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

SPEED POST

HO/ISP/IPC2-327/ 2019/ 6226

September 03, 2019

To

M/s. Srikalahasthi Pipes Pvt. Ltd.,
Rachagunneri (v), Srikalahasthi (M)
Chittor, Andhra Pradesh

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

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;

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 and online effluent monitoring system 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;

'परिवेश भवन' पूर्वी अर्जुन नगर, दिल्ली-110032
Parivesh Bhawan, East Arjun Nagar, Delhi-110032
दूरभाष/Tel : 43102030, 22305792 वेबसाईट/Website : www.cpcb.nic.in

WHEREAS, for installation and connectivity of the On-line Continuous Emission and Effluent Monitoring System (OCEMS) relevant guideline(s) prepared by CPCB vide "Guidelines for Real-time Effluent Quality Monitoring System" published on 07.11.2014 and "1st Revised Guidelines for Continuous Emission Monitoring Systems August 2018"; and

WHEREAS, the unit was inspected by CPCB - Regional Directorate (Bangalore) during 18.07.2019 to 20.07.2019 in view of large number of offline CEMS / standard exceedance alerts and following shortcomings (summarily) has been observed:

- The manual emission monitoring has been carried out in the stacks attached with the CEMS. Among the monitored value SO2 (905 mg/Nm3 compared to standard 200 mg/Nm3) values in VSK (cement plant); PM (101 mg/Nm3 compared to standard 100 mg/Nm3) values in Raw mill (cement plant); PM (646 mg/Nm3 compared to standard 100 mg/Nm3) values in Sintered Head ESP; PM (345 mg/Nm3 compared to standard 100 mg/Nm3) values in Mg Converter de-dusting-2 are not complying with the stipulated standards.

- Unit has not installed proper fugitive emission control system in induction furnaces and Magnesium converter. Preheating of the metal holding hopper is done openly without any emission control system.

- The unit is achieving ZLD and normally no effluent is discharged. However, coloured / contaminated rain water was seen in storm water drain. Industry is required to treat and reused the seepage water generated from the raw material stock yard and provide separate proper drainages for seepage and storm water collection. Industry is required to remove the sludge/solid deposited in the storm water drain and avoid carryover of material in storm water and to ensure no water discharged without treatment.

- OCEMS is not installed in 15 TPH boiler (2.5 MW power plant), Annealing furnace 1 & 2, Zinc coating de dusting system 2 & 3, 25 TPH & 16.2 TPH boiler connected to coke oven 3rd & 4th battery, and in all induction furnaces (a detail of CEMS related non-compliance enclosed).

- Flow meters and cameras should be install and connected to the CPCB for ZLD process. Unit is required to ensure no seepage water is discharged without CEMS as per the CPCB guidelines.

- The stipulated standards of SO2, NOx in reference to VSK (cement plant), BF Stove and boiler(s) stacks of coke oven plant(s), CO in reference to BF stove are not mentioned in Consent order. Whereas, standards of PM in reference to BF Stove and boiler(s) stacks of coke oven plant(s) are relaxed as compared to the existing National standars in Consent order.

- The PM parameter was not monitored in the stacks attached with VSK Kiln and 2x 23.7 TPH boiler connected with coke oven 1 & 2 battery because of port hole is provided near to disturbance point (CEMS wherever installed near to the disturbance point needs to be relocated at the appropriate location). Unit should replace the monkey ladder provided in the stacks, since the port hole for monitoring is too high and also to check & maintain the OCEMS system regularly.

- Industry is required to provide proper slag removal system and proper shed for raw material storage yard.

WHEREAS, the inspecting team observed that the emission OCEMS is not fully compliant to new guidelines; and

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.

NOW, THEREFORE, in view of gross violation of emission standard posing serious threat to environment and in exercise of powers vested under Section 5 of the Environment (Protection) Act, 1986 M/s. Srikalahasthi Pipes Pvt. Ltd., Rachagunneri (v), Srikalahasthi (M), Chittor, Andhra Pradesh is hereby directed to stop operation of Vertical Shaft Kiln (VSK) immediately and to show cause as to why the operation of the iron and steel plant be not stopped.

The unit M/s. Srikalahasthi Pipes Pvt. Ltd., Rachagunneri (v), Srikalahasthi (M), Chittor, Andhra Pradeshis given an opportunity to submit its compliance and reply within 15 days failing which appropriate action as deemed fit under the provisions of Environment (Protection) Act, 1986 will be intimated against your unit without any further notice.

[S.P. Singh Parihar]
Chairman

Copy to:

1 **The Joint Secretary, CP Division**
MOEFCC, Prithvi Wing, 2nd Floor,
Room No. 216, Indira Paryavaran Bhawan,
Jor Bagh Road, New Delhi – 110003
: For information please.

2 **The Chairman**
A P Pollution Control Board
Paryavarana Bhavan
A-III, Industrial Estate, Sanath Nagar
Hyderabad – 500018
: With a request to ensure compliance of this direction & to submit action taken report.

3 **The Regional Director (Bengaluru)**
Central Pollution Control Board
1st & 2nd Floors, Nisarga Bhavan
A-Block, Thimmaiah Main Road
7th D Cross, Shivanagar,
Bengaluru –560 079
: For information please.

4. **The Incharge**, IT Division, CPCB, Delhi.
: with a request to change standards in CPCB server as given in page 9 of inspection report (copy enclosed).

5 **The Incharge**, IPC-VI CPCB, Delhi.
: For information please.

(Prashant Gargava)
Member Secretary

- Emission monitoring was carried out in the stacks attached with OCEMS. PM was not monitored in the stacks attached to vertical kiln (cement) and (2 x 23.7 TPH) Boiler connected with coke oven 1&2 Battery because the port hole provided is near to the disturbance point, which is not as per emission regulation part III.

Table 1: Analysis Result

Sl No.	Stack Details	Parameters (mg/Nm^3)		Standards (mg/Nm^3)
1.	Vertical Kiln	PM *	-	100
		SO_2 **	**905**	200 ##
		NO_2 **	99	500 ##
2.	Raw Mill	PM	**101**	100
3.	Cement Mill	PM	7	100
4.	Slag Drier	PM	22	100
5.	Sintered Head ESP	PM	**646**	100***
6.	Sintered Tail ESP	PM	14	100***
7.	BF Stove	PM	33	50 #
		PM	28	250 ##
		PM	13	150 ##
8.	Flux crushing	PM	11	100
9.	Cast house de dusting	PM	6	100
10.	Induction furnace	PM	25	50***
11.	Mg convertor de dusting - 1	PM	26	100
12.	Mg convertor de dusting - 2	PM	**345**	100
13.	Zn coating de dusting - 1	PM	92	100
14.	15 TPH Boiler	PM	6.4	100
15.	Boiler stack attached to coke oven plant	PM*	-	50 #
		SO_2	28	800 ##
		NO_2	13	500 ##

* monitoring not carried out because port hole not available as per emission regulation part III
** Values are with 10% O_2 correction factor
*** Consented Standards by APPCB stringent than MoEF&CC notified standards.
# Standards notified by MoEF&CC stringent than APPCB consented standards.
Standards notified by MoEF&CC not consented by APPCB.

- The analysis results shows that SO_2 in vertical kiln and PM in Raw mill, Sintered Head ESP & Mg convertor de dusting – 2 are not meeting the standard prescribed norms.

CENTRAL POLLUTION CONTROL BOARD
Regional Directorate (South)
Bengaluru

01.	Name and complete Postal Address of the industry.	M/s Srikalahasthi Pipes Ltd. Rachagunneri (Village), Srikalahasthi (Mandal) Chittoor (Dist.)-517641	
02.	Contact Person with Telephone / Fax / E-mail.	Sh. S. Sreenivasulu Jt.GM (Uti., Env.,STP & PP) sreenivasulu@srikalahasthipipes.com Cell: 9849635063 Sh. G. Jothi, Manager (Environment) environment@srikalahasthipipes.com Cell: 9849635316	
03.	Year of commissioning	Pig Iron Division – 1993 Cement Division - 1995 Spun pipe division -1997 COP Division (LAM Coke) -2004 Captive power plant – 2005 STP- 2012	
04.	Category of industry	Iron and Steel and Cement	
05.	Installed capacity.	Pig iron - 3,50,000 TPA CI/DI spun pipes - 3,50,000 TPA Cement (PSC/OPC/SRC) - 99,000 TPA LAM Coke - 2,80,000 TPA	
06.	Status of consent & Authorization (validity).	APPCB/KNL/TPT/391/HO/CFO & HWA /2017-153 dt : 17.11.2017 - Validity up to 31.01.2023. APPCB/KNL/TPT/391/HO/CFO & HWA/2018 dt : 28.05.2018 – Validity up to 30.06.2023	
07.	Product & By Product manufactured in TPA.	Products (TPA)	By Products
		Pig Iron - 3,50,000	BF Slag – 10000 TPM BF Gas- 56,000 m^3/hr
		Ductile Iron Pipe -3,50,000	Nil
		Cement (PSC/OPC/SRC) - 99,000	Nil
		LAM Coke – 2,80,000	Coke Fines – 1500 TPM Waste heat from Coke oven flue gas