



ANDHRA PRADESH POLLUTION CONTROL BOARD  
D.No.33-26-14D/2, Near Sunrise Hospital, Pushpa Hotel Centre,  
Chalamalavari Street, Kasturibaipet, Vijayawada - 520 010  
Phone. No.0866-2463200, Website : www.appcb.ap.nic.in

Order No. APPCB/VSP/VSP/108/CFO/HO/2019

06/02/2019

**AUTO RENEWAL OF CONSENT AND HAZARDOUS WASTE AUTHORISATION ORDER FOR OPERATIONS**

In response to your CFO & HWA applications dt: 05.01.2019 & 17.01.2019 for Auto Renewal of Consent for Operation and Hazardous Waste Authorisation, the A P Pollution Control Board hereby extends the validity period of CFO & HW Authorisation order No. APPCB/VSP/VSP/108/CFO/HO/2015 -499; Dt. 27.04.2015 with validity period up to 30.04.2019 and CFO & HWA order No. APPCB/VSP/VSP/108/CFO/HO/2017; Dt. 28.02.2017 with a validity up to 30.04.2019 for a further period up to 30.04.2023 under Section 25/26 of Water (Prevention and Control of Pollution) Acts, 1974, under section 21 of the Air (Prevention and Control of Pollution) Act, 1981 and Rule 6 of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.

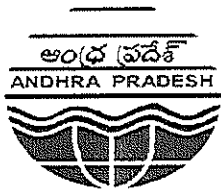
1. All other conditions mentioned in Schedules A, B & C of the combined CFO & HWA order issued by the Board vide order dated 27.04.2015 & 28.02.2017 will remain same.
2. The industry shall comply with the standards issued by MoEF&CC / CPCB from time to time.
3. The industry shall submit the compliance report to all the stipulated conditions for Consent for Operation for every six months i.e. on 1<sup>st</sup> of January and 1<sup>st</sup> of July of every year.
4. In case of false certification, non compliance of conditions / directions and discrepancy in furnishing the information by the industry, the Board can withdraw the auto renewed consent and take action under provisions of relevant Acts & Rules.

VIVEK YADAV IAS  
MEMBER SECRETARY

To  
M/s. Rastriya Ispat Nigam Ltd.,  
(Visakhapatnam Steel Plant),  
Kurmanpalem,  
Visakhapatnam

Copy to:

1. The JCEE, Zonal Office, Visakhapatnam for information and necessary action.
2. The Environmental Engineer, Regional Office, Visakhapatnam for information and necessary action. He is directed to verify the compliance status of the CFO conditions and refer to the Task Force in case of violations.



# ANDHRA PRADESH POLLUTION CONTROL BOARD

Paryavarana Bhavan, A-III, Industrial Estate,  
Sanathnagar, Hyderabad-500 018  
Phone : 040-23887500, Website: www.appcb.ap.nic.in

## RED CATEGORY RENEWAL OF CONSENT & AUTHORISATION ORDER BY REGISTERED POST WITH ACKNOWLEDGEMENT DUE

**Consent Order No : APPCB/VSP/VSP/108/CFO/HO/2015-**

**Date:27.04.2015**

(Consent Order for Existing/New or altered discharge of sewage and/or trade effluents/outlet under Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and amendments thereof, Operation of the plant under section 21 of the Air (Prevention & Control of Pollution) Act 1981 and amendments thereof and Renewal of Authorisation under Rule 5 of the Hazardous Wastes (Management, Handling & Transboundary, Movement) Rules, 2008 & Amendments thereof.

CONSENT is hereby granted under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974, under section 21 of Air (Prevention & Control of Pollution) Act 1981 and Authorisation under the provisions of HW (MH & TM) Rules, 2008 (hereinafter referred to as 'the Acts', 'the Rules') and the rules and orders made thereunder to:

**M/s. Rashtriya Ispat Nigam Ltd.,  
(Visakhapatnam Steel Plant),  
Kurmanapalem,  
Visakhapatnam – 530 031  
E mail: rinlenmd@sify.com**

(Hereinafter referred to as 'the Applicant') authorizing to operate the industrial plant to discharge the effluents from the outlets and the quantity of emissions per hour from the chimneys as detailed below:

### i) Out lets for discharge of effluents:

Outlet No.	Outlet Description	Max Daily Discharge KLD	Point of Disposal
1.	TPP – DM Plant Effluents after Treatment	4800	Into Sea at Appikonda / recycle into Plant.
2.	Trade Effluents from the Plant after Treatment	9600	Into Sea at Gangavaram.
3.	Domestic Effluents from Town Ship after Treatment at Ultra Filtration plant	7200	For recycling in the Plant for cooling purpose after ultra filtration

### ii) Emissions from chimneys:

Chimney No.	Description of Chimney	Quantity of Emissions at peak flow in Nm <sup>3</sup> /hr
1.	Attached to BF – I Burden Handling System	22,25,000
2.	Attached to BF – I Cast House Exhaust Station	9,72,000
3.	Attached to BF – II Burden Handling System	22,25,000
4.	Attached to BF – II Cast House Exhaust Station	9,72,000
5.	Attached to Sinter Plant Air Cleaning Plant	26,22,000
6.	Attached to Sinter Plant Gas Cleaning Plant	36,00,000
7.	Attached to Rolling Mills ( LMMM ) W.B. Furnace	1,96,248
8.	Attached to Rolling Mills ( LMMM )RH Holding Furnace	7,893
9.	Attached to WRM Walking Beam Furnace – I	1,20,709

10.	Attached to MMSM Walking Beam Furnace – II	1,41,576
11.	Attached to Thermal Power Plant Boiler – I & II	10,00,000
12.	Attached to Thermal Power Plant Boiler – III & IV	10,00,000
13.	Attached to Thermal Power Plant Boiler – V	5,00,000
14.	Attached to CRMP Flux Kiln - I & II	4,16,000
15.	Attached to CRMP Flux Kiln - III & IV	4,16,000
16.	Attached to CRMP Flux Kiln- V	2,08,000
17.	Attached to SMS Centralized Ventilation System	5,90,000
18.	Attached to Coke Oven Battery No. I	2,16,090
19.	Attached to Coke Oven Battery No. II	2,16,090
20.	Attached to Coke Oven Battery No. III	2,16,090
21.	Attached to Coke Oven Battery No. IV	2,16,090
22.	Attached to 2 x 250 KVA D.G. Sets	--
23.	Attached to 4 x 625 KVA D.G. Sets	--
24.	Attached to 1 x 1000 KVA D.G. Set	--
25.	Sinter Plant – 3 (waste gas)	1181530
26.	Sinter Plant – 3 (De-dusting)	732000
27.	Blast Furnace-3 (Cast House de-dusting)	1340000
28.	Blast Furnace-3 (Stock House dedusting)	470000
29.	SMS – 2 (material handling de-dusting system)	207500
30.	SMS – 2 (Secondary emission control system)	1630000
31.	SMS – 2 LFRH-1	106900
32.	SMS – 2 LFRH-2	106900
33.	Calcining & Refractory Material Plant- stack#1	85000
34.	Calcining & Refractory Material Plant- stack#2	85000
35.	Wire Rod Mill – 2 Walking beam furnace ( fuel – by product gasses)	79600
36.	Thermal Power Plant & Blower House Boiler #6	587880
37.	Structural Mill Walking beam furnace – fuel ( by product gasses)	85000
38.	Special bar mill Walking beam furnace (fuel – by product gasses)	85800

iii) **HAZARDOUS WASTE AUTHORISATION (FORM – II) [See Rule 5 (4)]:**

M/s. Rashtriya Ispat Nigam Ltd., (Visakhapatnam Steel Plant), Kurmanpalem, Visakhapatnam District., is hereby granted an authorization to operate a facility for collection, reception, storage, treatment, transport and disposal of Hazardous Wastes namely:

• **HAZARDOUS WASTES WITH RECYCLING OPTION:**

S.No	Name of the Hazardous Waste	Streams	Quantity	Method of Disposal
1.	ETP Sludge (MBC & ETP)	34.3 of Schedule – I	250 – 300 TPA.	Shall be used as alternate fuel in coke oven batteries.
2.	Used oil / Waste lubricating oil / vaccum oil / transformer oil / waste grease.	5.1 of Schedule - I	320 TPA.	Shall be used for internal consumption after reclamation. Partly sold to the authorised agencies.
3.	Tank bottom sludge of tar and oil storage tanks.	13.5 of Schedule - I	500 TPA.	Shall be stored within the premises and be used as alternate fuel in coke oven batteries.
4.	Tar Sludge from tar decanters	13.4 of Schedule - I	2800 TPA.	
5.	Acid tar from Ammonium sulphate plant (ASP)	13.2 of Schedule - I	200 TPA.	
6.	Benzol sludge from	13.3 of Schedule - I	480 TPA.	

	decanters of benzol distillation plant			
7.	Containers and containers liners of hazardous wastes & chemicals	33.3 of Schedule - I	50 TPA.	After detoxification, it shall be disposed to the outside agencies.

• **HAZARDOUS WASTES WITH DISPOSAL OPTION:**

S.No	Name of the Hazardous Waste	Streams	Quantity	Method of Disposal
1.	Oil soaked cotton waste	5.2 of Schedule - I	40 TPA	To TSDF, Parawada, Visakhapatnam for incineration / Authorised cement plants for co-processing.
2.	Spent resin from ion exchangers of DM Plant	34.2 of Schedule – I	5.0 TPA	To TSDF, Parawada, Visakhapatnam for secured land filling.
3.	Reactor catalyst	B-5 of Schedule – II	5 TPA	
4.	Asbestos waste	15.1 of Schedule – I	10 TPA	

This consent order is valid for manufacture of the following products with quantities indicated only:

S.No.	Products	Quantity
1.	Pig Iron	3,65,000 TPA
2.	Saleable Steel	57,20,000 TPA
3.	Coke Products	2,41,000 TPA
4.	Generation of Power	384 MW

This order is subject to the provisions of 'the Acts' and the Rules' and orders made there under and further subject to the terms and conditions incorporated in the schedule A, B & C enclosed to this order.

This combined order of consent & Hazardous Waste Authorisation shall be valid for a period ending with the 30<sup>th</sup> day of April, 2019.

Sd/-  
MEMBER SECRETARY

To  
M/s. Rashtirya Ispat Nigam Ltd.,  
(Visakhapatnam Steel Plant),  
Kurmanapalem,  
Visakhapatnam – 530 031

Copy to:

1. The JCEE, Zonal Office, Visakhapatnam for information and with a direction to review the progress on PERT chart of action plan submitted by the industry once in three months by the Zonal Office-Visakhapatnam and report compliance to Board Office.
2. The JCEE (Cess), APPCB, Hyderabad for information.
3. The SEE, Task Force – Visakhapatnam for information and for necessary action.

4. The Environmental Engineer, Regional Office, Visakhapatnam for information and necessary action

//T.C.F.B.O//

o/c

10/28/15  
JOINT CHIEF ENVIRONMENTAL ENGINEER  
UNIT HEAD - IV

**SCHEDULE - A**

1. The applicant shall make applications **through online** for renewal of Consent (under Water and Air Acts) and Authorisation under HWM Rules at least **120 days before the date of expiry of this order**, along with prescribed fee under Water and Air Acts for obtaining Consent & HW Authorisation of the Board along with detailed compliance to the conditions stipulated in the CFO and HWA.
2. 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 the Water(Prevention and Control of Pollution) Act, 1974 and Section 31 of the Air(Prevention and Control of Pollution) Act, 1981.
3. All other conditions stipulated in the Schedule – A of the earlier combined CFO & HWA order No: **APPCB/VSP/108/2007–2537** dated **05.03.2007** remains same. The industry shall ensure consistent compliance of each condition of Schedule-A.
4. The industry may explore the possibility of tapping the solar energy for their energy requirements.

**SCHEDULE - B**

1. The effluent discharged shall comply with the tolerance limits mentioned below:

Outlet	Parameter No.	Limiting Standards
1	pH	6.00 – 9.00
	Phenols	1.00 mg/l
	Ammonical Nitrogen	50.00 mg/l
	Suspended Solids	100.00 mg/l
	Oil and Grease	10.00 mg/l
	Copper (Total)	1.00 mg/l
	Iron (Total)	1.00 mg/l
	Iron	1.00 mg/l
	<b>Temperature:- not more than 5 °C higher than the intake</b>	
2	pH	6.00 – 9.00
	Suspended Solids	100.00 mg/l
	Phenols	1.00 mg/l
	Ammonical Nitrogen as N	50.00 mg/l
	Cyanide as CN	0.20 mg/l
	Oil and Grease	10.00 mg/l
	COD	250.00 mg/l
	BOD	30.00 mg/l

2. The water consumption shall not exceed the quantities mentioned below:

S.No	Purpose	Quantity
1.	Process	4,693 KLD
2.	Cooling & Boiler Feed	1,38,971 KLD
3.	Domestic (Plant & Township)	40,800 KLD
	<b>Total</b>	<b>1,84,464 KLD</b>

The industry shall maintain separate meters with necessary pipe-line for assessing the quantity of water used for each purpose.

3. The industry 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.

4. The emissions shall not contain constituents in excess of the prescribed limits mentioned below:

Chimney No.	Parameter	Emission Standards
1 to 17	Particulate matter	50 mg/Nm <sup>3</sup>
18 to 21	Particulate matter	50 mg/Nm <sup>3</sup>
	Carbon Monoxide	3 Kg / Tonne of coke produced
25 to 37	Particulate matter	50 mg/Nm <sup>3</sup>

5. The industry shall comply with emission limits for DG sets upto 800 KW as per the Notification G.S.R.520 (E), dated 01.07.2003 under the Environment ( Protection ) Amendment Rules, 2003 and G.S.R.448(E), dated 12.07.2004 under the Environment ( Protection ) Second Amendment Rules, 2004. In case of DG sets more than 800 KW shall comply with emission limits as per the Notification G.S.R.489 (E), dated 09.07.2002 at serial no.96, under the Environment ( Protection ) Act, 1986.
6. The industry shall comply with ambient air quality standards of PM10(Particulate Matter size less than 10µm) - 100 µg/ m<sup>3</sup>; PM2.5(Particulate Matter size less than 2.5 µm) - 60 µg/ m<sup>3</sup>; SO<sub>2</sub> - 80 µg/ m<sup>3</sup>; NO<sub>x</sub> - 80 µg/m<sup>3</sup>, NH<sub>3</sub> - 400 µg/m<sup>3</sup> 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 shall be complied. Following standards prescribed for noise shall be complied.

**Noise Levels:** Day time (6 AM to 10 PM) - 75 dB (A)  
Night time (10 PM to 6 AM) - 70 dB (A).

7. The industry shall not increase the capacity beyond the permitted capacity mentioned in this order.
8. The industry shall ensure validity of the ISO-14001 certification during the validity of CFO.
9. The industry shall furnish revised PERT chart reducing the time lines to maximum extent as the present time lines are extraordinarily high.
10. The industry shall submit action plan for utilization of fly ash.
11. All the stacks shall be connected to APPCB website before 30.06.2015.
12. Online effluent monitoring system shall be provided before 30.06.2015 as per CPCB directions.
13. The industry shall lift asbestos waste of 200 Tons to TSDF duly following manifest system.
14. The industry shall furnish action plan in two months for construction of 4 guard ponds each of two days hydraulic load capacity of treated effluents.
15. The industry shall achieve plantation targets as prescribed under Green Visakha programme.
16. The industry shall submit within two months revised PERT chart with revised time frames for completion of the each activity at the earliest for the following:
- Upgradation and stabilization of MBC Plant to meet discharge standards in respect of COD, Phenols, Cyanides, Suspended Solids, etc.
  - Upgradation of APC to meet emission standards in all the stacks.
  - Revamping of SMS Plants to control dust emissions.
  - Rectification of secondary de-dusting systems.
  - Achieving AAQ standards.
  - Achieving Zero Liquid Discharge.

- g. **Conducting online Bioassay monitoring in Guard ponds.**
- h. **Compliance to Fly Ash Notification stipulations.**
- i. **Construction of Dry Flys Ash collection system.**
- j. **Concreting internal roads.**

The industry shall submit monthly progress report on the progress of various activities mentioned above.

17. The industry shall comply with the effluent and emission standards specified in the G.S.R.No. 277 (E), dated 31.03.2012 applicable to Integrated Iron and Steel industries.
18. The industry shall maintain four CAAQM Stations as per the specifications of CPCB for online monitoring of Particulate Matter, SO<sub>2</sub>, Hydro carbons & NO<sub>x</sub> with networking facility to Head Office, APPCB.
19. The industry shall maintain data sheet logging facility for each continuous online stack monitoring station. All individual stations shall be connected to a suitable common facility with data logging so that it is accessible at one location. The industry shall submit the on-line stack monitoring data to the R.O, Visakhapatnam on monthly basis.
20. The industry shall maintain good house keeping in the premises. The industry shall ensure regular watering of roads and work area to control fugitive dust emissions in the Plant premises.
21. The industry shall carryout Bio-Assay tests in "online bio-assay testing facility" by providing 4 guard ponds each of two days hydraulic load capacity so as to receive the treated effluents in guard ponds before disposal. Only three guard ponds shall be operational at a time and one will be kept empty as reserve to store the effluents in case effluents fail in bio monitoring. The guard pond shall have appropriate lining and leak-proof construction specified for this purpose. The industry shall submit Bio-Assay test reports and impact on the marine life to the Regional Office, Visakhapatnam on monthly basis.
22. The industry shall implement conditions in clearance of A.P. State Coastal Zone Management Authority (APSCZMA) dated 12.02.2014.
23. The industry shall take action on the recommendations made by the NIO in the Marine Environmental Impact Assessment report.
24. The industry shall not discharge any ash slurry effluent into Appikonda creek, which finally joins Sea.
25. The industry shall maintain digital display at the Main Gate for displaying the CAAQM and stack analyzers results.
26. The Industry shall not shutdown ETP & MBC without prior intimation to A.P. Pollution Control Board.
27. There shall not be any fugitive emissions from the stock yards of raw materials. The industry shall operate MDSS system to control fugitive emissions.
28. The industry shall operate used oil reclamation unit with environmentally sound practices.
29. The industry shall conserve water resources by adopting various recycle options.
30. The industry shall maintain good green belt towards North – East direction of Gajuwaka to minimize the pollution impacts as per the earlier directions issued.
31. The industry shall provide internal concrete roads with Bitumen top to minimize fugitive emissions and submit report in three months.
32. The industry shall preserve water resources by adopting various recycle options.
33. The industry shall comply with the conditions stipulated in the CFE order No. APPCB/VSP/108/HO/2005/317, Dated 09.05.2005.
34. The industry shall comply with Task Force directions dated 18.05.2011 and other directions issued by the Board from time to time.
35. The industry shall maintain records in FORM – 13 as per Hazardous waste (Management, Handling & Transboundary) Rules, 2008.

36. The industry shall meet the National Ambient Air Quality standards as CPCB Notification dated 18.11.2009.
37. The industry shall comply with Battery (Management & Handling) Rules, 1998.
38. The industry shall comply with Noise (Pollution & Regulation) Rules, 2000.
39. 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.
40. The conditions are without prejudice to the rights and contentions of this Board in any Hon'ble Court of Law.

**SCHEDULE - C**

[see rule 5(4)]

**[ CONDITIONS OF AUTHORISATION FOR OCCUPIER OR OPERATOR HANDLING HAZARDOUS WASTES ]**

1. The industry shall give top priority for waste minimization and cleaner production practices.
2. The industry shall not store hazardous waste for more than 90 days as per the Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and amendments thereof.
3. The industry shall store Used / Waste Oil and Used Lead Acid Batteries in a secured way in their premises till its disposal.
4. The industry shall not dispose Waste oils to the traders and the same shall be disposed to the authorized Reprocessors/ Recyclers.
5. The industry shall dispose Used Lead Acid Batteries to the manufacturers / dealers on buyback basis.
6. The industry shall take necessary practical steps for prevention of oil spillages and carry over of oil from the premises.
7. The industry shall maintain 6 copy manifest system for transportation of waste generated and a copy shall be submitted to Board Office and concerned Regional Office.
8. The industry shall maintain good house keeping & maintain proper records for Hazardous Wastes stated in Authorisation.
9. The industry shall maintain proper records for Hazardous 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 22(2) of the Hazardous Wastes (Management, Handling & Transboundary Movement) Rules, 2008 and amendments thereof.
10. The industry shall submit the condition wise compliance report of the conditions stipulated in Schedule B & C of this Order on half yearly basis to Board Office, Hyderabad and concerned Regional Office.
11. The industry shall dispose of e-waste to the authorised recyclers only.
12. The industry shall conform to the co-processing guidelines of CPCB in sending wastes to co-processing for cement plants.
13. The industry shall implement Fly Ash Notification and amendments thereof.

Sd/-  
MEMBER SECRETARY

To  
M/s. Rashtriya Ispat Nigam Ltd.,  
(Visakhapatnam Steel Plant),  
Kurmanapalem,  
Visakhapatnam – 530 031

//T.C.F.B.O//

*Kulap 28/4/15*  
JOINT CHIEF ENVIRONMENTAL ENGINEER  
UNIT HEAD - IV



