



TELANGANA STATE POLLUTION CONTROL BOARD

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BY REGD. POST WITH ACK. DUE

Order No. MDK-284/TSPCB/UH-V/2020- 532

Dt:03.08.2020

Sub :	TSPCB - M/s Cauvery Iron & Steel India Ltd., Sy. Nos. 34 - 38, 40, 42 - 45, 47, 49, 72, 572, 645, 646, 647, 650, 651, 655, 656, 662, 679, 680, 681, 686 - 692, 697 - 699 & 700, Khajapoor (V), Shankarampet (R) (M), Medak District - Water (Prevention and Control of Pollution) Amendment Act, 1988 and Air (Prevention and Control of Pollution) Amendment Act, 1987 - Complaint received regarding air & water pollution in the surrounding area - <u>DIRECTIONS - ISSUED</u> - Reg.
Ref :	1. CFO Order No. TSPCB/12760/RCP/MDK/CFO/HO/2016-2619, Dt 16.02.2016. 2. CFO Order No. TSPCB/RCP/HO/CFO&HWM/2019 Dt.04.06.2019. 3. Twitter complaint Dt.12.07.2020 made by Sri Vinay Sagar Revelli, R/o Ramayampet village against the industry regarding Air & water pollution in the surroundings by the industry. 4. Inspection of the industry and its surroundings by the Board Officials on 14.07.2020.

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- WHEREAS**, you are operating the industry located at Sy. Nos. 34 - 38, 40, 42 - 45, 47, 49, 72, 572, 645, 646, 647, 650, 651, 655, 656, 662, 679, 680, 681, 686 - 692, 697 - 699 & 700, Khajapoor (V), Shankarampet (R) (M), Medak District and is involved in manufacture of Sponge Iron, MS Billets, TMT Bars and Power Generation.
- WHEREAS**, vide reference 1st cited, the industry has obtained separate CFO (Renewal) vide order dt:16.02.2016 to manufacture Sponge Iron - 300 TPD, MS Billets - 400 TPD and Power Generation - 15 MW valid for a period up to 30.11.2020.
- WHEREAS**, vide reference 2nd cited, the industry has obtained separate CFO (Renewal) vide order dt 04.06.2019 to manufacture TMT Bars (8 mm to 32 mm) valid for a period up to 30.11.2020.
- WHEREAS**, vide reference 3rd cited, the Board has received Twitter complaint Dt.12.07.2020 made by Sri Vinay Sagar Revelli, R/o Ramayampet village against the industry regarding Air & water pollution in the surroundings by the industry.
- WHEREAS**, vide reference 4th cited, the Board Officials inspected the industry and its surroundings on 14.07.2020 and following the non-compliance were observed:
 - The industry has installed and operating 45 TPH FBC Coal fired boiler against the consented 27 TPH FBC Coal fired boiler with Air preheater, Economizer followed by Electrostatic Precipitator (3 Nos of fields) as Air pollution control equipment with separate energy meter.
 - The industry has provided common chimney to 2 x 100 TPD Rotary kilns & 45 TPH FBC Coal fired boiler and separate chimney to 1 x 100 TPD rotary kiln. The industry has provided Online Continuous Stack Emission Monitoring System (OCSEMS) for the chimney connected to 2 x 100 TPD Rotary kilns & 45 TPH FBC Coal fired boiler and connected the same to TSPCB server. The industry has not provided the OCSEMS to Chimney connected to Kiln-III. The industry has provided pneumatic system with Dust collection silo for collection of flue gas dust.
 - The industry has not provided Activation Recorder with recording system for recording opening of After Burner Chamber (ABC) cap in the PLC of the Kilns.

4. The industry has provided suction hoods followed by bag filters to Iron ore crusher, Coal crusher, Transfer point of Coal crusher, Stock house, Cooler Discharge (3 Nos), Intermediate bin, Transfer point of Intermediate bin, Product house, Coal crusher of FBC boiler, Transfer point of Coal crusher of FBC boiler to control fugitive dust emissions. It was observed that, the industry has not connected bag filters to one transfer point in Coal crusher circuit of FBC boiler.
5. During inspection, the industry is not operating the iron ore circuit as the industry is procuring the Iron ore pellets of required size and feeding them directly into Kilns. The bag filter connected to coal crusher is not in operation.
6. The industry is carrying out sieving of boiler bed material in the vibrator screen under partially closed shed causing fugitive emissions. The MS sheets provided for covering of transfer points and Coal crusher, Intermediate bin, Stock house, product house, Raw material storage shed and also MS Sheets provided on conveyor belts carrying raw material, products were observed to be damaged causing fugitive dust emissions in the surroundings.
7. The handling of the dust generated from APCE is poor due to which the accumulation of dust at the bottom of the bag filters was observed causing fugitive dust emissions in DRI Plant area.
8. On enquiry about twitter complaint regarding huge black smoke emissions from the industry on 11.07.2020. The industry representative has informed that, due to thermal shock induced by heavy rains on 11.07.2020, the dust accumulated on the walls of ABC chamber of Rotary Kiln -II dropped down suddenly in the wet scrapper tank provided to hold 5.0 Tons of the dust. About 15-20 tons of dust dropped in the said tank which caused heavy plume of black smoke emissions into atmosphere.
9. The industry has installed and operating 2 x 15 MT of induction furnaces for manufacturing of MS billets and provided primary revolving hood connected to Cyclone dust collector followed by Bag filter connected to common chimney to control the emissions. During inspection, emissions were observed from top of the SMS shed indicating the suction capacity of the primary extraction system is insufficient. The industry has to provide Secondary hoods to the induction furnace shed for effective control of emissions.
10. Painted/Plastic containing scrap was observed in the scrap stacked beside the Furnace. The industry is feeding the same into induction furnace without segregating the Painted/Plastic from the scrap causing dust emissions.
11. The industry is having 20 TPH Coal fired reheating furnace against consented Furnace oil fired furnace in Rolling mill section and provided 1 No of Coal pulveriser with inbuilt bag filters for reheating of Billets. During inspection, 20 TPH Coal fired reheating furnace is not in operation and carrying out hot charging of billets into rolling mill.
12. About 400 tons of Crushed slag and about 100 Tons of unprocessed slag were stored onground openly causing fugitive emissions.
13. The industry has not provided water meters to assess actual waste water generation and disposal.
14. The industry has not laid concrete flooring at vehicle parking area due to which during movement of heavy vehicles fugitive dust emissions causing air pollution in surroundings.
15. The industry has not installed Continuous Ambient Air Quantity Monitoring (CAAQM) stations.
16. The Board Officials conducted stack and ambient air quality monitoring and on 14.07.2020. The analysis result are as given below:

a. Ambient Air Quality Monitoring:

S. No	Sample location	Result	Standard limit (ug/m ³)
		RSPM (ug/m ³)	
1.	At the periphery of the industry near HR Office (Up wind direction)	82	100.0
2.	At the periphery of the industry after weighbridge (Downwind direction)	178	100.0

b. Stack Monitoring:

S.No	Sample location	Result SPM (mg/Nm ³)	Standard limit. (mg/Nm ³)
1	Common Stack attached to Kilns – I & II and 45 TPH Coal fired FBC boiler	81.0	50.0
2.	Common Stack attached to 2 x 15.0 MT induction furnaces	62.0	50.0

6. **WHEREAS**, after careful consideration of the material facts of the case, the Board hereby issues **the following directions to your industry to comply within one month:**

1. The industry shall comply with all the CFO conditions issued by the Board.
2. The industry shall not operate 45 TPH FBC coal fired boiler without prior permission of the Board.
3. The industry shall provide the online stack monitoring system with PLC recording facility to kill-III and shall be connected to the Website of TSPCB within one month.
4. The industry shall provide Activation Recorder with recording system for recording opening of After Burner Chamber (ABC) cap in the PLC of the Kilns.
5. The industry shall provide bag filter to all transfers points to control fugitive emissions and ensure that there is no air pollution / dust nuisance in the surrounding areas.
6. The industry shall regularly maintain/renovate / replace all damaged and openings of claddings at conveyor belts, all transfer points, crusher house, screen house, Stock House etc.
7. The industry shall provide dust suppression system at all discharge and feed points.
8. The dust collected from the APC shall be collected in wet condition and the same shall be removed mechanically to control fugitive emissions.
9. The industry shall operate / maintain a) IP Camera installed to the ABC cap b) Continuous online stack monitoring system attached to Kiln stacks and ensure that the data transmission from online emission monitoring systems to CPCB and SPCB shall be continuously.
10. The industry shall avoid tripping of ESP due to power fluctuations and also restore alternate power source with generator during power failure to running the Air Pollution Control Equipment.
11. The industry shall maintain records of power consumption of APCEs separately.
12. The industry shall operate the water sprinklers at all the dust generation sources and ensure that no dust is spread into the surrounding areas.
13. The industry shall maintain good housekeeping & develop/maintain green belt in all the vacant places within the factory premises.
14. The industry shall provide secondary fume extraction system followed by bag filter to induction furnaces
15. The industry shall not use painted / plastic scrap as a raw material under any circumstance.
16. The industry shall store slag/ crushed slag in the closed shed to control fugitive emissions.
17. The industry shall maintain flow meter records of water of water consumption from Borewells and shall also maintain records of water consumption for process.
18. The industry shall provide concreting / Asphaltting of the internal roads to control fugitive emissions.
19. The industry shall install 4 Nos. of IP Cameras with TILT Zoom facility at 4 corners of the premises and connect to TSPCB website within one month.
20. The industry shall comply with stack emissions and National Ambient Air Quality standards.

7. These directions are issued under Sec.33 (A) of Water (Prevention and Control of Pollution) Amendment Act, 1988, under Sec. 31 (A) of Air (Prevention and Control of Pollution) Amendment Act, 1987 and under Sec.5 of Environment (Protection) Act 1986.

8. The above mentioned directives shall be implemented by the industry, failing which legal action will be initiated against your industry under Sec.33 (A) of Water (Prevention and Control of Pollution) Amendment Act, 1988 and under Sec. 31 (A) of Air (Prevention and Control of Pollution) Amendment Act, 1987 and under Sec.5 of Environment (Protection) Act 1986 directing closure of the industry in the interest of Public Health and Environment.


**Sd/-
MEMBER SECRETARY**

**To
M/s Cauvery Iron & Steel India Ltd.,
Khajapoor (V), Shankarampet (R) (M),
Medak District.**

Copy to:

1. The JCEE., Z.O., R.C.Puram for information and necessary action.
2. The Environmental Engineer Regional Office, RC Puram for information and necessary action. He is directed to inspect the industry for monitoring the industry for compliance of the above directions and submit status report.
3. Concerned file.

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


Senior Environmental Engineer (FAC)

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