

RASHTRIYA ISPAT NIGAM LIMITED
VISAKHAPATNAM STEEL PLANT
MADHARAM DOLOMITE MINE
MADHARAM-507122
Dist. Khammam (T.S)

Ref.No.MDM/7-58/2020/

Date: 11-08-2020

To
The Member Secretary
T.S. Pollution Control Board
Paryavarana Bhavan, A-3, I.E.
SANATHNAGAR – 500 018.
HYDERABAD.

Sir,

Sub: Submission of return in Form-V for the year 2019-20. – reg.

We submit herewith Environmental Data Report in Form-V for the financial year ending 31st March 2020 in respect of Madharam Dolomite Mine, Visakhapatnam Steel Plant, and Madharam.

For kind information and records.

Thanking you,

Yours faithfully
For VSP, Madharam Dolomite Mine



(D. Siva Kumar)
GM (Mines)

Encl: a/a.

Copy to:

01. The Environmental Engineer
T. S. Pollution Control Board
Beside MRO Office,
Singareni Head Office Area
KOTHAGUDEM – 507 101.
02. Additional Principal Chief Conservator of Forests (C),
Ministry of Environment, Forest and Climate Change,
Regional Office (SEZ),
1st and 2nd Floor, Handloom Export Promotion Council,
34, Cathedral Garden Road, Nungambakkam,
Chennai – 34
Tel. No. 044-28222325
03. GM.(Mines)I/C

F O R M - V
(See Rule – 14)

ENVIRONMENTAL DATA REPORT FOR THE FINANCIAL YEAR ENDING 31ST
MARCH 2020

PART – A

i) Name and address of the Owner/Occupier of the industry:

a). Name of the Owner : Rashtriya Ispat Nigam Limited
Visakhapatnam Steel Plant
VISAKHAPATNAM – 530 031, A.P.

b). Nominated Owner : Shri. Ajit Kumar Saxena
Director (Operations)
Visakhapatnam Steel Plant
VISAKHAPATNAM – 530 031, A.P.

ii). Date of last environmental audit report submitted:

PART – B

Water & Raw Material Consumption:

i). Water Consumption

a). Process : 7273.8KL
b). Cooling : -
c). Domestic : 102200KL

Sl.No.	Name of the Product	Water consumption per unit of the product	
		During Previous Year	During Current Year
01	Dolomite	0.02281KL	0.01979

ii). Raw Material Consumption:

Sl.No.	Name of the Raw Material	Name of the Product	Consumption of R/Material / Unit of Output	
			During Previous Year	During Current year
Not Applicable				

PART – C

(Parameters as specified in the consent issued)

Sl.No.	Pollutants	Qty.of Pollution generated	% of variation from prescribed standards with reasons.
	1.PM2.5 2.PM10 3.SO2 4.NOx	1.PM2.5-60 µg/m3 2.PM10-100 µg/m3 3.SO2-80 µg/m3 4.NOx-80 µg/m3	NIL

C.a. Effluent analysis data after treatment

(As per the parameters specified in the water consent order)

Sl.No.	Parameter	Standards prescribed in the water consent	Measured peak values during 2019-20	% variation from prescribed limits with reasons.
01	Domestic effluents	280 KLD	280 KLD	-

C.b. Pollution stacks emission data:

(As per the parameters specified in the Air Consent order):

Sl.No.	Parameter	Standards prescribed in the water consent	Avg.concentration NM3			% Variation from prescribed limits with reasons		
			Stack			Stack		
			I	II	III	I	II	III
		Not Applicable						

C.c. Air Quality Data (Ambient Air):

(As per the parameters specified in the Air Consent order No.16082389747 Dated : 09.12.2016)

Sl.No.	Parameter	Standards prescribed in the Air Consent	Avg. concentration ug/m3 during 2019-20	% variation from prescribed limits with reasons.
01	PM2.5	60 µg/m3	31.5 µg/m3	-
02	PM10	100 µg/m3	64.0 µg/m3	-
03	SO2	80 µg/m3	BDL	-
04	NOx	80 µg/m3	15.0 µg/m3	-

PART – D

(As specified under hazardous wastes (Management & Handling) Rules, 1989)

Sl.No.	Name of the Wastes	Total Quantity	
		During Previous year 2018-19	During Current year 2019-2020
01	From Process		
	a). Tyres	08	17
	b). Detoxified Containers & container liners of Hazardous waste (Barrels/Drums)		
	i). Oil drums	102	86
	ii). Grease containers.	18	10
	b). Used Led Acid Batteries	40	6
	c). Waste/Used Mineral oil synthetic oil	nil	nil
02	e). Non-Ferrous Metal scrap	nil	nil
	From Pollution Control facilities		

PART – E (Solid Waste)

Sl.No.	Name of the Wastes	Total Quantity	
		During Previous year 2018-19	During Current year 2019-20
01	Over Burden (Morrum)	10670	72365

PART – F

Disposal Practices:

- The hazardous waste is being sent to our H. Qtrs, VSP for disposed off at their end.
- Bio-Medical waste is being collected and disposed off through Authorized Agency i.e. M/s.AWM Consulting under common bio-medical waste treatment facility.

PART – G

(Impact of pollution control measures on conservation of natural resources and consequently on the cost of production)

Pollution Control Measures:

- 4 Nos. of integrated on-board compressor drills are purchased fitted with dust suppression system during drilling operations at source of its generation. Approx.cost is Rs.61.70 lakhs each.

- Cumulative saplings planted till the end of financial year is 131250 nos. Survived plants are 100980nos.
- Agglomerative Dust Suppression system has been installed in our Crushing and Screening Plant for suppression of dust during the process of dolomite crushing and screening at a cost of Rs.64.0 lakhs.
- Procured 04 nos of AAMS for monitoring PM2.5, PM10, RSPM, SPM, Sox and NOx.
- Wind breaking barrier has been constructed adjacent to a green belt area at Railway Wagon Loading system which is costing to about Rs.22.0 lakhs.
- Rubber curtains at Wagon Loading Station have been replaced with GI sheets at a cost of Rs.2.5 lakhs.
- All the openings at Primary Crusher House, Wagon Loading system, Double Roll Crusher House have been closed to avoid fugitive dust emission.
- Water sprinkling on stock pile has been provided to avoid the fugitive dust emission.
- Two nos. of water harvest pits has been made for recharging of ground water.
- One new check Dam constructed on the Garland drain.
- Order placed for CAAQMS and M/s Navco Engineers Pvt Ltd and commissioned the CAAQMS
- Installed water sprinklers on haul roads to control fugitive dust from haul roads.

PART – H

(Addl. Investment proposal for environmental protection including abatement of pollution).

- To avoid the fugitive dust emission from the existing stock pile, closed bunkers shall be provided in future as the same is under construction.

PART – I

(Any other particulars in respect of environmental protection and abatement of pollution)

- Check dam has been constructed across the mine discharge water drain which facilitates the suspended matter to settle.
- Season wise data monitoring for Air, Water & Noise has been carried out during the year at MDM site through an authorized agency regd. by MoEF i.e. M/s.SV ENVIRO LABS &CONSULTANTS,Visakhapatnam. And the reports are being submitted regularly from time to time.
- One water level indicator (PIEZO METER) has been purchased for regular monitoring of water level table for all seasons.
- Ground water studies have been conducted by Ground Water department (Gov. of AP) and submitted the report.
- Installed Digital water meters at inlet and out let of Sewage treat ment plant



(D. Siva Kumar)
GM (Mines)