



केन्द्रीय प्रदूषण नियंत्रण बोर्ड
CENTRAL POLLUTION CONTROL BOARD
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय भारत सरकार
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE GOVT. OF INDIA

6270

SPEEDPOST

02/08/2017

To

The Unit Head
M/s Hindustan Copper Limited
(Indian Copper Complex),
P.O. Ghatsila-832303
Dist. Singhbhum(E), Jharkhand

Sub. : Directions under Section-5 of the Environment (Protection) Act, 1986 regarding Non-compliance- Show Cause Notice thereof.

Ref :

- i. CPCB's direction/notice (CPCB/PCI-II/Cu/OMS/5162), dtd. 23/07/2015.
- ii. CPCB's letter no. (CPCB/PCI-II/Cu/OMS/5748), dtd. 06/11/2015.
- iii. CPCB's direction/notice (CPCB/PCI-II/Cu/OMS/18918), dtd. 28/01/2016.
- iv. CPCB's direction/notice (CPCB/PCI-II/Cu/OMS/2994-97), dtd. 25/05/2016
- v. HIL's reply no. R&D/OMS/2016/3934, dtd. 10/06/2016
- vi. HCL's reply no. AGM (ES-W)/FI-1.8/2015-16), dtd. 24/08/2015.
- vii. HCL's letter (AGM (ES-W)/FI-1.8/2015-16), dtd. 23/02/2016.
- viii. CPCB's direction (CPCB/PCI-II/Cu/OMS/6657), dtd. 26/07/2016.
- ix. HCL's reply no. (HCL/D(Op)/ICC/2016-17), dtd. 19/08/2016.
- x. HCL's reply no. (HCL/ICC/POL/2017/4051), dtd. 13/01/2017
- xi. CPCB's direction (CPCB/PCI-II/Cu/OMS/24018), dtd. 02/03/2017

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

WHEREAS, there is need to inculcate habit of self-monitoring within the industries for complying with the prescribed standards and this can be achieved by methods like installing online effluent and emission monitoring devices; and

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

WHEREAS, direction under section-18(1)(b) of the Water (Prevention & Control of Pollution) Act, 1974 and the Air (Prevention & Control of Pollution) Act, 1981 was issued on February 05, 2014 to all the State Pollution Control Boards (SPCBs)/ Pollution Control Committees (PCCs) for installation of online emission monitoring system w.r.t. PM & SO₂ parameters and online effluent monitoring system w.r.t. pH, BOD, COD & TSS in copper industries; and

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Parivesh Bhawan, East Arjun Nagar, Delhi-110032

दूरभाष/Tel : 43102030, 22305792, वेबसाइट/Website : www.cpcb.nic.in

WHEREAS, it was clarified that flow meter & web camera be installed in case of units with zero liquid discharge (ZLD) by March 31, 2015 vide Guidelines dtd. 07.11.2014 as uploaded on website of CPCB; and

WHEREAS, The Ministry of Environment, Forest and Climate Change , 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 under section 5 of the Environment (Protection) Act, 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) Act, 1986 and amendment thereof; and

WHEREAS, to this effect and exercise of powers vested under section 5 of the Environment (Protection) Act, 1986, CPCB had served a number of Notices / Directions to the industry during 2015-2016 as referee above including series of meetings for compliance of the following directions by the industry :

1. The Unit shall submit documentary evidence regarding status of installation of online emission & effluent monitoring system.
2. The Unit shall submit the status on connectivity for submission of online 24x7 monitoring data to SPCBs/PCCs and CPCB.
3. The Unit shall submit the details as per Annexure-I through
 - (a) E-mail id - cems.cpcb@nic.in
 - (b) Uploading the data on the link provided on CPCB Website (www.cpcb.nic.in) and
 - (c) By speed post

to the Member Secretary, Central Pollution Control Board.

WHEREAS, after a long persuasion , the industry had replied vide its letter no. HCL/ICC/POL/2017/4051 dated 13/01/2017 reporting that online monitoring system for both emission and effluent parameters has been installed and data connectivity to CPCB server for emission and effluent parameters has been completed; and

WHEREAS, the response of the industry was examined at appropriate levels in CPCB and in view of the compliance with CPCB's directions and in exercise of powers vested under Section-5 of the Environment (Protection) Act, the closure directions issued to M/s HCL, Ghatsila were revoked on 02.03.2017 with the following conditions :

1. That the industry shall operate only with valid consent under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, & Authorisation under H&OW (M&TBM) Rules, 2016 and

2. That the industry shall ensure continuous data transmission from online emission and effluent monitoring systems to CPCB and SPCB.

WHEREAS, the SMS alerts are supposed to be generated and sent to concerned dealing officer in CPCB as well as in plant whenever concentration of any pollutant exceeds the limit as prescribed. However, in case of M/s Hindustan Copper Limited, Ghatsila, Jharkhand, large number of SMS alerts have been generated during Jan.-March, 2017; and

WHEREAS, in order to verify the compliance and find out the status of online monitoring system, a team from CPCB, Regional Directorate- Central , Bhopal carried out an inspection of M/s Hindustan Copper Limited, Ghatsila, Jharkhand on 17/04/2017 and major observations are as follows:

1. The Plant has installed On-line Monitoring System in all the Five Stacks (excluding one boiler which is non-operative and kept as standby) and also at the Final Effluent Discharge. Online results show that the values are within the Prescribed Limit in case of stacks as well as for effluent.
2. The results of 'Manual Stack Monitoring' and the 'Online Monitoring' are seen with wide variations. Accordingly, there is a need at the level of the plant to get checked the Calibration of the Online Monitoring Unit Systems urgently to find out the faults, if any, for this discrepancy.
3. pH value of treated effluent (10.41) is observed as exceeding the prescribed standard (5.5-9.0).
4. PM emission level in Converter stack (298 mg/Nm³) and Boiler Stack (529 mg/Nm³) are observed as exceeded the prescribed limit (100 mg/Nm³).
5. This Plant has planning to run its boiler by furnace oil instead of Coal in near future.
6. Revenue is generated from selling of solid wastes like granulated slag, cinders and other copper bearing materials. Sulphuric Acid is also sold.
7. Renovation of all Emission Control Systems and introduction of new concentrate burner in Flash Furnace have been made recently for more conversion of metal from Ore.
8. Fugitive Emissions from smelter plant has been seen substantially controlled by plugging of leakages and through cleaning of Duct Line.
9. The plant is recycling the treated water for cleaning purposes and has installed 'Scale Ban System' for reusing the treated water in the process with a plan to achieve Zero Liquid Discharge (ZLD).

10. This unit is recovering Ni from the Ore. This technique is of first kind in Asia.
11. House-keeping inside the premises needs improvement.
12. The port hole on the stack of boiler was seen being used for the 'Online Analyser Probe', leading to possibility of manual monitoring only from the duct at the ground level after ID fan. Another Port hole arrangement should be made immediately, so that the manual stack monitoring can be conducted at laminar zone.
13. The accessibility of port holes in some of the stacks is not proper and creates disturbances in smooth monitoring. Immediate attention is therefore, required by the Plant Management to rectify the shortcoming.
14. The Unit is operating without consent since January 1, 2017. It is informed by the unit that the application for renewal has been submitted to JSPCB (Jharkhand State Pollution Control Board) as per schedule. Similarly, the Unit has neither received Authorization under the H&OW (M&TBM) Rules, 2016 nor any adverse communication from JSPCB till date, resulting in operation of Plant without requisite Consent / Authorization. This matter needs to be addressed at proper forum.

NOW, THEREFORE, based on the observations made by CPCB inspection team and all material facts available with CPCB and in exercise of powers vested under Section-5 of the Environment (Protection) Act, 1986 to the Chairman, CPCB, Notice is hereby served upon to **M/s Hindustan Copper Limited, Ghatsila, Jharkhand** to show cause as to why your plant should not be closed down for the short-comings observed during the inspection by CPCB team as highlighted above. Further, the unit is directed to comply with the following directions on immediate basis :

1. The unit shall not operate without valid Consents under the Water (Prevention & Control of Pollution) Act, 1974 , the Air (Prevention & Control of Pollution) Act, 1981 and the Authorization under the H&OW(M&TBM) Rules, 2016.
2. ETP shall be operated and maintained properly so as to comply with the prescribed standard as the pH value of treated effluent (10.41) has been observed to be exceeding the prescribed standard (5.5-9.0).
3. The air pollution control system attached to various stacks be operated & maintained in a proper manner to control PM emissions as the PM emission level in Converter stack (298 mg/Nm³) and Boiler Stack (529 mg/Nm³) are observed to be exceeding the prescribed limit (100 mg/Nm³).
4. Online monitoring system be calibrated regularly and efforts be made so as to bring the difference between manual and online monitoring values to an acceptable level.
5. General housekeeping be improved.
6. All necessary steps be taken for 100% reuse of treated effluent so as to achieve zero liquid discharge.

M/s Hindustan Copper Limited, Ghatsila, Jharkhand shall submit its reply and action taken report by 18.08.2017 failing which it shall be presumed that the unit has nothing to say in this matter and action as deemed fit as per the provisions of the Environment (Protection) Act, 1986 be launched.



(S.P. S. Parihar)
Chairman

04/08/2017

Copy to:

1. The Chairman : with request to ensure compliance
Jharkhand Pollution Control Board,
T.A Building, HEC, P.O. Dhurwa,
Ranchi - 834004
2. The Additional Secretary(AKM) -CP Division
Ministry of Environment, Forest and Climate Change
Indira Paryavaran Bhawan,
Jorbagh Road
New Delhi - 110003
3. The Regional Directorate, RD-(East) : with request to ensure compliance
Central Pollution Control Board
Southend Conclave, Block 502,
5th & 6th Floors,
1582 Rajdanga Main Road,
Kolkata-700107 (West Bengal)
4. The Divisional Head, CPCB IT division
CPCB, Delhi



(A. B. Akolkar)
Member Secretary

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