

Ref. MSPL-II/ ENV_Statement / 2022-2023

Date: 29-Aug -2022

To,
The Member Secretary,
West Bengal pollution control Board
Parivesh Bhawan
10A, Block LA, Sector - III, Salt Lake City
Kolkata- 700 098



**Sub. Environmental Statement for the Financial Year ending the 31st March, 2022
Submitted by M/s Maithan Steel & Power Limited (Unit-II)**

Dear Sir,

With reference to the above subject matters, we hereby enclosed the Environmental statement for the financial year ending the 31st March 2022 as per rule - 14, Form - V for your ready reference.

So, kindly acknowledge the same.

Thanking you

For, M/s Maithan Steel & Power Limited (Unit-II)

Authorized Signatory




Encl. Stated as above

Registered Office:

9, A.J.C. Bose Road, Ideal Centre,
6th Floor, Kolkata - 700 017,
☎ +91 33 4085 7200

Works: Unit-I

P.O. Bonra, P.S.: Neturia - 723121,
Dist.: Purulia, (WB)

Works: Unit-II

Chittaranjan Road, Dendua More,
P.O. & P.S.: Salanpur - 713357,
Dist.: Paschim Bardhaman (WB)

Environmental Statement for the Financial Year 2021-2022

FORM-V

Factory address:

M/s Maithan Steel & Power Limited (Unit-II)
Mouza-Nakrajoria, Chittaranjan Road
P.O+P.S-Salanpur, Dist-Paschim Bardhaman, Pin-713357,
West Bengal



[FORM - V]
(Rule - 14)

Environmental Statement for the financial year ending the 31st March 2022

PART - A

i. Name and address of the owner / occupier of the industry operation or process

Mr. Kaushal Agarwalla
Director

Registered & Corporate office address:

M/s Maithan Steel & Power Limited

9, AJC Bose Road
6th Floor, Kolkatah
Pin-700017
West Bengal

Factory address / location:

M/s Maithan Steel & Power Limited (Unit-II)

Mouza-Nakrajoria, Chittaranjan Road
P.O+P.S-Salanpur, Dist-Paschim Bardhaman
Pin-713357, West Bengal

ii. **Industry category**

Red Category

iii. **Production Capacity**

Sl. No.	Name of the Product	Production Capacity
1	M.S. Billets	3,75,000 TPA
2	TMT Bar	2,97,000 TPA
3	Cold Rolled Product	33,000 TPA

IV. Year of Establishment: Year of 2008

V. Date of the last Environmental Statement submitted: 25th September, 2021

PART - B

(i) Water and River Material Consumption

(1) Water consumption (m³/Day): 610 KLD

(2) Process: NIL

(3) Cooling: 603 KLD

(4) Domestic: 7 KLD

Name of the Products	Process Water consumption per unit of product output	
	During Previous Financial year- 2020-2021	During Financial year- 2021-2022
M.S Billets	--	--
TMT Bars, MS Round	--	--

* All data are furnished in the basis of makeup water per day and production capacity is as per CFO permission.



(ii) Raw Materials Consumption:

Name of Raw Materials	Name of Products	Consumption of Raw Materials per unit of Output	
		During Previous Financial year (2020-2021)	During current Financial year (2021-2022)
Sponge Iron	MS Billets	0.844	0.77
Iron & Steel Scrap		0.322	0.39
Silico-Manganese		0.008	0.01
Ferro-Manganese		--	0.0009
Billet	TMT Bars	1.039	1.03
Wire Rod	Cold Rolled Products	1.017	1.01

PART - C

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

A. Water Pollution:

Pollutants	Quantity of pollutants discharged (mass / day)	Concentrations of pollutants in discharges (mass/volume)	Percentage of variation from prescribed standards with reasons
NIL	<p>As the industry is being operated on dry process technology, no liquid effluent is generated from the manufacturing process.</p> <p>However, the waste water generated during the cooling, spraying etc. Clean water is used for preventive the fugitive emission and Green Belt development after conformity with the CPCB guideline.</p> <p>Domestic waste water generated from residential colony and office toilets is reused for dust suppression and green belt development after treating treated in Sewage Treatment Plant.</p>		

B. Air Pollution:

Pollutant Type: - Particular Matter

Source of Pollutants	Quantity of pollutants discharged (mass / day)	Concentrations of pollutants in discharges (mass/volume)	Percentage of variation from prescribed standards with reasons
Steel Melting Shop			
i. 4 x 15 T I.F.	20.88 Kg/day	34.84 mg/Nm ³	Within the limit as per CFO warded from WBPCB & MoEF /CPCB Notification The analysis report is enclosed as Annexure-I .
ii. 3 x 20 T I.F	72.19 Kg/day	39.46 mg/Nm ³	



PART - D

Hazardous Waste

(As specified under Hazardous Waste Management and Handling Rules, 1989)

Hazardous Waste	Total Quantity (Metric Tonne)	
	During the Previous Financial Year (2020-2021)	During the Current Financial Year (2021-2022)
From Process	For Liquid (Hazardous): 0.102 Metric Tonne For Solid (Hazardous) : 0.013 Metric Tonne	For Liquid (Hazardous): 0.14 Metric Tonne For Solid (Hazardous) : 0.009 Metric Tonne
From Pollution control facilities	None	None

PART - E

Solid Waste

		Total Quantity		
		During the Previous Financial Year (2020-2021)	During the Current Financial Year (2021-2022)	
A	From Process	28,107 TPA	38,314 TPA	
B	From Pollution control facilities			
C	1	Quantity recycled or re-utilized within unit	4,216 TPA	5,747 TPA
	2	Disposed	23,891 TPA	32,567 TPA

PART-F

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

Sr. No.	Name of the Hazardous waste	Quantity per Annam
1	Used Oil/ Waste Oil (Rule 5.1)	0.14 Metric Tonne
2	Cotton waste / Jute containing Oil (Rule - 5.2)	0.009 Metric Tonne

Waste oil is sent to WBPCB authorized vendor and Cotton waste/jute containing oil is CHWSTDF.

Organic bio-degradable solid wastes are used for organic manure creation and used for Green Belt development purpose.

PART-G

In respect of the pollution abatement measures taken up on conservation of natural resources and on the cost of production.

We have adopting some good manufacturing practice for betterment of plant environment like:

1. SMS slag are using for land filling after recovering valuable metal.

PART-H

Additional measures/investment proposal for environment protection including abatement of pollution prevention of pollution

We are adopting the 'Zero water Discharge' philosophy for our day to day plant operation i.e. Reduce - Recycle - Reuse the water. We are also adopting the Rain water harvesting schemes for minimizing the surface water/ground water use uses.

Environment protection and pollution controls have been the priority for the industry. Any suggestions or improvements made by the Pollution Control Board would be implemented.



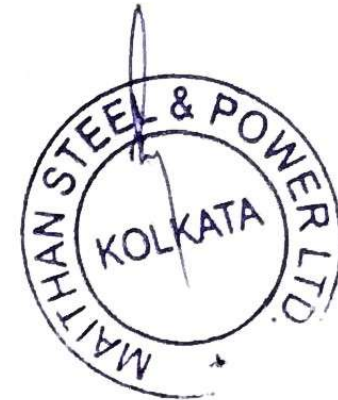
PART-I

Any other particular for improving the quality of the environment

In addition to training of employees in various aspects of pollution control activities of the plant, programmes like celebration of World Environment Day, World safety Day, screening of films on environment; tree plantation etc. will be regularly carried out in order to create greater awareness towards environment protection amongst employees and the people in the neighbouring areas.

All the environmental standards / stipulation will be fully maintained by the plant Management on priority basis.

Constant efforts will be made in making use of the updated technologies.





Eco Care

Phone : (0341) 2252011

Email : ecocareasansol@rediffmail.com

Manoj Talkies Basement, Kumarpur

Asansol - 713304

Dist. Paschim Bardhaman (W.B.)

Specialised House on Environmental Monitoring, Analysis, Assessment & Management

ISO 9001:2015 Certified, OHSAS 45001:2018 Certified

ULR NO – TC51092200000411F

Format No. : EC/TRT/42/FM/01

TEST REPORT

Report Release Date	: 30.03.2022	Sample Ref. No.(ARF)	: EC/ARF/29/220349
Test Report No	: EC/TR/42/03320	Source of Sample	: SMS Unit - 1
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 24.03.2022
Sample Collected by	: Mr. Binod Singh & Team	Period of Analysis	: 28.03.2022
Sample Details	: Stack Emission	Sampling Location	: Bag Filter Stack
Name & Address	: Maithan Steel & Power Limited (Unit – II) Mouza – Nakrajoria P.O & P.S – Salanpur Dist – Paschim Barddhaman West Bengal Pin No – 713357	Sample Condition	: Sealed
		Sample Stamped as	: TH – 451
		Sample Drawn By	: ECO CARE
		Sampling Plan & Procedure	: EC/SOP/03/01
		Remarks	: ----
		Deviation if any	: None

GENERAL INFORMATION

1	Particular of the Plant	: SMS Unit - I
2	Emission Due to	: Process Activity
3	Stack Connected to	: Bag Filter at Induction Furnace No. 1,2,3&4
4	Material of Construction	: M.S
5	Stack Height from G.L.	: 30.0 m
6	Height of Sampling Port from G.L.	: 20.0 m
7	Height of Sampling Port from L.D.Z.	: ----
8	Dimension of Stack at Sampling Port	: 1.20 m
9	Shape of the Stack	: Circular Ø
10	Working Load	: 15.0 MT/Batch/Furnace

FUEL CHARACTERISTIC REPORT

1	Source of Energy	: Electricity
2	Energy Consumption	: ----
3	Calorific Value (K-Cal/Kg)	: ----

RESULTS OF SAMPLING GASEOUS EMISSION ANALYSIS

		Method	
1	Flue Gas Temperature	51 °C	IS 11255 : Part 3
2	Barometric Pressure	756 mm Hg	IS 11255 : Part 3
3	Velocity of Flue Gas	7.28 m/sec	IS 11255 : Part 3
4	Flue Gas Quantity	27134 NM ³ /hr	IS 11255 : Part 3
5	Concentration of Particulate Matter	34.84 mg/NM ³	IS 11255 : Part 1
6	Concentration of Carbon Dioxide	2.4 %	IS 13270
7	Concentration of SO ₂	----	IS 11255 : Part 2
8	Concentration of NO _x	----	IS 11255 : Part 7

1. Test values are reported based on the samples received.
2. Sample(s) will be destroyed after 7 days from date of issues of the Test Report subject to nature of Preservation. Sample will be preserved as per the standard method.
3. The Test report shall not be reproduced, without the written approval of laboratory

Authorised Signatory

Dr. Mousumi Pal
Ph.D. Scientist
Authorised Signatory





Eco Care

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Email : ecocareasansol@rediffmail.com

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Asansol - 713304
Dist. Paschim Bardhaman (W.B.)

ULR NO – TC51092200000412F

Format No. : EC/TRT/42/FM/01

TEST REPORT

Report Release Date	: 30.03.2022	Sample Ref. No.(ARF)	: EC/ARF/29/220349
Test Report No	: EC/TR/42/03321	Source of Sample	: SMS unit - II
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 24.03.2022
Sample Collected by	: Mr. Binod Singh & Team	Period of Analysis	: 28.03.2022
Sample Details	: Stack Emission	Sampling Location	: Bag Filter Stack
Name & Address	: Maithan Steel & Power Limited (Unit – II) Mouza – Nakrajoria P.O & P.S – Salanpur Dist – Paschim Bardhaman West Bengal Pin No – 713357	Sample Condition	: Sealed
		Sample Stamped as	: TH – 452
		Sample Drawn By	: ECO CARE
		Sampling Plan & Procedure	: EC/SOP/03/01
		Remarks	: ----
		Deviation if any	: None

GENERAL INFORMATION

1	Particular of the Plant	: SMS Unit - II
2	Emission Due to	: Process Activity
3	Stack Connected to	: Bag Filter at Induction Furnace No. 1,2 & 3
4	Material of Construction	: M.S
5	Stack Height from G.L.	: 30.0 m
6	Height of Sampling Port from G.L.	: 20.0 m
7	Height of Sampling Port from L.D.Z.	: ----
8	Dimension of Stack at Sampling Port	: 2.70 m
9	Shape of the Stack	: Circular Ø
10	Working Load	: 20.0 MT/Batch/Furnace

FUEL CHARACTERISTIC REPORT

1	Source of Energy	: Electricity
2	Energy Consumption	: ----
3	Calorific Value (K-Cal/Kg)	: ----

RESULTS OF SAMPLING GASEOUS EMISSION ANALYSIS

		Method	
1	Flue Gas Temperature	62 °C	IS 11255 : Part 3
2	Barometric Pressure	756 mm Hg	IS 11255 : Part 3
3	Velocity of Flue Gas	4.54 m/sec	IS 11255 : Part 3
4	Flue Gas Quantity	82764 NM ³ / hr	IS 11255 : Part 3
5	Concentration of Particulate Matter	39.46 mg/NM ³	IS 11255 : Part 1
6	Concentration of Carbon Dioxide	2.2 %	IS 13270
7	Concentration of SO ₂	----	IS 11255 : Part 2
8	Concentration of NO _x	----	IS 11255 : Part 7

1. Test values are reported based on the samples received.
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Authorised Signatory

Dr. Mausumi Pal
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