



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

CIN: U11203GJ2016PLC091903

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EOGEPL/CBM- RG (E)/ HSE/ 2023/5099

**29<sup>th</sup> September 2023**

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 (as Form V) for the Financial Year 2022-23.**

Dear Sir,

With due respect, please find attached herewith the Environmental Statement (as **Form V**) for the FY 2022-23 of Raniganj CBM Block- RG (East)- CBM-2001/1, Durgapur, West Bengal operated by Essar Oil and Gas Exploration and Production Limited.

Kindly acknowledge and oblige.

Thanking you,

For Essar Oil and Gas Exploration and Production Limited

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



Enclosed: i) Environmental Statement (Form V), FY 2022-23.  
ii) Annexure- I, II, III, IV, V, VI, VII & VIII

Cc:

The Regional Director, Integrated Regional Office, MOEF&CC, IB -198, Sector III, Salt Lake City, Kolkata- 700106

Essar Oil and Gas Exploration and Production Limited

Registered Office Address: F 20, Balaji Shopping, Wide Angle, Highway, Nagalpur, Mehsana, Gujarat -384002, India.

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ENERGY | INFRASTRUCTURE | METALS & MINING | SERVICES & TECHNOLOGY

**FORM-V**  
(See rule 14)

**Environmental Statement for the Financial Year ending with 31<sup>st</sup> March 2023**

**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,*  
*3<sup>rd</sup> Floor, Essar House, 11 K. K. Marg, Mahalaxmi, Mumbai-400034, Maharashtra*
- ii. **Industry category Primary (STC Code),**  
**Secondary (SIC Code)** : *Oil & Gas Extraction including CBM*  
*(On-shore extraction through drilling wells)*
- iii. **Production Capacity** : *52,200,000 m3/month*
- iv. **Year of establishment** : *Established in the Financial Year 2008-09.*
- v. **Date of the last Environmental Statement**  
**Submitted** : *28-09-2022*

**PART - B**

**Water and Raw Material Consumption**

**i. Water Consumption in m<sup>3</sup>/d**

Process: *Nil*

Cooling: *Not applicable*

Domestic: *14.85 m<sup>3</sup> per day*

Sr. No.	Name of Products	Process water consumption per unit of product output.	
		During the previous financial year	During the current financial year
1	<i>Coal Bed Methane</i>	<i>Nil</i>	<i>Nil</i>

**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 2021-2022)	During the current financial year (FY 2022-2023)
1	<i>Bentonite Powder</i>	<i>Water Based Mud (Non-hazardous)</i>	<i>36 MT</i>	<i>1677 MT</i>
	<i>Polymer</i>			
	<i>PGS (Pre Gel Starch)</i>			
	<i>Caustic Soda</i>			
	<i>Mud Lube</i>			



	LCM (Loss Circulation Material)			
	Coal Stabilizers			
	Fly ash			
	Cement			
2	HSD (as fuel)	-	26.44 MT	359.67 MT

# 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)

Sr. No.	Parameter	Pollutants	Quantity of Pollutants discharged (mass/day)	Concentration of Pollutants discharged (mass/volume)				Percentage of variation from prescribed standards with reasons
				Parameter	MCS	GGs#1	Gopalpur Warehouse	
A	Water	TSS	TSS- 1.53 kg/day	TSS (mg/l)	63	23	57	No positive variation identified. All parameters are within the specified limit. <b>(Annexure I)</b>
		BOD	BOD- 0.82 kg/day	BOD (mg/l)	26	26	25	
		COD	COD- 3.64 kg/day	COD (mg/l)	108	124	108	
		Oil & Grease	Oil & Grease- 0.19 kg/day	Oil & Grease (mg/l)	6	6.5	<5	
B	Air	Total NOx + NMHC	Total NOx + NMHC – 476.04 g/kw-day.	One sample stack report provided. Stack No.-39, GGS- 01, Capacity- 180 KVA DG Set.				No positive variation identified. All parameters are within the specified limit. <b>(Annexure II)</b>
		Carbon Monoxide (CO)	Carbon Monoxide (CO) – 408.30 g/kw-day.	Total Conc. Nox + NMHC, (g/Kw-hr)	0.1608			
		Particulate Matter (PM)	Particulate Matter (PM)- 108.41 g/kw-day	Concentration of Carbon Monoxide (CO), (g/Kw-hr)	0.13			
				Concentration of Particulate Matter (PM), (g/Kw-hr)	0.08			



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**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 (2021-2022)	During the current financial year (2022-2023)
1	From Process	Used Oil	13.86 MT	20.772 MT
		Oil contaminated Waste	3.45 MT	7.16 MT
		Spent Oil Filter Medium	3.485 MT	1.565 MT
		Used small battery	0.46 MT	-
		Spent Silica Gel	0.665 MT	1.945 MT
2	From Pollution Control Facilities ( RO Plant)	Spent RO Membrane Filter Medium.	2.955 MT	0.95 MT

# MT denotes Metric Ton

**PART - E**

**Solid Wastes:**

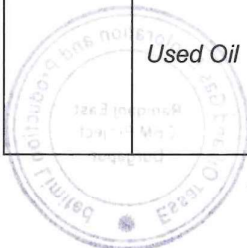
Sr. No	Area	Solid Wastes	Total Quantity: Metric Ton (MT)	
			During the previous Financial Year (2021 – 22)	During the current Financial Year (2022 – 23)
A	From Process	Drill Cuttings (non-hazardous)	Nil (No Drilling Operation)	462 MT
B	From Pollution Control Facilities.	Solid Waste (non-hazardous)	1 MT	440 MT
C	Quantity recycled or re-utilized within the unit.		1 MT	902 MT
	Sold (recyclable and reusable)		17.4 MT	33.44 MT
	Disposed		17.6 MT	30.45 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
<b>Hazardous Wastes:</b>			
1	Used Oil	20.772 MT	Sold to below authorized re-processor/co-processor through Manifest as Form 10. <b>Address:</b> 1. M/s Inspec Oils Ltd. A/122, Phase-III, Block-A, Kalyani, Nodia. 2. M/s Texus Lub



			Delhi Road, Bamunari, Rishra P.O.- Mollaber, P.S.- Dankuni, Dist.- Hoogly Pin.- 712250 <b>(Annexure III)</b>
2	Oil contaminated waste	7.16 MT	Disposed through below authorized CHWTSDF, Saltora, Bankura, through Manifest as Form 10.  <b>Address:</b> M/s West Bengal Waste Management Limited, Saltora, Bankura, Pin-722158. <b>(Annexure IV)</b>
	Spent Oil Filter Medium	1.565 MT	
	Spent R.O. Membrane Filter Medium	0.95 MT	
	Spent Silica Gel	1.945 MT	
<b>Solid Wastes:</b>			
1	Drill cutting and drilled mud (non-hazardous).	1166 MT	Reutilized within the unit for well pad development.
2	Recyclable waste	33.44 MT	Sold for recycling. <b>(Annexure V)</b>
3	Biodegradable waste	30.45 MT	Disposed through the municipal dumping yard. <b>(Annexure V)</b>

# 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, there are no use of fresh water.
2. Gas based Generator Set is used at well sites and surface facilities, where electricity is generated by the combustion of CBM (free from Sulfur) having comparatively lesser pollution load than HSD and coal.
3. The total volume of produced gas is evacuated through National Gas Grid "Urja Ganga Pipeline". Accordingly, EOGEP is approaching to "Zero Flaring". By the Financial Year 2022-23, EOGEP achieved only 0.07% flaring.
4. The entire produced water is treated through RO Plant (Cap. - 6900 KLD) and after treatment, the treated water is satisfying the specified discharge limit. Whereas, the treated water is primarily used in the project activities (drilling, work over & hydro-fracturing) and excess water is discharge to Kunur Nala. The RO Plant water analysis report enclosed as **(Annexure- VI)**.



## PART – H

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

1. In the last financial year (FY 2022-23), EOGEP L spent the amount of Rs. 64, 01, 535. 00 as CAPEX and Rs. 2, 57, 95, 309. 00 as OPEX for the RO plant operation and maintenance. **Annexure VII**
2. Regular environment monitoring is conducted through NABL & MoEF&CC approved laboratory for the monitoring of ambient air, noise level, GG/DG set stack emission, produced water, RO water, surface water, ground water quality and ground water level. The expenditure incurred for the FY 2022-23 is Rs. 11, 58, 993. 00. **Annexure VII**
3. Waste is segregated at source through different colors bins (RED, BLUE & GREEN) and YELLOW bag. The color RED for hazardous waste, BLUE for dry recyclable waste, GREEN for disposable waste and YELLOW for bio-medical waste.
  - i) Hazardous waste is disposed through authorized CHWTSDF, where Used Oil is recycled through authorized re-processor/co-processor.
  - ii) Recyclable solid wastes are sold for recycling.
  - iii) Disposable solid wastes are disposed through the municipal dumping yard.
  - iv) Bio-medical waste is disposed through the authorized agency M/s Medicare Environmental Management Pvt. Ltd.

The expenditure towards the waste management for the FY 2022-23 is Rs. 16, 81, 024. 00. **Annexure VII**

4. Toxicology analysis is conducted for drill cuttings through NABL accredited laboratory, where it is observed that all the analyzed parameters are lower than the permissible limit. The expenditure incurred for the FY 2022-23 is Rs. 1, 22, 988. 00. **Annexure VII**
5. Green belt development & maintenance is a tradition of EOGEP L, where we added around 500 more native species of saplings by the FY 2022-23, those are already grown up. The expenditure incurred is Rs. 4, 89, 649. 00. **Annexure VII**
6. By the FY 2022-23, around 0.75 MT E-waste (code- ITEW2) has been sold to the authorized recycler/dismantler M/s Hulladek Recycling Pvt. Ltd. **Annexure VIII**

## PART - I

### Any Other Particulars for improving the Quality of the Environment

EOGEP L, always endeavor for socio-economic development by adopting of clean and environment friendly technology.

For example, EOGEP L do conduct operation & maintenance to an ICDS center of Village- Dhabani, where mid-day meal is cooked through CBM gas for more than 80 children.



Surface Drain Water Analysis Report							
Type					Surface Drain	Surface Drain	Surface Drain
Sample Identification No.					SW-050-2023	SW-405-2022	SW-051-2023
Latitude & Longitude					Lat:23°34'08"N, Long:87°24'33"E	Lat:23°37'41"N, Long:87°21'07"E	Lat:23°30'18.29"N, Long:87°23'39.80"E
S. No.	Parameter	Method of Analysis	Unit	CPCB Limit for Discharge of Environmental Pollutants (Inland surface water)	MCS- Malandighi	GGs#001 Khatgoria Surface Drain	Gopalpur Warehouse Surface Drain
Date					16.02.2023	18.11.2022	16.02.2023
1	pH at 27°C	APHA 23rd Edition, 4500-H <sup>+</sup> B	---	5.5 to 9.0	6.51	7.36	7.17
2	Total Suspended Solids	APHA 23rd Edition, 2540 D	mg/l	100	63	23	57
4	Biochemical Oxygen Demand	IS 3025 (Part 44):1993	mg/l	30	26	26	25
5	Chemical Oxygen Demand	APHA 23rd Edition, 5220 B	mg/l	250	108	124	108
6	Oil & Grease	APHA 23rd Edition, 5520 B	mg/l	10	6	6.5	5











**GG set and DG set Emissions Details**

Annexure II

NO. OF STACKS	32	33	34	35	36	37	38	39
Date of Sampling	14.06.2022	14.06.2022	14.06.2022	14.06.2022	14.06.2022	14.06.2022	15.06.2022	15.06.2022
Date of Reporting	30.06.2022	30.06.2022	30.06.2022	30.06.2022	30.06.2022	30.06.2022	30.06.2022	30.06.2022
Site Name	EDE-001	EDD - 003	EDD - 022	EDD - 017	EDD - 015	EDD - 012	GGs -001	GGs - 1
Village Name	JATGORIA	BARGORIA	GOPEDANGA	PRATAPPUR	BARGORIA	KANTABERIA	KHATGORIA	KHATGORIA
Stack connected to	125 KVA GG Set	125 KVA DG Set	125 KVA DG Set	125 KVA DG Set	125 KVA DG Set	125 KVA GG Set	125 KVA GG Set	180 KVA DG Set
Emission due to	Combustion of CBM	Combustion of HSD	Combustion of HSD	Combustion of HSD	Combustion of HSD	Combustion of CBM	Combustion of CBM	Combustion of HSD
Material of construction of stack	M.S.	M.S.	M.S.	M.S.	M.S.	M.S.	M.S.	M.S.
Shape of stack	Circular	Circular	Circular	Circular	Circular	Circular	Circular	Circular
Height of the stack from ground level	3.96 m.	4.26 m.	4.57m.	4.57 m.	4.57 m.	6.09 m.	4.87 m.	4.87 m.
Height of the sampling point from ground level	3.65 m.	3.04 m.	3.65 m.	3.65 m.	3.65 m.	4.87 m.	3.65 m.	3.65 m.
Diameter of the stack at Sampling Point	0.1015 m	0.1015 m.	0.1015 m.	0.1015 m.	0.1015 m.	0.127 m	0.1015 m.	0.1015 m.
Fuel used	CBM	HSD	HSD	HSD	HSD	CBM	CBM	HSD
Capacity	125 KVA GG Set	125 KVA DG Set	125 KVA DG Set	125 KVA DG Set	125 KVA DG Set	125 KVA GG Set	125 KVA GG Set	180 KVA DG Set
Temperature of emission, (deg. C)	80	108	78	126	112	122	108	111
Barometric pressure, (mm of Hg)	757	757	757	757	757	757	757	757
Velocity of gas in stack, (m/Sec)	9.98	11.08	10.75	11.34	10.32	10.64	10.37	11.12
Quantity of gas flow, (Nm <sup>3</sup> /hr)	246.06	253.14	266.46	247.36	233.28	234.47	236.82	252.02
Total Conc. Nox + NMHC , (g/Kw-hr)	0.2098	0.1875	0.2173	0.1866	0.1744	0.1850	0.1894	0.1608
Concentration of Carbon Monoxide (CO), (g/Kw-hr)	0.15	0.17	0.17	0.16	0.16	0.15	0.16	0.13
Concentration of Particulate Matter (PM), (g/Kw-hr)	0.00	0.12	0.11	0.10	0.10	0.00	0.00	0.08

**GG set and DG set Emissions Details**

Annexure II

NO. OF STACKS	40	41	42	43	44	45	46	47
Date of Sampling	15.06.2022	15.06.2022	15.06.2022	15.06.2022	15.06.2022	15.06.2022	16.06.2022	16.06.2022
Date of Reporting	30.06.2022	30.06.2022	30.06.2022	30.06.2022	30.06.2022	30.06.2022	30.06.2022	30.06.2022
Site Name	GGs - 002	GGs - 002	MCS	CGS	CGS	WAREHOUSE	EDI - 038	EDI-032
Village Name	AKANDARA	AKANDARA	MALANDIGHI	BANSKOPA	BANSKOPA	GOPALPUR	PATHARDIHA	AKANDARA
Stack connected to	125 KVA GG Set	125 KVA DG Set	125 KVA DG Set	50 KVA DG Set	50 KVA GG Set	125 KVA DG Set	125 KVA GG Set	125 KVA GG Set
Emission due to	Combustion of CBM	Combustion of HSD	Combustion of HSD	Combustion of HSD	Combustion of CBM	Combustion of HSD	Combustion of CBM	Combustion of CBM
Material of construction of stack	M.S.	M.S.	M.S.	M.S.	M.S.	M.S.	M.S.	M.S.
Shape of stack	Circular	Circular	Circular	Circular	Circular	Circular	Circular	Circular
Height of the stack from ground level	3.65 m.	4.26 m.	4.87 m.	3.96 m.	4.57 m.	4.87 m.	4.87 m.	4.21 m.
Height of the sampling point from ground level	3.04 m.	3.65 m.	3.65 m.	3.35 m.	3.96 m.	3.65 m.	4.26 m.	2.43 m.
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.	0.1015 m.	0.1015 m.
Fuel used	CBM	HSD	HSD	HSD	CBM	CBM	CBM	CBM
Capacity	125 KVA GG Set	125 KVA DG Set	125 KVA DG Set	50 KVA DG Set	50 KVA GG Set	125 KVA DG Set	125 KVA GG Set	125 KVA GG Set
Temperature of emission, (deg. C)	93	118	104	68	60	110	110	122
Barometric pressure, (mm of Hg)	757	757	757	757	757	757	757	757
Velocity of gas in stack, (m/Sec)	10.98	11.30	11.02	9.81	8.85	11.08	10.39	11.40
Quantity of gas flow, (Nm <sup>3</sup> /hr)	261.01	251.61	254.34	250.27	231.13	254.11	236.06	251.27
Total Conc. Nox + NMHC , (g/Kw-hr)	0.1968	0.1899	0.2023	0.2693	0.2794	0.1958	0.1888	0.1916
Concentration of Carbon Monoxide (CO), (g/Kw-hr)	0.17	0.16	0.16	0.29	0.26	0.16	0.14	0.16
Concentration of Particulate Matter (PM), (g/Kw-hr)	0.00	0.12	0.11	0.17	0.00	0.12	0.00	0.00

## GG set and DG set Emissions Details

Annexure II

NO. OF STACKS	48	49	50	51	52	53	54	55
Date of Sampling	16.06.2022	16.06.2022	16.06.2022	16.06.2022	16.06.2022	21.11.2022	21.11.2022	21.11.2022
Date of Reporting	30.06.2022	30.06.2022	30.06.2022	30.06.2022	30.06.2022	10.12.2022	10.12.2022	10.12.2022
Site Name	EDI-036	EDI-120	EDI-039	EDN-162	EDI-115	EDH-033	EDH-031	EDH - 029
Village Name	AKANDARA	HARIKI	SARASWATIGUN	PATHARDIHA	SARASWATIGUN	LABNAPARA	DHABANI	DHABANI
Stack connected to	125 KVA GG Set	125 KVA GG Set	125 KVA GG Set	50 KVA DG Set	50 KVA DG Set	125 KVA GG Set	125 KVA GG Set	50 KVA GG Set
Emission due to	Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of HSD	Combustion of HSD	Combustion of CBM	Combustion of CBM	Combustion of CBM
Material of construction of stack	M.S.	M.S.	M.S.	M.S.	M.S.	M.S.	M.S.	M.S.
Shape of stack	Circular	Circular	Circular	Circular	Circular	Circular	Circular	Circular
Height of the stack from ground level	5.91 m.	3.76 m.	4.26 m.	3.80 m.	4.57 m.	3.96 m.	3.05 m	3.65 m.
Height of the sampling point from ground level	3.04 m.	3.04 m.	3.65 m.	3.65 m.	3.65 m.	3.35 m.	3.05 m.	3.65 m.
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	0.1015 m	0.1015 m
Fuel used	CBM	CBM	CBM	HSD	HSD	CBM	CBM	CBM
Capacity	125 KVA GG Set	125 KVA GG Set	125 KVA GG Set	50 KVA DG Set	50 KVA DG Set	125 KVA GG Set	125 KVA GG Set	50 KVA GG Set
Temperature of emission, (deg. C)	124	119	117	51	63	111	98	98
Barometric pressure, (mm of Hg)	757	757	757	757	757	756	756	756
Velocity of gas in stack, (m/Sec)	10.58	10.51	11.33	9.51	9.79	10.36	10.08	10.98
Quantity of gas flow, (Nm <sup>3</sup> /hr)	231.93	233.38	252.82	256.18	251.11	227.32	231.78	251.11
Total Conc. Nox + NMHC , (g/Kw-hr)	0.1798	0.1826	0.1909	0.3306	0.2852	0.1217	0.1252	0.1001
Concentration of Carbon Monoxide (CO), (g/Kw-hr)	0.14	0.13	0.15	0.29	0.13	0.11	0.11	0.09
Concentration of Particulate Matter (PM), (g/Kw-hr)	0.00	0.00	0.00	0.19	0.20	0.00	0.00	0.00









**GG set and DG set Emissions Details**

Annexure II

NO. OF STACKS	80	81	82	83	84	85	86	87
Date of Sampling	24.11.2022	25.11.2022	25.11.2022	25.11.2022	25.11.2022	25.11.2022	25.11.2022	25.11.2022
Date of Reporting	10.12.2022	10.12.2022	10.12.2022	10.12.2022	10.12.2022	10.12.2022	10.12.2022	10.12.2022
Site Name	EDD-030	EDH-064	EDH-064	EDD-023	EDD-022 [A]	EDD-022 [B]	EDD-022	EDD-025
Village Name	JAMBON	LABNAPARA	LABNAPARA	FULJHORE	FULJHORE	FULJHORE	FULJHORE	JATGORIA
Stack connected to	50 KVA GG Set	285 KVA GG Set	285 KVA GG Set	50 KVA GG Set	125 KVA GG Set	50 KVA GG Set	125 KVA DG Set	50 KVA GG Set
Emission due to	Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of HSD	Combustion of CBM
Material of construction of stack	M.S.	M.S.	M.S.	M.S.	M.S.	M.S.	M.S.	M.S.
Shape of stack	Circular	Circular	Circular	Circular	Circular	Circular	Circular	Circular
Height of the stack from ground level	4.26 m.	5.45 m.	5.45 m.	3.50 m.	1.52 m.	3.65 m.	4.57 m.	3.60 m.
Height of the sampling point from ground level	4.26 m.	5.40 m.	5.40 m.	3.22 m.	1.52 m.	3.04 m.	3.65 m.	3.35 m.
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.	0.1015 m.	0.1015 m
Fuel used	CBM	CBM	CBM	CBM	CBM	CBM	HSD	CBM
Capacity	50 KVA GG Set	285 KVA GG Set	285 KVA GG Set	50 KVA GG Set	125 KVA GG Set	50 KVA GG Set	125 KVA DG Set	50 KVA GG Set
Temperature of emission, (deg. C)	87	180	190	78	92	68	124	70
Barometric pressure, (mm of Hg)	756	756	756	756	756	756	756	756
Velocity of gas in stack, (m/Sec)	9.15	14.20	13.15	9.04	10.10	8.91	10.53	8.94
Quantity of gas flow, (Nm <sup>3</sup> /hr)	214.94	262.03	237.41	217.18	233.20	220.94	224.00	219.48
Total Conc. Nox + NMHC , (g/Kw-hr)	0.0877	0.0701	0.0660	0.1041	0.1345	0.1136	0.1284	0.1129
Concentration of Carbon Monoxide (CO), (g/Kw-hr)	0.08	0.09	0.09	0.08	0.12	0.08	0.12	0.08
Concentration of Particulate Matter (PM), (g/Kw-hr)	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00

## GG set and DG set Emissions Details

Annexure II

NO. OF STACKS	88	89	90	91	92	93	94	95
Date of Sampling	25.11.2022	25.11.2022	26.11.2022	26.11.2022	26.11.2022	26.11.2022	26.11.2022	26.11.2022
Date of Reporting	10.12.2022	10.12.2022	10.12.2022	10.12.2022	10.12.2022	10.12.2022	10.12.2022	10.12.2022
Site Name	EDI-039	EDI-038	EDI-040	EDI-042	EDI - 032 [A]	EDI - 032 [B]	EDH - 034	EDI-036
Village Name	SARASWATIGUN	SARASWATIGUN	SARASWATIGUN	SARASWATIGUN	AKANDARA	AKANDARA	AKANDARA	AKANDARA
Stack connected to	125 KVA GG Set	125 KVA GG Set	125 KVA GG Set	50 KVA DG Set	125 KVA GG Set	125 KVA GG Set	125 KVA GG Set	125 KVA GG Set
Emission due to	Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of HSD	Combustion of CBM	Combustion of CBM	Combustion of CBM	Combustion of CBM
Material of construction of stack	M.S.	M.S.	M.S.	M.S.	M.S.	M.S.	M.S.	M.S.
Shape of stack	Circular	Circular	Circular	Circular	Circular	Circular	Circular	Circular
Height of the stack from ground level	4.26 m.	4.87 m.	4.26 m.	3.65 m.	4.43 m.	4.43 m.	4.26 m.	5.91 m.
Height of the sampling point from ground level	3.65 m.	4.26 m.	4.26 m.	3.40 m.	4.21 m.	4.21 m.	4.26 m.	3.04 m.
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.	0.1015 m.	0.1015 m.
Fuel used	CBM	CBM	CBM	HSD	CBM	CBM	CBM	CBM
Capacity	125 KVA GG Set	125 KVA GG Set	125 KVA GG Set	50 KVA DG Set	125 KVA GG Set	125 KVA GG Set	125 KVA GG Set	125 KVA GG Set
Temperature of emission, (deg. C)	118	120	117	74	118	145	150	139
Barometric pressure, (mm of Hg)	756	756	756	756	756	756	756	756
Velocity of gas in stack, (m/Sec)	10.44	10.47	12.78	9.83	11.29	10.81	10.75	10.60
Quantity of gas flow, (Nm <sup>3</sup> /hr)	225.91	225.11	227.3	240.04	245.73	217.95	213.48	217.13
Total Conc. Nox + NMHC , (g/Kw-hr)	0.1078	0.1074	0.1091	0.1877	0.1173	0.1057	0.1013	0.1129
Concentration of Carbon Monoxide (CO), (g/Kw-hr)	0.12	0.12	0.11	0.09	0.11	0.11	0.11	0.11
Concentration of Particulate Matter (PM), (g/Kw-hr)	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00

## GG set and DG set Emissions Details

Annexure II

NO. OF STACKS	96	97	98	99	100	101	102	103
Date of Sampling	26.11.2022	28.11.2022	28.11.2022	28.11.2022	28.11.2022	28.11.2022	28.11.2022	28.11.2022
Date of Reporting	10.12.2022	10.12.2022	10.12.2022	10.12.2022	10.12.2022	10.12.2022	10.12.2022	10.12.2022
Site Name	EDI - 037	EDD - 003	EDD - 006	EDD - 007	EDD - 011	EDD - 017	EDD - 015	EDD - 405
Village Name	AKANDARA	BARGORIA	BARGORIA	GOPEDANGA	BORGORIA	PRATAPPUR	BARGORIA	KALIKAPUR
Stack connected to	125 KVA GG Set	125 KVA DG Set	50 KVA DG Set	50 KVA DG Set	50 KVA DG Set	125 KVA DG Set	125 KVA DG Set	50 KVA DG Set
Emission due to	Combustion of CBM	Combustion of HSD	Combustion of HSD	Combustion of HSD	Combustion of HSD	Combustion of HSD	Combustion of HSD	Combustion of HSD
Material of construction of stack	M.S.	M.S.	M.S.	M.S.	M.S.	M.S.	M.S.	M.S.
Shape of stack	Circular	Circular	Circular	Circular	Circular	Circular	Circular	Circular
Height of the stack from ground level	4.26 m.	4.26 m.	4.21 m.	4.26 m.	3.57m.	4.57 m.	4.57 m.	4.65 m.
Height of the sampling point from ground level	4.26 m.	3.04 m.	4.00 m.	4.20 m.	3.25 m.	3.65 m.	3.65 m.	3.26 m.
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.	0.1015 m.	0.1015 m.
Fuel used	CBM	HSD	HSD	HSD	HSD	HSD	HSD	HSD
Capacity	125 KVA GG Set	125 KVA DG Set	50 KVA DG Set	50 KVA DG Set	50 KVA DG Set	125 KVA GG Set	125 KVA DG Set	50 KVA DG Set
Temperature of emission, (deg. C)	138	130	88	76	62	128	132	60
Barometric pressure, (mm of Hg)	756	756	756	756	756	756	756	756
Velocity of gas in stack, (m/Sec)	10.72	10.95	9.16	9.01	8.83	10.59	10.64	8.81
Quantity of gas flow, (Nm <sup>3</sup> /hr)	218.89	215.76	215.25	218.01	222.25	222.24	221.33	222.15
Total Conc. Nox + NMHC , (g/Kw-hr)	0.1128	0.1149	0.1476	0.1702	0.1607	0.1319	0.1305	0.1793
Concentration of Carbon Monoxide (CO), (g/Kw-hr)	0.11	0.14	0.13	0.12	0.12	0.14	0.15	0.16
Concentration of Particulate Matter (PM), (g/Kw-hr)	0.00	0.09	0.15	0.14	0.16	0.09	0.09	0.16

## GG set and DG set Emissions Details

Annexure II

NO. OF STACKS	104	105	106	107	108	109	110	111
Date of Sampling	29.11.2022	29.11.2022	29.11.2022	29.11.2022	29.11.2022	29.11.2022	29.11.2022	29.11.2022
Date of Reporting	10.12.2022	10.12.2022	10.12.2022	10.12.2022	10.12.2022	10.12.2022	10.12.2022	10.12.2022
Site Name	EDC - 072	EDD - 409	EDG - 077	EDG - 074	EDD - 049	EDD - 053	EDD - 027	EDD - 028
Village Name	NACHAN	PRATAPPUR	KAMALPUR	PARULIA	NACHAN	NACHAN	KANTABERIA	DHABANI
Stack connected to	125 KVA DG Set	125 KVA DG Set	50 KVA DG Set	125 KVA DG Set	125 KVA DG Set	125 KVA DG Set	50 KVA DG Set	50 KVA DG Set
Emission due to	Combustion of HSD	Combustion of HSD	Combustion of HSD	Combustion of HSD	Combustion of HSD	Combustion of HSD	Combustion of HSD	Combustion of HSD
Material of construction of stack	M.S.	M.S.	M.S.	M.S.	M.S.	M.S.	M.S.	M.S.
Shape of stack	Circular	Circular	Circular	Circular	Circular	Circular	Circular	Circular
Height of the stack from ground level	4.26 m.	4.57 m.	3.65 m.	4.57 m.	3.87 m.	4.03 m.	4.26 m.	4.26 m.
Height of the sampling point from ground level	4.20 m.	3.65 m.	3.26 m.	3.65 m.	3.26 m.	3.25 m.	4.20 m.	3.65 m.
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	0.1015 m	0.1015 m.
Fuel used	HSD	HSD	HSD	HSD	HSD	HSD	HSD	HSD
Capacity	125 KVA DG Set	125 KVA DG Set	50 KVA DG Set	125 KVA DG Set	125 KVA DG Set	125 KVA DG Set	50 KVA DG Set	50 KVA DG Set
Temperature of emission, (deg. C)	140	136	67	134	140	152	72	66
Barometric pressure, (mm of Hg)	756	756	756	756	756	756	756	756
Velocity of gas in stack, (m/Sec)	10.74	10.68	8.90	10.66	10.70	10.89	9.80	8.86
Quantity of gas flow, (Nm <sup>3</sup> /hr)	218.66	221.00	220.45	221.29	218.31	216.62	240.58	221.15
Total Conc. Nox + NMHC , (g/Kw-hr)	0.1274	0.1375	0.1752	0.1319	0.1271	0.1247	0.1682	0.1649
Concentration of Carbon Monoxide (CO), (g/Kw-hr)	0.14	0.14	0.11	0.14	0.14	0.14	0.12	0.11
Concentration of Particulate Matter (PM), (g/Kw-hr)	0.10	0.11	0.17	0.10	0.11	0.10	0.18	0.15

**GG set and DG set Emissions Details**


Annexure II

<b>NO. OF STACKS</b>	<b>112</b>	<b>113</b>	<b>114</b>	<b>115</b>	<b>116</b>	<b>117</b>
<b>Date of Sampling</b>	30.11.2022	30.11.2022	30.11.2022	30.11.2022	30.11.2022	30.11.2022
<b>Date of Reporting</b>	10.12.2022	10.12.2022	10.12.2022	10.12.2022	10.12.2022	10.12.2022
<b>Site Name</b>	EDI - 070	EDI - 038	EDI - 115	EDI - 046	EDI-120	EDN-162
<b>Village Name</b>	GHATAKDANGA	SARASWATIGUN	SARASWATIGUN	AKANDARA	HARIKI	PATHARDIHA
<b>Stack connected to</b>	50 KVA DG Set	50 KVA DG Set	50 KVA DG Set	50 KVA DG Set	50 KVA DG Set	50 KVA DG Set
<b>Emission due to</b>	Combustion of HSD	Combustion of HSD	Combustion of HSD	Combustion of HSD	Combustion of HSD	Combustion of HSD
<b>Material of construction of stack</b>	M.S.	M.S.	M.S.	M.S.	M.S.	M.S.
<b>Shape of stack</b>	Circular	Circular	Circular	Circular	Circular	Circular
<b>Height of the stack from ground level</b>	4.57 m.	4.84 m.	4.57 m.	3.87 m.	4.26 m.	3.85 m.
<b>Height of the sampling point from ground level</b>	4.26 m.	4.26 m.	3.65 m.	3.65 m.	3.65 m.	3.85 m.
<b>Diameter of the stack at Sampling Point</b>	0.1015 m.	0.1015 m.	0.1015 m.	0.1015 m.	0.1015 m.	0.1015 m.
<b>Fuel used</b>	HSD	HSD	HSD	HSD	HSD	HSD
<b>Capacity</b>	50 KVA DG Set	50 KVA DG Set	50 KVA DG Set	50 KVA DG Set	50 KVA DG Set	50 KVA DG Set
<b>Temperature of emission, (deg. C)</b>	54	60	61	67	79	75
<b>Barometric pressure, (mm of Hg)</b>	756	756	756	756	756	756
<b>Velocity of gas in stack, (m/Sec)</b>	7.81	8.06	8.81	8.87	8.07	9.84
<b>Quantity of gas flow, (Nm<sup>3</sup>/hr)</b>	200.87	203.84	221.87	220.68	193.58	239.57
<b>Total Conc. Nox + NMHC , (g/Kw-hr)</b>	0.1857	0.1649	0.1796	0.1645	0.1460	0.1756
<b>Concentration of Carbon Monoxide (CO), (g/Kw-hr)</b>	0.11	0.12	0.13	0.12	0.12	0.14
<b>Concentration of Particulate Matter (PM), (g/Kw-hr)</b>	0.13	0.17	0.19	0.16	0.15	0.17

## 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. AN 818 SEC-2B MARTIN LUTHER KING SARANI, BIDHANNAHAR, DURGAPOUR - 713212			
2.	Sender's authorisation No.	:	15/25(HW) - 2449/2008		
3.	Manifest Document No.	:			
4.	Transporter's name and address : (including Phone No. and e-mail)	Inspec Oils Limited A/102, phase-III, Block-A-Kalyan			
5.	Type of vehicle	:	(Truck / Tanker / Special Vehicle)		
6.	Transporter's registration No.	:	182/25 (HW) - 2545/2009.		
7.	Vehicle registration No.	:			
8.	Receiver's name and mailing address (including Phone No. and e-mail)	Inspec Oils Limited A/102, phase-III, Block-A Kalyan Nadia.			
9.	Receiver's authorisation No.	:	182/25 (HW) - 2545/2009.		
10.	Waste description	:	- Used oil -		
11.	Total quantity No. of Containers	:	5670 m <sup>3</sup> or MT / LTR 27 Drum Nos.		
12.	Physical form	:	(Solid / Semi-Solid / Sludge / Oily / Tarry / Slurry / Liquid)		
13.	Special handling instructions and additional information	:	Handling 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	Day	Year
		<i>Ab. J. Roy</i>	05	05	2022
15.	Transporter's acknowledgement of receipt of Waste				
Name and stamp :		Signature :	Month	Day	Year
<i>Inspection</i>		<i>As per ti. Roy</i>			2022
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)	Kesor Oil and Gas Exploration and production Limited Durgapur. 713 212.		
2.	Sender's authorisation No.	:	15/25(HW) - 2449/2008	
3.	Manifest Document No.	:		
4.	Transporter's name and address : (including Phone No. and e-mail)	Inspec Oils Limited A/123 Phase III Block A Kalyani		
5.	Type of vehicle	:	(Truck / Tanker / Spécial Vehicle)	
6.	Transporter's registration No.	:	182/28 (HW) - 2545/2009	
7.	Vehicle registration No.	:		
8.	Receiver's name and mailing address (including Phone No. and e-mail)	Inspec Oils Limited A/123 Phase III Block A Kalyani Nadia		
9.	Receiver's authorisation No.	:	182/28 (HW) - 2545/2009	
10.	Waste description	:	- Used oil	
11.	Total quantity No. of Containers	:	..... 2400 LTR ..... m <sup>3</sup> or MT/HW ..... 12 ..... Nos.	
12.	Physical form	:	<del>(Solid / Semi - Solid / Sludge / Oily / Tarry / Slurry / Liquid)</del>	
13.	Special handling instructions and additional information	:	Handle	
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	Day
			08	19 2022
15.	Transporter acknowledgement of receipt of Wastes			
	Name and stamp :	Signature :	Month	Day
	 Manoj Dasgupta		08	20 2022
16.	Receiver's certification for receipt of hazardous and other waste			
	Name and stamp :	Signature :	Month	Day



**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 WLL AND POST - MOLANDITHI DIST - PASCHIM BARDHAMAN 713212		
2.	Sender's authorisation No.	:	205 125 (H/W) - 2449 / 2008	
3.	Manifest Document No.	:		
4.	Transporter's name and address : (including Phone No. and e-mail)	Inspection oils Limited A/122, phase III, Block A, Kalyani		
5.	Type of vehicle	:	(Truck / Tanker / Special Vehicle)	
6.	Transporter's registration No.	:	188/DE (HW) - 2545 / 2009,	
7.	Vehicle registration No.	:	WB03C7075	
8.	Receiver's name and mailing address (including Phone No. and e-mail)	Inspection oils Limited A/122, phase III, Block A, Kalyani, Nadia.		
9.	Receiver's authorisation No.	:	188/DE (HW) - 2545 / 2009.	
10.	Waste description	:	- Used oil -	
11.	Total quantity	:	8000 LTR	
	No. of Containers	:	.....m <sup>3</sup> or MT/225	
		:	.....k.O.....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	Day
			01	24
			20	23
15.	Transporter acknowledgement of receipt of Wastes			
	Name and stamp	Signature :	Month	Day
			01	24
			20	23
16.	Receiver's certification for receipt of hazardous and other waste			
	Name and stamp	Signature :	Month	Day

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)	ISSAR OIL AND GAS EXPLORATION AND PRODUCTION LTD Plot No. 403 & 404, Bangalore Dist - Bangalore Cantonment 712212			
2.	Sender's authorisation No.	205 / 23 / (H/W) - 2445 / 2008			
3.	Manifest Document No.	NB19H5280			
4.	Transporter's name and address (including Phone No. and e-mail)	TOMAS LUB Delhi Road, Bangalore, Rishara, Po Mullabets, Dist, Hooghly - 712220			
5.	Type of vehicle	(Truck / Tanker / Special Vehicle)			
6.	Transporter's registration No.	03/25 (H/W) - 3591 / 2019			
7.	Vehicle registration No.	NB19H2804 / NB19L3884			
8.	Receiver's name and mailing address (including Phone No. and e-mail)	TOMAS LUB Delhi Road, Bangalore, Rishara, Po Mullabets, Dist, Hooghly - 712220			
9.	Receiver's authorisation No.	03/25 (H/W) - 3591 / 2019			
10.	Waste description	waste oil			
11.	Total quantity No. of Containers	5000 Ltr _____ m <sup>3</sup> or MT Nos.			
12.	Physical form	(Solid / Semi-Solid / Sludge / Clay / Tarry / Slurry / Liquid)			
13.	Special handling instructions and additional information	Handle w/ 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	Day	Year
			02	13	2023
15.	Transporter acknowledgement of receipt of Wastes				
Name and stamp		Signature	Month	Day	Year
		 P.D. Mollabets Dist - Hooghly 712220	02	13	2023
16.	Receiver's certification for receipt of hazardous and other waste				
Name and stamp		Signature	Month	Day	Year
			02	13	2023



## FORM 10

2nd Copy

## WEST BENGAL WASTE MANAGEMENT LIMITED

J.L. No. - 80, Vill. : Pabayan, P.O. : Bishjore, P.S. : Saltora, Bankura, W.B. 722158

## MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's name and mailing address (including Phone No. and e-mail) :	FSSAI OIL AND GAS EXPLORATION AND PRODUCTION LIMITED Vill and Post - Malandi Block - Kankra Dist - Paschim Bardhaman DURGAPUR 713212			
2	Sender's authorization No. :	205/25 (HW) - 2449/2008			
3	Manifest Document No. :	1 432			
4	Transporter's name and address (including Phone No. and e-mail) :	West Bengal Waste Management Limited J.L. No. - 80, Mouza : Pabayan, P.S. : Saltora, Dist. : Bankura West Bengal, Pin- 722158			
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 J.L. No. - 80, Mouza : Pabayan, P.S. : Saltora, Dist. : Bankura West Bengal, Pin- 722158			
9	Receiver's authorization No. :				
10	Waste description :	Oil (contaminated waste, filter, silica)			
11	Total quantity No. of Containers :	4.73 m3 or MT Nos.			
12	Physical form :	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)			
13	Special handling instructions and additional information	Safety shoe, Hand gloves, goggles, Helmets			
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
			11	10	2022
15	Transporter acknowledgement of receipt of Wastes :	Signature	Day	Month	Year
	Name and stamp		11	10	2022
16	Receiver's certification for receipt of hazardous and other waste :	Signature	Day	Month	Year
	Name and stamp				


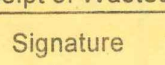
1. White Colour forwarded to WBPCB by HzW Sender  
3. Pink Colour retained by HzW Receiver  
5. Green Colour forwarded to WBPCP after disposal by HzW Receiver

2. Yellow Colour retained by HzW sender  
4. Orange Colour retained by transporter  
6. Blue Colour returned to sender after disposal by

WEST BENGAL WASTE MANAGEMENT LIMITED

J.L. No. - 80, Vill. : Pabayan, P.O. : Bishjore, P.S. : Saltora, Bankura, W.B. 722158

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 WELL AND POST → MOLANDIHTI BLOCK → KANKSA DIST → PASCHIM BARDHAMAN 713212		
2	Sender's authorization No. :	205125 (HW) - 2449/2008		
3	Manifest Document No. :	1 <b>386</b>		
4	Transporter's name and address (including Phone No. and e-mail) :	West Bengal Waste Management Limited J.L. No. - 80, Mouza : Pabayan, P.S. : Saltora, Dist. : Bankura West Bengal, Pin- 722158		
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 J.L. No. - 80, Mouza : Pabayan, P.S. : Saltora, Dist. : Bankura West Bengal, Pin- 722158		
9	Receiver's authorization No. :			
10	Waste description :	oil filter, waste cotton, silica, filter.		
11	Total quantity No. of Containers :	3.580 ..... m3 or MT ..... Nos.		
12	Physical form :	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)		
13	Special handling instructions and additional information	SAFETY shoe, Handgloves, goggles, helmet		
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
			10	01 11 2022
15	Transporter acknowledgement of receipt of Wastes :			
	Name and stamp	Signature	Day	Month Year
			10	11 11 2022
16	Receiver's certification for receipt of hazardous and other waste :			
	Name and stamp	Signature	Day	Month Year

1. White Colour forwarded to WBPCB by HzW Sender

3. Pink Colour retained by HzW Receiver

5. Green Colour forwarded to WBPCP offer disposal by HzW Receiver

2. Yellow Colour retained by HzW sender

4. Orange Colour retained by transporter

6. Blue Colour returned to sender after disposal by HzW Receiver

FORM 10

2nd Copy

WEST BENGAL WASTE MANAGEMENT LIMITED

J.L. No. - 80, Vill. : Pabayan, P.O. : Bishjore, P.S. : Saltora, Bankura, W.B. 722158

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 Bardwan, 713212		
2	Sender's authorization No. :	205/25 (N/W) - 2449/2008		
3	Manifest Document No. :	1 474		
4	Transporter's name and address (including Phone No. and e-mail) :	West Bengal Waste Management Limited J.L. No. - 80, Mouza : Pabayan, P.S. : Saltora, Dist. : Bankura West Bengal, Pin- 722158		
5	Type of vehicle :	(Truck/Tanker/Special Vehicle)		
6	Transporter's registration No. :	1-MD(E)/X/06		
7	Vehicle registration No. :	WB 41F 9569		
8	Receiver's name and mailing address (including Phone No. and e-mail) :	West Bengal Waste Management Limited J.L. No. - 80, Mouza : Pabayan, P.S. : Saltora, Dist. : Bankura West Bengal, Pin- 722158		
9	Receiver's authorization No. :			
10	Waste description :	Waste filter -> 1.70 TON, Cotton waste -> 1.61 TON		
11	Total quantity No. of Containers :	3.310 TON ..... m3 or MT ..... Nos.		
12	Physical form :	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)		
13	Special handling instructions and additional information	Safety shoe, Hand gloves, goggle, Helmets		
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
			28	02 2023
15	Transporter's acknowledgement of receipt of Wastes :			
	Name and stamp	Signature	Day	Month Year
			28	02 2023
16	Receiver's certification for receipt of hazardous and other waste :			
	Name and stamp	Signature	Day	Month Year

- 1. White Colour forwarded to WBPCB by HzW Sender
- 3. Pink Colour retained by HzW Receiver
- 5. Green Colour forwarded to WBPCP offer disposal by HzW Receiver

- 2. Yellow Colour retained by HzW sender
- 4. Orange Colour retained by transporter
- 6. Blue Colour returned to sender after disposal by HzW Receiver

**Bio-degradable and Recyclable Solid Waste Record for the FY 2022-23**

**Annexure- V**

Sl. No.	Category of waste	Quantity (Kg.)											Yearly Total (Kg.)	
		Apr.'22	May'22	June'22	July'22	Aug.'22	Sept.'22	Oct.'22	Nov.'22	Dec.'22	Jan.'23	Feb.'23		Mar.'23
1	Bio-degradable waste	1910	1930	2020	2330	3020	2770	2890	2810	3020	2970	2740	2040	<b>30450</b>
2	Recyclable Waste	1300	1360	2120	2510	2590	3500	3090	3230	3010	3370	3120	4240	<b>33440</b>
<b>Monthly Total (Kg.)</b>		<b>3210</b>	<b>3290</b>	<b>4140</b>	<b>4840</b>	<b>5610</b>	<b>6270</b>	<b>5980</b>	<b>6040</b>	<b>6030</b>	<b>6340</b>	<b>5860</b>	<b>6280</b>	

<b>Gross Total (Kg.)</b>	<b>63890</b>
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**Expenditure towards environmental protection including  
abatement of pollution, prevention of pollution**

**Annexure VII**

<b>S. No.</b>	<b>Particular</b>	<b>Expenses (INR)</b>
1	RO Plant System upgradation of existing water handling system (CAPEX)	64,01,535
2	Operation & Maintenance of the RO system & pumps and water tanker services (OPEX)	2,57,95,309
3	Environmental Monitoring	11,58,993
4	Waste Management	16,81,024
5	Toxicology Analysis of Drill Cuttings	1,22,988
6	Green belt development	4,89,649
<b>Total</b>		<b>3,56,49,498</b>

Hulladek Recycling Private  
 Limited  
 5, Deshpriya Sashmal Road,  
 Kolkata 700033  
 1800-212-7880 ||  
 help@hulladek.re

Annexure VIII



Company Name	Essar Oil and Gas Exploration and Production Limited	Contact person	Samridhee Sah	Concerned person	Samridhee Sah	Date	2022-09-02	Logistics Executive	AKASH VERMA
Pickup Location	Essar House - Durgapur Village & Post Office - Molandighi, Block:- Kanksa Durgapur Sub-Division, Dist. - Paschim Bardhaman Durgapur 713212   West Bengal   India	Contact no.	7407490013	Contact No.	7407490013	AM/CTM/PE/GBM/CP Name -	Ayush Kumar Soni	Pick Up Request Number	PICKUP-REQNO-8260

Item Code	Item	Description	Quantity	Weight/unit	Net Weight	UOM	HSN Code	Price/UOM (inclusive of applicable taxes)	Total Price (inclusive of applicable taxes)
ITEW2	CPU (missing components)		56	5.90	330.40	Pcs	85481090	247.80	13876.80
ITEW2	Keyboard		25	0.60	15.00	Pcs	85481090	5.90	147.50
ITEW2	SMPS (Power Supply)		11	0.80	8.80	Pcs	85481090	31.86	350.46
ITEW2	TFT Monitor		24	2.80	67.20	Pcs	85481090	106.20	2548.80
ITEW2	UPS		29	6.00	174.00	Pcs	85481090	200.60	5817.40
ITEW6	Printer		2	5.00	10.00	Pcs	85481090	62.54	125.08
ITEW1 (Mainframe)	Network Device		2	2.30	4.60	Pcs	85481090	118.00	236.00
ITEW3	Laptop		56	2.50	140.00	Pcs	85481090	2277.40	127534.40
					750				150636.44

I hereby declare that I will receive/have received Rs. 150636.44 in the form of Cheque/NEFT/RTGS/DD/IMPS/Cash on 02-09-2022 for the above mentioned items.

How would you like to rate our pick-up hero?

Poor	Bad	Neutral	Good	Excellent

Signed Above for	Essar Oil and Gas Exploration and Production Limited

Signed Above for	Hulladek Recycling Pvt Ltd

GSTIN: 19AADCH4384E1Z1

CPCB REGISTRATION NO: B-29016(12)/(PRO)/18/WM-III Division



*Abulhasan Poy*  
*07/09/2022*



Hulladek Recycling Pvt. Ltd

Regd office : 4, DL Khan road, Flat B-401, 4th Floor, Kolkata-700025

PRO Collection Centre : 135 Foreshore Road , Godown No. 26B/1, Shibpur,Howrah - 711102

**Form 6**  
(see Rule 19)

**E-WASTE MANIFEST**

Copy 1: Sender's Copy




1	Sender's Name and mailing address (including Phone No.)	Essar Oil and Gas Exploration and Production Limited, Essar House - Durgapur Village & Post Office - Molandighi, Block:- Kanksa Durgapur Sub-Division, Dist. - Paschim Bardhaman Durgapur 713212   West Bengal   India    7407490013
2	Sender's Authorisation No., if applicable	N/A
3	Manifest document No.	1901/22-23/09004
4	Transporter's Name and address (including Phone No.)	Self, 4, D. L. Khan Road, Kolkata - 700 025., 9903028800
5	Type of Vehicle	<input checked="" type="checkbox"/> Truck <input type="checkbox"/> Tanker <input type="checkbox"/> Special Vehicle <input type="checkbox"/> Other
6	Transporter's Registration No.	B-29016(12)/(PRO)/18/WM-III Division
7	Vehicle Registration No.	WB 11 D 9225
8	Receiver's Name and address (including Phone No.)	Hulladek Recycling Private Limited. 4, D. L. Khan Road, Kolkata - 700 025. Ph.
9	Receiver's Authorisation No., if applicable	B-29016(12)/(PRO)/18/WM-III Division
10	Description of E-waste (Item.Weight/Numbers)	ITEW2 -
11	Description of E-waste (Item.Weight/Numbers) (Producer or Bulk Consumer or Collection Centre or Producer Responsibility Organisation or Dismantler or Recycler)  Date: 07/09/2022	 Abhishek Pat 07/09/2022 Stamp & Signature
12	Transporter's Acknowledgement of Receipt of E-waste  Date: 07/09/2022	 Stamp & Signature
13	Name and Stamp of Receiver (Collection Centre or Producer Responsibility Organisation or Dismantler or Recycler)  Date: 07/09/2022	 Stamp & Signature

Table – A Detailed List of Material

SI.NO.	Description	Quantity
1	CPU	56 Nos.
2	Laptop	56 Nos.
3	Monitor	24 Nos.
4	Offline Desktop UPS	29 Nos.
5	CPU SMPS	11 Nos.
6	Printer	2 Nos.
7	Networking Device	2 Nos.
8	Desktop Keyboard	25 Nos.
	<b>TOTAL QUANTITY</b>	<b>205 Nos.</b>

M.C.S  
-22  
-20  
8+3

Security Sign.  
H. Grew  
Abhishek Ray