

o/c

Date: 28-09-2023

✓ To

The Member Secretary,
State Pollution Control Board, Paribesh Bhavan,
A/118, Nilakantha Nagar, Unit-VII, Bhubaneswar – 751012, Odisha.

Sub: Environmental Statement (Form-V) for the year 2022-2023

Dear Sir,

With reference to above cited subject, Please find enclosed Environmental Statement (Form - V) for common Hazardous waste Treatment, Storage and Disposal Facility, Odisha Waste Management Project, Plot No: 420/648/1, Near Village Kanchichuan, via: Sukinda in the district of Jajpur, Odisha for the year 2022 – 2023.

We hope the above are in order. Kindly acknowledge the receipt of the same.

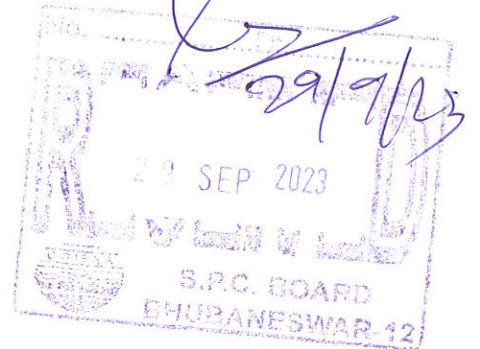
Thanking you,

Yours Sincerely




Authorized Signatory

(Pradipta Kumar Dhal-Project Head)
For Odisha Waste Management Project
(A Division of Re Sustainability Ltd.)



Copy Forwarded to:

1. Senior Environmental Engineer, State Pollution Control Board, Odisha.
2. Regional Officer, State Pollution Control Board, Dhabalgiri, Kalinga Nagar, Jajpur Road, Jajpur, Odisha.



FORM – V

Environmental Statement for the financial year ending 31st March 2023 Part – A

(i)	Name & Address of the Owner/ Occupier of the industry operation or process	Odisha Waste Management Project Plot No: 420/648/1, Village: Kanchichuan via- Mangalpur, Sukinda Jajpur Dist., Orissa.
(ii)	Industry Category Primary (STC Code) Secondary (SIC Code)	Not an Industry but a Common Hazardous Waste Management Facility (TSDF).
(iii)	Production Capacity (Units)	Disposal Capacity of Hazardous Waste 135,000 Mt/ Annum (Landfillable hazardous waste & pretreated waste into landfill).
(iv)	Year of Establishment	2011 Landfill in Operation started from 16 th November 2011 after getting the consent order.
(v)	Date of the last Environmental statement submitted	12 th September 2022 (for the financial year 2021-22).

Part –B

(I) Water and Raw material Consumption

01	Total water consumption	36.67 m ³ /day
	Process as Lab and container washing, Tyre washings and House keepings	3.40 m ³ /day
	Domestic use	6.6 m ³ /day
	Gardening and other construction activities	26.67 m ³ /day

	Name of the Products(*)	Process water consumption per unit of product output	
		During the previous financial year 2021-22	During the current financial year 2022-23
		There is no manufacturing activity as this is a TSDF facility	
(*)	Industry may use codes if disclosing details of raw materials would violate contractual obligations otherwise all industries have to name the raw materials used		

J. S. Pal



(I) Raw material Consumption

Name of the Raw materials	Name of Products	Consumption of raw materials in MT per unit of output	
		During the previous financial year (2021-22)(Metric ton)	During the current financial year (2022-23) (Metric ton)
Lime	Used for stabilization	850.69	841.22
Fly Ash	Used for Stabilization	22198.61	18995.59
Sulphuric Acid	Used for stabilization	0.35	7.00
Ferrous Sulphate	Used for stabilization	1.02	1.73
Cement	Used for stabilization	605.85	636.04
Bleaching Powder	Used for stabilization	201.73	30.23

PART- C

Pollution discharged to environment/unit of output
(Parameter as specified in the consent issued)

Sl. No	Pollutants	Quantity of Pollutants discharged	Concentration of pollutants in discharges (mass/Volume)	Percentage of variation from prescribed Standards with reasons
1	Water	There is no water pollutant because of we are transferring the leachate in solar evaporation pond for natural evaporation purpose.		
2	Air	From DG 62.5 KVA stack emission	DG set sack emissions & AAQ latest Data report enclosed as Annexure – I & II	All parameters specified in CC&A are within prescribed limit

PART- D

As specified under Hazardous Waste (Management, Handling and Transboundary Movements) Rules 2016

Hazardous Wastes	Total Quantity (MT)	
	During the previous financial year (2021-22)	During the current financial year (2022-23)
a. From Process	Nil	Nil
b. From pollution control facilities	Nil	Nil

Prabha



PART- E
SOLID WASTE

Hazardous Wastes	Total Quantity (MT)	
	During the previous financial year (2021-22)	During the current financial year (2022-23)
a. From Process	Nil	Nil
b. From pollution control facilities	Nil	Nil
c. Quantity re-cycled or re – utilized within the unit	Nil	Nil
Total quantity disposed off in landfill	55614.95	52115.44

This is a TSDF (Common Secured landfill) permitted by SPCB for collection, handing, storage and disposal of different type of hazardous waste from member industries to landfill. Please find the list of member industries and the waste received from various industries enclosed as **Annexure –III & IV.**

PART- F

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

OWMP is having a Common Secured Engineering Landfill Facility. It receives waste from various industries/mines of the state. If the waste does not meet the criteria for direct land filling, it is subjected to necessary treatments like neutralization/stabilization etc. and disposed off to the landfill. The secured landfill is developed as per the guidelines of CPCB.

Odisha Waste Management project (A Division of Re Sustainability Limited) has already got the Consent to Establish (CTE) having Order No. 2393/IND-II-CTE-6385 dated 18.02.2021 for establishment of Incinerator for Hazardous Waste. However the Plant is under construction and installation Process. It will be completed at the end of March -2023.

Pekal



PART- G

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

Till 31st March 2023, the facility has disposed 395931.36 MT of Hazardous waste in Common Secured Engineering Landfill Facility.

The Facility has drilled 5 No's of Monitoring Bore Wells inside the premises for monitoring the quality of ground water frequently in every month.

PART- H

Additional measures / investments proposed for environmental protection including abatement/ prevention of pollution.

- NA

PART- I

Any other particulars for improving the quality of the environment

1. OWMP maintains a proper Manifest system as per the Hazardous waste (Management, Handling and Transboundary Movements) Rule 2016 .This helps in keeping proper records.
2. OWMP allows its member industries to visit and observe various operational aspects of TSDF which is highly appreciated.
3. OWMP has planted around 32,368 various types of plants in site.

P. P. P.



STACK ANALYSIS DATA

Stack Details (From April'2022 to March'2023)				
Stack Connected to	D.G.Set (62.5KVA)			
Fuel	Diesel			
Stack diameter (m)	0.0762			
Stack Height (m)	2.0			
Flue Gas Characteristics				
	Min	Max	Average	
Temperature (°K)	348	368	360	
Velocity (m/s)	8.38	8.50	8.43	
Flow Rate (Nm ³ / hr)	158	178	166	
Emission Characteristics				
parameter	Unit	Min	Max	Average
Particulate Matter	(g/kw-hr)	0.18	0.24	0.20
Sulphur Dioxide	mg/Nm ³	37	42	39.58
Oxides of Nitrogen	(g/kw-hr)	4.4	4.9	4.71

S. Roul
Prepared By



[Signature]
Authorized By

Annexure - II

AMBIENT AIR QUALITY DATA

(From April'2022 to March'2023)

Location I-Near Main Gate


Sl. No	Parameters	Min	Max	Average	Limit as per NAAQ Standard -2009 in $\mu\text{g}/\text{m}^3$
1	Particulate Matter PM10 in ($\mu\text{g}/\text{m}^3$)	39.66	51.19	42.60	100
2	Particulate Matter PM2.5 in ($\mu\text{g}/\text{m}^3$)	21.82	26.18	23.55	60
3	Sulfur Dioxide in ($\mu\text{g}/\text{m}^3$)	12.62	20.51	14.36	80
4	Oxides of Nitrogen in ($\mu\text{g}/\text{m}^3$)	14.75	20.79	16.40	80

Location II-Near Administrative Building

Sl. No	Parameters	Min	Max	Average	Limit as per NAAQ Standard -2009 in $\mu\text{g}/\text{m}^3$
1	Particulate Matter PM10 in ($\mu\text{g}/\text{m}^3$)	34.70	39.59	37.40	100
2	Particulate Matter PM2.5 in ($\mu\text{g}/\text{m}^3$)	19.88	24.02	22.49	60
3	Sulfur Dioxide in ($\mu\text{g}/\text{m}^3$)	9.64	14.10	11.06	80
4	Oxides of Nitrogen in ($\mu\text{g}/\text{m}^3$)	11.89	17.63	13.34	80

Location III-Near Landfill

Sl. No	Parameters	Min	Max	Average	Limit as per NAAQ Standard -2009 in $\mu\text{g}/\text{m}^3$
1	Particulate Matter PM10 in ($\mu\text{g}/\text{m}^3$)	44.22	51.99	48.99	100
2	Particulate Matter PM2.5 in ($\mu\text{g}/\text{m}^3$)	25.28	28.69	26.16	60
3	Sulfur Dioxide in ($\mu\text{g}/\text{m}^3$)	13.62	20.55	15.51	80
4	Oxides of Nitrogen in ($\mu\text{g}/\text{m}^3$)	17.88	22.50	19.55	80

S. Rouh.
Prepared By

Authorized By

ODISHA WASTE MANAGEMENT PROJECT
(A Division of Re Sustainability Limited.)

Annexure - III

Membership Details

S. No.	Name of the Generator	Industry type
1	ALCO INDUSTRIES (P) LTD	Metal
2	GULF OIL CORPORATION LTD	Petrochemical
3	SUVOCHEM INDUSTRIES	agrochemical
4	SHREE GANESH AUTOMOBILES	Automobile
5	GREENWAVES PRIVATE LIMITED	Metal
6	UTKAL ASBESTOS (P) LTD	Cement
7	KRISHNA CONSTRUCTION	construction
8	CARGIL INDIA (P) LTD	Food
9	KRISHI RASAYAN	Chemical
10	PURBANCHAL PETROLEUM	Petrochemical
11	KHANDABOND IRON ORE MINES, TATA STEEL	Mining
12	PRAMOD KUMAR BANKA & CO	Petrochemical
13	METAKANI METALS	Metal
14	MAA SAMALESWARI MINERALS	Metal
15	INDIAN RARE EARTHS LTD	Petrochemical
16	SHYAMJI UDYOG	Chemical
17	S.P INDUSTRIES	Recycler
18	METACAST INTERNATIONAL	Metal
19	HIRAKUD METALICS	Metal
20	GAURAV ALUMINIUM	Metal
21	SAMALESWARI CASTING	Metal
22	GLOBAL COAL MINING PVT LTD	Mining
23	MAA VATTARICA METAL WORKS	Metal
24	A.K. ENTERPRISES	Chemical
25	SUBHRA CHEMICALS (UNIT-I)	Chemical
26	GAJANANDA AGARWAL & SONS	Chemical
27	JODA EAST IRON MINES TATA STEEL	Mining
28	SAIMA CHEMICALS	Petrochemical
29	BIJAYA ALUMINIUM	Metal
30	OMSURAJ CHEMICALS & MINERALS (P) LTD	Metal
31	JINDAL STEEL & POWER LTD, PELLET PLANT	Mining
32	SARDA MINES PVT LTD JSPL	Mining
33	MM MINERALS & ALLOYS PVT LTD	Metal
34	HINDUSTAN PETROLEUM CORPORATION LTD	Petrochemical
35	BHUSHAN POWER & STEEL LIMITED	Metal
36	UTKAL CHROMIUM PVT LTD	Mining
37	JINDAL STEEL & POWER LTD, ANGUL	Mining
38	SUBHRA CHEMICALS (UNIT-II) SPENT POT LINE	Chemical
39	ORICHEM LTD	Mining
40	RSB TRANSMISSION LTD	Metal
41	CHEMICAL & METALLURGICAL CO	Chemical
42	DIBYAJYOTI CHEMICALS (P) LTD	Chemical
43	ANANYA ENTERPRISES (P) LTD	Mining
44	HINDALCO INDUSTRIES LIMITED	Metal
45	ADHUNIK METALIKS LIMITED	Metal
46	SUKINDA MINES (CHROMITE) IMFA LTD	Mining
47	JODA WEST MANGANESE MINES (FAMD)	Mining
48	BAMABARI MANGANESE MINES (FAMD)	Mining
49	TIRINGIPAHAR MANGANESE MINES	Mining
50	MALDA MANGANESE MINES (FAMD)	Mining
51	GOMORDIHI DOLOMITE QUARRY (FAMD)	Petrochemical
52	FERRO ALLOYS PLANT, BAMNIPAL (FAMD)	Metal

P. K. Saha



ODISHA WASTE MANAGEMENT PROJECT
(A Division of Re Sustainability Limited.)

Annexure - III

109	BPJ MINES	Mining
110	MAHAPARBAT MINES	Mining
111	TIRINGIPAHAR MINES	Metal
112	SGBK MINES	Metal
113	SERENDA BHADRASAHU MINES	Mining
114	DUBUNA SAKRADIHI MINES	Mining
115	NISHIKHAL MINES	Mining
116	UMPAVALLEY MINES	Mining
117	ROIDA 78 MINES	Mining
118	PURULIPADA MINES	Mining
119	DALKI MINES	Mining
120	SHREE METAL INDUSTRIES	Metal
121	KORP RESOURCES PVT LTD	Metal
122	UNITED SPIRITS LTD	Distilleries
123	SPARDHA STEEL PVT LTD	Metal
124	GOYAL COAL TAR PVT LTD	Petrochemical
125	SINGH METAL INDUSTRIES	Metal
126	GOURI SHANKAR LUBRICANTS	Petrochemical
127	ALLYAN CHEMICALS PVT LTD	Chemical
128	ARYAN MINING	Mining
129	WESTERN BITUMEN INDUSTRIES PVT LTD	Chemical
130	UITC (INDIA) PVT LTD	Chemical
131	AGARWAL RASAYAN	Chemical
132	ADITYA ALUMINA	Metal
133	SHRIYA METALS & CHEMICALS	Chemical
134	SMS INDIA PVT LTD	Metal
135	SRI SAI METALIK	Metal
136	MAHAVEER COKE INDUSTRIES LTD	Metal
137	DHANASHREE SMELTERS	Metal
138	TRL KROSAKI REFRACTORIES LTD	Metal
139	HINDUSTAN AQUA LTD	Metal
140	SUSHIM ENTERPRISE	Metal
141	JINDAL POWER & STEEL LTD	Power
142	BALASORE ALLOYS PVT LTD	Metal
143	EAST COAST BIOTECH PROJECT	Chemical
144	RAJ LUBRICANTS	Petrochemical
145	N.S CHEMICALS	Chemical
146	TARINI PITCH & CHEMICALS PVT LTD	Chemical
147	STEEL AUTHORITY OF INDIA LTD	Metal
148	MIDEAST INTIGRATED STEEL LTD	Metal
149	OCL INDIA LTD	Metal
150	ANAND EXPORT	Metal
151	FERRO ALLOYS CORPORATION LTD MINES	Metal
152	FERRO ALLOYS CORPORATION LTD MINES	Mining
153	HINDUSTAN AERONAUTICS LTD	Chemical
154	ARISE CHEMICAL INDUSTRIES PVT LTD	Chemical
155	FORTIES CHEMICALS	Chemical
156	BHARAT PETROLEUM CORPORATION LTD	Mining
157	RELIABLE SPONGE PVT LTD	Metal
158	ARTH METALLUGICAL PVT LTD	Metal
159	N.C METALLIC & CO	Metal
160	VISA STEEL	Metal
161	JINDAL POWER LTD	Metal
162	ASIAN PETROCHEMICALS	Petrochemical
163	TRADEWELL INDUSTRIES	Metal

Handwritten signature



ODISHA WASTE MANAGEMENT PROJECT
(A Division of Re Sustainability Limited.)

Annexure - III

220	MAHANADI COALFIELDS LIMITED	Mining
221	DAINA FOAMS PVT LTD	Mining
222	KRISHNA AGROTEK	agrochemical
223	KANIHA OCP	Mining
224	INDIAN EXPLOSIVES PRIVATE LIMITED	Defence
225	INDIAN EXPLOSIVES PRIVATE LIMITED	Defence
226	SOLAR INDUSTRIES INDIA LIMITED	Metal
227	THE DHAMARA PORT LTD.	Defence
228	SHRIYA METALS AND CHEMICALS	Chemical
229	ROURKELA STEEL PLANT (SAIL)	Metal
230	INFOSYS LTD. (SEZ UNIT)	IT
231	BHUBANESWARI OCP	Mining
232	KULDA OCP	Mining
233	GARJANBAHAL OCP	Mining
234	BHARATPUR OCP	Mining
235	SHYAM FERRO & OXIDES PVT LIMITED	Metal
236	UTKAL ALUMINA INTERNATIONAL LTD	Metal
237	CHROME SAGAR	Metal
238	JAGANNATH OCP	Mining
239	MERCURY RASAYAN	Chemical
240	ANANTA OCP	Mining
241	ICMR RMRC	research Institute
242	NTPC LTD KANIHA	Power
243	ROCKWELL INDUSTRIES SERVICES PVT LTD	Metal
244	ADISH MINERAL PVT LTD	Metal
245	MGM MINERALS	Metal
246	NTPC TTPS LTD TALCHER	Power
247	INNOCULE MATERIALS AND ADDITIVES PVT LTD	Chemical
248	MIRTUNJAYA UDYOG	Recycler
249	DURGA GI ENTERPRISES	Recycler
250	MAA CHANDI MINERALS	Metal
251	AJS INDUSTRIES	Recycler
252	HPCL LPG BOTTLING PLANT RAYAGADA	Petrochemical
253	PARLE AGRO	Food
254	RENEWABLE ENVIROGIC PRIVATE LTD	Defence
255	BGR MINING & INFRA LTD	Mining
256	BIO TECH SOLUTIONS	bio medical
257	TARINI HALL MARKING CENTER	Food
258	WILD LOTUS FASHION PVT LTD	textile
259	RUNIYA REFINING LLP	Metal
260	HPCL LPG BOTTLING PLANT KHORDHA	Petrochemical
261	BRG IRON AND STEEL CO PVT LTD	Metal
262	PCI PEST CONTROL PVT LTD	Chemical
263	NTPC LTD DARLIPALLI	Mining
264	IISER	research Institute
265	SHREE GALVA	Galvanizing
266	Sagar Automotive	automobile



Pradyota K. S. Thakur
Authorized by

ODISHA WASTE MANAGEMENT PROJECT
(A division of Re Sustainability Limited.)

Annexure - IV

Waste received details for FY 2022-23

S. No.	Generator	Location	Total Quantity (MT)
1	ADANI WILMAR	Paradeep	12.68
2	ADITYA ALUMINIUM	Sambalpur	5766.17
3	ANAND EXPORTS	Jajpur	726.64
4	ANGUL ENERGY LIMITED	Talcher	33.43
5	TATA BHUSHAN STEEL LIMITED	Dhenkanal	825.04
6	BHUSAN POWER AND STEEL LIMITED	Sambalpur	253.99
7	APAR INDUSTRIES	Jharsuguda	0.88
8	BRG IRON & STEEL CO PVT LIMITED	Dhenkanal	89.35
9	CHROME SAGAR	Jajpur	24.85
10	GRASIM INDUSTRIES LTD.	Ganjam	148.12
11	HINDALCO SMELTER	Sambalpur	1313.46
12	HEAVY WATER PLANT	Angul	15.48
13	HINDUSTAN AERONAUTICS LIMITED	Koraput	16.435
14	IDL EXPLOSIVE LTD.	Sundargarh	9.1
15	JINDAL STAINLESS LIMITED	Jajpur	28868.65
16	JINDAL STEEL & POWER LIMITED	Angul	426.9
17	INDIAN EXPLOSIVE PRIVATE LIMITED	Rourkela	9.34
18	INDIAN OIL CORPORATION LIMITED	Paradeep	73.34
19	DHANSAR ENGINEERING COMPANY PVT LTD	Jajpur	229.77
20	FERRO ALLOYS CORPORATION LIMITED	Jajpur	23.52
21	INDIAN METALS AND FERRO ALLOYS LIMITED	Jajpur	49.13
22	INFOSYS LIMITED	Bhubaneswar	0.414
23	JALAN CARBONS & CHEMICALS PVT. LTD.	Angul	0.45
24	KEDIA CARBON	Sundargarh	9.15
25	KRISHNA AGROTEK	Sundargarh	1.04
26	MAA BHAGAWATI ROLLING MILLS	Sundargarh	18.2
27	MIRUNJAI UDYOG	Sundargarh	0.92
28	NALCO	Koraput	0.15
29	NALCO SMELTER	Angul	1897.56
30	NEELACHAL ISPAT NIGAM LIMITED	Jajpur	39.12
31	NEW MODERN TECHNOMECH PVT. LTD.	Baripada	64.18
32	NEZONE TUBES UTKAL LIMITED	Jajpur	1289.43
33	ORICHEM LIMITED	Talcher	282.03
34	PARLE AGRO PVT. LTD.	Khurda	8.64
35	REGIONAL MEDICAL RESEARCH CENTRE	Bhubaneswar	0.65
36	RSB TRANSMISSIONS LTD.	Cuttack	63.14
37	SHREE GALVA	Sundargarh	3.93
38	SMS INDIA PVT.LIMITED	Bhubaneswar	6.38
39	SHREE GANESH AUTOMOBILES	Balasore	1.38
40	SUVOCHEM INDUSTRIES PVT LTD	Cuttack	0.58
41	TATA STEEL LIMITED	Jajpur	428.22
42	TRL KROSAKI REFRACTORIES LTD	Balasore	234.6
43	UNITED BREWERIES LIMITED	Khurda	270.75
44	UTKAL ASBESTOS LIMITED	Dhenkanal	6.45
45	VEDANTA LIMITED	Jharsuguda	8571.8
Total			52115.44



Balajit Kumar
Authorized by