Memo No : 482-WPBA/Red/(Bwn)/Cont(669)/10 Date : 23/06/2014

DIRECTION

WHEREAS, M/s. Shyam Sel & Power Ltd. (hereinafter referred to as the industry), an Integrated Steel Plant located at Vill.- Dhasna, P.O.- Bahadurpur, P.S.- Jamuria, Dist.- Burdwan, Pin – 713 362.

AND WHEREAS, a public complaint was received from local authorities as well as from residents of surrounding villages against the sponge iron and ferro alloy industries situated at Jamuria, Burdwan alleging severe air pollution, especially during night hours, in the surrounding area.

AND WHEREAS, the industry has 2X90 TPD & 2X100 TPD Rotary Kilns, 2X9 MVA & 2X4.5 MVA Sub-merged Electric Arc Furnaces (SEAFs), 2X18 MT Induction Furnaces with Concord and Rolling mills, 4X9.5 TPH WHRBs and 54 TPH AFBC for captive power generation, 1X40,000 MT/month iron pelletisation plant. Installation of another 2X300 TPD Rotary Kiln is under progress. The 2X90 TPD and 2X100 TPD Rotary Kiln are provided with separate ESP with ash pneumatic silo system and connected to a separate stack of height 45m from G.L. The 2X9 MVA & 2X4.5 MVA SEAFs are equipped with bag filter with venturi scrubber and connected to a separate stack of height 40m from G.L. The 4X9.5 TPH WHRBs and 54 TPH AFBC boiler are provided with ESP and connected to a stack of height 45m and 90m respectively from G.L. The 2X18 MT Induction Furnaces are provided with bag filter and connected to common stack of height 30m from G.L.

AND WHEREAS, the industry was inspected by the officials of WEST BENGAL POLLUTION CONTROL BOARD (hereinafter referred to as the Board) on 26/03/2014 and 28/03/2014. During night inspection on 26/03/2014, high visible emission was observed through the stack of AFBC Boiler and also the stacks attached to ferro alloy section. Huge fugitive emission was also noticed from the ferro alloy section. Internal road condition was found to be poor. No senior responsible person was present at the time of inspection.

AND WHEREAS, during inspection on 28/03/2014, huge fugitive emission was observed at the sponge iron division. Iron ore fines, coal fines and bag filter bottom dusts were found to be heaped within the industry premises. No water sprinkler was observed at the product flow line from Cooler discharge to Product house. Ladder of the chimney at the ferro alloy section was found in damaged condition. Solid waste management was observed to be in dismal condition. During inspection stack sampling was carried out and the industry failed to comply with the emission standard. During earlier stack sampling on 12/12/2013, the industry failed to meet the PM emission standard for the stacks connected to Rotary Kilns and AFBC Boiler. The results are tabulated below:-

<table>
<thead>
<tr>
<th>Date of sampling</th>
<th>Sampling point</th>
<th>Concentration of PM (mg/Nm$^3$)</th>
<th>Permissible limit (mg/Nm$^3$)</th>
</tr>
</thead>
<tbody>
<tr>
<td>28/03/2014</td>
<td>Stack connected to Rotary Kiln 1 &amp; 2</td>
<td>781.30</td>
<td>100</td>
</tr>
<tr>
<td>12/12/2013</td>
<td>Stack connected to Rotary Kiln 1 &amp; 2</td>
<td>426.58</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Stack connected to AFBC Boiler</td>
<td>162.31</td>
<td>150</td>
</tr>
</tbody>
</table>

A Show cause notice was issued to the industry on 20/02/2014 for failing to meet the PM emission standard.
AND WHEREAS, the inspecting officials met the complainants during visit to Jamuria on 02/04/2014 and the complainants had expressed their dissatisfaction over poor environment management by the sponge iron and ferro alloy industries operating at Jamuria. It was also observed by the Board officials during several inspections that the industries having Captive Power Plants were disposing ash at open area within and outside the Jamuria Industrial Estate.

AND WHEREAS, the Consent to Operate for 1X100 TPD Rotary Kiln and 1X40,000 MT/month iron pelletisation plant is valid up to 31/03/2016 and the Consent to Operate for remaining activity is valid up to 31/01/2015.

AND WHEREAS, the industry was called for a technical hearing on 25/04/2014 at the head office of the Board due to violation of environmental norms as recorded above.

AND WHEREAS, during hearing, the representatives of the industry appearing in the hearing agreed with the above mentioned observations of the Board. They apologized for absence of responsible person during night hours and assured that they would depute such person immediately. They submitted that all three fields of ESP attached to the AFBC boiler are now operational and have installed opacity meter at AFBC chimney. They also submitted that the ferro alloy section is fully equipped with high capacity venturi scrubber, bag filters, ID fan and dry fog system has been installed at the bottom of bag houses to control the fugitive emission. They stated that they have installed pneumatic ash conveying system for AFBC boiler and also the ash of every bag house, for collecting the ash in silo and later disposed through wet screw conveyor system directly to dumper for final disposal at abandoned coal mines. They mentioned that they change the damaged bags of bag filters on regular basis and concreting of internal roads is under progress and the same will be completed by December 2014.

NOW THEREFORE, considering the violations recorded above and the submission made by the industry, the Board hereby directs M/s. Shyam Sel & Power Ltd. located at Vill.- Dhasna, P.O.- Bahadurpur, P.S.- Jamuria, Dist.- Burdwan, Pin – 713 362 as follows:-

1. That, the industry shall always operate with proper functioning of pollution control systems for compliance with the particulate emission standard for all unit operations in the plant.

2. That, the industry shall take shut down of its manufacturing activity whenever the pollution control system fails to function due to whatever reason and the same will be intimated to the Board.

3. That, the industry shall make arrangement for sufficient water sprinkling to control fugitive emission within the factory premises

4. That, the industry shall take steps to upgrade the ESPs so as to meet the PM emission standard.

5. That, the industry shall improve the condition of internal roads as early as possible.

6. That, the industry shall always depute a responsible person during night hours at the plant.

7. That, the industry shall comply with all the directives issued by the Board vide Memo No. 1044-4A/WPB/CE-II/GEN/2008 dated 01/06/2012.

8. That, the industry is allowed a time upto 30.09.2014 to comply with all the directions mentioned above.
9. **That,** the industry should submit a **Bank Guarantee** (proforma enclosed) of **Rs.10,00,000/-** (Rupees Ten Lakhs) only, valid for twelve [12] months within fifteen [15] days from the date of issuance of this order in favour of the **WEST BENGAL POLLUTION CONTROL BOARD** as an assurance to comply with the above directions.

The Environmental Engineer, Asansol Sub-Regional Office of the Board is requested to keep a strict vigil on the industry. If the industry is again found to be non-complying, the Board may take stricter regulatory action against the industry.

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

By Order,

*Sd/-*

Chief Engineer

Operation & Execution Cell

West Bengal Pollution Control Board