



**STEEL AUTHORITY OF INDIA LTD.**

*(A Govt. of India Enterprise)*

Raw Materials Division

Bhawanathpur Group of Mines

PO- Bhawanathpur Township,

Distt: Garhwa (Jharkhand.),

PIN- 822129

Email: bnptdr@gmail.com

Ref: RMD/BNP-TD/GM/2020- **75**

Date : 25/09/2020

The Member Secretary,  
Jharkhand State Pollution Control Board,  
E-1, CTI colony, Dhurwa  
Ranchi-834004.

Sub:-Submission of Environment Statement for year 2019-20 of Tulsidamar Dolomite Mine, M/s Steel Authority of India Limited (SAIL).

Sir,

The environment statement of Tulsidamar Dolomite Mine for the year 2019-20 is enclosed here with for your kind perusal please.

Thanking You,

Yours Faithfully,

General Manager(Mines)  
BNP Group of Mines

**S.K. SINGH**  
General Manager  
SAIL / RMD  
Bhawanathpur Group of Mines  
DISTT. GARHWA-822129 (JHARKHAND)

Enclosed as stated:

Copy to:-

1. Regional office, JSPCB, Ranchi,
2. Regional office, MOEFCC, Ranchi.



# **ENVIRONMENTAL STATEMENT**

**Year : 2019-2020**

## **TULSIDAMAR DOLOMITE MINE**



**STEEL AUTHORITY OF INDIA LIMITED**

**RAW MATERIALS DIVISION**

**BNP GROUP OF MINES**

**DIST: GARHWA**

**JHARKHAND – 822129**

**September, 2020**

## **FORM – V**

**Environmental Statement for the financial year ending 31<sup>st</sup> March 2020**

### **\*PART – A**

- (i) **Name and address of the owner/occupier of the industry operation or process.** : Tulsidamar Dolomite Mine  
P.O- Bhawanathpur Township,  
Dist. : Garhwa  
Pin- 822129, Jharkhand
- Agent** : Shri S. K. Singh,  
General Manager (Mines)  
Bhawanathpur.
- Nominated Owner** : Shri Vivek Gupta,  
Director (Raw Materials & Logistics)
- (ii) **Industry category Primary - (STC code) Secondary - (SIC Code)** : Open Cast Dolomite Mine
- (iii) **Production capacity** : 0.3 Million Te per Annum Dolomite
- (iv) **Year of establishment** : 1975
- (v) **Date of the last environmental statement submitted** :

### **PART – B**

#### **Water and Raw Material Consumption**

<b>(1) Water consumption</b>	<b>m<sup>3</sup>/day</b>
Process	NA
Cooling(Dust Suppression)	30
Domestic	130

<b><i>Name of Products</i></b>	<b><i>Process water consumption per unit of product output</i></b>	
	<b><i>During the previous financial year (2018-19)</i></b>	<b><i>During the Current financial (2019-20)</i></b>



(1) Dolomite	NA	NA
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## (2) Raw Material Consumption

Name of raw materials	Name of products	Process water consumption per unit of product output	
		During the previous financial year (2018-19)	During the Current financial year (2019-20)
-	-	-	-

This is an opencast mine producing Dolomite. As such, no raw material from outside is required for processing of dolomite. The Dolomite production during 2018-19 is 0.190 million tons and during 2019-20 is 0.167 million tons.

## PART - C

### Pollution discharged to environment / unit of output

#### a) Water Environment

Pollutants	Quality of pollutants generated (mass/volume)	Concentrations of pollutants in discharges	Percentage of variation from prescribed standards with reason. <u>Standard</u>
<b>1. Process Effluent:</b> Not Applicable			
(i) pH	-	7.0	5.5 – 9.0
(ii) TSS	-	3.0	100 mg/l
(iii) Oil & Grease	-	-	10 mg/l
<b>2. Domestic Effluents :</b>			
(i) pH		7.2	5.5– 9.0
(ii) TSS			100/l
(iii) BOD		-	
(iv) COD		-	
(v) Oil & Grease		-	

## b) Air Environment

This is an opencast mine and the air emissions are fugitive in nature mainly containing dust particles. The fugitive emissions are being controlled through various dust prevention and control measures. Hence, the quantity of air pollutants discharged in Kg/day cannot be ascertained. The annual average ambient air quality in and around the mines for the year 2018-19 is given below:

Unit : microgram/m<sup>3</sup>

<i>Pollutants</i>	<i>Quality of pollutants generated (mass/volume)</i>	<i>Concentrations of pollutants in discharges</i>	<i>Percentage of variation from prescribed standards with reason.</i> <u>Standard</u>
(1) Location – 1(TDM Office)			
i) PM <sub>2.5</sub>	-	-	60
ii) PM <sub>10</sub>	-	65	100
iii) SO <sub>2</sub>	-	08	80
iv) NO <sub>2</sub>		18	80
(2) Location – 1(Work Zone)			
i) PM <sub>2.5</sub>	-	-	700
ii) PM <sub>10</sub>	-	78	350
iii) SO <sub>2</sub>	-	10	5000
iv) NO <sub>2</sub>		12	6000

## PART –D

### Hazardous Wastes

Hazardous Wastes	Total Quantity(kg)	
	During the previous Financial Year (2018-19)	During the current Financial Year (2019-20)
a) From Process		
b) From Pollution Control facilities	NIL	NIL



## PART – E

### Solid Wastes

Wastes	Total Quantity(Tonnes)	
	During the previous Financial Year (2018-19)	During the current Financial Year (2019-20)
(a) From Process		
(1) Overburden / rejects		
(2) Ore washing slimes		
(b) From Pollution Control facilities	NIL	NIL
(c) (1) Quantity recycled or re- utilized within the unit	-	-
(2) Sold		
(3) Disposal		

## PART –F

**The characteristics (in terms of concentration and quantum) of Hazardous as well as Solid Wastes and their disposal practices adopted for these categories of wastes are as follows:**

- (1) **Solid Wastes** : Solid waste generator as overburden / rejects and slime from this Dolomite mine are inert. The average chemical composition of these solid wastes and their mode of disposal are as follows:

Waste	Overburden / Reject	Slime
<b>Quality</b>		NA
a) Cao (%)	2% or less	
b) Mgo (%)	Less than 12%	
c) Other (%)		
<b>Mode of disposal</b>		

## (2) Hazardous Wastes

S. No.	Description of Hazardous Wastes (nature)	Mode of disposal
1.0		

### PART – G

**Impact of pollution control measures on conservation of natural resources and consequently on the cost of production.**

The major pollution prevention / control measures adopted at the mine, which resulted in resource conservation as well as cost of production are as follows. NA

### PART – H

**Additional investment proposal for environmental protection including abatement of pollution.**

The following additional investment proposals for environmental protection including abatement of pollution are under consideration for the mine:

- Plantation is being done in old dumps and road side for improvement of greenery.*
- Sowing of seeds is being done for improvement of vegetation cover.*
- Filling of trenches adjacent to bus road is being done for safety of the mine and traffics.*

### PART – I

**Any other particulate in respect of environment protection and abatement of pollution.**

- Awareness created amongst employees and public regarding protection of environment by observing Environment day, Environment month and Environment week, Plantation in dumps etc.
- Boards carrying environmental slogans displayed.
- World Environment Day, Environment Week, Environment Month celebrated.

**Date :25-09-2020**

**Designation-GM(Mines)  
Bhawanathpur Group of Mines**

**S.K. SINGH**  
General Manager  
SAIL / RMD