Ref.No: JLM/7-37/2017/Mines/MoEF-117 Date: 10.06.2017

(1) **Ministry of Environment, Forest and Climate Change**
Govt. of India,
Indira Paryavaran Bhavan,
Jorbagh Road,
New Delhi - 110 003
INDIA

(2) **Additional Principal Chief Conservator of Forests (C)**
Ministry of Environment, Forest and Climate Change
Regional Office (SEZ)
I[st] and II[nd] Floor,
Handloom Export Promotion Council,
34, Cathedral Garden Road,
Nungambakkam,
Chennai – 600 034

(3) **Member Secretary,**
A.P. Pollution Control Board,
Pushpa Hotel Centre,
Behind Sunrise Hospital
Kasturibaipet,
Vijayawada – 520 010

(4) **The Environmental Engineer**
A.P. Pollution Control Board,
Regional Office, Plot No.41,
Sri Kanakdurga Officers Colony,
Vijayawada-520 008

Dear Sir,

Subject: Submission of **Form – V** report on Environmental Statement at Jaggayyapeta Limestone Mine of RINL/VSP – Reg.

Enclosed please find the copy of **Form- V** report on Environmental Statement for the year 2016-17 in all respects of Jaggayyapeta Limestone Mines of M/s Rashtriya Ispat Nigam Limited, Visakhapatnam Steel Plant, Jaggayyapeta Mandal, Krishna District, and Andhra Pradesh.

This is for your kind perusal and record please.

Thanking you,

भवदीय/ Yours faithfully,
कृते/ For विशाखापट्टणम इस्पात संयंत्र
RINL / Visakhapatnam Steel Plant

10/6/17
शिव प्रसाद (SHIV PRASAD)
सहायक महाप्रबंधक / AGM (Mines)

संलग्न/ Encl:
उपरोक्तानुसार / As above.

O/C
10/6/17

F O R M - V

(See Rule – 14)

ENVIRONMENTAL DATA REPORT FOR THE FINANCIAL YEAR (2016-17) ENDING 31ST MARCH 2017

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 D N Rao**
Director (Operations)
Visakhapatnam Steel Plant
VISAKHAPATNAM – 530 031, A.P.

c) Operation or process : Operation

ii) Industry Category Primary-(SIC code)
Secondary – (SIC Code) : 1400
Mining & Quarrying of Nonmetallic Minerals (No Fuels)

iii) Production Category – units : BF Grade Limestone – 7,80,000 TPA

iv) Year of establishment : 22/04/1985
(Actual date of Opening of Mine)

v) Date of last environmental statement submitted : 25/04/2016

PART – B

Water & Raw Material Consumption:

i) Water Consumption

a) Process : 38,827 KL

b) Cooling : Nil

c) Domestic : 72,402 KL

Name of the Products	Process water consumption per unit of the product	
	During previous financial year (2015-16)	During the current financial year (2016-17)
BF Grade Limestone	0.32 KL	0.33 KL

ii) Raw Material Consumption :

Name of Raw Materials*	Name of Products	Consumption of raw material unit of output	
		During previous financial year (2015-16)	During the current financial year (2016-17)
BF Grade Limestone	Limestone Chips	3,54,764 Tones	3,48,102 Tones

* Industry may use codes if disclosing details of raw material would be violate contractual obligations, otherwise all industries have to name the raw materials used.

PART – C

Pollution discharge to environment/unit of output

(Parameters as specified in the consent issued)

Pollutants	Quantity of Pollutants discharged (mass/day)	Concentration of Pollutants discharged (mass/volume)	Percentage of variation from prescribed standards with reasons
a) Water	Seasonal monitoring is being carried out and reports are regularly submitting. All the parameters of samples are within the prescribed limits. Monitoring reports are enclosed at Annexure – 1A & 1B		
b) Air			

C.a. Effluent analysis data after treatment:

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

Parameter	Standards prescribed in the water consent	Measured peak values during 2016-17	Percentage of variation from prescribed standards with reasons
Domestic effluents	160 KLD	160 KLD	within the prescribed limits
Industrial effluents	Nil		

C.b. Pollution stacks emission data:

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

Parameter	Standards prescribed in the water consent	Average 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)

1) Consent Order No. APPCB/VJA/VJA/439/HO/CFO/2014/773 dated 18.12.2014

2) Consent Order No. APPCB/HO/UH-IV/CFO: VJA/Auto Renewal dated 19.03.2016 valid up to 30.06.2018

Parameter	Standards prescribed in the Air Consent	Avg. concentration ug/m3 during 2016-17	% variation from prescribed limits with reasons
Particulate Matter (PM10)	100 ug/m3	Seasonal monitoring is being carried out and reports are regularly submitting. All the parameters of samples are within the prescribed limits. Monitoring reports are enclosed at Annexure – 1A & 1B	
Particulate Matter (PM2.5)	60 ug/m3		
SO2	80 ug/m3		
NoX	80 ug/m3		

PART – D

Hazardous Wastes:

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

Hazardous Wastes	Total Quantity (Kg)	
	During previous financial year (2015-16)	During the current financial year (2016-17)
From Process		
a) Tyres	38	12
b) Detoxified Containers & container liners of Hazardous waste (Barrels/Drums) i). Oil drums	94	107
ii). Grease containers.	13	07
c) Used Led Acid Batteries	20	14
d) Waste/Used Mineral oil synthetic oil	1120	3450
e) Non Ferrous Metal scrap	0.23 tones	0.25 tones
From Pollution Control facilities	-	-

PART – E

Solid Wastes:

Solid Wastes	Total Quantity (Kg)	
	During previous financial year (2015-16)	During the current financial year (2016-17)
a. From Process	Nil	Nil
b. From Pollution Control facilities		
c. Quantity recycled or reutilized within the unit		

PART – F

Please specify the characteristics (in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes:

Disposal Practices:

- The hazardous waste (Mineral Oil) is being sent to our Head Qtrs, VSP for disposed off at their end.

PART – G

Impact of pollution control measures taken on conservation of natural resources and consequently on the cost of production:

Pollution Control Measures:

- 2 Nos. of integrated on board compressor drills are purchased for suppression of dust during drilling operations at source of its generation. Approx.cost is Rs.65.0 lakhs each.
- Cumulative saplings planted till the end of financial year is 1,48,370 nos. The survival rate is 69%.
- New plantation efforts for Peepal/Banyan trees on block plantation and avenue plantation initiative also taken up.
- Water mist dust Suppression system was installed in our Crushing and Screening Plant for suppression of dust during the process of limestone crushing and screening.
- All the openings at Primary and Secondary Crusher House, Wagon Loading system, have been closed to avoid fugitive dust emission.
- One bay Water sprinkling on stock pile was provided to avoid the fugitive dust suppression.
- Pit no.1 is developed as rain water harvest pit. The water stored is used for haul road dust suppression.

PART – H

Additional measures / investment proposal for environmental protection including abatement of pollution:

- To avoid the fugitive dust emission from the existing stock file, closed bunkers is under construction.
- Dry fog system is under construction in crushing and screening plant.

PART – I

Miscellaneous:

Any other particulars in respect of environmental protection and abatement of pollution:

- Check dam is constructed across the mine discharge water drain which facilitates the suspended matter to settle.

10/6/17

(Shiv Prasad)
Asst. General Manager (Mines)