

Ref.No: JLM/7-37/2016/

Dt: 25.04.2016

| | |
|---|---|
| The Environmental Engineer, A.P. Pollution Control Board Plot No.41, Sri Kanakdurga, Officers Colony, Gurunanak Road, <u>Vijayawada-520 002</u> | Addl. Director (S) Govt. of India Ministry of Environment & Forests Paryavaran Bhavan CGO Complex, Lodhi Road, <u>New Delhi-110 003</u> |
|---|---|

Dear Sir,

Sub: Submission of Form V report on Environment statement at Jaggayyapeta Limestone Mine -reg.

Enclosed please find Form – V report on Environment statement for the year of 2015-16 at our Jaggayyapeta Limestone Mine, Jaggayyapeta, of Visakhapatnam Steel Plant. As **Annexure-I**.

This is for your kind perusal and records.

Thanking you.

Yours faithfully,
For Visakhapatnam Steel Plant
Jaggayyapeta Limestone Mine


(Shiv Prasad)
Asst. General Manager (Mines)

Encl: As above

o/c


F O R M - V
(See Rule - 14)

ENVIRONMENTAL DATA REPORT FOR THE FINANCIAL YEAR
ENDING
31ST MARCH 2016

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.

ii). Date of last environmental audit report submitted:

PART - B

Water & Raw Material Consumption:

- i). Water Consumption
- a). Process : 36,880 KL
- b). Cooling : -
- c). Domestic : 69,080 KL

| Sl.No. | Name of the Product | Water consumption per unit of the product | |
|--------|---------------------|---|---------------------|
| | | During Previous Year | During Current Year |
| 01 | Limestone | 0.33 KL | 0.32 KL |

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 |
| 01 | Limestone | Limestone Chips | 3,44,342 Tones | 3,54,764 Tones |

PART – C

(Parameters as specified in the consent issued)

| Sl.No. | Pollutants | Qty.of Pollution generated | % of variation from prescribed standards with reasons. |
|--------|------------|----------------------------|--|
| | | <i>Nil</i> | |

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 2015-16 | % variation from prescribed limits with reasons. |
|--------|----------------------|---|-------------------------------------|--|
| 01 | Domestic effluents | 160 KLD | 150 KLD | - |
| 02 | Industrial effluents | | <i>Nil</i> | |

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.APPCB/VJA/VJA/439/HO/CFO/2011-2666, dt.18.11.2011)

| Sl.No | Sampling Location | Parameters | Method | Standards prescribed in the Air Consent | Avg. concentration µg/m ³ during 2015-16 | % variation from prescribed limits with reasons. |
|-------|--------------------|---|---|---|---|--|
| 1 | Mine Site Office | Suspended Particular Matter, µg/m ³ | IS:5182 (P-4) | Not Specified | 118.2 | -- |
| | | Respirable Suspended Particular Matter, µg/m ³ | IS:5182 (P-23) | 100 Max | 52.2 | -- |
| | | Sulphur Dioxide (SO ₂),µg/m ³ | APHA-Air(Improved West & Gaeke Method) | 80 Max | BDL | -- |
| | | Nitrogen Dioxide (NO ₂),µg/m ³ | Emission Regulation-III(Modified Jacob & Hochheiser Method) | 80 Max | 23.5 | -- |
| | | Carbon Monoxide (CO), mg/m ³ | IS:5182 (P-10) | 4 Max | 1.8 | -- |
| 2 | Ore Handling Plant | Suspended Particular Matter, µg/m ³ | IS:5182 (P-4) | Not Specified | 219.5 | -- |
| | | Respirable Suspended Particular Matter, µg/m ³ | IS:5182 (P-23) | 100 Max | 81.2 | -- |
| | | Sulphur Dioxide (SO ₂),µg/m ³ | APHA-Air(Improved West & Gaeke Method) | 80 Max | BDL | -- |
| | | Nitrogen Dioxide (NO ₂),µg/m ³ | Emission Regulation-III(Modified Jacob & Hochheiser Method) | 80 Max | 37.0 | -- |
| | | Carbon Monoxide (CO), mg/m ³ | IS:5182 (P-10) | 4 Max | 1.6 | -- |
| 3 | Loading Plant | Suspended Particular Matter, µg/m ³ | IS:5182 (P-4) | Not Specified | 174.7 | -- |
| | | Respirable Suspended Particular Matter, µg/m ³ | IS:5182 (P-23) | 100 Max | 72.7 | -- |
| | | Sulphur Dioxide (SO ₂),µg/m ³ | APHA-Air(Improved West & Gaeke Method) | 80 Max | BDL | -- |
| | | Nitrogen Dioxide (NO ₂),µg/m ³ | Emission Regulation-III(Modified Jacob & Hochheiser Method) | 80 Max | 37.5 | -- |
| | | Carbon Monoxide (CO), mg/m ³ | IS:5182 (P-10) | 4 Max | 1.8 | -- |
| 4 | VSP Township | Suspended Particular Matter, µg/m ³ | IS:5182 (P-4) | Not Specified | 150.0 | -- |
| | | Respirable Suspended Particular Matter, µg/m ³ | IS:5182 (P-23) | 100 Max | 50.5 | -- |
| | | Sulphur Dioxide (SO ₂),µg/m ³ | APHA-Air(Improved West & Gaeke Method) | 80 Max | BDL | -- |
| | | Nitrogen Dioxide (NO ₂),µg/m ³ | Emission Regulation-III(Modified Jacob & Hochheiser Method) | 80 Max | 23.0 | -- |
| | | Carbon Monoxide (CO), mg/m ³ | IS:5182 (P-10) | 4 Max | 1.9 | -- |
| 5 | Budhawada Village | Suspended Particular Matter, µg/m ³ | IS:5182 (P-4) | Not Specified | 167.0 | -- |
| | | Respirable Suspended Particular Matter, µg/m ³ | IS:5182 (P-23) | 100 Max | 65.2 | -- |
| | | Sulphur Dioxide (SO ₂),µg/m ³ | APHA-Air(Improved West & Gaeke Method) | 80 Max | BDL | -- |
| | | Nitrogen Dioxide (NO ₂),µg/m ³ | Emission Regulation-III(Modified Jacob & Hochheiser Method) | 80 Max | 23.7 | -- |
| | | Carbon Monoxide (CO), mg/m ³ | IS:5182 (P-10) | 4 Max | 1.8 | -- |

PART – D

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

| Sl.No. | Name of the Wastes | Total Quantity | |
|--------|---|------------------------------|-----------------------------|
| | | During Previous year 2014-15 | During Current year 2015-16 |
| 01 | From Process | | |
| | a). Tyres | 30 | 38 |
| | b). Detoxified Containers & container liners of Hazardous waste (Barrels/Drums) | | |
| | i). Oil drums | 70 | 94 |
| | ii). Grease containers. | 12 | 13 |
| | b). Used Led Acid Batteries | 3 | 20 |
| | c). Waste/Used Mineral oil synthetic oil | 1050 | 1120 |
| | e). Non Ferrous Metal scrap | 0.22 tonnes. | 0.23 tonnes |
| 02 | From Pollution Control facilities | - | |

PART – E
(Solid Waste)

| Sl.No. | Name of the Wastes | Total Quantity | |
|--------|--------------------|------------------------------|-----------------------------|
| | | During Previous year 2014-15 | During Current year 2015-16 |
| 01 | Nil | Nil | Nil |

PART – F

Disposal Practices:

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

PART – G

(Impact of pollution control measures 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 147120 nos. Survived plants are 102984 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

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

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

PART - I

(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.

25/4/16

(Shiv Prasad)
Asst. General Manager (Mines)