

CPCB-B 33014/47/2017/IPC-II/ 578

**SPEED POST**  
April 16 2018

**To**

**M/s Tata Steel Ltd.**  
TISCO, Jamshedpur  
JSR (Jharkhad State Road),  
Jharkhand-831001,

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

**Ref.:**

1. Show Cause Letter No. CPCB-B-33014/47/2017/IPC-II/15193, dated 05.12.2017
2. CPCB Letter No. CPCB/B-33014/47/2017/IPC-II/15717, dated 03.01.2018, email dated 10.01.2018 and industry reply through email dated 03.04.2018 and 06.04.2018.

WHEREAS, integrated iron and 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; and

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; 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 the 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, 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 SO<sub>2</sub> parameters & online effluent monitoring system w.r.t. pH, flow, BOD, COD and TSS in iron & steel industries; and

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; and

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; and

WHEREAS, during monthly verifications of OCEMS data by the CPCB IT division it is observed that the unit remains one of the top non-complying units with respect to exceedance SMS alerts/Offline status during April to May 2017; and

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M/s Tata Steel Ltd. TISCO, Jamshedpur, Jharkhand

WHEREAS, the unit was inspected by CPCB - Regional Directorate (Kolkata) on 23.08.2017 to 25.08.2017 to check the compliances and following observations have been made;

1. CTO dated 27.12.2016 is valid up to 31.12.2021 to manufacture Crude Steel (11 MTPA). HW authorization dated 14.3.2014 is valid up to 31.12.2018.
2. The manufacturing activities include coke making in by-products recovery type coke ovens, sintering of iron ore fines in sintering plant, pelletizing of iron ore fines in pelletization plant, iron making in Blast Furnace, steel making in Basic Oxygen Furnace, continuous casting of liquid steel into billets, rolling of billets into HR coils and CR coils and lime calcination plant.
3. There are **99 stacks and 5 ETP outlets as information provided by the industry**. As per IT Division report dated 3.10.2017, **26 stacks and 5 ETP outlets are connected to OCEMS. Many stacks attached to BF, BOF, rolling mill, and Power Plant are not yet installed with OCEMS.**
4. Sack emission was monitored from 3 stacks, i.e. Coke Oven Battery-9, Sinter Plant (Waste Gas) -1 and Sinter Plant-2 (Waste Gas). **PM emission from Sinter Plant -1 (170 mg/Nm<sup>3</sup>) and Sinter Plant-2 (183 mg/Nm<sup>3</sup>)** were not meeting the prescribed standard of 150 mg/Nm<sup>3</sup>, indicating inadequate APCDs.
5. Online PM emission values (Sinter Plant-1: 12.8 mg/Nm<sup>3</sup>; Sinter Plant-2: 11.9 mg/Nm<sup>3</sup>; Coke Oven battery-9: 18.3 mg/Nm<sup>3</sup>) **observed at the time of inspection were found less than the lab results.**
6. **OCEMS installed at various stacks/ETP outlets are not working properly and all the online monitoring analysers are to be calibrated / operated / maintained properly and regularly.**
7. **Very high level of fugitive emission** was noticed in the Sinter Plant including poor house-keeping.
8. **Industry takes water from Subarnarekha river for industrial and domestic uses. Effluent generated from the industry (86129.5 m<sup>3</sup>/hour) is treated through different ETPs (18 nos.) before discharging into 5 catch pits (Susungaria Catch pit, HSM Catch pit, Garam Nala Catch pit, Jugsalai catch pit, Ram Mandir catch pit). Three catch pits (Susungaria Catch pit, HSM Catch pit, Garam Nala Catch pit) are draining the treated/stored effluent into Subarnarekha river and Kharkai/ Jayanti river.**
9. Effluent samples were collected / analysed from all 5 catch pits and ETP inlet and outlet of BOD Plant. The analysis report showed that the quality of **Susungaria catch pit (CN= 0.6 mg/l) and HSM catch pit (BOD=38 mg/l, O&G=23.1 mg/l) were not meeting the effluent discharge standards and BOD plant ETP outlet (pH=10.1, BOD=33 mg/l, CN = 6.2 mg/l) also exceeded the standards.**

WHEREAS, the OCEMS installation / connectivity verification report dated 03.10.2017 of IT division indicated that OCEMS is not installed and connected in many stacks for required parameters as per CPCB guidelines out of 99 stacks reported by the unit.

WHEREAS, in view of large non-compliance in respect of OCEMS installation / connectivity, the details of OCEMS installation / connectivity was sought from unit itself vide letter dated 27.10.2017 to confirm the non-compliance status.

WHEREAS, the unit replied vide email dated 22.11.2017 and provided details of stacks where OCEMS has been installed and connected as well as where it is yet to be installed and connected, which indicated that many stacks are not connected as per CPCB guideline out of 99 stacks reported by the unit (copy enclosed).



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

WHEREAS, in view of above and in exercise of powers vested under Section 5 of the Environment (Protection) Act, 1986 M/s Tata Steel Ltd. TISCO, Jamshedpur, Jharkhand are hereby directed to show cause why the operation of unit be not closed unless you comply with the followings:

- (i) The unit shall stop operation of all such processes, stacks of which OCEMS is not yet installed and connectivity not provided as per CPCB guidelines. Industry shall install online effluent and emission monitoring system in all these stacks as per CPCB guidelines and connect to CPCB/SPCB servers.
- (ii) The unit shall upgrade / improve the air pollution control devices attached to various process activities so as to meet the prescribed emission standard where the emission has been found exceeding standards and submit documentary evidence in this regard within 15 days.
- (iii) The unit shall upgrade / improve the ETPs attached to various process so as to meet the prescribed effluent discharge standards as the ETP / effluent discharge has been found exceeding standards and submit documentary evidence in this regard within 15 days.
- (iv) The unit shall install analyser for Temperature in the effluent outlet of ETP within 15 days.
- (v) The unit shall explain the reasons for not installing analyser for phenol and cyanide.
- (vi) The unit shall calibrate and maintain online emission/effluent monitoring system regularly so as to generate reliable / continuous data for transmission to CPCB/SPCB and submit documentary evidence in the reference.

WHEREAS, compliance report from the industry vide letter No. EMD/CO1/203/17, dated 18.12.2017 in response to aforesaid Show Cause Notice direction, is partial / incomplete.

WHEREAS, vide CPCB letter No. CPCB/B-33014/47/2017/IPC-II/15717, dated 03.01.2018 and email dated 10.01.2018 in which industry was asked to submit detail information about OCEMS at stacks attached to different process as per CPCB guideline.

WHEREAS, reply has been received from the unit vide email dated 03.04.2018 and 06.04.2018 in reference to the aforesaid CPCB letter dated 03.01.2018 and email dated 10.01.2018.

WHEREAS, as per final compliance report dated 06.04.2018 of the unit, out of 101 stacks, CEMS is required on 89 stacks (out of which 1 stack, Blast Furnace-D stove, is closed); and CEMS has been installed in 50 stacks (Coke Oven: 9; Sintering Plant + Pellet Plant: 8+6; Blast Furnace: 7; Steel Making Shop: 10; Lime Plant:7; and Captive Power Plant: 3), CEMS is partial or installed but not connected to CPCB in 18 Stacks (Blast Furnace: 5, Steel Making Shop: 10, Lime Plant: 1 and Captive Power Plant:2), and CEMS is yet to be installed in 21 stacks (Blast Furnace: 5, Rolling Mills: 12 and Captive Power Plant: 4) and CEMS for effluent has been installed.

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

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NOW, THEREFORE, in exercise of powers vested under Section 5 of the Environment (Protection) Act, 1986 M/s Tata Steel Ltd. TISCO, Jamshedpur, Jharkhand hereby directed to to comply with following measures:

- (1) The unit shall complete installation and connectivity of partial CEMS / CEMS under process of connectivity in respect of 18 Stacks (Blast Furnace – 5; Steel Making Shop – 10; Lime Plant – 1; Captive Power Plant -2) within 2 months.
- (2) The unit shall not operate all such stacks in which CEMS is not yet installed.

The unit M/s Tata Steel Ltd. TISCO, Jamshedpur, Jharkhand Shall submit the compliance within 15 days from the issue of these directions. The industry shall not re-start its stopped operation without written permission of CPCB. Failure to comply with the above directions will attract action in accordance with the provision of the Environment (Protection) Act, 1986 including closure.

[S.P. Singh Parihar]  
Chairman

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**Copy to:**

1. **The Chairman** : With a request to ensure compliance of this direction & to submit action taken report  
Jharkhand State Pollution Control Board  
T.A. Bldg., HEC, P.O. Dhurwa,  
Ranchi – 834004,
2. **The Additional Secretary (AKM), CP Division** : For information please.  
MOEFCC, Prithvi Wing, 2nd Floor, Room No. 216,  
Indira Paryavaran Bhawan,  
Jor Bagh Road, New Delhi – 110003
3. **The Regional Director (East)** : For information please.  
CPCB, Southend Conclave, Block 502, 5th &  
6th Floors, 1582  
Rajdanga Main Road,  
Kolkata-700107.
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5. **The Incharge, I/c IPC-VI CPCB, Delhi.**

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[A. Sudhakar]  
Member Secretary

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