAREHOUSE
4	Village Name		BANSIA	PARULIA	AKANDARA	AKANDARA	AKANDARA	GOPALPUR
5	Stack connected to		125 KVA GG Set [Sl.No.- GDHM - 408292]	125 KVA GG Set [Sl.No.- MJHM - 105651]	250 KVA GG Set [Sl.No.- G 919COO3296]	250 KVA GG Set [Sl.No.- G 9199002504]	250 KVA GG Set [Sl.No.- FAHM - 412144]	125 KVA DG Set
6	Emission due to		Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of HSD
7	Material of construction of stack		M.S.	M.S.	M.S.	M.S.	M.S.	M.S.
8	Shape of stack		Circular	Circular	Circular	Circular	Circular	Circular
9	Height of the stack from ground level		4.26 m.	3.65 m.	4.26 m.	4.26 m.	3.04 m.	4.57 m.
10	Height of the sampling point from ground level		3.04 m.	3.04 m.	3.65 m.	3.04 m.	3.00 m.	3.65 m.
11	Diameter of the stack at Sampling Point		0.1015 m	0.1015 m	0.1015 m	0.1015 m	0.1015 m	0.1015 m
12	Fuel used		CBM	CBM	CBM	CBM	CBM	HSD
13	Temperature of emission, (deg. C)		82	90	144	148	96	174
14	Barometric pressure, (mm of Hg)		752	752	752	752	752	752
15	Velocity of gas in stack, (m/Sec)		10.05	9.73	11.76	11.82	10.25	10.76
16	Quantity of gas flow, (Nm^3/hr)		243.32	230.36	242.41	241.34	238.73	227.22
17	Total Conc. Nox + NMHC , (g/Kw-hr)	≤ 4.0	0.0983	0.1056	0.0791	0.0727	0.0690	0.1041
18	Concentration of Carbon Monoxide (CO), (g/Kw-hr)	≤ 3.5	0.11	0.10	0.07	0.07	0.06	0.09
19	Concentration of Particulate Matter (PM), (g/Kw-hr)	≤ 0.2	0.00	0.00	0.00	0.00	0.00	0.08

	A	B	CU	CV	CW	CX	CY	CZ
1	NO. OF STACKS	Standard as per the G.S.R.281(E) dated 07/03/2016	97	98	99	100	101	102
2	Date of Sampling		14.06.2024	14.06.2024	14.06.2024	14.06.2024	14.06.2024	**03.12.2024**
3	Site Name		MCS	MCS	MCS	GGS	MCS	EDC - 074
4	Village Name		MALANDIGHI - 1	MALANDIGHI - 2	MALANDIGHI - 3		MALANDIGHI	PARULIA
5	Stack connected to		250 KVA GG Set [SL.No. G 9211000228]	250 KVA GG Set [SL.No. G 9212000433]	250 KVA GG Set [SL.No. G 9212000433]	50 KVA DG Set [SL.No. 110528004]	125 KVA DG Set [SL.No. P 84075275]	125 KVA DG Set [Sl. No. P 84876199]
6	Emission due to		Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of HSD	Combustion of HSD	Combustion of HSD
7	Material of construction of stack		M.S.	M.S.	M.S.	M.S.	M.S.	M.S.
8	Shape of stack		Circular	Circular	Circular	Circular	Circular	Circular
9	Height of the stack from ground level		4.57 m.	3.65 m.	3.65 m.	4.26 m.	4.26 m.	4.65 m.
10	Height of the sampling point from ground level		3.65 m.	3.04 m.	3.04 m.	3.04 m.	3.04 m.	4.20 m.
11	Diameter of the stack at Sampling Point		0.1015 m	0.1015 m	0.1015 m	0.1015 m	0.1015 m	0.1015 m.
12	Fuel used		CBM	CBM	CBM	HSD	HSD	HSD
13	Temperature of emission, (deg. C)		150	148	138	49	106	132
14	Barometric pressure, (mm of Hg)		752	752	752	752	752	758
15	Velocity of gas in stack, (m/Sec)		12.18	11.65	11.84	7.81	10.38	10.63
16	Quantity of gas flow, (Nm^3/hr)		247.50	237.85	247.61	208.44	235.39	223.11
17	Total Conc. Nox + NMHC , (g/Kw-hr)	≤ 4.0	0.0793	0.0732	0.0868	0.1084	0.1006	0.0972
18	Concentration of Carbon Monoxide (CO), (g/Kw-hr)	≤ 3.5	0.07	0.06	0.07	0.16	0.09	0.09
19	Concentration of Particulate Matter (PM), (g/Kw-hr)	≤ 0.2	0.00	0.00	0.00	0.11	0.07	0.08

	A	B	DA	DB	DC	DD	DE	DF
1	NO. OF STACKS	Standard as per the G.S.R.281(E) dated 07/03/2016	103	104	105	106	107	108
2	Date of Sampling		**03.12.2024**	**03.12.2024**	**03.12.2024**	**03.12.2024**	**03.12.2024**	**03.12.2024**
3	Site Name		EDC - 074	EDG - 240	EDG - 077	EDG - 077	EDC - 074	EDC - 074
4	Village Name		PARULIA	PARULIA	KAMALPUR	KAMALPUR	PARULIA	PARULIA
5	Stack connected to		125 KVA GG Set [Sl. No. MJHM 105651]	50 KVA DG [Sl.No. 110527558]	50 KVA DG [Sl.No. 110527566]	125 KVA GG [Sl.No. JCHM 427226]	125 KVA GG [Sl.No. KXHM 41277]	125 KVA GG Set [Sl.No. MHHM 107178]
6	Emission due to		Combustion of CBM	Combustion of HSD	Combustion of HSD	Combustion of CBM	Combustion of CBM	Combustion of CBM
7	Material of construction of stack		M.S.	M.S.	M.S.	M.S.	M.S.	M.S.
8	Shape of stack		Circular	Circular	Circular	Circular	Circular	Circular
9	Height of the stack from ground level		4.65 m.	3.21 m.	3.65 m.	4.28 m.	4.21 m.	3.85 m.
10	Height of the sampling point from ground level		3.65 m.	3.15 m.	3.15 m.	4.10 m.	4.11 m.	3.24 m.
11	Diameter of the stack at Sampling Point		0.1015 m.	0.1015 m.	0.1015 m	0.1015 m	0.1015 m	0.1015 m
12	Fuel used		CBM	HSD	HSD	CBM	CBM	CBM
13	Temperature of emission, (deg. C)		127	58	82	142	94	102
14	Barometric pressure, (mm of Hg)		758	758	758	758	758	758
15	Velocity of gas in stack, (m/Sec)		10.40	7.86	8.91	11.13	9.77	9.31
16	Quantity of gas flow, (Nm^3/hr)		219.17	202.02	213.24	227.04	227.71	210.20
17	Total Conc. Nox + NMHC , (g/Kw-hr)	≤ 4.0	0.0675	0.1649	0.1902	0.0760	0.0813	0.0685
18	Concentration of Carbon Monoxide (CO), (g/Kw-hr)	≤ 3.5	0.07	0.13	0.13	0.07	0.07	0.06
19	Concentration of Particulate Matter (PM), (g/Kw-hr)	≤ 0.2	0.00	0.11	0.13	0.00	0.00	0.00

	A	B	DG	DH	DI	DJ	DK	DL
1	NO. OF STACKS	Standard as per the G.S.R.281(E) dated 07/03/2016	109	110	111	112	113	114
2	Date of Sampling		**03.12.2024**	**03.12.2024**	**04.12.2024**	**04.12.2024**	**04.12.2024**	**04.12.2024**
3	Site Name		EDC - 074	EDG- 240	EDC - 072	EDC - 072	EDC - 072	EDC - 409
4	Village Name		PARULIA	PARULIA	NACHAN	NACHAN	NACHAN	PRATAPPUR
5	Stack connected to		62.5 KVA GG Set [Sl.No. NFHM 112834]	125 KVA GG Set [Sl.No. PNHM 112832]	62.5 KVA GG Set [Sl.No. LMHM 113681]	125 KVA GG Set [Sl.No. JHHM 437319]	125 KVA GG Set [Sl.No. ERHM 425544]	125 KVA GG Set [Sl.No. PNHM 101786]
6	Emission due to		Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of CBM
7	Material of construction of stack		M.S.	M.S.	M.S.	M.S.	M.S.	M.S.
8	Shape of stack		Circular	Circular	Circular	Circular	Circular	Circular
9	Height of the stack from ground level		4.65 m.	3.65 m.	4.21 m.	4.67 m.	4.65 m.	4.21 m.
10	Height of the sampling point from ground level		4.21 m.	3.21 m.	3.65 m.	3.25 m.	3.62 m.	3.21 m.
11	Diameter of the stack at Sampling Point		0.1015 m	0.1015 m	0.1015 m	0.1015 m	0.1015 m	0.1015 m
12	Fuel used		CBM	CBM	CBM	CBM	CBM	CBM
13	Temperature of emission, (deg. C)		82	104	70	92	119	122
14	Barometric pressure, (mm of Hg)		758	758	759	759	759	759
15	Velocity of gas in stack, (m/Sec)		8.08	9.52	8.67	10.18	10.29	10.15
16	Quantity of gas flow, (Nm^3/hr)		192.96	214.37	212.77	236.45	221.30	217.22
17	Total Conc. Nox + NMHC , (g/Kw-hr)	≤ 4.0	0.0802	0.0751	0.0980	0.0820	0.0677	0.0761
18	Concentration of Carbon Monoxide (CO), (g/Kw-hr)	≤ 3.5	0.09	0.09	0.10	0.08	0.07	0.07
19	Concentration of Particulate Matter (PM), (g/Kw-hr)	≤ 0.2	0.00	0.00	0.00	0.00	0.00	0.00

	A	B	DM	DN	DO	DP	DQ	DR
1	NO. OF STACKS	Standard as per the G.S.R.281(E) dated 07/03/2016	115	116	117	118	119	120
2	Date of Sampling		**04.12.2024**	**04.12.2024**	**04.12.2024**	**04.12.2024**	**04.12.2024**	**04.12.2024**
3	Site Name		EDI - 411	EDC - 413	EDD - 244	EDD - 026	EDH - 065	EDH - 058
4	Village Name		BANSIA	PARULIA	NACHAN	KANTABERIA	JEMOAH	LABNAPUR
5	Stack connected to		125 KVA GG Set [Sl.No.PJHM-109356]	125 KVA GG Set [Sl.No. KXHM 412782]	63 KVA GG Set [Sl.No. NGHM 110975]	125 KVA GG Set [Sl.No. EDHM 401930]	125 KVA GG Set [Sl.No. DAHM 40441]	62.5 KVA GG Set [Sl.No. NFHM 112835]
6	Emission due to		Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of CBM
7	Material of construction of stack		M.S.	M.S.	M.S.	M.S.	M.S.	M.S.
8	Shape of stack		Circular	Circular	Circular	Circular	Circular	Circular
9	Height of the stack from ground level		4.65 m.	3.65 m.	4.00 m.	4.65 m.	5.12 m.	4.21 m.
10	Height of the sampling point from ground level		3.16 m.	3.12 m.	3.29 m.	3.85 m.	4.21 m.	3.65 m.
11	Diameter of the stack at Sampling Point		0.1015 m	0.1015 m	0.1015 m	0.1015 m	0.1015 m	0.1015 m
12	Fuel used		CBM	CBM	CBM	CBM	CBM	CBM
13	Temperature of emission, (deg. C)		104	107	79	109	114	68
14	Barometric pressure, (mm of Hg)		759	759	759	759	759	759
15	Velocity of gas in stack, (m/Sec)		10.27	10.51	8.30	10.00	9.88	8.00
16	Quantity of gas flow, (Nm^3/hr)		229.64	232.86	199.60	221.30	214.63	196.94
17	Total Conc. Nox + NMHC , (g/Kw-hr)	≤ 4.0	0.0799	0.0795	0.0833	0.0815	0.0708	0.1000
18	Concentration of Carbon Monoxide (CO), (g/Kw-hr)	≤ 3.5	0.07	0.08	0.10	0.07	0.07	0.09
19	Concentration of Particulate Matter (PM), (g/Kw-hr)	≤ 0.2	0.00	0.00	0.00	0.00	0.00	0.00

	A	B	DS	DT	DU	DV	DW	DX
1	NO. OF STACKS	Standard as per the G.S.R.281(E) dated 07/03/2016	121	122	123	124	125	126
2	Date of Sampling		**09.12.2024**	**09.12.2024**	**09.12.2024**	**09.12.2024**	**09.12.2024**	**09.12.2024**
3	Site Name		EDD - 017	EDD - 017	EDD - 405	EDD - 405	EDD - 404	EDD - 403
4	Village Name		PRATAPPUR	PRATAPPUR	KALIKAPUR	KALIKAPUR	KALIKAPUR	KHATGORIA
5	Stack connected to		125 KVA GG Set [Sl.No. PLHM 105848]	125 KVA GG Set [Sl.No. PLHM 109167]	125 KVA GG Set [Sl.No. DSHM 412618]	125 KVA GG Set [Sl.No. DSHM 412618]	125 KVA GG Set [Sl.No. DBHM 402845]	125 KVA GG Set [Sl.No. JBHM - 428269]
6	Emission due to		Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of CBM
7	Material of construction of stack		M.S.	M.S.	M.S.	M.S.	M.S.	M.S.
8	Shape of stack		Circular	Circular	Circular	Circular	Circular	Circular
9	Height of the stack from ground level		4.24 m.	5.12 m.	3.65 m.	4.23 m.	3.65 m.	4.20 m.
10	Height of the sampling point from ground level		3.21 m.	3.00 m.	3.12m.	3.00 m.	3.28 m.	3.65 m.
11	Diameter of the stack at Sampling Point		0.1015 m	0.1015 m	0.1015 m	0.1015 m	0.1015 m	0.1015 m
12	Fuel used		CBM	CBM	CBM	CBM	CBM	CBM
13	Temperature of emission, (deg. C)		122	118	126	119	109	106
14	Barometric pressure, (mm of Hg)		759	759	759	759	759	759
15	Velocity of gas in stack, (m/Sec)		1015.00	9.72	9.46	9.44	9.26	9.19
16	Quantity of gas flow, (Nm^3/hr)		216.93	209.55	200.41	204.54	204.63	205.55
17	Total Conc. Nox + NMHC , (g/Kw-hr)	≤ 4.0	0.0743	0.0757	0.0724	0.0712	0.0701	0.0713
18	Concentration of Carbon Monoxide (CO), (g/Kw-hr)	≤ 3.5	0.08	0.08	0.07	0.07	0.07	0.07
19	Concentration of Particulate Matter (PM), (g/Kw-hr)	≤ 0.2	0.00	0.00	0.00	0.00	0.00	0.00

	A	B	DY	DZ	EA	EB	EC	ED
1	NO. OF STACKS	Standard as per the G.S.R.281(E) dated 07/03/2016	127	128	129	130	131	132
2	Date of Sampling		**09.12.2024**	**09.12.2024**	**10.12.2024**	**10.12.2024**	**10.12.2024**	**10.12.2024**
3	Site Name		EDD I - 009	EDE - 061	EDD - 023	EDD - 020	EDD - 030	EDE - 043
4	Village Name		BORGORIA	JATGORIA	FULJHOR	BARGORIA	AKANDARA	JATGORIA
5	Stack connected to		125 KVA GG Set	50 KVA GG Set [Sl.No. KEHM - 112691]	125 KVA GG Set [Sl.No. KEHM - 111924]	125 KVA GG Set [Sl.No. - DPHM - 416543]	50 KVA GG Set [Sl.No. - KEHM - 112692]	50 KVA GG Set [Sl.No. - DBHM - 102967]
6	Emission due to		Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of CBM
7	Material of construction of stack		M.S.	M.S.	M.S.	M.S.	M.S.	M.S.
8	Shape of stack		Circular	Circular	Circular	Circular	Circular	Circular
9	Height of the stack from ground level		4.37m.	3.24 m.	4.21 m.	3.82 m.	4.25 m.	4.61 m.
10	Height of the sampling point from ground level		3.24 m.	3.00 m.	3.65 m.	3.40 m.	3.65 m.	4.00 m.
11	Diameter of the stack at Sampling Point		0.1015 m	0.1015 m	0.1015 m	0.1015 m	0.1015 m	0.1015 m
12	Fuel used		CBM	HSD	CBM	CBM	CBM	CBM
13	Temperature of emission, (deg. C)		112	80	117	131	114	76
14	Barometric pressure, (mm of Hg)		759	759	759	759	759	759
15	Velocity of gas in stack, (m/Sec)		10.35	8.09	9.50	9.48	8.68	8.12
16	Quantity of gas flow, (Nm^3/hr)		227.57	194.64	205.07	197.29	189.58	196.96
17	Total Conc. Nox + NMHC , (g/Kw-hr)	≤ 4.0	0.0825	0.1024	0.0663	0.0691	0.0914	0.1164
18	Concentration of Carbon Monoxide (CO), (g/Kw-hr)	≤ 3.5	0.08	0.12	0.07	0.07	0.11	0.11
19	Concentration of Particulate Matter (PM), (g/Kw-hr)	≤ 0.2	0.00	0.00	0.00	0.00	0.00	0.00

	A	B	EE	EF	EG	EH	EI	EJ
1	NO. OF STACKS	Standard as per the G.S.R.281(E) dated 07/03/2016	133	134	135	136	137	138
2	Date of Sampling		**10.12.2024**	**10.12.2024**	**10.12.2024**	**10.12.2024**	**10.12.2024**	**11.12.2024**
3	Site Name		EDD - 048	EDE - 060	EDD - 013	EDD - 013	EDI - 401	EDD - 364
4	Village Name		JATGORIA	JATGORIA	JATGORIA	JATGORIA	KHATGORIA	GOPEDANGA
5	Stack connected to		50 KVA GG Set [Sl.No. - DCHM - 1013632]	63 KVA GG Set [Sl.No.: MBHM - 113352]	125 KVA GG Set [Sl. No.- DAHM-404848]	125 KVA GG Set	125 KVA GG Set [SL.NO. - FAHM - 412382]	125 KVA GG Set [Sl.No.- PLHM - 105668]
6	Emission due to		Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of CBM
7	Material of construction of stack		M.S.	M.S.	M.S.	M.S.	M.S.	M.S.
8	Shape of stack		Circular	Circular	Circular	Circular	Circular	Circular
9	Height of the stack from ground level		3.65 m.	4.65 m.	4.15 m.	3.65 m.	4.65 m.	4.21 m.
10	Height of the sampling point from ground level		3.12 m.	4.10 m.	4.00 m.	3.12 m.	4.12 m.	3.40 m.
11	Diameter of the stack at Sampling Point		0.1015 m	0.1015 m	0.1015 m	0.1015 m	0.1015 m	0.1015 m
12	Fuel used		CBM	CBM	CBM	CBM	CBM	CBM
13	Temperature of emission, (deg. C)		63	123	111	109	105	122
14	Barometric pressure, (mm of Hg)		759	759	759	759	759	759
15	Velocity of gas in stack, (m/Sec)		7.89	9.78	9.34	9.97	9.55	10.13
16	Quantity of gas flow, (Nm^3/hr)		197.41	207.91	205.91	220.62	214.74	216.51
17	Total Conc. Nox + NMHC , (g/Kw-hr)	≤ 4.0	0.1118	0.0811	0.0718	0.0747	0.0656	0.0627
18	Concentration of Carbon Monoxide (CO), (g/Kw-hr)	≤ 3.5	0.12	0.10	0.07	0.08	0.07	0.07
19	Concentration of Particulate Matter (PM), (g/Kw-hr)	≤ 0.2	0.00	0.00	0.00	0.00	0.00	0.00

	A	B	EK	EL	EM	EN	EO	EP
1	NO. OF STACKS	Standard as per the G.S.R.281(E) dated 07/03/2016	139	140	141	142	143	144
2	Date of Sampling		**11.12.2024**	**11.12.2024**	**11.12.2024**	**11.12.2024**	**11.12.2024**	**12.12.2024**
3	Site Name		EDD - 364	EDE - 300	EDE - 300	EDD - 301	EDD - 007	EDD - 034
4	Village Name		GOPEDANGA	JATGORIA	JATGORIA	JATGORIA	GOPEDANGA	AKANDARA
5	Stack connected to		63 KVA GG Set [Sl.No. NGHM 110981]	62.5 KVA GG Set [Sl.No. NGHM 110981]	62.5 KVA GG Set [Sl.No. NGHM 110966]	50 KVA GG Set [Sl. No.- DGHM - 101367]	125 KVA GG Set [Sl. No.- PNHM - 100287]	125 KVA GG Set [Sl. No.- KXHM - 412778]
6	Emission due to		Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of CBM
7	Material of construction of stack		M.S.	M.S.	M.S.	M.S.	M.S.	M.S.
8	Shape of stack		Circular	Circular	Circular	Circular	Circular	Circular
9	Height of the stack from ground level		3.24 m.	4.76 m.	4.75 m.	3.24 m.	4.27 m.	4.29 m.
10	Height of the sampling point from ground level		2.80 m.	3.21 m.	3.21 m.	3.20 m.	3.65 m.	3.65 m.
11	Diameter of the stack at Sampling Point		0.1015 m	0.1015 m	0.1015 m	0.1015 m	0.1015 m	0.1015 m
12	Fuel used		CBM	CBM	CBM	CBM	CBM	CBM
13	Temperature of emission, (deg. C)		73	81	75	69	105	132
14	Barometric pressure, (mm of Hg)		759	759	759	759	759	759
15	Velocity of gas in stack, (m/Sec)		8.21	8.30	8.25	7.96	9.72	10.44
16	Quantity of gas flow, (Nm^3/hr)		201.14	198.18	200.53	196.45	218.46	217.00
17	Total Conc. Nox + NMHC , (g/Kw-hr)	≤ 4.0	0.0895	0.0817	0.0953	0.1038	0.0641	0.0573
18	Concentration of Carbon Monoxide (CO), (g/Kw-hr)	≤ 3.5	0.10	0.01	0.09	0.10	0.07	0.07
19	Concentration of Particulate Matter (PM), (g/Kw-hr)	≤ 0.2	0.00	0.00	0.00	0.00	0.00	0.00

	A	B	EQ	ER	ES	ET	EU	EV
1	NO. OF STACKS	Standard as per the G.S.R.281(E) dated 07/03/2016	145	146	147	148	149	150
2	Date of Sampling		**12.12.2024**	**12.12.2024**	**12.12.2024**	**12.12.2024**	**12.12.2024**	**12.12.2024**
3	Site Name		EDH - 046	EDH - 046	EDH - 046	EDI - 032	EDI - 037	ED1 - 037
4	Village Name		AKANDARA	AKANDARA	AKANDARA	AKANDARA	AKANDARA	AKANDARA
5	Stack connected to		125 KVA GG Set [Sl. No.- DSHZ - 412617]	63 KVA GG Set [Sl. No.- NGHM - 110967]	50 KVA GG Set [Sl. No. - 11020790]	125 KVA GG Set [Sl.No.: MJHM-105649]	125 KVA GG Set [Sl.No. LMHM - 115275]	125 KVA GG Set [Sl.No. EDHM - 401931]
6	Emission due to		Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of CBM
7	Material of construction of stack		M.S.	M.S.	M.S.	M.S.	M.S.	M.S.
8	Shape of stack		Circular	Circular	Circular	Circular	Circular	Circular
9	Height of the stack from ground level		3.65 m.	3.24 m.	4.00 m.	4.29 m.	4.65 m.	4.21 m.
10	Height of the sampling point from ground level		3.12 m.	3.10 m.	3.85 m.	3.65 m.	3.21 m.	3.65 m.
11	Diameter of the stack at Sampling Point		0.1015 m	0.1015 m	0.1015 m	0.1015 m	0.1015 m	0.1015 m
12	Fuel used		CBM	CBM	CBM	CBM	CBM	CBM
13	Temperature of emission, (deg. C)		123	68	62	130	128	136
14	Barometric pressure, (mm of Hg)		10.52	759	759	759	759	759
15	Velocity of gas in stack, (m/Sec)		759.00	7.98	8.08	9.26	10.57	9.75
16	Quantity of gas flow, (Nm^3/hr)		215.19	197.27	203.88	194.54	227.14	201.51
17	Total Conc. Nox + NMHC , (g/Kw-hr)	≤ 4.0	0.0622	0.0837	0.1269	0.0544	0.0669	0.0617
18	Concentration of Carbon Monoxide (CO), (g/Kw-hr)	≤ 3.5	0.07	0.08	0.11	0.07	0.08	0.07
19	Concentration of Particulate Matter (PM), (g/Kw-hr)	≤ 0.2	0.00	0.00	0.00	0.00	0.00	0.00

	A	B	EW	EX	EY	EZ	FA	FB
1	NO. OF STACKS	Standard as per the G.S.R.281(E) dated 07/03/2016	151	152	153	154	155	156
2	Date of Sampling		**13.12.2024**	**13.12.2024**	**13.12.2024**	**13.12.2024**	**13.12.2024**	**13.12.2024**
3	Site Name		EDI - 040	EDI - 042	EDI - 070	EDI - 070	EDI - 041	EDD - 050
4	Village Name		SARASWATIGUNGE	SARASWATIGUNGE	GHATAKDANGA	GHATAKDANGA	GHATAKDANGA	PRATAPPUR
5	Stack connected to		125 KVA GG Set [Sl.No. MJHM - 105650]	125 KVA GG Set [Sl.No.- PMHM - 103503]	125 KVA GG Set [Sl.No.- FAHM- 412380]	125 KVA GG Set [Sl.No.- MHHM- 107179]	62.5 KVA GG Set [Sl.No.- KXHM- 412277]	125 KVA GG Set
6	Emission due to		Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of CBM
7	Material of construction of stack		M.S.	M.S.	M.S.	M.S.	M.S.	M.S.
8	Shape of stack		Circular	Circular	Circular	Circular	Circular	Circular
9	Height of the stack from ground level		3.65 m.	4.20 m.	4.65 m.	4.65 m.	3.52 m.	4.25 m.
10	Height of the sampling point from ground level		3.20 m.	3.40 m.	3.21 m.	3.70 m.	3.21 m.	3.25 m.
11	Diameter of the stack at Sampling Point		0.1015 m	0.1015 m	0.1015 m	0.1015 m	0.1015 m	0.1015 m
12	Fuel used		CBM	CBM	CBM	CBM	CBM	CBM
13	Temperature of emission, (deg. C)		106	110	103	112	59	65
14	Barometric pressure, (mm of Hg)		759	759	759	759	759	759
15	Velocity of gas in stack, (m/Sec)		9.55	10.31	10.08	16.54	8.04	7.93
16	Quantity of gas flow, (Nm^3/hr)		213.67	227.27	226.25	231.65	204.14	198.45
17	Total Conc. Nox + NMHC , (g/Kw-hr)	≤ 4.0	0.0746	0.0638	0.0662	0.0686	0.0899	0.0688
18	Concentration of Carbon Monoxide (CO), (g/Kw-hr)	≤ 3.5	0.07	0.07	0.07	0.07	0.10	0.06
19	Concentration of Particulate Matter (PM), (g/Kw-hr)	≤ 0.2	0.00	0.00	0.00	0.00	0.00	0.00

	A	B	FC	FD	FE	FF	FG	FH
1	NO. OF STACKS	Standard as per the G.S.R.281(E) dated 07/03/2016	157	158	159	160	161	162
2	Date of Sampling		**13.12.2024**	**13.12.2024**	**13.12.2024**	**13.12.2024**	**13.12.2024**	**13.12.2024**
3	Site Name		EDI - 071	EDI - 071	EDN - 099	EDN - 099	EDI - 041	EDN - 103
4	Village Name		MCS	MCS	KULDIHA	KULDIHA	GHATAKDANGA	KULDIHA
5	Stack connected to		125 KVA GG Set	125 KVA GG Set [Sl.No.- DFHM-416549]	63 KVA GG Set	62.5 KVA GG Set [Sl.No.- RJHM 109162]	125 KVA GG Set [Sl.No.- HCHM 412976]	125 KVA GG Set [Sl.No.- LMHM 113678]
6	Emission due to		Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of CBM
7	Material of construction of stack		M.S.	M.S.	M.S.	M.S.	M.S.	M.S.
8	Shape of stack		Circular	Circular	Circular	Circular	Circular	Circular
9	Height of the stack from ground level		3.70 m.	4.31 m.	4.21 m.	3.65 m.	4.40 m.	4.21 m.
10	Height of the sampling point from ground level		3.24 m.	3.21 m.	3.21 m.	3.65 m.	3.65 m.	3.21 m.
11	Diameter of the stack at Sampling Point		0.1015 m	0.1015 m	0.1015 m	0.1015 m	0.1015 m	0.1015 m
12	Fuel used		CBM	CBM	CBM	CBM	CBM	CBM
13	Temperature of emission, (deg. C)		119	132	66	81	120	113
14	Barometric pressure, (mm of Hg)		759	759	759	759	759	759
15	Velocity of gas in stack, (m/Sec)		10.43	10.59	7.93	8.10	10.64	10.71
16	Quantity of gas flow, (Nm^3/hr)		226.32	221.44	197.84	194.19	228.00	234.95
17	Total Conc. Nox + NMHC , (g/Kw-hr)	≤ 4.0	0.0664	0.0726	0.0859	0.0803	0.0635	0.0748
18	Concentration of Carbon Monoxide (CO), (g/Kw-hr)	≤ 3.5	0.07	0.07	0.09	0.09	0.08	0.08
19	Concentration of Particulate Matter (PM), (g/Kw-hr)	≤ 0.2	0.00	0.00	0.00	0.00	0.00	0.00

Annexure III

FORM 10

[See rule 19 (1)]

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1.	Sender's name and mailing address (including Phone No. and e-mail)		Essar oil and Gas Exploration and Production Ltd Dist: Paschim Bardhaman, Durgapur
2.	Sender's authorisation No.	:	19/23(HW)-2449/2008
3.	Manifest Document No.	:	
4.	Transporter's name and address : (including Phone No. and e-mail)		Inspec Oils Limited A/122, Phase-III, Block-A Kalyani.
5.	Type of vehicle	:	(Truck / Tanker / Special Vehicle)
6.	Transporter's registration No.	:	WBPCB/46711100/2021 dt- 11/6/24
7.	Vehicle registration No.	:	WB 53C 8182
8.	Receiver's name and mailing address (including Phone No. and e-mail)		Inspec Oils Limited A/122, Phase-III, Block-A Kalyani. Nadia
9.	Receiver's authorisation No.		WBPCB/46711100/2021 dt- 11/6/24
10.	Waste description	:	Used, Waste oil
11.	Total quantity No. of Containers	: :	7350 ..... m^3 or MT/~~Ltrs~~ 35 ..... Nos.
12.	Physical form	:	(Solid / Semi - Solid / Sludge / Oily / Tarry / Slurry / Liquid)
13.	Special handling instructions and additional information	:	Handle With Care
14.	Sender's Certificate		I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed, marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
	Name and stamp : ESSAR OIL AND GAS EXPLORATION AND PRODUCTION LIMITED DURGAPUR CBM PROJECTS	Signature :	Month 12 Day 12 Year 2024
15.	Transporter acknowledgement of receipt of Wastes		
	Name and stamp : Manas Dutta INSPEC OILS LIMITED KOLKATA	Signature :	Month 12 Day 12 Year 2024
16.	Receiver's certification for receipt of hazardous and other waste		
	Name and stamp :	Signature :	Month Day Year

FORM 10

[See rule 19 (1)]

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1.	Sender's name and mailing address (including Phone No. and e-mail)	Essar Oil and Gas Exploration and Production Ltd. Dist Paschim Bardhaman, Durgapur - 713212
2.	Sender's authorisation No. :	19012S(HW)-2449/2008
3.	Manifest Document No. :	
4.	Transporter's name and address : (including Phone No. and e-mail)	Inspec Oils Limited. A/122, Phase-III, Block A, Kalyani
5.	Type of vehicle :	(Truck / ~~Tanker / Special Vehicle~~)
6.	Transporter's registration No. :	WBPCB/4674100/2024 Dt 14/6/24
7.	Vehicle registration No. :	WB 19J 8506
8.	Receiver's name and mailing address (including Phone No. and e-mail)	Inspec Oils Limited. A/122, Phase-III, Block-A Kalyani, Nadia
9.	Receiver's authorisation No.	WBPCB/4674100/2024 Dt 14.6.24
10.	Waste description :	Used Oil, Waste Oil
11.	Total quantity : No. of Containers :	1170 m³ or MT; 37 Nos.
12.	Physical form :	(Solid / Semi - Solid / Sludge / Oily / ~~Tarry / Slurry~~ / Liquid)
13.	Special handling instructions and additional information :	Handle With Care.
14.	Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed, marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
	Name and stamp : [Stamp: ESSAR OIL AND GAS EXPLORATION AND PRODUCTION LIMITED, DURGAPUR CBM PROJECTS] Signature : [signature]	Month 12 Day 12 Year 2024
15.	Transporter acknowledgement of receipt of Wastes	
	Name and stamp : Manoj [Stamp: INSPEC OILS LIMITED KOLKATA] Signature : [signature]	Month 12 Day 12 Year 2024
16.	Receiver's certification for receipt of hazardous and other waste	
	Name and stamp : Signature :	Month Day Year

FORM 10

[See rule 19 (1)]

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1.	Sender's name and mailing address (including Phone No. and e-mail)		ESSar oil and Gas Exploration and Production Ltd. Dist: Paschim Bardhaman, Durgapur- 713212
2.	Sender's authorisation No.	:	190/23 (HW)-2449/2008
3.	Manifest Document No.	:	
4.	Transporter's name and address : (including Phone No. and e-mail)		Inspec Oils Limited. A/122, Phase-III, Block-A, Kalyani
5.	Type of vehicle	:	(Truck / ~~Tanker~~ / ~~Special Vehicle~~)
6.	Transporter's registration No.	:	WBPCB/4674100/2024 Dt 14.6.24
7.	Vehicle registration No.	:	WB 19L 8802
8.	Receiver's name and mailing address (including Phone No. and e-mail)		Inspec Oils Limited. A/122, Phase III, Block-A Kalyani, Nadia.
9.	Receiver's authorisation No.		WBPCB/4674100/2024 Dt 14.6.24
10.	Waste description	:	-Used Oil, Waste Oil
11.	Total quantity No. of Containers	: :	5250 .....m^3 or MT 25 .....Nos.
12.	Physical form :		(Solid / Semi - Solid / Sludge / Oily / ~~Tarry~~ / ~~Slurry~~ / Liquid)
13.	Special handling instructions and additional information	:	Handle With care
14.	Sender's Certificate		I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed, marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
	Name and stamp : ESSAR OIL AND GAS EXPLORATION AND PRODUCTION LIMITED DURGAPUR CBM PROJECTS	Signature :	Month 12 Day 12 Year 2024
15.	Transporter acknowledgement of receipt of Wastes		
	Name and stamp : Manuj Dasgupta INSPEC OILS LIMITED KOLKATA	Signature :	Month 12 Day 12 Year 2024
16.	Receiver's certification for receipt of hazardous and other waste		
	Name and stamp :	Signature :	Month Day Year

FORM 10

[See rule 19 (1)]

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1.	Sender's name and mailing address (including Phone No. and e-mail)		Essar Oil and Gas Exploration and Production Ltd. Dist. Paschim Bardhaman, Durgapur-713212
2.	Sender's authorisation No.	:	190/29(HW)-2443/2008
3.	Manifest Document No.	:	
4.	Transporter's name and address : (including Phone No. and e-mail)		Inspec Oils Limited. A/122, Phase-III, Block-A, Kalyani
5.	Type of Vehicle	:	(Truck / ~~Tanker~~ / ~~Special Vehicle~~)
6.	Transporter's registration No.	:	WBPCB/467410012024DT14.6.24
7.	Vehicle registration No.	:	WB-11F 0078
8.	Receiver's name and mailing address (including Phone No. and e-mail)		Inspec Oils Limited. A/122, Phase-III, Block-A Kalyani, Nadia
9.	Receiver's authorisation No.		WBPCB/467410012024DT14.6.24
10.	Waste description	:	Used oil, Waste oil
11	Total quantity	:	9240 m³ or MT/ Ltrs
	No. of Containers	:	44 Nos.
12.	Physical form	:	(Solid / Semi - Solid / Sludge / Oily / ~~Tarry~~ / ~~Slurry~~ / Liquid)
13.	Special handling instructions and additional information	:	Handle with care
14.	Sender's Certificate		I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed, marked and labelled and are in all respects in proper conditions for transport by road according to applicable national government regulations.

Name and Stamp : ESSAR OIL AND GAS EXPLORATION AND PRODUCTION LIMITED CBM PROJECTS DURGAPUR

Signature :

Month	Day	Year
12	19	2024

15.	Transporter acknowledgement of receipt of Wastes		

Name and Stamp : INSPEC OILS LIMITED KOLKATA

Signature :

Month	Day	Year
12	19	2024

16.	Receiver's certification for receipt of hazardous and other waste		

Name and Stamp :

Signature :

Month	Day	Year

FORM 10

[See rule 19 (1)]

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1.	Sender's name and mailing address (including Phone No. and e-mail)		Essar Oil and Gas Exploration and production Ltd Dist. Pachim Bardhaman, Durgapur-713212
2.	Sender's authorisation No.	:	190123(HW)-244917008
3.	Manifest Document No.	:	
4.	Transporter's name and address : (including Phone No. and e-mail)		Inspec Oils Limited A/122, Phase III, Block-A, Kalyani
5.	Type of vehicle	:	(Truck / Tanker / Special Vehicle)
6.	Transporter's registration No.	:	WBPCB/46-74100/2024 Dt. 14/6/24
7.	Vehicle registration No.	:	WB 23D 7136
8.	Receiver's name and mailing address (including Phone No. and e-mail)		Inspec Oils Limited A/122, Phase III, Block-A, Kalyani, Nadia.
9.	Receiver's authorisation No.		WBPCB/46-74100/2024 Dt. 14/6/24
10.	Waste description	:	Used oil/Waste oil
11.	Total quantity No. of Containers	: :	7140 ....m³ or MT/KL 34 ....Nos.
12.	Physical form	:	(Solid / Semi - Solid / Sludge / Oily / Tarry / Slurry / Liquid)
13.	Special handling instructions and additional information	:	Handle with care
14.	Sender's Certificate		I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed, marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
	Name and stamp : ESSAR OIL AND GAS EXPLORATION LIMITED DURGAPUR COM. PROJECTS	Signature :	Month: 12 Day: 12 Year: 2024
15.	Transporter acknowledgement of receipt of Wastes		
	Name and stamp : Manoj Pal	Signature : INSPEC OILS LIMITED KOLKATA	Month: 12 Day: 12 Year: 2024
16.	Receiver's certification for receipt of hazardous and other waste		
	Name and stamp :	Signature :	Month: Day: Year:

FORM 10

[See rule 19 (1)]

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1.	Sender's name and mailing address (including Phone No. and e-mail)	ESSHRAM [illegible]
2.	Sender's authorisation No. :	[illegible]
3.	Manifest Document No. :	
4.	Transporter's name and address: (including Phone No. and e-mail)	[illegible]
5.	Type of vehicle :	(Truck / Tanker / Special Vehicle)
6.	Transporter's registration No. :	[illegible]
7.	Vehicle registration No. :	[illegible]
8.	Receiver's name and mailing address (including Phone No. and e-mail) :	[illegible]
9.	Receiver's authorisation No. :	[illegible]
10.	Waste description :	[illegible]
11.	Total quantity : No. of Containers :	[illegible] m³ or MT 40 Nos
12.	Physical form :	(Solid / Semi-Solid / Sludge / Oily / Tarry / Slurry / Liquid)
13.	Special handling instructions and additional information :	[illegible]
14.	Sender's Certificate :	I hereby declare that the contents of the consignment are fully and [illegible] above by proper shipping name and are categorised, packed, marked and labelled and are in all respects in [illegible] transport by road according to applicable national government regulations

Name and stamp : Signature : Month 12 Day 19 Year

15.	Transporter acknowledgment of receipt of Waste	

Name and stamp : Signature : Month 12 Day 19 Year

16. Receiver's certification for receipt of hazardous and other waste

Name and stamp : Signature : Month Day Year

FORM 10

[See rule 19 (1)]

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1.	Sender's name and mailing address (including Phone No. and e-mail)		Essar Oil and Gas Exploration and Production Ltd. Dist. Paschim Bardhaman, Durgapur
2.	Sender's authorisation No.	:	19/25(HW)-2443/2008
3.	Manifest Document No.	:	
4.	Transporter's name and address : (including Phone No. and e-mail)		Inspec Oils Limited A/122, Phase III Block A Kalyani Nadia
5.	Type of vehicle	:	(Truck / Tanker / Special Vehicle)
6.	Transporter's registration No.	:	WBPCB/46741100/2024 dt. 14/8/24
7.	Vehicle registration No.	:	WB: 67C - 0643
8.	Receiver's name and mailing address (including Phone No. and e-mail)		Inspec Oils Limited A/122, Phase III Block A Kalyani Nadia
9.	Receiver's authorisation No.		WBPCB/46741100/2024 dt. 14/8/24
10.	Waste description	:	- Used oil -
11.	Total quantity No. of Containers	: :	11.130 m^3 or MT/KL 52 Nos.
12.	Physical form :		(Solid / Semi - Solid / Sludge / Oily / Tarry / Slurry / Liquid)
13.	Special handling instructions and additional information	:	Handle with Care.
14.	Sender's Certificate		I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed, marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations

ESSAR OIL AND GAS EXPLORATION AND PRODUCTION LIMITED DURGAPUR CBM PROJECTS

Name and stamp :	Signature :	Month	Day	Year
		12	27	2024

15.	Transporter's acknowledgement of receipt of Waste		

ESSAR OIL AND GAS EXPLORATION AND PRODUCTION LIMITED KOLKATA

Name and stamp :	Signature :	Month	Day	Year
P. Parul Dasgupta		12	27	2024

16.	Receiver's certification for receipt of hazardous and other waste		

Name and stamp :	Signature :	Month	Day	Year

FORM 10

[See rule 19 (1)]

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1.	Sender's name and mailing address (including Phone No. and e-mail)		Essar Oil and Gas Exploration and Production Ltd. Dist. Paschim Bardhaman [illegible]
2.	Sender's authorisation No.	:	190/25 (HW) - 2449/2008
3.	Manifest Document No.	:	
4.	Transporter's name and address : (including Phone No. and e-mail)		Inspec Oils Limited A/122, Phase-III Block-A. Kalyani
5.	Type of vehicle	:	(Truck / Tanker / Special Vehicle)
6.	Transporter's registration No.	:	WBPCB/4674100/2024 dt. 14/6/24
7.	Vehicle registration No.	:	WB 03 D 6220
8.	Receiver's name and mailing address (including Phone No. and e-mail)		Inspec Oils Limited. A/122, Phase-III. Block-A. Kalyani. Nadia
9.	Receiver's authorisation No.		WBPCB/4674100/2024 dt. 14/6/24
10.	Waste description	:	- Used oil -
11.	Total quantity No. of Containers	: :	9450 m³ or MT/HW 45 Nos.
12.	Physical form :		(Solid / Semi - Solid / Sludge / Oily / Tarry / Slurry / Liquid)
13.	Special handling instructions and additional information	:	Handle with Care
14.	Sender's Certificate		I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed, marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
	Name and stamp :	Signature :	Month: 02 Day: 19 Year: 2025
15.	Transporter acknowledgement of receipt of Wastes		
	Name and stamp : Manager Essar Oil & Gas Exploration & Production Ltd.	Signature :	Month: 02 Day: 19 Year: 2025
16.	Receiver's certification of receipt of hazardous and other waste		
	Name and stamp :	Signature :	Month: Day: Year:

Annexure IV

FROM 10

2nd Copy

WEST BENGAL WASTE MANAGEMENT LIMITED

Vill. : Pabayan, P. S. : Saltora, Dist. : Bankura, Pin : 722 158, West Bengal.

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's name and mailing address (including Phone No. and e-mail) :	Essar oil and gas exploration and production ltd Vill and Post :- Malandigh Dist - Paschim Burdwan (713212)
2	Sender's authorization No. :	190 / 25 (HW) - 2449 / 2008
3	Manifest Document No. :	1 1298
4	Transporter's name and address (including Phone No. and e-mail)	**West Bengal Waste Management Limited** Vill. : Pabayan, P. S. : Saltora, Dist. : Bankura, Pin : 722 158 Mobile : 9002983363/7477796110 E-mail : wbwml.saltora@resustainability.com
5	Type of vehicle :	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No. :	1-MD(E)/X/06
7	Vehicle registration No. :	WB 31N 8098
8	Receiver's name and mailing address (including Phone No. and e-mail)	**West Bengal Waste Management Limited** Vill. : Pabayan, P. S. : Saltora, Dist. : Bankura, Pin : 722 158 Mobile : 9002983363/7477796110 E-mail : wbwml.saltora@resustainability.com
9	Receiver's authorization No. :	34/25 (HW) - 4531/2022
10	Waste description :	Waste Filter
11	Total quantity No of Containers :	1.510 TON .....m3 or MT .....Nos.
12	Physical form :	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information :	
14	Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping categorized, packed, marked and name and are labeled and are in all respects in proper conditions for transport by road according to applicable National Government Regulations.
	Name and Stamp	Signature: A.S. Day: 08 Month: 07 Year: 2024
15	Transporter acknowledgement of receipt of Wastes :	
	Name and Stamp	Signature: MM Day: 08 Month: 07 Year: 2024
16	Receiver's certificate for receipt hazardous and other wastes :	
	Name and Stamp	Signature Day Month Year

1. White Colour forwarded to WBPCB by HzW Sender.
2. Yellow Colour retained by HzW sender.
3. Pink Colour retained by HzW Receiver.
4. Orange Colour retained by transporter.
5. Green Colour forwarded to WBPCP after disposal by HzW Receiver.
6. Blue Colour returned to sender after disposal by HzW Receiver.
7. Grey Colour returned to SPCB of the HzW Sender (in case the Sender is in another Site) by HzW Receiver.

FROM 10 2nd Copy

WEST BENGAL WASTE MANAGEMENT LIMITED

Vill. : Pabayan, P. S. : Saltora, Dist. : Bankura, Pin : 722 158, West Bengal.

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's name and mailing address (including Phone No. and e-mail) :	Essar oil and gas exploration and Production ltd. Vill and post :- Molo-digri Dist :- Paschim Burdwan, 713212
2	Sender's authorization No. :	190/25 (HW) - 2449/2008
3	Manifest Document No. :	1 1297
4	Transporter's name and address (including Phone No. and e-mail)	West Bengal Waste Management Limited Vill. : Pabayan, P. S. : Saltora, Dist. : Bankura, Pin : 722 158 Mobile : 9002983363/7477796110 E-mail : wbwml.saltora@resustainability.com
5	Type of vehicle :	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No. :	1-MD(E)/X/06
7	Vehicle registration No. :	WB 31N 0098
8	Receiver's name and mailing address (including Phone No. and e-mail)	West Bengal Waste Management Limited Vill. : Pabayan, P. S. : Saltora, Dist. : Bankura, Pin : 722 158 Mobile : 9002983363/7477796110 E-mail : wbwml.saltora@resustainability.com
9	Receiver's authorization No. :	34/25 (HW) - 4531/2022
10	Waste description :	Cotton Waste
11	Total quantity No of Containers :	1.500 TON ....m3 or MT ....Nos.
12	Physical form :	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information :	
14	Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping categorized, packed, marked and name and are labeled and are in all respects in proper conditions for transport by road according to applicable National Government Regulations.
	Name and Stamp [stamp: Essar Oil and Gas Exploration and Production Limited, Durgapur CBM Projects]	Signature [signed] — Day 08 Month 07 Year 2024
15	Transporter acknowledgement of receipt of Wastes :	
	Name and Stamp [stamp: West Bengal Waste Management Ltd., re Sustainability]	Signature [signed] — Day 08 Month 07 Year 2024
16	Receiver's certificate for receipt hazardous and other wastes :	
	Name and Stamp	Signature — Day Month Year

1. White Colour forwarded to WBPCB by HzW Sender.
2. Yellow Colour retained by HzW sender.
3. Pink Colour retained by HzW Receiver.
4. Orange Colour retained by transporter.
5. Green Colour forwarded to WBPCP after disposal by HzW Receiver.
6. Blue Colour returned to sender after disposal by HzW Receiver.
7. Grey Colour returned to SPCB of the HzW Sender (in case the Sender is in another Site) by HzW Receiver.

FROM 10 — 2nd Copy

WEST BENGAL WASTE MANAGEMENT LIMITED

Vill, : Pabayan, P. S. : Saltora, Dist. : Bankura, Pin : 722 158, West Bengal.

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's name and mailing address (including Phone No. and e-mail) :	Essar oil and gas exploration and Production Ltd Vill and Post + Molandighi Dist → Paschim Bardhaman, 713212
2	Sender's authorization No. :	190/25 (HW) - 2449/2008
3	Manifest Document No. :	1 1488
4	Transporter's name and address (including Phone No. and e-mail)	West Bengal Waste Management Limited Vill. : Pabayan, P. S. : Saltora, Dist. : Bankura, Pin : 722 158 Mobile : 9002983363/7477796110 E-mail : wbwml.saltora@resustainability.com
5	Type of vehicle :	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No. :	1-MD(E)/X/06
7	Vehicle registration No. :	WB 41K 2377
8	Receiver's name and mailing address (including Phone No. and e-mail)	West Bengal Waste Management Limited Vill. : Pabayan, P. S. : Saltora, Dist. : Bankura, Pin : 722 158 Mobile : 9002983363/7477796110 E-mail : wbwml.saltora@resustainability.com
9	Receiver's authorization No. :	34/25 (HW) - 4531/2022
10	Waste description :	waste filter
11	Total quantity No of Containers :	4 TON m3 or MT ....Nos.
12	Physical form :	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information :	used proper PPE. Shoes, Helmet, Glove
14	Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping categorized, packed, marked and name and are labeled and are in all respects in proper conditions for transport by road according to applicable National Government Regulations.
	Name and Stamp [Stamp: Essar Oil and Gas Exploration and Production Ltd, Durgapur CBM Projects]	Signature [signed] — Day 21 Month 09 Year 2024
15	Transporter acknowledgement of receipt of Wastes :	
	Name and Stamp [Stamp: West Bengal Waste Management Ltd, re Sustainability]	Signature — Day 21 Month 09 Year 2024
16	Receiver's certificate for receipt hazardous and other wastes :	
	Name and Stamp	Signature — Day Month Year

1. White Colour forwarded to WBPCB by HzW Sender.
2. Yellow Colour retained by HzW sender.
3. Pink Colour retained by HzW Receiver.
4. Orange Colour retained by transporter.
5. Green Colour forwarded to WBPCP after disposal by HzW Receiver.
6. Blue Colour returned to sender after disposal by HzW Receiver.
7. Grey Colour returned to SPCB of the HzW Sender (in case the Sender is in another Site) by HzW Receiver.

FROM 10 2nd Copy

WEST BENGAL WASTE MANAGEMENT LIMITED

Vill, : Pabayan, P. S. : Saltora, Dist. : Bankura, Pin : 722 158, West Bengal.

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's name and mailing address (including Phone No. and e-mail) :	Essar oil and gas exploration and production LTD vill and post → mole-digri Dist → Paschim Bardhaman, 713212
2	Sender's authorization No. :	190/25 (HW) - 2449/2008
3	Manifest Document No. :	1 1491
4	Transporter's name and address (including Phone No. and e-mail)	West Bengal Waste Management Limited Vill. : Pabayan, P. S. : Saltora, Dist. : Bankura, Pin : 722 158 Mobile : 9002983363/7477796110 E-mail : wbwml.saltora@resustainability.com
5	Type of vehicle :	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No. :	1-MD(E)/X/06
7	Vehicle registration No. :	WB 41K 2377
8	Receiver's name and mailing address (including Phone No. and e-mail)	West Bengal Waste Management Limited Vill. : Pabayan, P. S. : Saltora, Dist. : Bankura, Pin : 722 158 Mobile : 9002983363/7477796110 E-mail : wbwml.saltora@resustainability.com
9	Receiver's authorization No. :	34/25(HW)- 4531/2022
10	Waste description :	Waste silica gel
11	Total quantity No of Containers :	1 TON m3 or MT ....Nos.
12	Physical form :	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information :	Used proper PPE, Helmet, Gloves, Shoes
14	Sender's Certificate Name and Stamp (Stamp: Essar Oil and Gas Exploration and Production Limited, Durgapur CBM Projects)	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping categorized, packed, marked and name and are labeled and are in all respects in proper conditions for transport by road according to applicable National Government Regulations. Signature: [signature] Day Month Year: 21 09 2024
15	Transporter acknowledgement of receipt of Wastes : Name and Stamp (Stamp: West Bengal Waste Management Ltd, re Sustainability)	Signature Day Month Year: 21 09 2024
16	Receiver's certificate for receipt hazardous and other wastes : Name and Stamp	Signature Day Month Year

1. White Colour forwarded to WBPCB by HzW Sender.
2. Yellow Colour retained by HzW sender.
3. Pink Colour retained by HzW Receiver.
4. Orange Colour retained by transporter.
5. Green Colour forwarded to WBPCP after disposal by HzW Receiver.
6. Blue Colour returned to sender after disposal by HzW Receiver.
7. Grey Colour returned to SPCB of the HzW Sender (in case the Sender is in another Site) by HzW Receiver.

FROM 10

2nd Copy

WEST BENGAL WASTE MANAGEMENT LIMITED

Vill. : Pabayan, P. S. : Saltora, Dist. : Bankura, Pin : 722 158, West Bengal.

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's name and mailing address (including Phone No. and e-mail) :	Essar oil and gas exploration and production Ltd Vill and P.O :- molandighi Dist :- Paschim Bardhman , 713212
2	Sender's authorization No. :	190 / 25 (HW) - 2449 / 2008
3	Manifest Document No. :	1 1492
4	Transporter's name and address (including Phone No. and e-mail)	**West Bengal Waste Management Limited** Vill. : Pabayan, P. S. : Saltora, Dist. : Bankura, Pin : 722 158 Mobile : 9002983363/7477796110 E-mail : wbwml.saltora@resustainability.com
5	Type of vehicle :	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No. :	1-MD(E)/X/06
7	Vehicle registration No. :	WB 41K 2377
8	Receiver's name and mailing address (including Phone No. and e-mail)	**West Bengal Waste Management Limited** Vill. : Pabayan, P. S. : Saltora, Dist. : Bankura, Pin : 722 158 Mobile : 9002983363/7477796110 E-mail : wbwml.saltora@resustainability.com
9	Receiver's authorization No. :	54 / 25 (HW) - 4531 / 2022
10	Waste description :	Cotton waste
11	Total quantity No of Containers :	2.480 TON .....m3 or MT .....Nos.
12	Physical form :	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information :	Used Proper PPE . Chemical Hand gloves, Helmets shoes,
14	Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping categorized, packed, marked and name and are labeled and are in all respects in proper conditions for transport by road according to applicable National Government Regulations.
	Name and Stamp	Signature: Day 21 Month 09 Year 2024
15	Transporter acknowledgement of receipt of Wastes :	
	Name and Stamp	Signature: Day 21 Month 09 Year 2024
16	Receiver's certificate for receipt hazardous and other wastes :	
	Name and Stamp	Signature: Day Month Year

1. White Colour forwarded to WBPCB by HzW Sender.
2. Yellow Colour retained by HzW sender.
3. Pink Colour retained by HzW Receiver.
4. Orange Colour retained by transporter.
5. Green Colour forwarded to WBPCP after disposal by HzW Receiver.
6. Blue Colour returned to sender after disposal by HzW Receiver.
7. Grey Colour returned to SPCB of the HzW Sender (in case the Sender is in another Site) by HzW Receiver.

FROM 10 — 2nd Copy

WEST BENGAL WASTE MANAGEMENT LIMITED

Vill. : Pabayan, P. S. : Saltora, Dist. : Bankura, Pin : 722 158, West Bengal.

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's name and mailing address (including Phone No. and e-mail) :	Essar oil and gas exploration and Production Ltd vill and Post-> molandighi Dist -> Paschim Burdwan pin -> 713212
2	Sender's authorization No. :	190/25(HWD)-2449/2008
3	Manifest Document No. :	1 1271
4	Transporter's name and address (including Phone No. and e-mail)	West Bengal Waste Management Limited Vill. : Pabayan, P. S. : Saltora, Dist. : Bankura, Pin : 722 158 Mobile : 9002983363/7477796110 E-mail : wbwml.saltora@resustainability.com
5	Type of vehicle :	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No. :	1-MD(E)/X/06
7	Vehicle registration No. :	WB 31N 0062
8	Receiver's name and mailing address (including Phone No. and e-mail)	West Bengal Waste Management Limited Vill. : Pabayan, P. S. : Saltora, Dist. : Bankura, Pin : 722 158 Mobile : 9002983363/7477796110 E-mail : wbwml.saltora@resustainability.com
9	Receiver's authorization No. :	34/25(HW)-4531/2022
10	Waste description :	Cotton Waste
11	Total quantity No of Containers :	1 Ton m3 or MT .... Nos.
12	Physical form :	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information :	used proper PPE, Hand gloves
14	Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping categorized, packed, marked and name and are labeled and are in all respects in proper conditions for transport by road according to applicable National Government Regulations.
	Name and Stamp: [stamp: Essar Exploration and Production Limited, CBM Projects]	Signature: [signature] — Day 26, Month 12, Year 2024
15	Transporter acknowledgement of receipt of Wastes :	
	Name and Stamp: [stamp: West Bengal Waste Management Ltd., Re Sustainability]	Signature: [signature] — Day 26, Month 12, Year 2024
16	Receiver's certificate for receipt hazardous and other wastes :	
	Name and Stamp	Signature — Day, Month, Year

1. White Colour forwarded to WBPCB by HzW Sender.
2. Yellow Colour retained by HzW sender.
3. Pink Colour retained by HzW Receiver.
4. Orange Colour retained by transporter.
5. Green Colour forwarded to WBPCP after disposal by HzW Receiver.
6. Blue Colour returned to sender after disposal by HzW Receiver.
7. Grey Colour returned to SPCB of the HzW Sender (in case the Sender is in another Site) by HzW Receiver.

FROM 10

2nd Copy

WEST BENGAL WASTE MANAGEMENT LIMITED

Vill, : Pabayan, P. S. : Saltora, Dist. : Bankura, Pin : 722 158, West Bengal.

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's name and mailing address (including Phone No. and e-mail) :	Essar oil and gas exploration and production LTD Kiland Post - Modandighi Dist - Paschim Bardhaman
2	Sender's authorization No. :	190/25/HWD- 2449/2008
3	Manifest Document No. :	1 1268
4	Transporter's name and address (including Phone No. and e-mail)	**West Bengal Waste Management Limited** Vill. : Pabayan, P. S. : Saltora, Dist. : Bankura, Pin : 722 158 Mobile : 9002983363/7477796110 E-mail : wbwml.saltora@resustainability.com
5	Type of vehicle :	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No. :	1-MD(E)/X/06
7	Vehicle registration No. :	WB 31N 0062
8	Receiver's name and mailing address (including Phone No. and e-mail)	**West Bengal Waste Management Limited** Vill. : Pabayan, P. S. : Saltora, Dist. : Bankura, Pin : 722 158 Mobile : 9002983363/7477796110 E-mail : wbwml.saltora@resustainability.com
9	Receiver's authorization No. :	34/25 (HW) - 453/ /2022
10	Waste description :	membrane filter
11	Total quantity No of Containers :	1.090 TON .....m3 or MT .....Nos.
12	Physical form :	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information :	used proper PPE, Hand gloves
14	Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping categorized, packed, marked and name and are labeled and are in all respects in proper conditions for transport by road according to applicable National Government Regulations.
	Name and Stamp	Signature: AS — Day: 26 — Month: 12 — Year: 2024
15	Transporter acknowledgement of receipt of Wastes :	
	Name and Stamp	Signature — Day: 26 — Month: 12 — Year: 2024
16	Receiver's certificate for receipt hazardous and other wastes :	
	Name and Stamp	Signature — Day — Month — Year

1. White Colour forwarded to WBPCB by HzW Sender.
2. Yellow Colour retained by HzW sender.
3. Pink Colour retained by HzW Receiver.
4. Orange Colour retained by transporter.
5. Green Colour forwarded to WBPCP after disposal by HzW Receiver.
6. Blue Colour returned to sender after disposal by HzW Receiver.
7. Grey Colour returned to SPCB of the HzW Sender (in case the Sender is in another Site) by HzW Receiver.

FROM 10

2nd Copy

WEST BENGAL WASTE MANAGEMENT LIMITED

Vill. : Pabayan, P. S. : Saltora, Dist. : Bankura, Pin : 722 158, West Bengal.

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's name and mailing address (including Phone No. and e-mail) :	Essar oil and gas exploration and production Ltd Vill and post → Molandighi Dist → paschim Burdwan pin → 713212
2	Sender's authorization No. :	190/25(HW) - 2449/2008
3	Manifest Document No. :	1 1270
4	Transporter's name and address (including Phone No. and e-mail)	**West Bengal Waste Management Limited** Vill. : Pabayan, P. S. : Saltora, Dist. : Bankura, Pin : 722 158 Mobile : 9002983363/7477796110 E-mail : wbwml.saltora@resustainability.com
5	Type of vehicle :	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No. :	1-MD(E)/X/06
7	Vehicle registration No. :	WB31ND062
8	Receiver's name and mailing address (including Phone No. and e-mail)	**West Bengal Waste Management Limited** Vill. : Pabayan, P. S. : Saltora, Dist. : Bankura, Pin : 722 158 Mobile : 9002983363/7477796110 E-mail : wbwml.saltora@resustainability.com
9	Receiver's authorization No. :	34/25(HW)-4531/2022
10	Waste description :	waste 1.5 Volt battery
11	Total quantity No of Containers :	1 TON .....m3 or MT .....Nos.
12	Physical form :	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information :	used proper PPE, Hand gloves, safety shoe
14	Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping categorized, packed, marked and name and are labeled and are in all respects in proper conditions for transport by road according to applicable National Government Regulations.
	Name and Stamp	Signature Day 26 Month 12 Year 2024
15	Transporter acknowledgement of receipt of Wastes :	
	Name and Stamp	Signature Day 26 Month 12 Year 2024
16	Receiver's certificate for receipt hazardous and other wastes :	
	Name and Stamp	Signature Day Month Year

1. White Colour forwarded to WBPCB by HzW Sender.
2. Yellow Colour retained by HzW sender.
3. Pink Colour retained by HzW Receiver.
4. Orange Colour retained by transporter.
5. Green Colour forwarded to WBPCP after disposal by HzW Receiver.
6. Blue Colour returned to sender after disposal by HzW Receiver.
7. Grey Colour returned to SPCB of the HzW Sender (in case the Sender is in another Site) by HzW Receiver.

FROM 10

2nd Copy

WEST BENGAL WASTE MANAGEMENT LIMITED

Vill. : Pabayan, P. S. : Saltora, Dist. : Bankura, Pin : 722 158, West Bengal.

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's name and mailing address (including Phone No. and e-mail) :	ESSAR oil and gas exploration and production Ltd Vill and Post :- Malandighi Dist :- Paschim Bardhman Pin - 713212
2	Sender's authorization No. :	— 190/25(HW)-2449/2008
3	Manifest Document No. :	1 1239
4	Transporter's name and address (including Phone No. and e-mail)	**West Bengal Waste Management Limited** Vill. : Pabayan, P. S. : Saltora, Dist. : Bankura, Pin : 722 158 Mobile : 9002983363/7477796110 E-mail : wbwml.saltora@resustainability.com
5	Type of vehicle :	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No. :	1-MD(E)/X/06
7	Vehicle registration No. :	WB 31N 0062
8	Receiver's name and mailing address (including Phone No. and e-mail)	**West Bengal Waste Management Limited** Vill. : Pabayan, P. S. : Saltora, Dist. : Bankura, Pin : 722 158 Mobile : 9002983363/7477796110 E-mail : wbwml.saltora@resustainability.com
9	Receiver's authorization No. :	34/25(HW)-4531/2022
10	Waste description :	Waste Filter
11	Total quantity No of Containers :	1 TON .....m3 or MT .....Nos.
12	Physical form :	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information :	
14	Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping categorized, packed, marked and name and are labeled and are in all respects in proper conditions for transport by road according to applicable National Government Regulations.
	Name and Stamp	Signature Day 26 Month 12 Year 2024
15	Transporter acknowledgement of receipt of Wastes :	
	Name and Stamp	Signature Day 26 Month 12 Year 2024
16	Receiver's certificate for receipt hazardous and other wastes :	
	Name and Stamp	Signature Day Month Year

1. White Colour forwarded to WBPCB by HzW Sender.
2. Yellow Colour retained by HzW sender.
3. Pink Colour retained by HzW Receiver.
4. Orange Colour retained by transporter.
5. Green Colour forwarded to WBPCP after disposal by HzW Receiver.
6. Blue Colour returned to sender after disposal by HzW Receiver.
7. Grey Colour returned to SPCB of the HzW Sender (in case the Sender is in another Site) by HzW Receiver.

FROM 10 — 2nd Copy

WEST BENGAL WASTE MANAGEMENT LIMITED

Vill. : Pabayan, P. S. : Saltora, Dist. : Bankura, Pin : 722 158, West Bengal.

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's name and mailing address (including Phone No. and e-mail) :	Essar oil and gas exploration and production Ltd Vill and post - Molandighi Dist - Burdwan , 713212
2	Sender's authorization No. :	190 / 25 (HW) - 2449 / 2008
3	Manifest Document No. :	1 1898
4	Transporter's name and address (including Phone No. and e-mail)	**West Bengal Waste Management Limited** Vill. : Pabayan, P. S. : Saltora, Dist. : Bankura, Pin : 722 158 Mobile : 9002983363/7477796110 E-mail : wbwml.saltora@resustainability.com
5	Type of vehicle :	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No. :	1-MD(E)/X/06 -
7	Vehicle registration No. :	WB 37C 2238
8	Receiver's name and mailing address (including Phone No. and e-mail)	**West Bengal Waste Management Limited** Vill. : Pabayan, P. S. : Saltora, Dist. : Bankura, Pin : 722 158 Mobile : 9002983363/7477796110 E-mail : wbwml.saltora@resustainability.com
9	Receiver's authorization No. :	34 / 25 (HW) - 4531 / 2022
10	Waste description :	Cotton waste
11	Total quantity No of Containers :	2.100 TON m3 or MT .... Nos.
12	Physical form :	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information :	used proper PPE.
14	Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping categorized, packed, marked and name and are labeled and are in all respects in proper conditions for transport by road according to applicable National Government Regulations.
	Name and Stamp: [stamp: Essar Exploration and Production (India) Limited]	Signature: [signature] Day / Month / Year: 31 03 2025
15	Transporter acknowledgement of receipt of Wastes :	
	Name and Stamp: [stamp: West Bengal Waste Management, re sustainability]	Signature: Day / Month / Year: 31 03 2025
16	Receiver's certificate for receipt hazardous and other wastes :	
	Name and Stamp	Signature: Day / Month / Year:

1. White Colour forwarded to WBPCB by HzW Sender.
2. Yellow Colour retained by HzW sender.
3. Pink Colour retained by HzW Receiver.
4. Orange Colour retained by transporter.
5. Green Colour forwarded to WBPCP after disposal by HzW Receiver.
6. Blue Colour returned to sender after disposal by HzW Receiver.
7. Grey Colour returned to SPCB of the HzW Sender (in case the Sender is in another Site) by HzW Receiver.

FROM 10

2nd Copy

WEST BENGAL WASTE MANAGEMENT LIMITED

Vill, : Pabayan, P. S. : Saltora, Dist. : Bankura, Pin : 722 158, West Bengal.

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's name and mailing address (including Phone No. and e-mail) :	FSSAR oil and gas exploration and production ltd Vill and post -> Molandighi Dist :) Burdwan . 713212
2	Sender's authorization No. :	190/25(HW)·2449/2008
3	Manifest Document No. :	1 1897
4	Transporter's name and address (including Phone No. and e-mail)	**West Bengal Waste Management Limited** Vill. : Pabayan, P. S. : Saltora, Dist. : Bankura, Pin : 722 158 Mobile : 9002983363/7477796110 E-mail : wbwml.saltora@resustainability.com
5	Type of vehicle :	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No. :	1-MD(E)/X/06
7	Vehicle registration No. :	WB 37C 2238
8	Receiver's name and mailing address (including Phone No. and e-mail)	**West Bengal Waste Management Limited** Vill. : Pabayan, P. S. : Saltora, Dist. : Bankura, Pin : 722 158 Mobile : 9002983363/7477796110 E-mail : wbwml.saltora@resustainability.com
9	Receiver's authorization No. :	34/25(HW)-4531/2022
10	Waste description :	waste filter
11	Total quantity No of Containers :	2 TOM ..... m3 or MT ..... Nos.
12	Physical form :	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information :	used paper PPF.
14	Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping categorized, packed, marked and name and are labeled and are in all respects in proper conditions for transport by road according to applicable National Government Regulations.
	Name and Stamp	Signature / Day / Month / Year: 31 / 03 / 2025
15	Transporter acknowledgement of receipt of Wastes :	
	Name and Stamp	Signature / Day / Month / Year: 31 / 03 / 2025
16	Receiver's certificate for receipt hazardous and other wastes :	
	Name and Stamp	Signature / Day / Month / Year:

1. White Colour forwarded to WBPCB by HzW Sender.
2. Yellow Colour retained by HzW sender.
3. Pink Colour retained by HzW Receiver.
4. Orange Colour retained by transporter.
5. Green Colour forwarded to WBPCP after disposal by HzW Receiver.
6. Blue Colour returned to sender after disposal by HzW Receiver.
7. Grey Colour returned to SPCB of the HzW Sender (in case the Sender is in another Site) by HzW Receiver.

FROM 10

2nd Copy

WEST BENGAL WASTE MANAGEMENT LIMITED

Vill. : Pabayan, P. S. : Saltora, Dist. : Bankura, Pin : 722 158, West Bengal.

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's name and mailing address (including Phone No. and e-mail) :	Essar oil and gas exploration and production ltd Village and post : Malandighi Dist : Paschim Burdwan
2	Sender's authorization No. :	190/25(HW)-2449/2008
3	Manifest Document No. :	1 1899
4	Transporter's name and address (including Phone No. and e-mail)	**West Bengal Waste Management Limited** Vill. : Pabayan, P. S. : Saltora, Dist. : Bankura, Pin : 722 158 Mobile : 9002983363/7477796110 E-mail : wbwml.saltora@resustainability.com
5	Type of vehicle :	(Truck/Tanker/Special Vehicle)
6	Transporter's registration No. :	1-MD(E)/X/06
7	Vehicle registration No. :	WB37C 2238
8	Receiver's name and mailing address (including Phone No. and e-mail)	**West Bengal Waste Management Limited** Vill. : Pabayan, P. S. : Saltora, Dist. : Bankura, Pin : 722 158 Mobile : 9002983363/7477796110 E-mail : wbwml.saltora@resustainability.com
9	Receiver's authorization No. :	34/25(HW)-458/1/2022
10	Waste description :	Glass wool
11	Total quantity No of Containers :	1 TON ..... m3 or MT ..... Nos.
12	Physical form :	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13	Special handling instructions and additional information :	Used Proper PPE.
14	Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping categorized, packed, marked and name and are labeled and are in all respects in proper conditions for transport by road according to applicable National Government Regulations.
	Name and Stamp / Signature / Day Month Year	31 03 2025
15	Transporter acknowledgement of receipt of Wastes :	
	Name and Stamp / Signature / Day Month Year	31 03 2025
16	Receiver's certificate for receipt hazardous and other wastes :	
	Name and Stamp / Signature / Day Month Year	

1. White Colour forwarded to WBPCB by HzW Sender.
2. Yellow Colour retained by HzW sender.
3. Pink Colour retained by HzW Receiver.
4. Orange Colour retained by transporter.
5. Green Colour forwarded to WBPCP after disposal by HzW Receiver.
6. Blue Colour returned to sender after disposal by HzW Receiver.
7. Grey Colour returned to SPCB of the HzW Sender (in case the Sender is in another Site) by HzW Receiver.

Annexure V

FORM 10

[See rule 19 (1)]

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1.	Sender's name and mailing address (including Phone No. and e-mail) :	Essar Oil and Gas Exploration and Production Limited. G94W+43P,Gopalpur-Sarenga Rd, Gopalpur, West Bengal 713212
2.	Sender's authorization No. :	190/25 (HW) - 2449/2008
3.	Manifest Document No. :	HD/035
4.	Transporter's name and address:(including Phone No. and e-mail)	**HULLADEK RECYCLING PVT. LTD.** 4 D.L. Khan Road, Kolkata-700025.
5.	Type of vehicle :	(Truck/Tanker/Special Vehicle)
6.	Transporter's registration No. :	B-29016(12)/(PRO)/18/WM-III Division
7.	Vehicle registration No. :	WB 11 F 6986
8.	Receiver's name and mailing address (including Phone No. and e-mail) :	**GLOBAL INTERNATIONAL** Vill – P.O – Lakshmanpur , P.S- Domjur , Howrah – 711114.
9.	Receiver's authorization No. :	165/2S (HW)2468/2009
10.	Waste description :	Lead Acid Battery
11.	Total quantity No. of Containers :	10110.00 kgs.
12.	Physical form :	**Solid**/Semi- Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13.	Special handling instructions and additional information :	N/A
14.	Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorized, packed, marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable nationalgovernment regulations.
	Name and stamp: ESSAR OIL AND GAS EXPLORATION AND PRODUCTION LIMITED DURGAPUR CBM PROJECTS	Signature: Month 09 Day 27 Year 2024
15.	Transporter acknowledgement of receipt of Waste	
	Name and stamp: Hulladek Recycling Pvt. Ltd. Authorised Signatory	Signature: Month 09 Day 27 Year 2024
16.	Receiver's certification for receipt of hazardous and other waste	
	Name and stamp: GLOBAL INTERNATIONAL Proprietor	Signature: Month 09 Day 27 Year 2024

Toxicology Analysis of Drill Cutting Sludge
(Period: Oct-24 to Mar-25)

Annexure VI

Well Name					EDE-002-D2	EDI-037-D12	EDD-248-D2	EDN-099-D5	EDE-005-D3	EDH-044-D6A	EDI-071-D8	EDD-242-D4	EDN-161-D4
Date					03-05-2024	14.06.2024	08.07.2024	08.07.2024	13.08.2024	24.10.2024	23.11.2024	20.01.2025	20.01.2025
Sl. No.	Class	Parameter	Unit	G.S.R No. 395 E,dtd-4th Apr,2016 Schedule-II, Class-A	Result								
1	A1	Arsenic	mg/L	5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
2	A2	Barium	mg/L	100	0.73	0.47	0.45	0.65	0.4	0.72	0.15	<0.05	<0.05
3	A3	Cadmium	mg/L	1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
4	A4	Chromium and/or Chromium(III) Compounds	mg/L	5	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
5	A5	Lead	mg/L	5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
6	A6	Manganese	mg/L	10	7.74	1.95	3.56	0.9	3.56	1.55	0.59	<0.05	<0.05
7	A7	Mercury	mg/L	0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
8	A8	Selenium	mg/L	1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
9	A9	Silver	mg/L	5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
10	A11	Cyanide	mg/L	20	<0.05	<0.05	<0.05	<0.05	<0.05	0.14	<0.05	<0.05	<0.05
11	A14	1,1-Dichloroethylene	mg/L	0.7	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
12	A15	1,2-Dichloroethane	mg/L	0.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
13	A16	1,4-Dichlorobenzene	mg/L	7.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
14	A17	2,4,5-Trichlorophenol	mg/L	400	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
15	A18	2,4,6-Trichlorophenol	mg/L	2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
16	A19	2,4-Dinitrotoluene	mg/L	0.13	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
17	A20	Benzene	mg/L	0.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
18	A24	Carbontetrachloride	mg/L	0.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
19	A25	Chlorobenzene	mg/L	100	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
20	A26	Chloroform	mg/L	6	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
21	A27	Cresol (ortho + meta + para)	mg/L	200	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
22	A29	Hexachlorobenzene	mg/L	0.13	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
23	A30	Hexachlorobutadiene	mg/L	0.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
24	A31	Hexachloroethane	mg/L	3	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
25	A32	Methylethylketone	mg/L	200	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
26	A34	Nitrobenzene	mg/L	2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
27	A35	Pentachlorophenol	mg/L	100	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
28	A36	Pyridine	mg/L	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Absent	<0.01	<0.01
29	A37	Tetrachloroethylene	mg/L	0.7	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
30	A38	Trichloroethylene	mg/L	0.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
31	A39	Vinylchloride	mg/L	0.2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
32	A40	2,4,5-TP (Silvex)	mg/L	1	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
33	A41	2,4-Dichlorophenoxyacetic acid	mg/L	10	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
34	A47	Chlordane	mg/L	0.03	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
35	A51	Endrin	mg/L	0.02	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
36	A53	Heptachlor (& its Epoxide)	mg/L	0.008	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
37	A55	Lindane	mg/L	0.4	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
38	A57	Methoxychlor	mg/L	10	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
39	A61	Toxaphene	mg/L	0.5	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
40	A68	Nickel	mg/L	20	<0.05	<0.06	<0.07	<0.08	<0.09	<0.05	<0.05	<0.05	<0.05
41	C1	Ignitability	….	……	Non Flamabble	Non Flamabble	Non Flamabble	Non Flamabble	Non Flamabble	Non Flamabble	Non Flamabble	Non Flamabble	Non Flamabble
42	C2	Corrositivity	…..	……	Non corrosive	Non corrosive	Non corrosive	Non corrosive	Non corrosive	Non corrosive	Non corrosive	Non corrosive	Non corrosive
43	C3	Reactivity - [Cyanide (as HCN and H2S)]	…..	….	Non-reactive	Non-reactive	Non-reactive	Non-reactive	Non-reactive	N0n-reactive	N0n-reactive	N0n-reactive	N0n-reactive