

To  
The Director  
Ministry of Environment, Forest and Climate Change,  
Regional Office (EZ),  
A/3, Chandersekharpur,  
Bhubaneswar - 751023

Dated-21.11.2016

Subject:- Six monthly Environment clearance compliance status report for the period of April 2016 to September-2016 of Shyam Sel and Power Ltd, P.O. Bhadurpur P.S. Jamuria, Dist. Burdwan WEST BENGAL.

Ref:- Environment clearance No:- F. No. J-11011/887/2007- IA II (I)


Dear Sir,

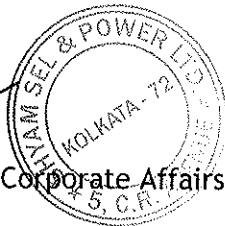
This is with reference to Environment clearance of Integrated Steel Plant 1.00 MTPA with Captive Power Plant, we hereby submitting six monthly report for the period April 2016 to September-2016.

As per all the specific & general condition are clarified for your kind perusal.

Thanking you,

Yours Faithfully

  
R K Chakraborty  
President, HR & Corporate Affairs



CC: 1) Member Secretary  
West Bengal Pollution Control Board  
Paribesh Bhavan 10A, Block-L.A  
Sector III, Salt Lake City, Kolkata 700 098

**[SIX MONTHLY COMPLIANCE REPORT SHYAM SEL AND POWER LTD AT JAMURIA WEST BENGAL FOR PERIOD FROM APRIL-2016- SEPTEMBER 2016 F. NO. J-11011/887/2007- IA II (I)]**

November 21, 2016

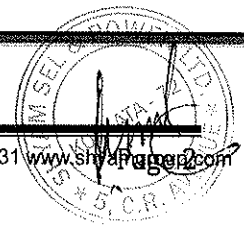
	SPECIFIC CONDITION	COMPLIANCE STATUS
1	<p>Efforts shall be made to reduce RSPM levels in the ambient air and a time bound action plan should be submitted. On-line ambient air quality monitoring and continuous stack monitoring facilities for all the stacks and adequate air pollution control devices shall be provided to keep the emission levels below 100 mg/Nm<sup>3</sup>. At no time, the emission level shall go beyond the prescribed standards. Interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit. Reports for ambient air, stack and fugitive emissions shall be submitted .to the WBPCB, CPCB and Ministry's Regional Office at Bhubaneswar six monthly.</p>	<p><b>Complied. The following action are taken- :</b></p> <ul style="list-style-type: none"> <li>• <b>Vehicular Movement Reduced by modifying the site circulation plan.</b></li> <li>• <b>APCD device maintenance carried out in regular frequency</b></li> </ul>
2	<p>Electrostatic precipitator (ESP) shall be provided to DRI plant, Pellet Plant, WHRB and ABC boilers to control air emissions within 100 mg/Nm<sup>3</sup>. Hot gases from DRI kiln shall be passed through Dust Settling Chamber (DSC) to remove coarse solids and After Burning Chamber (ABC) to burn CO completely and used in waste heat recovery boiler (WHRB). The gas then shall be cleaned in ESP before leaving out into the atmosphere through ID fan and stack. Bag filters shall be provided to control fugitive emissions from MBF, SMS, DRI Ferro alloy plant, coal washery etc. Gas cleaning plant having dust catcher and bag filter shall be provided to blast furnace (BF).</p>	<p><b>Complied</b></p> <p>Environmental monitoring conducted by NABL accredited laboratory. Copies of some reports are enclosed herewith for your ready reference.</p> <p><b>Annexure A</b></p>
3	<p>Data on ambient air quality stack emissions and fugitive emissions shall be uploaded on the</p>	



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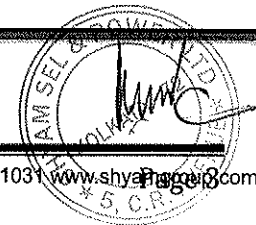
<p>Company's website and also regularly submitted on-line to the Ministry's Regional Office at Bhubaneswar, West Bengal Pollution Control Board (WBPCB) and Central Pollution Control Board (CPCB) as well as hard copy once in six months. Data on SPM, SO<sub>2</sub> and NO<sub>x</sub> shall also be displayed prominently outside the premises at the appropriate place for the information of general public.</p>	<p><b>Complied</b></p> <p>Link  <a href="http://www.shyamgroup.com/environment.html">http://www.shyamgroup.com/environment.html</a></p>
<p>4 Gaseous emission levels including secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines / Code of Practice issued by the CPCB shall be followed. The emission standards issued by the Ministry in May, 2008 for the sponge plants shall be followed.</p>	<p><b>Complied and followed</b></p>
<p>5 Vehicular pollution due to transportation of raw material and finished product shall be controlled. Proper arrangements shall also be made to control- dust emissions during loading and unloading of the raw material and finished product.</p>	<p><b>Complied through sufficient number of sprinkler and mobile tanker</b></p>
<p>6 In-plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Dust extraction system with bag filters shall be provided at various dust generating points. Dust catcher, saturator, venturi scrubber shall be provided to mini blast furnace. Agglomerative dust suppression system shall be provided to control dust emissions at material transfer points of Sinter</p>	<p><b>Complied and Followed religiously. A list of pollution control device is enclosed as Annexure B.</b></p>



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<p>Plant. Dry defogging system shall be installed at raw material handling zones of pelletization plant. Water spraying system shall be provided to control fugitive emissions in CPP. Bag filters and ESP shall be provided to DRI kilns. Bag filters shall be provided to control fugitive emissions from MBF, SMS, DRI, Ferro alloy plant, coal washery etc. Bag filters (dust suppression system) shall also be provided In raw material crushing and screening plant. Dry Fog system and bag fitters shall be provided to Coal washery. Fume extraction system shall be provided to induction furnace to extract fume and then discharged to the atmosphere through the stack of adequate height. Fugitive dust emissions from storage, transportation and raw material handling areas shall be controlled by water sprinkling and other dust suppression measures.</p>	
<p>7 All the standards prescribed for the coke oven plants shall be followed as per the latest guidelines. Proper and full utilization of coke oven gases in power plant using waste heat recovery steam generators shall be ensured and no flue gases should be discharged into the air.</p>	<p><b>Noted for compliance</b>  <b>Presently we do not have coke oven plant.</b></p>
<p>8 Continuous monitoring of Total Organic Compounds (TOC) shall be done at the outlet of ETP (BOD plant).</p>	<p><b>Complied and Noted</b></p>
<p>9 Total water requirement from Ajay River shall not exceed 70,800m<sup>3</sup>/day. Effluent Treatment Plant (ETP) shall be installed for the treatment</p>	<p><b>Complied.</b></p>



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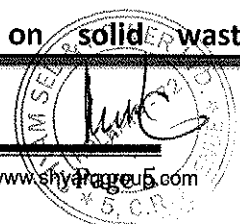
	of process water. Cooling towers and boiler blow down shall be used for coal handling, dust suppression, ash slurry system and green belt development. The treated wastewater from all other processes shall be recycled into the process to the maximum extent possible and reused either in the process or for dust suppression or green belt development. No effluent shall be discharged outside the premises and zero? Discharge shall be strictly adopted. Domestic effluent shall be appropriately treated in septic tank and then in common wastewater treatment plant and used for green belt development within the-premises.	
10	The water consumption shall not exceed 16 m <sup>3</sup> /Ton of Steel as per prescribed standard. No wastewater shall be discharged outside the premises and Zero? Effluent discharge shall be ensured.	<b>Complied</b>
11	Prior permission for the drawl of 1,705 m <sup>3</sup> /hr make up water from Ajay River from the concerned department shall be obtained.	<b>Complied and Noted</b>
12	Ground water monitoring around the solid waste disposal site / secured landfill (SLF) shall be carried out regularly and report submitted to the Ministry Regional Office at Bhubaneswar, CPCB and WBPCB.	<b>Complying.</b>
13	Proper utilization of fly ash shall be ensured as per Fly ash Notification, 1999 as amendment in 2003.	<b>Agreed and Noted</b>



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14	<p>AFBC Plant shall be installed before installation of Sponge Iron Plant so that utilization of char in the AFBC boiler is ensured. All the char from DRI plant, coal washery rejects and middling shall be used in AFBC based power plant &amp; shall not be disposed off anywhere else. DRI Fines, Coke breeze, dust from sinter plant, GCP, SMS, scales, iron ore fines shall be used in Sinter Plant. Dust from Pellet plant will be recycled to blast furnace. All the blast furnace (BF) slag shall be granulated and provided to cement manufacturers for further utilization. SMS slag shall be properly utilized. ESP dust will be used for making bricks. ETP sludge shall be used in green belt development. All the other solid wastes including SMS slag and broken refractory mass shall be properly disposed off in environment-friendly manner. Oily waste shall be provided to authorize recyclers/reprocessors or properly disposed off as per the Hazardous Waste (Management &amp; Handling) Rules, 1989 and subsequent amendments.</p>	<p>We are using imported coal which is low ash content and the generation of char is very low Char (caloric. Value 2000 to 2200 approx.) is reused in Rotary Kiln as a substitute of coal for sponge iron production because char contain calorific value</p> <p>Balance char is being sold and reused in CPP.</p>
15	<p>The slag shall be used for road making only after passing through Toxic Chemical Leachability Potential (TCLP) test. The output waste shall be disposed in secured landfill as per CPCB guidelines.</p>	<p>Complying.</p>
16	<p>A time bound action plan shall be submitted to reduce solid waste, its proper utilization and disposal.</p>	<p>Action Plan prepared to prepare the material balance with the benchmark of the industry.</p> <p>A complete report on solid waste</p>



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	<p>management is enclosed herewith. Further we are signing agreement with Ramky for disposal of solid waste. A report on solid waste Enclosed as Annexure C</p>
<p>17 Proper handling, storage, utilization and disposal of all the solid waste shall be ensured and regular report regarding toxic metal content in the waste material and its composition, end use of solid/hazardous waste shall be submitted to the Ministry's Regional Office at Bhubaneswar, WBPCB and CPCB.</p>	<p>Agreed and complied.</p>
<p>18 As proposed, green belt should be developed in 37 % area within and around the plant premises to mitigate the effects of fugitive emissions as per the CPCB guidelines in consultation with DFO.</p>	<p>Tree Plantation is a continuous process. Plantation work started along with the project construction. Ares covered are Dhasna, Bijohnagar, Bahadurpur, Jamsol. Enclosed plantation status as Annexure D</p>
<p>19 All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Sector shall be implemented.</p>	<p>CREP recommendations are being implemented.</p>
<p>20 The company shall provide housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.</p>	<p>Providing hutment with drinking water, electricity and sanitation for all working labors adjacent the plant. Total existing hutment area is 3167 square ft. and new (phase – III) 7180 square ft. labor hutment construction under process for the new project</p> <ul style="list-style-type: none"> <li>• We are also providing four stored (20,000 square ft) staff quarter with drinking water, electricity and sanitation</li> </ul>



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		facilities at Mangalpur area.
21	The project authority shall adhere to the stipulations made by West Bengal Pollution Control Board (WBPCB) and State Government	Agreed
22	No further expansion or modification of the plant shall be carried out without prior approval of this Ministry.	Noted for future compliance.
23	The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19 <sup>th</sup> May, 1993 and standards prescribed from time to time. The West Bengal Pollution Control Board (WBPCB) may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location.	Noted for compliance.
24	Ambient air quality monitoring stations shall be set up as per statutory requirement in consultation with the WBPCB. Ambient air quality including ambient noise levels shall not exceed the standards stipulated under EPA or by the State authorities. Monitoring o ambient air quality and shall be carried out regularly in consultation with WBPCB and data submitted to the CPCB and WBPCB regularly. The instruments used for ambient air quality monitoring shall be calibrated time to time.	Already install the opacity meter. System has already been connected to CPCB server.





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25	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods silencers, enclosures etc. on all sources of noise generation. The ambient noise level; shall conform to the standards prescribed under Environmental (Protection) Act, 1986 • Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Complied
26	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act. All the environment management measures given in the EIA/EMP shall be implemented and complied with.	Periodical medical check up for workers are being done and records for the same are maintained for OH surveillance and review.
27	The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table	We have already taken up water harvesting project, which will take some more time to complete, drainage system is under construction stage. Water separate storage pit is under planning stage.
28	Proper housekeeping and adequate occupational health program shall be taken up	Good housekeeping practise followed.
29	The company shall undertake eco-development measures including community welfare measures in the project area.	Environment protection measures proposed in the EIA &EMP report is planned and is under implementation further. Focus area of development are:- Health & Drinking water Women Empowerment Sports & culture Education & Employability

