Memorandum No. 511-WPBA/Red(BWN)/Cont(669)/10 (Part-III)

Date: 03/06/2016

WEST BENGAL POLLUTION CONTROL BOARD
( Department of Environment, Govt. of West Bengal )
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WHEREAS, M/s. Shyam Sel & Power Ltd. (hereinafter referred to as the industry) located at Vill.-Dhasna, P.O.- Bahadurpur, P.S.- Jamuria, Dist.- Burdwan, Pin-713 362 is an integrated mini steel plant having sponge iron and ferro alloy manufacturing unit. The industry has 2X300 TPD, 2X100 TPD and 2X90 TPD Rotary Kiln for producing sponge iron, 4X10 TPH and 2X38 TPH Waste Heat Recovery Boiler (WHRB) and 1X54 TPH AFBC Boiler and 1X135 TPH CFBC Boiler producing a total of 64 MW Captive Power, 2X4.5 MVA, 4X9 MVA Submerged Electric Arc Furnace (SEAF) for producing Silico Manganese 460 MT/month, Ferro Manganese 2700 MT/month. The industry has also Induction Furnace 4X5 MT/heat for producing Steel ingots/billets 5400 MT/month, Rolling Mill 4584 MT/month, Structural Mill 4000 MT/month and Iron Ore Pelletisation Plant 10000 MT/month. The Rotary Kilns are provided with WHRBs and ESP along with pneumatic ash conveying system and separate stack. The 4X5 MT Induction Furnaces are provided with Bag Filter. The SEAFs are provided with Bag Filter. AFBC Boiler is provided with ESP and stack, CFBC Boiler provided with ESP and connected to a stack of height 90m from G.L. and the pelletisation plant is equipped with ESP.

AND WHEREAS, a public compliant received by the West Bengal Pollution Control Board (hereinafter referred to as the Board) against the industry from local villagers for causing severe environmental hazards in the locality. The complainants have alleged that nearby ponds are polluted due to discharge from the industry hampering fish cultivation. They have also complained about severe air pollution in the locality.

AND WHEREAS, the industry was inspected by the Board official on 24.02.2016 and the Rotary kilns, SEAFs, Pellet plant, WHRB, AFBC and CFBC Boilers were found in operation. Heaps of dust and raw materials were found in open space. Fugitive emission was found throughout the unit premises, huge fugitive emission was found near cooler discharge and product house area. Dust deposition was observed on the floor of houses of Dhasna village and also on the leaves of plants of the said village. As reported by the complainants, water of a canal in Dhasna village has become brownish due to surface run off from the sponge iron industries located in the catchment area including this industry. At the upstream of the canal, i.e., before the outlet of all the sponge iron industries, the colour of water was almost normal.

AND WHEREAS, the industry was inspected earlier on 09.09.2015 along with SAE (Jamuria, BDO Office) and it was observed that emission from stacks attached to rotary kilns, pellet section, power plant and ferro alloy section was visibly on lower side. Fugitive emission was also on lower side. The complainants were met and their problems were heard. The complainants told that roof top of the houses, village pond, lawn of temple always remain covered with thick layer of black dust.

AND WHEREAS, stack monitoring conducted on 17.12.2015 shows marginal failure w.r.to the AFBC boiler stack (PM value obtained was 52.37 mg/Nm$^3$ against the Permissible Limit of 50 mg/Nm$^3$).

Direction
AND WHEREAS, earlier the industry was issued Closure Order with Disconnection of Electricity vide order dated 03/02/2015 for repeated non-compliance of environmental norms. Subsequently the suspension of closure order was issued to the industry on 10/02/2015. Bank Guarantee of Rs. 10.00 lakh was imposed on the industry vide order dated 23.06.2014 for violation of environmental norms. The industry submitted the BG amount on 06/02/2015.

AND WHEREAS, the Consent to Operate for 2X 300 TPD Rotary Kilns, 1X 9MVA SEAF and 2X 38TPH WHRB and 1X 135 TPH CFBC Boiler is valid upto 31.07.2018. The Consent to Operate for 2X90 TPD and 1X100 TPD Rotary Kilns, Iron Ore Pellet Plant, 2X 9MVA and 2X 4.5 MVA SEAF and 3X 10 TPH WHRB and 1X 54 TPH AFBC Boiler was valid upto 31.01.2016 and the industry has applied for renewal of Consent to Operate for the same.

AND WHEREAS, the industry was called for a hearing at the Head office of the Board on 03/05/2016 for the non-compliance of environmental norms as recorded above. The complainants were also present during the hearing.

AND WHEREAS, the representatives of the industry appearing in the hearing submitted that they have made three (3) sheds for storage of raw material/coal, arranged sufficient sprinklers for continuous watering in addition to spraying of water by movable tanker to control of re-suspension of dust. However, they mentioned that they have planned to take the following steps to mitigate the environmental pollution in the surrounding areas:

- Construction of a new coal shed for storage of 10,000 MT coal which will be completed by September 2016;
- Total concretization of internal roads - to be completed by December 2016;
- Excavation of a pond at village Dhasna
- Additional pond for rainwater harvesting - to be completed by March 2017.
- Soil covering on surface area to restrict dust emission.

An action plan in this regard has been submitted by the industry on 16/05/2016.

AND WHEREAS, the complainants attended the hearing and alleged that they are affected due to severe dust pollution caused by the industry. They alleged that dust/ash is blown away by wind to the adjacent residential houses and affect the air quality of the village. They also complained that the village pond, canal got affected due to surface run of from the sponge iron industries located around Dhasna village, Bahadurpur, Jamuria.

NOW THEREFORE, considering the public resentment as well as violation of environmental norms, M/s. Shyam Sel & Power Ltd. located at Vill.- Dhasna, P.O.- Bahadurpur, P.S.- Jamuria, Dist.- Burdwan, Pin-713 362 is hereby directed as follows:

1. That, the industry shall always operate with proper functioning of pollution control system attached to all units operations of the industry.

2. That, the industry shall take shut down of its manufacturing activity whenever the pollution control system fails to function and the intimate the same to the Board.

3. That, the industry shall ensure proper and efficient functioning of water sprinklers and dry fog dust suppression systems to minimize the fugitive emission. Soil covering on the land surface shall be arranged to restrict dust spreading.
4. **That**, the industry shall keep the raw material and coal fines within dedicated storage area in proper manner so as to avoid fugitive emission. Construction of new coal shed shall be completed by September 2016.

5. **That**, the industry shall complete concretization work of internal roads by September 2016.

6. **That**, the industry shall carry out adequate tree plantation in and around its premises to create a buffer zone.

7. **That**, the industry shall construct a collection pond inside the plant boundary for collecting the rain water as well as surface runoff so as to avoid contamination of pond and canal water in Dhasna village.

8. **That**, the industry shall strictly adhere to the directives issued by the Board vide Memo No. 1044-4A/WPB/CE-II/GEN/2008 dated 01/06/2012.

9. **That**, the industry shall install opacity meter for all the kilns and ensure online data transmission to CPCB server at the earliest.

10. **That**, the industry shall execute a **Bank Guarantee** (proforma enclosed) of **Rs. 10,00,000/-** (Rupees Ten lakh) only valid for twelve (12) months within fifteen [15] days from the date of issuance of this direction in favour of the **WEST BENGAL POLLUTION CONTROL BOARD** as an assurance to comply with the above direction.

The Environmental Engineer, Asansol Regional Office of the Board will keep strict vigil over the industry and if the industry is again found to be violating the environmental norms or Board’s directions, further strict regulatory action will be taken against the industry.

This direction is issued in exercise of the powers conferred under the provision of Air (Prevention & Control of Pollution) Act 1981, the Environment (Protection) Act, 1986 and Rules made thereunder after being approved by the Competent Authority.

By Order,

**Sd/-**  
Chief Engineer  
Operation & Execution Cell  
West Bengal Pollution Control Board