DMSWSL
DELHI MSW SOLUTIONS LTD.

Ref: DMSWSL/WTE/22-23/F5

Date: 07.07.2023

To,
Senior Environmental Engineer,
WMC-II,
Delhi Pollution Control Committee.
New Delhi – 110006.

07/07/2023
(ENQUIRY COUNTER)
DELHI POLLUTION CONTROL COMMITTEE
DEPARTMENT OF ENVIRONMENT
GOVT. OF NCT OF DELHI
4TH FLOOR, ISBT BUILDING,
KASMHERE GATE, DELHI-110006

Dear Sir,

Sub: Submission of Annual Environment Statement Form V for FY 2022-23 for Delhi MSW Solutions Ltd. Waste to Energy Plant (24MW)

We, Delhi MSW Solutions Ltd are operating a 24 MW Waste to Energy Plant at Bawana as per Consent Condition and also as per provision of the Environmental protection act 1986 we are here submitting Annual Environment Statement (Form-V) For FY 2022-23.

This is for your kind information and record please.

Thanking You.

You're sincerely

For Delhi MSW Solutions Ltd. (WTE)

Authorized Signatory
Enclosed as above

DELHI MSW SOLUTIONS LIMITED
BAWANA
DELHI-39

Delhi MSW Solutions Limited (WTE)
(A Subsidiary of Re Sustainability Limited)
Site Address:
Sector-5, Pocket N-1, Bawana Industrial Area,
Behind Pragati Power Plant, Bawana,
New Delhi - 110039, India.

Registered Office:
Level 11B, Aurobindo Galaxy,

T: 8595908844

[Form-V]

(See rule 14)

Environmental Statement for the Financial Year Ending the 31st March 2023

Part - A

i.	Name & Address of the Industrial unit/Project	Delhi MSW Solutions Ltd.- Waste to Energy (24 MW) Pocket N-1, Sector-5, Bawana Industrial area, Delhi-110039
ii.	Name & address of the owner/occupier of the industry operation or process	B Prasad Reddy Pocket N-1, Sector-5, Bawana Industrial area, Delhi-110039
iii.	Industry category primary – STC Code Secondary – (SIC Code)	Red Category
iv.	Production Capacity Units	24 MW - Waste to Energy
v.	Year of Establishment	2017
vi.	Date of the last environmental statement submitted.	29.07.2022

Part - B

Water & Raw Material Consumption:

1. Water Consumption M^3 / Day :

S.No	Description	Water Consumption M^3 / Day
1	Process- (ash quenching)	60
2	Cooling	70
3	Domestic	6
4	Boiler	140
5	Gardening	70

Name of Products	Process water consumption in M^3 per MW of product output	
	During the previous Financial Year in MT	During the current Financial Year in MT
Electricity	1.27 M3/MW	1.28 M3/MW

2. Raw Material Composition:

Name of Raw Materials	Name of Products	Consumption of raw Material per Unit	
		During the previous Financial Year	During the current Financial Year
RDF		467525 MT	456619 MT
	Electricity	163260 MWH	163638 MWH

Part - C

Pollution discharged to environmental/ unit of out put
(Parameter as specified in the consent issued)

1-Pollutants	Quantity of Pollutants Discharged (mass/day)	Concentration of Pollutants in Discharge (mass/volume)	Percentage of variation from prescribed standards with reasons
(a)Water	Plant follows the zero liquid discharge concepts and hence the generated waste water is treated and reused in the plant itself.		
(b)Air	As per annexure -1 Stack emissions monitoring reports		

Part D-Hazardous Waste

(as specification under Hazardous wastes/ management & handling rules, 1989)

Hazardous Waste	Total Quantity in (Kg)	
	During the previous Financial Year	During the current Financial
a. From process	0	0
b. From Pollution Control Facility	0	0

Part E- Solid Wastes:

Solid Waste Generation	Total Quantity in Kgs	
	During the previous Financial Year	During the current Financial year
a. From process	107900	105734 MT (Bottom Ash & Fly Ash)
b. From Pollution Control Facility		NA
c. 1. Quantity Recycled or reutilized within the units		Nil
2. Sold		Nil
3. Disposal	66171	36040 MT From Bottom ash recycling recovered fine sand aggregates etc. Balance residues 36040 MT disposed in landfill

Part - F

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

No Hazardous waste is generated from the process in the plant. The generated waste oil from machineries is purified by centrifuge processing in the plant itself. And when further purification is not possible it is utilized in lubricating the revolving part of conveyors etc.

Part - G

Impact of the pollution abatement measure taken on conversation of natural resources &on the cost of production

Facility itself is a process designed for environmental safeguard for treatment and disposal of municipal solid waste.

Part - H

Additional measure/ investment proposal for environmental protection including abatement of pollution prevention of pollution

More than 500 no of plants/ sapling were planted in FY 22-23

Annexure1:

Stack Monitoring Results:

S.No.	Parameters	Units	Jun-22	Jul-22	Sep-22	Oct-22
1	Particulate Matter (PM)	mg/Nm3	25.4	22.7	21.4	19.8
2	Sulphur Dioxide (SO2)	mg/Nm3	62.7	59.8	22.8	31.3
3	Oxides of Nitrogen (NO)	mg/Nm3	268.4	193.2	219	207.5
4	Hydrogen Chloride (HCL)	mg/Nm3	14.7	12.4	13.9	15.4
5	Carbon Monoxide (CO)	mg/Nm3	67.5	58.1	36.8	78.7
6	Hydrogen Fluoride (HF)	mg/Nm3	0.18	0.24	0.27	0.21
7	Total Organic Carbon (TOC)	mg/Nm3	5.6	5.2	7	5.7
8	Cadmium	mg/Nm3	<0.001	<0.001	<0.001	<0.001
9	Thorium	mg/Nm3	<0.001	<0.001	<0.001	<0.001
10	Mercury (Hg)	mg/Nm3	<0.001	<0.001	<0.001	<0.001
11	Antimony ,Arsenic, Chromium, Cobalt, Copper, manganese, Nickel, Vanadium,	mg/Nm3	0.139	0.075	0.087	0.117
12	Lead (Pb)	mg/Nm3	0.011	0.017	0.02	0.028
13	Total Dioxins and furans	ng TEQ/Nm3	0.0549	0.045	0.0559	0.0473

Annexure1:

Stack Monitoring Results:

S.No	Parameters	Units	Nov-22	Dec-22	Jan-23	Feb-23	Standards mg/Nm3
1	Particulate Matter (PM)	mg/Nm3	22.3	18.7	16.5	18.4	30 Max
2	Sulphur Dioxide (SO2)	mg/Nm3	53.2	64.7	57	43.6	100 Max
3	Oxides of Nitrogen (NO)	mg/Nm3	266.5	145.5	209.5	199.7	350 Max
4	Hydrogen Chloride (HCL)	mg/Nm3	17.9	14.8	2.1	2.8	50 Max
5	Carbon Monoxide (CO)	mg/Nm3	30.2	48.75	33.8	38.2	100 Max
6	Hydrogen Fluoride (HF)	mg/Nm3	0.32	0.29	<0.1	<0.1	0.5 Max
7	Total Organic Carbon (TOC)	mg/Nm3	6.3	5.4	3	3.5	20 Max
8	Cadmium	mg/Nm3	<0.001	<0.001	<0.001	<0.001	0.5 Max
9	Thorium	mg/Nm3	<0.001	<0.001	<0.001	<0.001	
10	Mercury (Hg)	mg/Nm3	<0.001	<0.001	<0.001	<0.001	0.02 Max
11	Antimony ,Arsenic, Chromium, Cobalt, Copper, manganese, Nickel, Vanadium,	mg/Nm3	0.104	0.102	0.34	0.162	0.5 Max
12	Lead (Pb)	mg/Nm3	0.019	0.023	0.02	0.03	0.1 Max
13	Total Dioxins and furans	ng TEQ/Nm3	0.0518	0.042	0.0302	0.0328	0.1 Max