SSPL/JMR/WBPCB-2024/09-01

Date- 27/09/2024

To,
The Environmental Engineer
Asansol Regional Office
West Bengal Pollution Control Board
Paribesh Bhawan, Dr. B.C. Roy Road,
City-Asansol, Po- Dakhin Dhadka, PS- Asansol (North)
Dist.- Paschim Bardhaman, Pin-713302, West Bengal, Inida

Sub: Submission of Environmental Statement for the Financial year ending 31st March-2024 for M/s Shyam Sel & Power Limited, Vill- Dhasna, P.O- Bahadurpur, P.S- Jamuria, Pin-713362, Dist- Paschim Bardhaman.

Respected Sir,

We are pleased to enclosed herewith The Environmental Statement in Form V, which is duly filled under rule of 14 of the Environmental (protection) rules, 1986 for the M/s Shyam Sel & Power Limited for the financial year ending 31st March 2024.

Please acknowledge the same. Your valuable suggestion and comments are appreciable.

Thanking you,

For Shyam Sel & Power Limited.

SHYAM SEL & POWER LTD. Bijaynagar More P.O.- Bahadurpur Dist.- P. Burdwan W.B. Pin.- 713362 JAMURIA

Subhasis Dutta
Manager Environment

27/09/24
RECEIVED
(Content Not Verified)
West Bengal Pollution Control Board
Asansol Regional Office
Kalyanpur Satellite Township Project
Dr. B. C. Roy Road, Asansol-713302

OUR BRANDS:

FORM – V
(See Rule – 14)

Environmental Statement for the financial year ending the 31st March 2023-2024

Part – A

<table>
<tr><td>1</td><td>Name and Address of the Owner/Occupier of the industry operation or process</td><td>Prashant Kumar

M/S Shaym Sel & Power Ltd.
Vill - Dhasna, P.O. - Bahadurpur, P.S - Jamuria
Dist - Burdwan, PIN- 713362, West Bengal</td></tr>
<tr><td>2</td><td>Industry category
Primary - (STS Code)
Secondary -(SIC Code)</td><td>RED, Iron & Steel (involving processing from ore/integrated steel plants) and or Sponge Iron units</td></tr>
<tr><td>3</td><td>Production Capacity – Units</td><td>4.409 M TPA

<table>
<tr><th>Sl No</th><th>Division</th><th>Production Capacity (MTPA)</th></tr>
<tr><td>1</td><td>Pellet</td><td>1.721</td></tr>
<tr><td>2</td><td>Sponge Iron</td><td>1.11</td></tr>
<tr><td>3</td><td>MS Billet</td><td>0.79</td></tr>
<tr><td>4</td><td>TMT</td><td>0.138</td></tr>
<tr><td>5</td><td>Structure</td><td>0.165</td></tr>
<tr><td>6</td><td>Wire Rod</td><td>0.26</td></tr>
<tr><td>7</td><td>Long Product</td><td>0.225</td></tr>
</table></td></tr>
<tr><td>4</td><td>Year Establishment</td><td>2008</td></tr>
<tr><td>5</td><td>Date of Last environment statement submitted</td><td>27/09/2023</td></tr>
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SHYAM SEL & POWER LTD.
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Part – B

1. Water and River Material Consumption

	Water Consumption M^3/day	10945.00 M^3/Day	
	Process	6020.00 M^3/Day	
	Cooling `	4925.00 M^3/Day	
	Domestic	541.05 M^3/Day	
	Name of the products outputs	**Process water consumption per unit of product**	
		During the previous financial year	**During the current financial year**
		1	2
	i. Pellet	0.12 M^3/MT	0.15 M^3/MT
	ii. DRI	0.66M^3/MT	1.00 M^3/MT
	iii. M.S. Billet	0.65 M^3/MT	0.65 M^3/MT
	iv. TMT Bar	0.39 M^3/MT	0.39 M^3/MT
	v. Structural	0.21 M^3/MT	0.24 M^3/MT
	vi. WRM	0.38 M^3/MT	0.38 M^3/MT
	vii. CPP	2.2 M^3/MW	2.2 M^3/MW
	viii. Ferro Alloys	1.44 M^3/MT	1.44 M^3/MT

2. Raw Material Consumption

Name of raw materials	**Name of Product**	**Consumption of Raw Material (Kg)**	
		During the previous financial year	**During the current financial year**
Iron Ore Fines	I/O Pellet	1500	1250
Bentonite	I/O Pellet	12	6
Imported Coal	I/O Pellet	35	25
Domestic Coal	I/O Pellet	63	75
Lime Stone	I/O Pellet	31	15
Organic Binder	I/O Pellet	0	0.06

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Name of raw materials	Name of Product	Consumption of Raw Material (Kg)	
		During the previous financial year	During the current financial year
Iron Ore/ Iron Ore Pellet	Sponge Iron	1700/ 1450	1700/ 1450
Coal	Sponge Iron	1050/ 1100	1050/ 1100
Dolomite	Sponge Iron	60	70
Sponge Iron	SMS	984	984
Pig Iron	SMS	184	184
MS Scrap	SMS	62	62
MS Billet (Hot Rolled)	Structural Item	1060	1060
MS Billet (Hot Rolled)	TMT Item	1060	1040
MS Billet (Hot Rolled)	WRM	1060	1040
Coal	CPP	564	657
Dolochar	CPP	846	632
Mn Ore (FeMn)	Ferro Alloys	2500	2300
Coke (FeMn)	Ferro Alloys	500	450
Coal (FeMn)	Ferro Alloys	100	100
Mn Ore (SiMn)	Ferro Alloys	2100	2200
Coke (SiMn)	Ferro Alloys	500	500
Quartz (SiMn)	Ferro Alloys	300	300
Coal (SiMn)	Ferro Alloys	200	200
FeMn Slag	Ferro Alloys	500	500
Dolomite (SiMn)	Ferro Alloys	200	100- 200

Industries may use codes if details of raw materials would violate contractual obligation otherwise all industries have to name the raw materials used.

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Part – C

Pollutants Discharged to environment/unit of output
(Parameter as specified in the Consent issued)

Pollutants	Quantity of Pollutants discharges (mass/day)	Concentration of Pollutants discharges (mass/volume)	Percentage of variation from prescribed standard with Standard
A) Water	0	0	Nil
B) Air	3.47 T/Day	28.36 mg/Nm^3	Nil
C) Noise	0	0	0

Part – D

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

Hazardous Waste	Total Quantity	
	During the previous Financial year	During the current Financial year
From Process	i) Used Oil – 23.42 MT ii) Contaminated Cotton Waste – 500 Kg iii) Discarded Barrel/ Empty Barrel – 113 Nos	i) Used Oil – 20.07 MT ii) Contaminated Cotton Waste – 3.06 MT iii) Discarded Barrel/ Empty Barrel – 0.3 MT
From Pollution control facilities	NA	NA

Part – E

Solid Waste

Type of Solid Waste	Total Quantity (MT)	
	During the previous Financial year 2022-23	During the current Financial year 2023-24
a) From Process	416053.450 MT	445499.84 MT
b) From Pollution Control Facility	234486.290 MT	433271.88 MT
c) Quantity recycled or reutilized within the unit	247628.880 MT	314155.441 MT
d) Sold	183456.80 MT	299643.00 MT
e) Dispose	216018.290 MT	234451.09 MT

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Part – F

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

The solid waste generated by the plant which are:

- The accretions of Pellet & DRI solid waste generated from process are disposed in waste disposal site (ECL abandoned pit).
- Fly Ash generation from CPP are dumped in ECL abundant mines. Fly ash also supplied for Bricks & Tiles manufacturing industry.
- The scraps & end cutting materials generated from Mills are stored inside the plant premises and reuse as a raw material in Induction Furnace Process for M.S. Billet manufacturing.
- Slag from Ferro Alloys basically FeMn slag are used in SiMn production & Slag of SiMn are used for land filing & road making process.
- Used oil & other waste generated from maintenance department of product line are collected and stored and disposed of through authorized recycler.

Part – G

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

Smooth and Continuous operation of Pollution abatement measures has resulted in following impact in conservation of natural resources and the cost of production.

- Complete recycle of entire waste water which is generated from surface run-off and storm water by using it for water spraying in road, fugitive dust control and green belt development.
- Complete recycle of water used in product line through Cooling Tower basin.
- Continuous recycle of Turbine steam condensate in condenser to conserve water.
- Proper utilization of DRI waste gas through Waste Heat Recovery Boiler for conservation of natural resources.
- Sprinklers are fixed in potential area of all operation units including Raw materials handling areas.
- Maximum COC (Cycle of Concentration) maintain between 5 to 6 for cooling tower water to reduce the water losses during blow down.
- Concreting of all internal roads of plant premises to control fugitive dust.
- Good housekeeping practices to clean the road in regular routine basis.
- Mobile water tankers are engaged to regular sprinkling on roads inside the plant. In spite of its water sprinkling in main road from SSPL unit to Chakdola for controlling the road dust generated due to heavy vehicle movement.
- Installation of STP plant to recycle domestic waste water in miscellaneous purpose.
- Installation of ETP plant for complete recycling of process water.

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Part – H

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

- Development of Green Belt Area by plantation.
- Installation of Pneumatic Ash Conveying system with dedusting unit to control emission during handling of fugitive dust generating from product line.
- Online raw materials conveying system from Railway siding to Raw materials yard to reduce road transportation.
- Introduced Mobile Sweeping Machine for control fugitive dust load on plant road.

Part – I

Any other particulars for improving the quality of the environment.

- Reduction in specific consumption of Raw Material to conserve the natural resources.
- Successfully installed 4 nos. CAAQMS Station around the plant for continuous monitoring of Ambient Air Quality.
- OCMS installed at all process stack for continuous monitoring of process emission from Pellet Unit, DRI Unit, SMS Unit, Ferro alloys & CPP unit.

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