



STEEL AUTHORITY OF INDIA LTD.

(A Govt. of India Enterprise)

Raw Materials Division

Bhawanathpur Group of Mines

PQ- Bhawanathpur Township,

Distt: Garhwa (Jharkhand.),

PIN- 822129

Email: bnptdr@gmail.com

Ref: RMD/BNP/DGM/2018- 93

Date : 15/09/2018

To,

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

Sub:-Submission of Environment Statement for year 2017-18 of Tulsidamar Dolomite Mine, M/s SAIL.

Sir,

The environment statement of Tulsidamar Dolomite Mine for the year 2017-18 is enclosed here with for your kind perusal please..

Thanking You,

Yours Faithfully,


19/9/18
Dy. General Manager(Mines)
BNP Group of Mines

Dy. General Manager
(SAIL/RMD)
Bhawanathpur Group of Mines
Distt. - Garhwa (Jharkhand)

Enclosed as stated:

Copy to:-

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



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ENVIRONMENTAL STATEMENT
Year : 2017-2018
TULSIDAMAR DOLOMITE MINE



STEEL AUTHORITY OF INDIA LIMITED
RAW MATERIALS DIVISION
BNP GROUP OF MINES
DIST:GARHWA
JHARKHAND – 822129

September, 2018

FORM – V

Environmental Statement for the financial year ending 31st March 2018

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 A. Sharma,
General Manager (Flux) ,Kuteshwar
- Nominated Owner** : Shri Kalyan Maity
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

(1) Water consumption	m³/day
Process	NA
Cooling(Dust Supression)	28
Domestic	130

<i>Name of Products</i>	<i>Process water consumption per unit of product output</i>	
	<i>During the previous financial year (2016-17)</i>	<i>During the Current financial (2017-18)</i>
(1) Dolomite	NA	NA

ref/

(2) Raw Material Consumption

Name of raw materials	Name of products	Process water consumption per unit of product output	
		During the previous financial year (2016-17)	During the Current financial (2017-18)
-	-	-	-

This is an opencast mine producing Dolomite. As such, no raw material from outside is required for processing of dolomite. The Dolomite production during 2016-17 is 0.103 million tonnes and during 2017-18 is 0.198 million tonnes.

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>
1. Process Effluent: Not Applicable			
(i) pH	-	7.2	5.5 – 9.0
(ii) TSS	-	7.0	100 mg/l
(iii) Oil & Grease	-	-	10 mg/l
2. Domestic Effluents :			
(i) pH		7.6	5.5 – 9.0
(ii) TSS		7.0	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 2017-18 is given below:

Unit : microgram/m³

<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 _{2.5}	-	-	60
ii) PM ₁₀	-	60	100
iii) SO ₂	-	BDL	80
iv) NO ₂	-	BDL	80
(2) Location – 1(Work Zone)			
i) PM _{2.5}	-	388	60
ii) PM ₁₀	-	151	100
iii) SO ₂	-	10	80
iv) NO ₂	-	12	80

PART -D Hazardous Wastes

Hazardous Wastes	Total Quantity(kg)	
	During the previous Financial Year (2016-17)	During the current Financial Year (2017-18)
a) From Process		
b) From Pollution Control facilities	NIL	NIL

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PART – E
Solid Wastes

Wastes	Total Quantity(Tonnes)	
	During the previous Financial Year (2016-17)	During the current Financial Year (2017-18)
(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
Quality		NA
a) Cao (%)	2% or less	
b) Mgo (%)	Less than 12%	
c) Other (%)		
Mode of disposal		

- (2) **Hazardous Wastes**

S. No.	Description of Hazardous Wastes (nature)	Mode of disposal
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1.0		
2.0		

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: NA

PART – I

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

1. Creating awareness amongst employees and public regarding protection of environment by observing Environment day, Environment month and Environment week, Plantation in dumps, distribution of fruit bearing saplings etc.
2. Display of Boards carrying environmental slogans.
3. Celebration of World Environment Day, Environment Week, Environment Month.
4. Celebration for Mass awareness by slogans, working models & Cultural Programmes by employees & school children in Mines Environment & Mineral Conservation week under the aegis of IBM.

Date :15-09-2018


19/12/18
Designation-DGM(Mining)
Bhawanathpur Group of Mines