

BY SPEED POST / E-MAIL

No. - CPCB/IPC-II/AI/2018/ 11048

08/10/2018

To

The Unit Head
M/s National Aluminium Company Limited (NALCO),
(A Government of India Enterprises)
M&R Complex - Alumina Refinery
Damanjodi - 763008
Distt. Koraput, Odisha

Sub: Directions under Section 5 of the Environment (Protection) Act, 1986 to M/s National Aluminium Company Limited (NALCO), Damanjodi, Koraput, Odisha. - regarding.

WHEREAS, the primary aluminium industries are identified as one of the 17 categories of highly polluting industries in the country and have been discharging environmental pollutants directly or indirectly into ambient air and water, which pose constant threat to cause adverse effect on air and water quality; and

WHEREAS, for strengthening monitoring and compliance through self-regulatory mechanism, online emission and effluent monitoring systems need to be installed and operated by the developers and the industries on 'polluter pays principle'; and

WHEREAS, directions under section 5 of the Environment (Protection) Act, were issued on July 23, 2015 to M/s National Aluminium Company Limited (NALCO), Damanjodi, Koraput, Odisha for installation of Online Continuous Emission & Effluent Monitoring Systems (OCEMS) and submission of the status; and

WHEREAS, based on the number of SMS alerts generated from Online Continuous Emission & Effluent Monitoring Systems for exceedance to prescribed parameter limit by M/s National Aluminium Company Limited (NALCO), Damanjodi, Koraput, Odisha; and

WHEREAS, in order to verify the compliance and find out the status of online monitoring system, a team from Regional Directorate - East, Kolkata carried out an inspection of M/s National Aluminium Company Limited (NALCO), Damanjodi, Koraput, Odisha on 29.08.2018 and made the following observations:

1. The consent of the unit under The Water Act, 1974 and The Air Act, 1981 is valid upto 31/03/2019. Hazardous Waste Authorization of the unit is valid upto 31/03/2021.
2. **The PM value in the stack of Calciner # D was tested and found as 104 mg/Nm³ against prescribed norm of 50 mg/Nm³ whereas the online stack monitoring result during inspection was 23.32 mg/Nm³.**
3. The Online Stack Emission Monitoring Systems (for Boilers) are installed at ESP Passes and only Pass # A's data is being transmitted for each Boiler. **The Stack Monitoring Port Hole is not available at the Stack itself** as per CPCB guidelines.
4. During stack monitoring of Calciner Stack #D, sudden power failure (Fire Hazard) occurred and Power Supply could not be revived.
5. The unit is using approx. 2.102 m³ of water for per Ton of Alumina Production from River Kerandi.

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6. A natural water stream (Name: Siba Lake) is passing through the plant area which finally goes to Sabari lake (Pond). The water analysis report of water sample collected from the Siba lake for compliance verification of pH, BOD, COD, TSS and O&G parameters.
7. The fly ash utilization is 102 % and utilized for Brick Manufacturing, Road Construction and Low lying area filling (Residential Colony Development) for FY 2017-2018.
8. The red mud storage capacity for 1 No. of Red Mud Pond is 3880.84 Ha-m against Storage: 5204 Ha-m. The crest level of pond is +957 m and Safe operating level is +954.50 m.

WHEREAS, Ministry of Environment & Forests, Government of India, vide Notifications No. S. O. 157 (E) of 27.02.1996 and S. O. 730 (E) dated 10.07.2002, has delegated the powers vested under Section 5 of the Environment (Protection) Act, 1986 (29 of 1986) to the Chairman, Central Pollution Control Board, to issue directions to any industry or any local body or any other authority for violations of the standards and rules notified under the Environment (Protection) Rules, 1986 and amendment thereof.

NOW, THEREFORE, in exercise of powers vested under Section 5 of the Environment (Protection) Act, 1986, M/s National Aluminium Company Limited (NALCO), Damanjodi, Koraput, Odisha is directed to take action on the following points:

1. To take appropriate measures to ensure emission from Calciner Stack remains within prescribed norms and submit test report from environmental lab recognised under EP Act, 1986.
2. To make arrangements for sampling port along with necessary facility for proper stack monitoring as per CPCB guidelines.
3. To install CEMS analyser at proper location to ensure submission of representative online stack emission monitoring data for stack attached to boiler.
4. To ensure regular calibration / maintenance of online effluent and emission analysers so as to maintain minimum difference between manual and online data.
5. To prepare plan for utilization of Red Mud and submit the plan.

M/s National Aluminium Company Limited (NALCO), Damanjodi, Koraput, Odisha shall submit compliance to the above directions within 01 month from the date of issue of the directions. In case of failure, the Board will be constrained to initiate action as deemed necessary and appropriate in the circumstances under the Environment (Protection) Act, 1986.


(S.P.S. Parihar)
Chairman

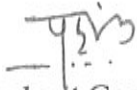


Copy to:

1. The Joint Secretary,
Ministry of Environment, Forests & Climate Change,
Indira Paryavaran Bhavan,
Jor Bagh Road,
New Delhi - 110 003
2. The Member Secretary
Orissa Pollution Control Board,
A-118, Nilakanta Nagar, Unit -VIII,
Bhubaneswar - 751012
3. The Regional Directorate, RD (East)
Central Pollution Control Board
Southend Conclave, Block 502,
5th & 6th Floors,
1582 Rajdanga Main Road,
Kolkata-700107 (West Bengal)

~~4.~~ The Divisional Head, IPC-VI Division

~~5.~~ The Divisional Head, IT Division


(Prashant Gargava)
Member Secretary

