



राष्ट्रीय इस्पात निगम लिमिटेड
(भारत सरकार का उपक्रम)

Rashtriya Ispat Nigam Limited
(A Government of India Undertaking)
CIN : U27109AP1982GOI003404



Ref. No: Mines/JLM/APPCB/7-67/2021/479

Date: 19.01.2021

(1) Member Secretary,
A.P. Pollution Control Board,
D. No. 33-26-14 D/2,
Near Sunrise Hospital,
Pushpa Hotel Centre,
Chalamalavari Street,
Kasturibaipet, Vijayawada - 520 010

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

Dear Sir,

Sub: Submission of **Half Yearly Compliance** on Consent order for Operation (CFO) of **Jaggayyapeta Limestone Mine**, Rashtriya Ispat Nigam Ltd, Visakhapatnam Steel Plant.

Reference: Consent Order No. APPCB/VJA/VJA/439/HO/CFO/2019 dated 31.01.2019

Enclosed please find copy of Condition wise compliance report on Consent order for Operation (CFO) pertaining to **Jaggayyapeta Limestone Mine**, Rashtriya Ispat Nigam Ltd., Visakhapatnam Steel Plant, for the Period **July 2020 to December 2020**.

This is for your kind record please.

Thanking you,

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

Brunraj
बी यू वी एन राजू / (B U V N Raju)
उप महाप्रबंधक (यांत्रिक), & प्रभारी जेएलएम/
DGM (Mech.,) & I/c - JLM

संलग्न/ Encl: उपरोक्तानुसार / As above.



Please send your reply to
Website: www.vizagsteel.com

Phone : 7396578901
E-mail : jptvspjlm@gmail.com,
vspjlm@yahoo.co.in

Unit Office: RINL, Visakhapatnam Steel Plant, Jaggayyapeta Limestone Mines,
Jaggayyapet - 521175, Krishna Dist., A.P

M/s Rashtriya Ispat Nigam Limited
Visakhapatnam Steel Plant
Jaggayyapeta Limestone Mine

*** Compliance on Red Category Consent & Authorization Order (CFO) ***

Consent Order No. APPCB/VJA/VJA/439/HO/CFO/2019 Dated: 31.01.2019

Sl. No.	Name of the Activity	Capacity
1	Limestone mining	7,80,000 TPA

I. Outlets for discharging of effluents:

Outlet No.	Outlet Description	Max Daily Discharge	Standards to be complied	Point of Disposal	Compliance
1.	Vehicle Washing	3 KLD	pH - 5.5-9.0, Suspended Solids - 200 mg/l, Biochemical Oxygen Demand (BOD) - 100 mg/l & Oil and Grease (O&G) - 10 mg/l	After treatment, shall be used for on land for plantation	There is no effluent discharge.
2.	Domestic effluents	250 KLD		After treatment in STP, the treated waste water shall be used for horticulture in the township	* In the period July 2020 - December 2020 the peak value of 250 KLD is measured. * The treated water used for plantation purpose in township

II. Emissions from chimneys:

Chimney No.	Description of Chimney	Compliance
1	Attached to 280 TPH Jaw Crusher	* The Dust suppression at crushing and screening plant is by Dry fog dust suppression system (With the help of pressurised water and compressed air mixture)
2	Attached to 550 TPH Cone Crusher	
3	Attached to Double deck vibrating screen	* There is no air emissions envisaged in the system hence stack/chimney is not applicable

**III. Hazardous Waste Authorization (Form - II) See Rule 6(2):
Hazardous Wastes with Recycling Option:**

Sl. No.	Name of the Hazardous Waste	Stream	Quantity	Method of disposal	Compliance
1.	Used Oil	5.1 of Schedule - I	4 KLPA	Shall be disposed to authorized Re-processors/ Recyclers.	* In the FY 2020-21, 1.20 KL of waste oil is generated. * 2.40 KL of waste oil (Mineral Oil) is transported to Main plant at Vizag for recycle purpose on 04.06.2018.

This combined order of Consent & Hazardous Waste Authorization shall be valid for a period ending with the **31st December, 2023**.

SCHEDULE - A:

Sl. No.	CFO condition	Compliance
1.	Any up-set condition in any industrial plant / activity of the industry, which result in, increased effluent / emission discharge and/ or violation of standards stipulated in this order shall be informed to this Board, under intimation to the Collector and District Magistrate and take immediate action to bring down the discharge / emission below the limits.	Not Applicable
2.	The industry shall carryout analysis of waste water discharges or emissions through chimneys for the parameters mentioned in this order on quarterly basis and submit to the Board.	* STP Inlet as well as outlet water is being analysed in the month of December 2020, report is submitted. Copy of the report is enclosed as Annexure-1 . * Field monitoring is being carried out on Quarterly basis by Environment monitoring agency and the reports are being submitted to MoEF&CC, CPCB, CGWA, APPCB and IBM - Copies of the letters are enclosed at Annexure - 2 .
3.	All the rules & regulations notified by Ministry of Law and Justice, Government of India regarding Public Liability Insurance Act, 1991 should be followed as applicable.	Ensured
4.	The industry shall put up two sign boards (6x4 ft. each) at publicly visible places at the main gate indicating the products, effluent discharge standards, air emission standards, hazardous waste quantities and validity of CFO and exhibit the CFO order at a prominent place in the factory premises.	Complied, Two sign boards are erected near Main gate at the entry point of site.

5.	Notwithstanding anything contained in this consent order, the Board hereby reserves the right and powers to review / revoke any and/or all the conditions imposed herein above and to make such variations as deemed fit for the purpose of the Acts by the Board.	Not Applicable
6.	The applicant shall submit Environment Statement in Form V before 30th September every year as per Rule No.14 of E (P) Rules, 1986 & amendments thereof.	Compliance in practice. Environment Statement in Form V for the Year 2019-20 is enclosed as Annexure - 3.
7.	The applicant shall make applications through Online for renewal of Consent (under Water and Air Acts) and Authorization under HWM Rules at least 120 days before the date of expiry of this order, along with prescribed fee under Water and Air Acts and detailed compliance of CFO conditions for obtaining Consent & HW Authorization of the Board. The industry should immediately submit the revised application for consent to this Board in the event of any change in the raw material used, processes deployed, quantity of trade effluents & quantity of emissions. Any change in the management shall be informed to the Board. The person authorized shall not let out the premises / land / sell / transfer their industrial premises without obtaining prior permission of the State Pollution Control Board.	Ensured
8.	Any person aggrieved by an order made by the State Board under Section 25, Section 26, Section 27 of Water Act, 1974 or Section 21 of Air Act, 1981 may within thirty days from the date on which the order is communicated to him, prefer an appeal as per Andhra Pradesh Water Rules, 1976 and Air Rules 1982, to Appellate authority constituted under Section 28 of the Water (Prevention and Control of Pollution) Act, 1974 and Section 31 of the Air(Prevention and Control of Pollution) Act, 1981.	Not Applicable

SCHEDULE - B:

Sl. No.	CFO condition	Compliance
1.	The industry shall handover the original Consent order dated 18.12.2014 and Auto Renewal Order dated 16.03.2018 to the RO: Vijayawada after receipt of this CFO order.	Complied, Original copies submitted to APPCB Regional office, Vijayawada. Copy of the letter is enclosed as Annexure-4.

<p>Water: The source of water is River water / Bore well. The following is the permitted water consumption:</p>	<p>The average water consumption during the period July 2020 – December 2020 is 542 KLD (i.e. within the permitted limits). a) For Dust suppression (mining & crusher), Washings etc: 320 KLD b) Domestic : 222 KLD</p> <p>Permission is obtained for Supply of Water from Paleru River dated 15.05.1980 (i.e 542 KL per day for 31 Days)</p>												
<table border="1"> <thead> <tr> <th>Sl. no.</th> <th>Purpose</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td>a)</td> <td>Dust suppression (mining & crusher), Washings etc</td> <td>505 KLD</td> </tr> <tr> <td>b)</td> <td>Domestic</td> <td>355 KLD</td> </tr> <tr> <td></td> <td>Total</td> <td>860 KLD</td> </tr> </tbody> </table>	Sl. no.	Purpose	Quantity	a)	Dust suppression (mining & crusher), Washings etc	505 KLD	b)	Domestic	355 KLD		Total	860 KLD	<p>* Water meters are installed at outlet of the main tanks. * The monthly water consumption details are regularly submitted to APPCB Regional office, Vijayawada through hard copy as Form-I. Copy of the letter for the month of December 2020 is enclosed as Annexure-5.</p>
Sl. no.	Purpose	Quantity											
a)	Dust suppression (mining & crusher), Washings etc	505 KLD											
b)	Domestic	355 KLD											
	Total	860 KLD											
<p>Separate meters with necessary pipe-line shall be provided for assessing the quantity of water used for each of the purposes mentioned below. a. Spraying in mine pits. b. Domestic purposes.</p>	<p>* No natural source of water or stream is encountered in the mining operation. * Maintaining the natural gradient of water flow to low-lying areas. * Compliance in practice as per approved Modification of Mining Plan.</p>												
<p>The industry shall ensure that no natural water course shall be obstructed due to any mining operations.</p>	<p>* Drain line in the Eastern part of lease, emanating from wagon loading area and terminating at Paleru near bamboo plantation area shall be considered for catch drain and siltation pond.</p>												
<p>Catch drains and siltation ponds of appropriate size shall be constructed for the working pit, inter burden and mineral dumps to arrest flow of silt and sediment. The water so collected should be utilized for watering the mine area, roads, greenbelt development, etc. The drains shall be regularly desilted, particularly after monsoon and maintained properly.</p>	<p>* Garland drain is provided all along the Fines Dump with 0.5m depth and 0.75m width. * One inactive fines dump is stabilised with afforestation and retention wall along the foot of the dump is provided. * One check dam is provided in between Pit-01 & Pit-02. * Rainwater is stored in the mine for internal use in plantation & road wetting purposes and water is not pumped out.</p>												
<p>Garland drain of appropriate size, gradient and length shall be constructed for both mine pit and inter burden dumps and sump capacity shall be provided. Sump capacity with adequate retention period to allow proper settling of silt material should also be provided. Sedimentation pits should be constructed at the corners of the garland drains and desilted at regular intervals.</p>	<p>* One trench is provided near Pit-01 area to collect rain water into pit. * Garland drain is provided all along the Fines Dump with 0.5m depth and 0.75m width. * In Pit no.01, 2nd Bench is being used for storage of runoff along with the mine catchment area water and being utilized for plantation and dust suppression.</p>												

7.	<p>The proponent has to provide a trench for storm water draining from the mine lease area to aid in preventing the sedimentation of silt and avoid siltation at the discharge end of check dams.</p>	<p>* No effluent/ water is let outside the lease area</p> <p>* One check dam is provided. Few more check dam/ gulley plugs are to be constructed based on recommendations of CGWA.</p> <p>* Hydro-geological study carried out by State Ground Water Department and the report has been submitted to Regional Director, CGWB for seeking "Suitable conservation measures to augment ground water resources and Suitable rainwater harvesting measures" at JLM. Copy of the letter is enclosed at Annexure - 6.</p>
8.	<p>Air: The industry shall comply with ambient air quality standards of PM10 (Particulate Matter size less than 10mm) - 100 mg/ m³; PM2.5 (Particulate Matter size less than 2.5 mm) - 60 mg/ m³; SO₂ - 80 mg/ m³; NO_x - 80 mg/ m³, outside the factory premises at the periphery of the industry. Standards for other parameters as mentioned in the National Ambient Air Quality Standards CPCB Notification No.B-29016/20/90/PCI-I, dated 18.11.2009.</p> <p>Noise Levels: Day time (6 AM to 10 PM) - 75 dB (A) Night time (10 PM to 6 AM) - 70 dB (A)</p> <p>The proponent shall comply with the following for controlling noise pollution:</p>	<p>* Field monitoring of Air, Dust, Water & Noise is being carried out on Quarterly basis by Environment monitoring agency and the reports are being submitted to MoEF&CC, CPCB, CGWA, APPCB and IBM - Copies of the letters are enclosed at Annexure - 2.</p> <p>* The present practice of administrative control by maintaining suitable rosters of mine workers should continue with the aim of not allowing any one to have noise exposure more than 8 hrs. Personnel working in high noise prone area provided with earplugs.</p>
9.	<p>典 Machineries shall be properly maintained to prevent undesirable noise. Attention shall be paid towards rigorous maintenance of the silencers of diesel engines.</p> <p>典 Surface drilling and blasting operations shall not be carried out at night.</p> <p>典 The drilling shall be done with sharp drill bits to reduce generation of noise during drilling.</p> <p>典 Controlled blasting with optimum charge per hole shall be practiced to reduce generation of noise.</p> <p>典 Hydraulic rock breaker shall be used in lieu of secondary blasting.</p>	<p>Ensured</p> <p>* Monitoring of noise levels being carried out in Seven Locations including Shovels and Drill machines and reports are submitting seasonally.</p> <p>Ensured</p> <p>Ensured</p> <p>Ensured</p> <p>Sequential blasting method is in practice to control the Flying fragments and Ground vibrations.</p> <p>Ensured</p> <p>Rock breaker is utilising to avoid secondary blasting.</p>

	<p>Drill machine operators and dumper drivers shall be equipped with earplugs and earmuffs. The duty hours of operators working near the machinery shall be regulated to keep their noise exposure levels within limits.</p> <p>Periodical monitoring of noise level of mining machines and at some locations in the mining site shall be done with the help of noise level meter.</p>	<p>* Personal protective equipments like shoe, helmet, nose mask, ear plugs are provided to each and every workman.</p> <p>* The present practice of administrative control by maintaining suitable rosters of mine workers should continue with the aim of not allowing any one to have noise exposure more than 8 hrs. Personnel working in high noise prone area provided with earplugs.</p> <p>* Monitoring of noise levels being carried out in Seven Locations including Shovels and Drill machines and reports are submitting seasonally. The monitored levels are within the prescribed limits.</p> <p>Compliance in practice.</p>
10.	<p>The conveyor belt shall be covered with sheets to mitigate fugitive emissions</p>	<p>* The mineral transportation up to stock pile is under closed conveyor belt system.</p>
11.	<p>The proponent shall ensure compliance of the National Ambient Air quality standards notified by MoE&F, GoI vide notification No. GSR 826(E), dated. 16.11.2009 during construction and regular operational phase of the project.</p>	<p>Seasonal monitoring is being carried out and reports are submitting seasonally. All the parameters monitored are within the prescribed limits. Copies of the letters are enclosed as Annexure-2.</p>
12.	<p>Ambient air quality monitoring stations shall be provided in core and buffer zone in down windward direction in consultation with concerned Regional Officer of APPCB for monitoring of PM2.5, PM10, SO2, NOx. The consolidated report of the same shall be submitted.</p>	<p>As per EMP and based on wind roses and other parameters; Five air monitoring stations are located in core zone and buffer zone. i.e Mines Site Office, Ore Handling Plant, Loading Plant, VSP Township, Budawada Village.</p> <p>Seasonal monitoring is being carried out and reports are submitting seasonally. All the parameters monitored are within the prescribed limits. Copies of the letters are enclosed as Annexure-2.</p>

General Conditions:

Sl.No.	CFO condition	Compliance
13.	<p>The proponent shall explore the possibility to convert mined area into a reservoir by plugging the leakages.</p>	<p>In Pit no-1 rain water harvesting is done which allows the water to stay for very long time and facilitates the ground water recharge.</p>
14.	<p>The proponent shall ensure that there shall not be any change in the process technology of mining operations and scope of working without prior approval from the Board.</p>	<p>Compliance in practice as per approved Modification of Mining Plan.</p>

15.	<p>The industry shall maintain the following records and the same shall be made available to the inspecting officers of the Board:</p> <ol style="list-style-type: none"> Daily production details. Quantity of Effluents generated, treated, recycled/reused and evaporated. Log Books for pollution control systems. Characteristics of ambient air, effluents and emissions. Hazardous/non hazardous solid waste generated and disposed. Inspection book. Manifest copies of hazardous waste. 	<p>Maintaining the all report and submitting the same to statutory authorities as and when required.</p>
16.	<p>The industry shall dispose the E-Waste to authorized recyclers / dismantlers located within the state.</p>	<p>Not Applicable</p>
17.	<p>The proponent shall develop green belt of width 7.5 m all along the boundary of the mine lease area on OB dumps, along the roads etc., by planting the native species in consultation with the local DFO.</p>	<p>* <i>The Afforestation program for 3793 saplings in 2.42 ha., was completed in this period for the year 2020-21.</i></p> <p>* Green belt over 101.32 Ha is developed in the entire lease area where the soil cover is available by planting approx. 1.58 lakhs saplings. The <i>density of the trees around 1558</i> plants per ha.</p> <p>* Plantation of all the local species in line with the local flora is done in consultation with DFO/Agriculture department. Copy of the letters is enclosed at Annexure - 7.</p> <p>* We have paid the Rs 42.50 lakhs towards cost of maintenance of the safety zone including the cost of fencing and regeneration to Forest deptt., vide letter no-<i>J/2-05/2000/2623, dt-29-11-2000.</i></p>
18.	<p>The industry shall comply with standards and directions issued by CPCB/MoEF & CC as and when notifications are issued.</p>	<p>Ensured</p>
19.	<p>The industry shall submit compliance report on the conditions mentioned in the consent order every six months i.e., on 1st of January and July of every year to the Regional Office/ Zonal Office.</p>	<p>Compliance in practice.</p> <p>Copy of the compliance letter for the period January 2020 to June 2020 is enclosed as Annexure-8.</p>

**SCHEDULE - C: [See rule 6 (2)]
[CONDITIONS OF AUTHORISATION FOR OCCUPIER OR OPERATOR HANDLING HAZARDOUS WASTES]**

Sl. No.	CFO condition	Compliance
01.	The authorized person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.	Ensured
02.	The authorization shall be produced for inspection at the request of an officer authorized by the State Pollution Control Board.	Ensured
03.	The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorization.	Ensured
04.	Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.	Compliance in practice as per approved Modification of Mining Plan.
05.	The person authorized shall implement Emergency Response Procedure (ERP) for which this authorization is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time;	Mock drill practices in underway. Emergency Assembling Points (EAP) are provided at each section.
06.	The person authorized shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty".	Ensured
07.	It is the duty of the authorized person to take prior permission of the State Pollution Control Board to close down the facility.	Ensured
08.	The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilization of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorization.	* There is no waste generated in the mining activity. * The waste Oil (Used Oil) is stored in barrels (Closed container) at CRS to transport VSP Main plant, Vizag for recycle purpose.
09.	An application for the renewal of an authorization shall be made as laid down under these Rules.	Compliance in practice
10.	Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.	Compliance in practice

11.	Annual return shall be filed by June 30th for the period ensuring 31st March of the year.	Compliance in practice; Annual return in Form-4 for the year 2019-20 is submitted. Copy is enclosed as Annexure-9 .
12.	The industry shall not store hazardous waste for more than 90 days as per the Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016.	Waste Oil (Used Oil) is stored in barrels (Closed container) at CRS to transport VSP Main plant, Vizag for recycle purpose.
13.	The industry shall store Used / Waste Oil and Used Lead Acid Batteries in a secured way in their premises till its disposal to the manufacturers / dealers on buyback basis.	* Waste Oil (Used Oil) is stored in barrels (Closed container) at CRS to transport VSP Main plant, Vizag for recycle purpose. * For batteries - Buy back procedure with supplier adopted
14.	The industry shall maintain 7 copy manifest system for transportation of waste generated and a copy shall be submitted to concerned Regional Office of APPCB. The driver who transports Hazardous Waste should be well acquainted about the procedure to be followed in case of an emergency during transit. The transporter should carry a Transport Emergency (TREM) Card.	Compliance in practice
15.	The industry shall maintain proper records for Hazardous and Other Wastes stated in Authorisation in Form-3 i.e., quantity of Incinerable waste, land disposal waste, recyclable waste etc., and file annual returns in Form-4 as per Rule 20 (2) of the Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016.	* Records for Hazardous Wastes is maintaining in FORM-3. Copy is enclosed as Annexure-10 . * Annual return in Form-4 for the year 2019-20 is submitted. Copy is enclosed as Annexure-9 .



BUVN RAJU

Dy. General Manager (Mech) &
Incharge (Mines)

RINL/Visakhapatnam Steel Plant
Jaggiahpeta Lime Stone Mine
JAGGAYAPETA - 521 175