



केन्द्रीय प्रदूषण नियंत्रण बोर्ड
M/s Satya Power and Ispat Ltd., Bilaspur, Chhattisgarh
CENTRAL POLLUTION CONTROL BOARD
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय भारत सरकार
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE GOVT. OF INDIA

SPEED POST

CPCB-B 33014/293 (Iron & Steel)/2017/IPC-II/ 8729

July 26, 2017

To

M/s Satya Power and Ispat Ltd.,
Belpan, Tahsil,
Masturi, Bilaspur,
Chhattisgarh - 495550

Sub: Directions under Section 5 of the Environment (Protection) Act, 1986.

WHEREAS, integrated Iron & steel plants and sponge iron units 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;

WHEREAS, the Central Government has notified the standards for discharge of environmental pollutants from various categories of industries under the Environment (Protection) Act, 1986 and the rules framed there under;

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 the methods like installing online effluent and emission monitoring devices;

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';

WHEREAS, a 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 and SO₂ parameters & online effluent monitoring system w.r.t. pH, flow, BOD, COD and TSS in iron & steel industries;

WHEREAS, considering the requests/ representations received from industries/ industrial associations/ SPCBs / PCCs, an extension of time up to June 30, 2015 for installation of online monitoring systems was granted vide directions dated March 02, 2015 under section 18 (1) (b) of the Water (Prevention & Control of Pollution) Act, 1974 and the Air (Prevention & Control of Pollution) Act, 1981;

WHEREAS, concerned SPCB / PCC issued directions under section 33A of the Water (Prevention & Control of Pollution) Act, 1974 and section 31A of the Air (Prevention & Control of Pollution) Act, 1981 to install the online monitoring system by June 30, 2015 and submit bank guarantee of 100% of the cost of online emission & effluent monitoring system;

WHEREAS, the 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

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for violations of the standards and rules notified under the Environment (Protection) Rules, 1986 and amendment thereof; and

Whereas, a team of officials from CPCB-Regional Directorate (Bhopal) inspected M/s Satya Power and Ispat Ltd., Masturi, Bilaspur, Chhattisgarh during 31.05.2017 to 01.06.2017 and made the following observations:

- The unit is manufacturing Sponge Iron (60000 TPA) using DRI Kiln (2 x 100 TPD) with consent to operate under Water/Air Acts valid up to 31.8.2017. HW authorization is yet to be obtained. The main raw materials are iron ore pellets, coal and dolomite.
- The two kilns are connected to a common stack (50 m height) through separate ESP for controlling particulate matter emission. Stack emission monitoring showed PM of 42 mg/Nm³ and SO₂ of 48 mg/Nm³ and found to be within the limit. The stack emission monitoring platform roads were found corroded and broken at some places.
- The unit installed online emission monitoring system for PM and SO₂ and connected to CPCB/CECB servers but results could not be transmitted to servers since 24.9.2016 due to faulty spares and maintenance problem leading to 'offline' status. Protocol for calibration / maintenance of online emission monitoring system is yet to be prepared.
- Fugitive emission monitored at cooler discharge (kiln) area, raw material handling area, coal crusher area and product house area showed values of 1538 ug/m³, 2905 ug/m³, 3378 ug/m³ and 1265 ug/m³ respectively. The values were within the prescribed limit of 2000 ug/m³ at two places and exceeded the limit at other two areas.
- Dust from ESP and Bag filters are collected in pits and sold to brick manufactures or used for filling low lying areas. Water was sprayed manually in ESP dust collection pit and no water sprayed in the bag filter pit which might cause fugitive emission during heavy wind blow.
- The unit uses 64 KLD of water for cooling purpose and the water is fully recycled through recirculation tank and cooling tower. The wastewater generated from cooler discharge and cooling tower blow-down is collected in neutralization/settling pit and used for dust suppression and gardening purpose.
- Wastewater sample collected from the cooler/wet scrubber discharge point showed pH of 7.82, TSS of 75 mg/l, COD of 54 mg/l and Oil & Grease of 3.4 mg/l and found to be within the prescribed limits.
- The industry is maintaining ZLD and the online flow meter and web camera are yet to be installed by the industry.
- Housekeeping was very poor at raw material feed area, kiln feed area, cooler discharge point, product discharge area and product loading area.

NOW, THEREFORE, in exercise of powers vested under Section 5 of the Environment (Protection) Act, 1986, the following directions are being issued:

- To ensure that online emission and effluent monitoring system be connected to CPCB/CECB servers immediately and also to adopt the protocol for calibration of sensors.
- To install web camera and flow meter at the wastewater storage/settling tank outlet.
- To operate water sprinklers installed at material transfer point areas to control fugitive emission within the limits.
- To maintain records of ash/dolo-char generation and its disposal.
- To improve housekeeping at raw material feed area, kiln feed area, cooler discharge point, product discharge area and product loading area and ensure that the fugitive emission meets the prescribed limits.
- To make arrangement to collect the ESP/Bag filter dust pneumatically by installation of Silos to collect the dust and to control the fugitive emission.

- To utilize fine dust collected from APCDs (ESP, Bag filters, etc) for bricks/briskets manufacturing instead of disposing in low lying areas.
- To apply for HW authorization to CECB and comply the conditions.
- To monitor source emission and ambient air quality quarterly and submit report to CPCB and CECB.

The Unit M/s Satya Power and Ispat Ltd., Masturi, Bilaspur, Chhattisgarh shall submit the compliance report within 15 days for the above directions from the date of issue of this direction letter. Failure to comply with the above directions will attract action in accordance with the provision of the Environment (Protection) Act, 1986 and the National Green Tribunal Act, 2010.



(S.P. Singh Parihar)
Chairman

08/08/2017

Copy to:

1. **The Chairman**
Chhattisgarh Environment
Conservation Board Commercial
Complex,
Chhattisgarh Housing Board Colony
Kabir Nagar, Raipur (C.G.) : With request to ensure compliance of
this direction & to submit action taken
report
2. **The Joint Secretary (CP Division)**
Ministry of Environment, Forests &
Climate Change : For information please.
Prithvi Wing, 2nd Floor, Room No. 216
Indira Paryavaran Bhawan
Aliganj, Jor Bagh Road, New Delhi -
110003
3. **The Regional Director (Central)**
Central Pollution Control Board : For information please.
4th Floor, Sahkar Bhawan
North T.T. Nagar
Bhopal - 462 003
4. **The Divisional Head IT Division,**
CPCB, Delhi
5. **The Divisional Head, IPC - VI,**
CPCB, Delhi



(A.B. Akolkar)
Member Secretary

