



**ANDHRA PRADESH POLLUTION CONTROL BOARD
REGIONAL OFFICE, VIJAYAWADA.**

Plot No.41, Sri Kanakadurga Officers' Colony, Gurunanak Road, Vijayawada – 8.

Ph.No. : 2543542.

Lr.No. K- 1907/PCB/RO-VJA/2019-

Date -01-2019.

To

**The Joint Chief Environmental Engineer(Unit-IV),
Board Office,
A.P. Pollution Control Board,
Vijayawada.**

Sir,

Sub: **APPCB – RO – VJA – CFO (expansion) – M/s. Rashtriya Ispat Nigam Ltd., Sy. 376, Jaggaiahpet Lime stone mines, Budawada (V), Jaggaiahpet (M), Krishna Dist - Submission of inspection report – Regarding.**

- Ref: 1. CFE Expansion order No.405/APPCB/ CFE/RO-VJA/HO/2016 Dt.16.12.2016.
2. Auto renewal of CFO Order No.APPCB/VJA/VJA/439/HO/CFO/2018- Dt.16.03.2018 (existing)
3. Industry's CFO & HWA applications received on 02-01-2019.

The details of the industry and inspection report are submitted as below:

General Details:

(Note: All columns shall be filled. Irrelevant columns shall be filled with "Not applicable ".)

1	Name and Address of the industry With Name of Authorized Person and designation: E-mail : Cell No : Land Line STD code & No:	:	M/s.Rashtriya Ispat Nigam Ltd., Sy. 376, Jaggaiahpet Lime stone mines, Budawada (V), Jaggaiahpet (M), Krishna District.
2	Line of Activity	:	Lime stone mining.
2A	Category of the industry (Red/EC category; Hazardous)	:	Red-Haz
3	Date of commissioning of industry	:	
4	Details of Present application:		
4(A)	Single Window (Fresh / Expansion) / Other than Single Window (Fresh / Expansion)	:	1 st CFO (expansion)
	1 st CFO	:	--
4(B)	Date of receipt of application at RO	:	02-01-2019
4(C)	Date of Clarification sought	:	--
4(D)	Date of receipt of clarification	:	--
4(E)	Date of RO inspection	:	05-01-2019
4(F)	Date of forwarding of CFO verification report to ZO/HO	:	--
4(G)	Date(s) of issue of previous CFO order(s) / Validity date(s)	:	Date of CFO order: 16-03-2018 (existing) Validity Date: 30-06-2019
4(H)	Date(s) of issue of CFE order(s) / Validity date(s)	:	Date of CFE order: 16.12.2016 Validity Date: 7 years
4(I)	Fee details	:	Receipt No. 992638967, Rs.375000/-
	1. Fee paid and the period	:	Dt.02-01-2019. For 5 years
	4. Balance fee (CFE/CFO) if any to be paid for the period upto	:	Balance amount to be paid:-- Period: --
	5. Remarks if any	:	--

CFO Fee:

Category of the industry	Capital investment in Cr of Rs.	% fee & fee to be paid under one Act.	Minimum fee to be paid under each act.	Fee to be paid under both acts per year is	Total fee payable for 5 years is	Amount paid	Balance Fee to be paid is
Red Haz	- 32.87 crores	0.010% = Rs.32,870/-	Rs. 37,500/-	Rs. 75,000/-	Rs. 375000/-	Rs. 375000/-	--

5.	Total Project cost (Gross block of fixed assets without depreciation)	:	Rs. 32.87 crores
	Total investment on pollution control measures and recurring cost and percentage.	:	Total investment on pollution control measures - Rs.2.0 crores Recurring cost – Rs.4 lakhs
	Latitude & Longitude	:	16°50' to 16°53'N & 80°02' to 80°06'E
	Total Area of the plant in Acres	:	1295 Ha.
	Built up area in Acres	:	Mining area – 34.00 Ha by 31/03/2015; 50.40 Ha by 31/03/2020 62.40 Ha by 31/08/2024 Township - 21 Ha;
	Parking, roads & Open area in Acres	:	--
	Surroundings of the Industry	:	
	North: South: East: West:	}	Mines surrounded by Budawada Reserved Forest.
	Distance from Nearest Habitation: Township is existing in the mining lease area. Distance from Nearest water body: Paleru river is at a distance of about 0.5 km. Distance from Nearest National Highway / State Highway: No major road is existing in the nearby vicinity.		
	Extent of Green belt developed in Acres	:	98.9 Ha with approx. 1.54 lakhs saplings.
	Extent of Green belt required as per EC	:	7.5 mts width in the safety zone around the mining lease, OB dump, along the roads etc, with a density around 1500 plants per Ha.
	Extent of Green belt required as per CFE	:	7.5 mts width in the safety zone around the mining lease, OB dump, along the roads etc.
	Balance green belt to be developed	:	Mostly, plants in the lease area are existing by nature. Specified plants have not been planted.
6	Status of E.C	:	NA
	I Line of Activity as per EIA Notification.	:	
	II Environmental Clearance order No. and date	:	EC Order No.J-11015/28/2010-IA.II(M) dt.30-03-2016 (expansion) issued by MoEF&CC
7	I Inspection conducted by	:	Smt. B.B.Saritha, AEE-I, RO, VJA
	II Representative of Industry present with designation / Cell No / E-mail id	:	Sri. Vijay Kimar, AGM, Mines 9177633349 minesvspjlm@gmail.com

09) Products and By-products

Sl. No.	Name of the products	Quantity		
		As per CFO order (existing) dt.18.12.2014	as per CFE (expansion) order dt.16.12.2016	Applied for CFO (after expansion)
1.	Lime Stone Mining	1000 TPD or 30000 TPM	780000 TPA	780000 TPA

10) Raw material and chemicals used :

Sl. No.	Name of the raw material and chemicals	Applied for CFO (after expansion)
1	Lime stone mining & crushing	780000 TPA

11)	Storage details of chemicals / Fuels	:	--
12)	Brief description of process	:	Flow diagram with description of process is enclosed.
13)	Source of water supply	:	River water / Bore Well

14) i) Water Consumption (KLD) :

	Purpose	:	As per CFO order (existing) dt.18.12.2014	Quantity as per CFE (after expansion) order dt.16.12.2016	Applied for CFO (after expansion)
a)	Dust suppression (mining & crusher), Washings etc	:	115 KLD	505 KLD	505 KLD
b)	Domestic	:	215 KLD	355 KLD	355 KLD
	Total	:	330 KLD	860 KLD	860 KLD

ii) Waste water generation KLD :

Sno	Source	:	As per CFO order (existing) dt.18.12.2014	Quantity as per CFE (after expansion) order dt.16.12.2016	Applied for CFO (after expansion)
a)	Vehicle wash	:	3 KLD	3 KLD	3 KLD
b)	Domestic	:	160 KLD	250 KLD	250 KLD
	Total	:	163 KLD	253 KLD	253 KLD

12 Out let – as per CFO order (existing) dated 18.12.2014

Outlet No.	Outlet Description	Max Daily Discharge	Point of Disposal
1)	Vehicle wash	3 KLD	After treatment, shall be used for on land for plantation.
2)	Domestic	160 KLD	After treatment in STP, the treated waste water shall be used for on land for plantation.

15) Treatment & Disposal:

Effluent source	Treatment proposed & Mode of final disposal
Washings	Being used on land for plantation.
Domestic	Domestic effluents disposed into septic tank followed by soak pit.

16) Air Pollution :

After Expansion: The industry has installed Dry fog dust suppression system at Crushing & screening sections with the help of pressurized water and compressed air mixture in place of existing bag filters and hence stack / chimney have been disconnected. They have provided interlocking system between the raw materials feeding / conveying systems and dry fog system. The industry has installed a water tanker of 32 KL capacity for dry fog system.

16. Emissions from chimneys – as per CFE (after expansion) order dt.16.12.2016

Sl. No	Details of Stack	Stack 1	Stack 2	Stack 2
a)	Attached to:	Lime stone crusher (Jaw Crusher)	Lime stone crusher (Cone Crusher)	Double deck vibrating screen
b)	Capacity	280 TPH	550 TPH	--
c)	Name of the Fuel :	--	--	--
d)	Stack height above ground (m.)	25 mts	25 mts	25 mts
e)	Air Pollution Control Equipment:	Bag filters and Water sprinklers on the conveyors	Bag filters and Water sprinklers on the conveyors	Bag filters and Water sprinklers on the conveyors
f)	Conc. of particulate matter mg/Nm3	--	--	--

16 A. Fugitive emissions: Sources / outlets and control systems adopted:

- Dust emission during mining operations: Wet drilling for control of dust emissions and provided a dedicated water tanker to suppress the dust emissions on the haul roads.
- Installed Dry fog dust suppression system at all the materials conveying systems, operating with interlocking facility.
- Constructed concrete stock bins of 4500 T capacity to stock of sized limestone in place of present system of ground stocking.

17. Online AAQM and stack monitoring stations: Nil

18 Hazardous chemicals used and their storage facilities: Nil

19) Hazardous Waste Authorization details:

S. No.	Name of the Hazardous Waste	Stream Number as per HWM Rules	Quantity of Hazardous waste	Disposal Option
1.	Used oil	5.1 of schedule –I	4 KLPA	For disposal to A.P.P.C.B. authorized reprocessing / recyclers.

Non-Hazardous Solid Waste details : Nil

20 Compliance status of conditions stipulated in CFE order dated – 16.12.2016

S. No.	Condition	Compliance																
	Schedule – B																	
1.	<p>Water: The source of water is Bore well and after development of the mine pit. The mine pit water for meeting the water requirement and the maximum permitted water consumption is 860 KLD.</p> <table border="1"> <thead> <tr> <th>S. No.</th> <th>Purpose</th> <th>Existing</th> <th>After Expansion</th> </tr> </thead> <tbody> <tr> <td>a)</td> <td>Dust suppression (mining & crusher), washings etc)</td> <td>115 KLD</td> <td>505 KLD</td> </tr> <tr> <td>b)</td> <td>Industrial cooling makeup</td> <td>215 KLD</td> <td>355 KLD</td> </tr> <tr> <td></td> <td>Total :</td> <td>330 KLD</td> <td>860 KLD</td> </tr> </tbody> </table>	S. No.	Purpose	Existing	After Expansion	a)	Dust suppression (mining & crusher), washings etc)	115 KLD	505 KLD	b)	Industrial cooling makeup	215 KLD	355 KLD		Total :	330 KLD	860 KLD	The industry is not yet commissioned expanded production.
S. No.	Purpose	Existing	After Expansion															
a)	Dust suppression (mining & crusher), washings etc)	115 KLD	505 KLD															
b)	Industrial cooling makeup	215 KLD	355 KLD															
	Total :	330 KLD	860 KLD															
2.	<p>The maximum waste water generation shall not exceed the following:</p> <table border="1"> <thead> <tr> <th>Sl. No.</th> <th>Source</th> <th>Existing</th> <th>After Expansion</th> </tr> </thead> <tbody> <tr> <td>a)</td> <td>Vehicle wash</td> <td>3 KLD</td> <td>3 KLD</td> </tr> <tr> <td>b)</td> <td>Domestic</td> <td>160 KLD</td> <td>250 KLD</td> </tr> <tr> <td></td> <td>Total</td> <td>163 KLD</td> <td>253 KLD</td> </tr> </tbody> </table>	Sl. No.	Source	Existing	After Expansion	a)	Vehicle wash	3 KLD	3 KLD	b)	Domestic	160 KLD	250 KLD		Total	163 KLD	253 KLD	To be verified after commissioning of the expansion production.
Sl. No.	Source	Existing	After Expansion															
a)	Vehicle wash	3 KLD	3 KLD															
b)	Domestic	160 KLD	250 KLD															
	Total	163 KLD	253 KLD															

		Treatment & Disposal:				
		Source of effluent	Treatment	Mode of final disposal		
		Trade effluents	---	Being used for dust suppression.		
		Domestic	STP consists of bar screen, primary settling tank, aeration tank, secondary clarifier, chlorination tank and final treated water collection tank.	The treated waste water is used for horticulture in the township.		
3.	The industry shall ensure that no natural water course shall be obstructed due to any mining operations.				Complied.	
4.	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.				As per the industry representative, no over burden and inter burden generates as it contains 100% mineral. The industry is using the mined out pit to catch the run off along with the mine catchment area water, rain water and being utilized for plantation and dust suppression.	
5.	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.				No garland drains provided around the mine pit. A small toe wall was laid through the benches. Mined out pit is being used for storage of runoff along with the mine catchment area water, rain water and being utilized for plantation and dust suppression.	
6.	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.				Complied.	
7.	Separate meters with necessary pipe-lin shall be provided for assessing the quantity water used for each of the purposes mentioned below. a) Spraying in mine pits. b) Domestic purposes.				Complied.	
8.	The proponent shall comply with the following to control air pollution:				The industry has installed Dry fog dust suppression system at Crushing & screening sections with the help of pressurized water and compressed air mixture in place of existing bag filters and hence stack / chimney have been disconnected.	
	Sl. No	Details of Stack	Stack 1	Stack 2		
	a)	Attached to:	Lime stone crusher (Jaw Crusher)	Lime stone crusher (Cone Crusher)		Double deck vibrating screen
	b)	Capacity	280 TPH	550 TPH		--
	c)	Stack height above ground (m.)	25 mts	25 mts	25 mts	

	d)	Air Pollution Control Equipment:	Bag filters and Water sprinklers on the conveyors	Bag filters and Water sprinklers on the conveyors	Bag filters and Water sprinklers on the conveyors									
9		The proponent shall comply with the following for controlling noise pollution: <ul style="list-style-type: none"> Machineries shall be properly maintained to prevent undesirable noise. Attention shall be paid towards rigorous maintenance of the silencers of diesel engines. Surface drilling and blasting operations shall not be carried out at night. Controlled blasting with optimum charge per hole shall be practiced to reduce generation of noise. Hydraulic rock breaker shall be used in lieu of secondary blasting. 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. 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. 				Complied.								
10		The conveyor belt shall be covered with sheets to mitigate fugitive emissions.				Complied.								
11		The proponent shall ensure compliance of the National Ambient Air quality standards notified by MoEF&F, Gol vide notification No. GSR 826 (E), dated 16.11.2009 during construction and regular operational phase of the project.				Agreed by the industry								
12		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 PM _{2.5} , PM ₁₀ , SO ₂ , NO _x . The consolidated report of the same shall be submitted.				Complied. The industry is regularly submitting the monitoring reports.								
13		The generator shall be installed in a closed area with a silencer and suitable noise absorption systems. The ambient noise level shall not exceed 75 dB(A) during day time and 70 dB(A) during night time.				Complied.								
14		Solid Waste: The proponent shall comply with the following:				Complied.								
			<table border="1"> <thead> <tr> <th>S. No.</th> <th>Source of solid waste</th> <th>Quantity</th> <th>Disposal Option</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Used oil</td> <td>4 KLPA</td> <td>Authorized Reprocessing / Recyclers.</td> </tr> </tbody> </table>	S. No.	Source of solid waste	Quantity	Disposal Option	1.	Used oil	4 KLPA	Authorized Reprocessing / Recyclers.			
S. No.	Source of solid waste	Quantity	Disposal Option											
1.	Used oil	4 KLPA	Authorized Reprocessing / Recyclers.											
15		The following rules and regulations notified by the MoEF, Gol shall be implemented. a) Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2016. b) Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989. c) Rules for manufacture, use, import, export and storage of Hazardous micro-organisms / genetically engineered organisms or cells, 1989. d) Batteries (Management & Handling) Rules, 2010. e) E-Waste (Management & Handling) Rules, 2016. f) Construction and Demolition Waste Management Rules, 2016.				Agreed by the industry to comply with the condition.								
16		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.				98.9 Ha with approx. 1.54 lakhs saplings.								
17		The industry shall complete construction of the dry fog system for suppression of dust from the Limestone crusher by January, 2018 as committed vide Ir.dt.02.12.2016.				Complied								
18		The proponent shall explore the possibility to convert mined area into a reservoir by plugging the leakages.				At present, the mined out area is utilized for rain water storage.								

19	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.	Agreed by the industry to comply with the condition.
20	Concealing the factual data or submission of false information / fabricated data and failure to comply with any of the conditions mentioned in this order may result in withdrawal of this order and attract action under the provisions of relevant pollution control Acts.	--
21	The Board reserves its right to modify above conditions or stipulate any additional conditions including revocation of this order in the interest of environment protection.	--
22	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 such authority (hereinafter referred to as the Appellate Authority) constituted under section 28 of water (Prevention and Control of Pollution) Act, 1974 and section 31 of the Air (Prevention and Control of Pollution) Act, 1981.	--

Compliance report on schedule B conditions of CFO order dt. 18-12-2014 & 19-03-2016.

S. No.	Condition	Compliance															
	Schedule – B																
1.	The applicant shall take steps to reduce water consumption to the extent possible and consumption shall NOT exceed the quantities mentioned below : <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>S. No.</th> <th>Purpose</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Dust suppression (Mining & crusher)</td> <td>85 KLD</td> </tr> <tr> <td>2</td> <td>Vehicle washings</td> <td>30 KLD</td> </tr> <tr> <td>3</td> <td>Industrial cooling makeup</td> <td>215 KLD</td> </tr> <tr> <td colspan="2" style="text-align: center;">Total :</td> <td>330 KLD</td> </tr> </tbody> </table>	S. No.	Purpose	Quantity	1	Dust suppression (Mining & crusher)	85 KLD	2	Vehicle washings	30 KLD	3	Industrial cooling makeup	215 KLD	Total :		330 KLD	Complied.
S. No.	Purpose	Quantity															
1	Dust suppression (Mining & crusher)	85 KLD															
2	Vehicle washings	30 KLD															
3	Industrial cooling makeup	215 KLD															
Total :		330 KLD															
2.	The applicant shall file the water cess returns in Form-I as required under section (5) of Water (Prevention and Control of Pollution) Cess Act, 1977 on or before the 5th of every calendar month, showing the quantity of water consumed in the previous month along with water meter readings. The industry shall remit water cess as per the assessment orders as and when issued by Board.	Not applicable															
3.	The effluent discharged shall not contain constituents in excess of the tolerance limits mentioned below <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Outlet</th> <th>Parameter</th> <th>Limiting Standards</th> </tr> </thead> <tbody> <tr> <td rowspan="4">1</td> <td>pH</td> <td>5.50-9.00</td> </tr> <tr> <td>Total Suspended Solids (TSS at 103 – 105 oC)</td> <td>200.0 mg/l</td> </tr> <tr> <td>Biochemical Oxygen Demand (BOD</td> <td>100.0 mg/l</td> </tr> <tr> <td>Oil and Grease</td> <td>10.0 mg/l</td> </tr> </tbody> </table> <p>*monitoring frequency of these parameters shall be once in a fortnight</p>	Outlet	Parameter	Limiting Standards	1	pH	5.50-9.00	Total Suspended Solids (TSS at 103 – 105 oC)	200.0 mg/l	Biochemical Oxygen Demand (BOD	100.0 mg/l	Oil and Grease	10.0 mg/l	Complied.			
Outlet	Parameter	Limiting Standards															
1	pH	5.50-9.00															
	Total Suspended Solids (TSS at 103 – 105 oC)	200.0 mg/l															
	Biochemical Oxygen Demand (BOD	100.0 mg/l															
	Oil and Grease	10.0 mg/l															
4	The applicant shall install water meters at appropriate points for assessment of water quality used for different purposes and maintain records for water consumption for various purposes.	Installed water flow meters.															
5	The applicant shall comply with ambient air quality standards of PB ₁₀ (Particulate Matter size less than 10 µm) - 100 µg/m ³ ; P.M _{2.5} (Particulate Matter size less than 2.5 µm) -60 µg/m ³ ; SO ₂ – 80 µg/m ³ ; NO _x – 80 µg/m ³ ; 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 Noise Levels: Day time: (6 AM to 10 PM) – 75 dB(A) , Night time: (10 PM to 6 AM) – 70 dB(A)	The industry is conducting AAQM at five stations in and around the ML area by third party quarterly and submitting the reports to the Board.															
6.	The applicant shall continuously operate the Sewage Treatment Plant	Complied.															

	for the treatment of domestic effluents to meet the Board standards prescribed above for on land for plantation.	
7.	The industry shall construct the Sewage Treatment Plant for the treatment of domestic effluents within six months and submit the compliance to RO, Vijayawada.	Complied.
8.	The applicant should develop green belt and maintain it on the overburden dumps, haul roads and also along the boundary of the mining area to control air pollution in the surrounding area.	Green belt is developed in ML area. The industry has not yet generated OB and top soil and hence there is no OB dump.
9	The applicant shall ensure the implementation of Action plan for greenbelt development, as committed vide Lr.dt.22.11.2014	Complied.
10	All waste material should be disposed properly within the mining lease area.	Complied.
11.	All mining products and rejects, irrespective of size and quality, should be hauled away from the mine.	Complied.
12.	The natural drainage of water should be maintained. Dump sites should not cross any streams, water flow from the Mine Lease area, should be free of suspended matter and conform to prescribed water quality standards even during the monsoon.	Complied.
13.	Plantation with native species should be raised along the roads, dump sites to develop a wide greenbelt all around the ML area in consultation with local DFO/ Agriculture department.	Developing green belt in consultation with DFO. However most of the lease area is covered with green belt by nature.
14.	Dumping of overburden, should be like a retreating pyramid bench formation and shall carry physical and biological reclamation concurrently. Dumps should be contoured and provided with relief control and stabilized. Dump tops should be compacted, leveled and provided with be properly drained.	No OB is generated so far and hence no OB dump is existing in the premises.
15.	Soil binding nitrogen fixing plants should be planted in the Mine Lease area. Biological reclamation should be done in two phases, the first phase should be plant appropriate quick growing grass and shrubs and in the second phase shall grow slower growing native shrubs and trees should be grown	Biological reclamation is not yet started.
16.	Check dams and filter beds should be constructed to protect from stream runoffs.	Provided check dams and filter beds.
17.	Ground water table levels shall be monitored every season. Any low ring of the ground water table in comparison to the previous season should be reported to the Board immediately. Discarded pits should be allowed to fill with water.	The industry is monitoring ground water by the third party regularly and submitting the reports to the Board.
18.	Vehicles should be well maintained and engine idling should be minimized. Vehicle cabs should be made dust-proof.	Complied.
19.	Drills shall be water-jacketed. Local exhaust ventilation systems should be installed at dust generation points and the dust should be fed to a dust collection system.	Complied.
20.	Blasting should be sequential in such a manner as to achieve minimum vibration.	Complied.
21.	The industry shall establish four AAQ monitoring stations in the core zone as well as in the buffer zone for PM _{2.5} , PM ₁₀ , NO _x and SO ₂ and the frequency of monitoring should be undertaken in consultation with the APPCB.	The industry is monitoring the Ambient air quality at five stations in and around the ML area quarterly and submitting to the Board.
22	The applicant shall complete construction of Dry Fog system for suppression dust by june 2015, as committee vide Lr.dt.22.11.2014	Complied
23.	A separate environmental management cell with suitable qualified personnel should be set up under the control of a senior executive who will report directly to the head of the organization.	The industry is having Environment Management Cell.
24.	The applicant shall submit the data on AAQ (SPM, RSPM, SO ₂ & NO _x) to the EE, RO, Vijayawada once in six months.	Submitted.

25.	The applicant shall regularly conduct monitoring of ground water level and quality by establishing a network of existing wells and construction of new peizometers. The monitoring for quality shall be done four times a year in pre-monsoon (may) monsoon (August), post monsoon (November) and winter (January) seasons and for quality in May. Data thus collected shall be submitted to the EE, RO, Vijayawada quarterly within one month of monitoring.	Seasonal Monitoring is being submitting to the Board regularly.
26.	The company shall put up artificial ground water recharge measures for augmentation of groundwater resources. The project authorities shall meet water requirement of near by villages in case the village wells go dry due to dewatering of mine.	Agreed by the industry.
27.	The applicant shall submit Environment statement in Form V before 30 th September every year as per Rule No.14 of E(P) Rules, 1986 & amendments.	Submitted.
28.	The conditions are without prejudice to the rights and contentions of this Board in any court of law.	--

22 Compliance status of directions stipulated in Task Force order dated – No , directions issued.

23 Hazardous Waste Authorization details:

i)	Particulars of Authorization obtained under HW (M&H) Rules, 2003 (No. & Validity date)	:	CFO Order (existing) No.APPCB/VJAVJA/439/HO/CFO/2018-Dt.16.03.2018
ii)	Authorization issued for (Transportation, reception, storage, treatment and disposal)	:	Generation, storage and Disposal of Waste lubricating oil
iii)	Process in which the industry is covered (Please give Sl. No of process as per HW Rules)	:	5.1 of Schedule - I
iv)	Description of Hazardous waste with quantities and Stream No. as per HWM Rules, 2003	:	Waste used oil – 4 KLPA
v)	Particulars of on-site Secured Storage (Capacity with dimensions) and mention period for which secured storage is sufficient.	:	Drums
vi)	Quantity of Haz Waste stored on-site presently. *Furnish specific remarks on the storage of Haz. Waste for more than 90 days.	:	Nil
vii)	Quantity of Hazardous waste disposed for last six months as per the following break-up: Common TSDF – Common HW Incinerator – For recycle / reused -	:	--
viii)	Whether industry has submitted annual returns, date of latest submission.	:	Submitted.
ix)	Whether industry has installed incinerator or sending to common HW Incinerator	:	Not Applicable
x)	Particular of own incinerator (if applicable)	:	Not Applicable
xi)	Whether log books are maintained for incinerator. (if applicable)	:	No
xii)	Whether industry has taken adequate steps to prevent contaminated runoff from storage areas of Hazardous Waste.	:	Yes
xiii)	Steps taken by industry towards waste minimization and cleaner production.	:	---
xiv)	Future plan for waste minimization.	:	---

xv)	Facilities available with, industry for waste characterization.	:	---
xvi)	Overall House Keeping within the factory premises.	:	Satisfactory
xvii)	Details of disposal of lead acid batteries along with nos. and agencies to whom they are disposed	:	Not applicable
xviii)	Details of solid waste	:	Nil

24 Compliance of the industry on previous Hazardous Waste Authorization conditions: --

25 Details of clarifications, if any, called for by RO : Nil

26. Inspecting Officer's Remarks:

Status of functioning of flow meters of water and effluent	Water flow meters not provided at inlet and outlet of STP.
Status of energy meters in ETP and Air Pollution Control Equipment (APC)	Not provided separate energy meter to STP.
Remarks on ETP performance and Analysis results	Samples collected from STP inlet & STP outlet and submitted to ZL for analysis. The analysis reports are awaited.
Remarks on APC equipment performance and Analysis results	The industry has installed Dry fog dust suppression system at Crushing & screening sections in place of existing bag filters and stack / chimney have been disconnected. AAQM is to be carried out after commissioning of the expanded production.
Details of specific and serious non-compliance	Nil
Details of Court cases & Status	Nil
Details of complaints	Nil
Amendments required in the existing CFO/CFE order	--
Irrelevant Conditions that need deletion in view of present compliance / non-compliance	--
Additional conditions to be imposed	--
Specific comments on quantities of Hazardous Wastes as per application, existing CFO Order and actual generation	Nil
Details of non-hazardous solid waste generation and disposal details separately	Nil
Compliance of the industry with reference to Notifications under E(P) Act & Rules a) Fly Ash Notification b) PLI Act Policy c) Environmental Statement in Form – V d) Other if any	--
Mitigation Measures (Where significant adverse effects are identified, description of the remedial measures to be taken to avoid, reduce those effects).	--

27) Complaint if any: --

28) Inspection Officer's Remarks: --

1. M/s.Rashtriya Ispat Nigam Ltd., is having Limestone Mining Lease Area(ML area) to an extent of 1295 ha (900 ha of R.F. and 395 ha of Patta land) at Jaggaihpeta (V &M) Krishna District and operating since 1989. The industry renewed Mining lease area for a period upto 31-03-2030 issued by Directorate of Mines & Geology, Govt. of AP. The copy of the same is enclosed.
2. The industry is having CFO of the Board for the existing Lime stone mining for a production capacity of 1000 TPD (30,000 TPM) with validity upto 30-06-2019.
3. The industry obtained EC from MoEF, Gol, C.C for increasing the production capacity from 3,80,000 TPA to 7,80,000 TPA vide order dt.30-03-2016 and the industry obtained CFE(Expansion) vide order dt. 16.12.2016 for increasing the production capacity of 7,80,000 TPA in line with the production capacities mentioned in EC. The Proposed increase in Production would be achieved by increasing the no. of working hours / no. of shifts and modification of existing wagon loading system to load 58 wagons within 3 hrs.
4. The Total Mine lease area is 1295 Ha., out of which proposed to mine 50.40 Ha by 31/03/2020 and 62.40 Ha by 31/08/2024. The Township is existing in 21 Ha. The industry has developed Green belt in an area of about 98.9 Ha.
5. The industry is carrying out mining operation by open cast and sequential blasting method. The industry is having stone crushing plant in ML Area. The Production will be increased in the stone crushing plant in line with the mining production by increasing the no. of working hours.
6. The industry has installed Dry fog dust suppression system at Crushing & screening sections with the help of pressurized water and compressed air mixture in place of existing bag filters and stack / chimney have been disconnected. They have provided interlocking system between the raw materials feeding / conveying systems and dry fog system. The industry has installed a water tanker of 32 KL capacity for dry fog system.
7. The industry provided water sprinklers over the haul roads and provided a dedicated water tanker to suppress the dust emissions on the haul roads. However the industry shall provide water sprinklers at all dust emanating sources in the premises of stone crusher.
8. In expansion project, the industry adopted the following augmentation of existing facilities of mineral processing at mine head.
 - a) Operation of the mine in two shifts of effective working time of 8 hours whereas the existing system is operating only 5 hours.
 - b) Modification of the existing wagon loading system to load 58 wagons within three hours.
 - c) Stockpiling of sized limestone in concrete stock bins of 4500 T capacity in place of existing system of ground stocking.
 - d) Upgradation in the material conveying system by alteration / replacement of the existing conveyors.
 - e) Installing combine dry fogging at Crushing and screening plant and wagon loading for control of fugitive dust emissions.
9. The industry is having STP of capacity 250 KLD to treat the sewage generated from the township. The STP consists of bar screen, primary settling tank, aeration tank, secondary clarifier, chlorination tank and final treated water collection tank. Treated water is being used for on land for plantation / horticulture in the township. The industry shall provide water meters at inlet and outlet of STP and shall also provide separate energy meter for STP. Samples collected from STP inlet and outlet and submitted to ZL for analysis. The reports are yet to be received.
10. The industry has paid CFO fee for a period of five years i.e., upto 31-12-2023.
11. The issuance of CFO to the industry may be considered for Lime stone mining of 780000 TPA for a period of five years i.e., upto 31-12-2023 with a condition to return the original CFO order issued for the existing unit vide order dt.16-03-2018.

Signature of the Inspecting Officer
Designation: AEE-I

28. Recommendations of Environmental Engineer:

(Specific comment whether to issue consent or not)

1. The existing industry is permitted for mining of lime stone – 1000 TPD and obtained CFO valid upto 30-06-2016 and obtained CFO on 19-03-2016 valid upto 30-06-2018. Subsequently obtained Autorenewal of consent order and authorization vide order dt. 16-03-2018 valid upto 30-06-2019.
2. The industry obtained EC from MoEF, Gol, C.C for increasing the production capacity from 3,80,000 TPA to 7,80,000 TPA vide order dt.30-03-2016 and the industry obtained CFE(Expansion) vide order dt. 16.12.2016 for increasing the production capacity of 7,80,000 TPA in line with the production capacities mentioned in EC. The Proposed increase in Production would be achieved by increasing the no. of working hours / no. of shifts and modification of existing wagon loading system to load 58 wagons within 3 hrs.
3. The industry has installed Dry fog dust suppression system at Crushing & screening sections with the help of pressurized water and compressed air mixture in place of existing bag filters and hence stack / chimney have been disconnected. They have provided interlocking system between the raw materials feeding / conveying systems and dry fog system. The industry has installed a water tanker of 32 KL capacity for dry fog system.
4. The industry has to provide garland drains and trench for storm water draining, not provided water meters at inlet and outlet of STP for ascertaining the domestic waste water treatment and disposal.

CFO may be considered for a period upto 31-12-2023 duly canceling the existing CFO which is valid upto 30-06-2019 for mining of lime stone – 1000 TPD.

The CFO application along with inspection report and enclosures is herewith forwarded for taking necessary action.

Yours faithfully,


09/01/19
ENVIRONMENTAL ENGINEER (FAC)

Enclosures: CFO application along with its enclosures