

F. No. J-11011/724/2008-IA II (I), Date 30.08.2010

Six monthly compliance of conditions stipulated in the Environmental Clearance of M/s Jai Balaji Industries Limited, (Unit-III), at mouza Bamunara & No.58 and Banskopa, J.L. No.61, Village-Banskopa, PO-Rajbandh, Dist-Burdwan, West Bengal Modification-cum-expansion of existing Steel Plant

**(for the period April, 2015 to September, 2015)**

A. SPECIFIC CONDITIONS :		A. SPECIFIC CONDITIONS :
(i) Compliance to all the specific and general conditions stipulated for existing plant by the Central / State Govt. shall be ensured and regular reports submitted to the Ministry and its Regional Office at Bhubaneswar.	-	(i) There is no environmental clearance to the existing Unit-III. However, we are taking regular "Consent to Operate" for the existing unit for which the latest copies of "Consent to Operate" under Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981 are enclosed.
(ii) Efforts shall be made to reduce RSPM levels in the ambient air and a time bound action plan shall be submitted. On-line ambient air quality monitoring and continuous stack monitoring facilities for all the stacks shall be provided and sufficient air pollution control devices viz. venturi scrubber, gas cleaning plant, bag filters, etc. shall be provided to keep the emission levels below 50 mg/Nm <sup>3</sup> by installing energy efficient technology.	-	(ii) Following pollution controlling equipments have been provided in the existing plant. Venturi Scrubber in MBF and Bag Filter in EAF, IF with DIP plant. All equipments are being periodically maintained for their efficient run hours. Scientific research laboratory, Green vision & are monitoring the AAQ of the plant. Ambient air quality tests have been conducted at roofs of workers canteen, Samadhi Area, Security Barrack & near rain water harvesting pond. The latest monitoring data for the reporting period reveals that PM <sub>2.5</sub> (Max-38.03 µg/m <sup>3</sup> , Min- 34.45 µg/m <sup>3</sup> and maximum value found near rain water harvesting pond), PM <sub>10</sub> (Max.-69.31 µg/m <sup>3</sup> , Min.- 62.68 µg/m <sup>3</sup> and maximum value found near rain water harvesting pond Area), NO <sub>2</sub> (Max.-45.64 µg/m <sup>3</sup> , Min.- 44.04 µg/m <sup>3</sup> and maximum value found near Samadhi Area) and SO <sub>2</sub>

		(Max.-7.23 $\mu\text{g}/\text{m}^3$ , Min.-6.75 $\mu\text{g}/\text{m}^3$ & the maximum value found near Samadhi Area) are within the stipulated limits.
(iii) As proposed, bag filter shall be provided to MBF, Electric Arc Furnace, sinter plant and dust catcher followed by venturi scrubbers to blast furnace to control PM levels within 50 mg/Nm <sup>3</sup> . Fume extraction system shall be provided to induction furnace to control the emissions within the prescribed standards.	(iii) When the new units will come up venturi scrubber gas cleaning plant, bag filters as instructed shall be provided to reduce emissions level below 50 mg/Nm <sup>3</sup> . However, in the existing plant following pollution controlling equipments have been provided. Venturi Scrubber in MBF and Bag Filter in EAF, IF with DIP plant. All equipments are being periodically maintained for their efficient run hours.	
(iv) The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826 (E) dated 16 <sup>th</sup> November, 2009 shall be followed. Data for AAQ emissions data for the last 3 years has to be submitted to the Ministry.	(iv) Scientific research laboratory, Green vision are monitoring the AAQ of the plant. Ambient air quality tests have been conducted at roofs of workers canteen, Samadhi Area, Security Barrack and near rain water harvesting pond. The latest monitoring data for the reporting period reveals that PM <sub>2.5</sub> (Max-38.03 $\mu\text{g}/\text{m}^3$ , Min-34.45 $\mu\text{g}/\text{m}^3$ and maximum value found near rain water harvesting pond), PM <sub>10</sub> (Max.-69.31 $\mu\text{g}/\text{m}^3$ , Min.-62.68 $\mu\text{g}/\text{m}^3$ and maximum value found near rain water harvesting pond Area), NO <sub>2</sub> (Max.-45.64 $\mu\text{g}/\text{m}^3$ , Min.-44.04 $\mu\text{g}/\text{m}^3$ and maximum value found near Samadhi Area) and SO <sub>2</sub> (Max.-7.23 $\mu\text{g}/\text{m}^3$ , Min.-6.75 $\mu\text{g}/\text{m}^3$ & the maximum value found near Samadhi Area) are within the stipulated limits.	
(v) 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.	(v) Same as explained at Condition No. iii.	

<p>Guidelines/Code of practice issued by CPCB shall be followed. New standards for the sponge iron plant issued by the Ministry vide G.S.R. 414(E) dated 30<sup>th</sup> May, 2008 should be followed.</p>	
<p>(vi) Make-up water requirement from Asansol- Durgapur Development Authority (ADDA) shall not exceed 108 m<sup>3</sup>/hr. Efforts shall further be made to use maximum water from the rain water harvesting sources. All the effluent shall be treated and used for dust suppression and green belt development. No effluent shall be discharged and 'zero' discharge shall be adopted. Sanitary sewage should be treated in septic tank followed by soak pit.</p>	<p>(vi) Presently, we are giving our maximum efforts to recycle plant effluent to meet the zero discharge concepts.</p>
<p>(vii) Efforts shall be made to make use rain water harvested. If needed, capacity of the reservoir should be enhanced to meet the maximum water requirement. Only balance water requirement shall be met from other sources. The water consumption shall not exceed as per the standard prescribed for steel plants.</p>	<p>(vii) The condition is being complied with.</p>
<p>(viii) Regular monitoring of influent and effluent surface, sub-surface and ground water (including chromite) should be ensure and treated wastewater should meet the norms prescribed by the State PCB or described under the E(P) Act, 1986 whichever are more stringent. Leachate study for the effluent generated and analysis shall also be regularly carried out and report submitted to the Ministry Regional Office, Bhubaneswar, WBPCB and</p>	<p>(viii) Regular monitoring of influent and effluent, surface and sub-surface water quality will be carried out for both existing and proposed units. The latest monitoring data of influent &amp; effluent water quality is enclosed.</p>

CPCB.		
(ix) All the blast furnace (BF) slag shall be provided to the cement manufacturers. Scrap shall be used in steel melting shop (SMS) and SMS slag and kiln accretions shall be properly utilized. All the other solid waste including broken refractory mass shall be properly disposed off in environment-friendly manner.		(ix) It is being complied with.
(x) Vehicular pollution due to transportation of raw material and finished products shall be controlled. Proper arrangements shall also be made to control dust emissions during loading and loading of raw material and finished product.	-	(x) It is being complied with. Water sprinklers are being used regularly to control fugitive emission. Only non polluting vehicles/vehicles with pollution free certificate are used for transportation of finished products.
(xi) All internal roads shall be black topped. The roads shall be regularly cleaned with mechanical sweepers. A 3-tier avenue plantation using native species shall be developed along the roads. Facilities for parking of trucks carrying raw coal from the linked coalmines shall be created within the Unit.	-	(xi) Presently, it is complied. When the new units will come up the associated roads will be black topped and additional parking space will be created
(xii) 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 should be submitted to the Ministry's Regional Office at Bhubaneswar, WBPCB and CPCB.	-	(xii) It will be complied with.
(xiii) As proposed, green belt shall be developed in 33% of plant area as per the CPCB guidelines in consultation with the DFO.	-	(xiii) In addition to 18992 no. trees earlier planted, this year 1100 nos. have been planted over an area of 10.59 ha. When new units will come up green belt shall be developed in 33% of plant area. M/s Bharat Innovative Technical solution has been

		appointed as consultant to prepare a green belt plan for up coming units.
(xiv) All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Plants should be implemented.	-	(xiv) It will be complied with.
(xv) All the commitments made to the public during the Public Hearing / Public Consultation meeting held on 10 <sup>th</sup> December, 2009 should be satisfactorily implemented and a separate budget for implementing the same should be allocated and information submitted to the Ministry's Regional Office at Bhubaneswar.	-	(xv) It shall be complied with.
(xvi) At least 5% of the total cost of the project should be earmarked towards the corporate social responsibility and item-wise details along with time bound action plan should be prepared and submitted to the Ministry's Regional Office at Bhubaneswar. Implementation of such program should be ensured accordingly in a time bound manner. Occupational Health data for the last 3 years has to be submitted to the Ministry.	-	(xvi) It shall be complied with.
(xvii) 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, crèche, etc. The housing may be in the form of temporary structures to be removed after the completion of the project.		(xvii) It shall be complied with.
<b>B. GENERAL CONDITIONS :</b>		<b>B. GENERAL CONDITIONS :</b>
(i) The project authorities must strictly	-	(i) There is no environmental clearance

<p>adhere to the stipulations made by the West Bengal State Pollution Control Board and the State Government.</p>	<p>to the existing Unit-III. However, we are taking regular "Consent to Operate" for the existing unit for which the latest copies of "Consent to Operate" under Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981 are enclosed.</p>
<p>(ii) No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.</p>	<p>- (ii) It shall be complied with.</p>
<p>(iii) 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 State Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location.</p>	<p>- (iii) It shall be complied with.</p>
<p>(iv) At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM<sub>10</sub>, SO<sub>2</sub> and NO<sub>x</sub> are anticipated in consultation with the SPCB .Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Bhubaneswar and the SPCB/CPCB once in six months.</p>	<p>- (iv) Presently, four ambient air quality monitoring stations have been selected to monitor AAQ in and around the plant. However, in the existing plant following pollution controlling equipments have been used. In MBF venturi 1 &amp; 2, cyclone separator, in electric arc furnace bag filter, in induction furnace with DIP plant bag filter. All equipments are repaired periodically for efficient working. Scientific research laboratory, Green vision are monitoring the AAQ of the plant. Ambient air quality tests have been conducted at roofs of workers canteen, Samadhi Area, Security Barrack, near rain water harvesting pond &amp; roof of canteen. The latest monitoring data for the reporting period reveals that PM<sub>2.5</sub> (Max-</p>

		38.03 $\mu\text{g}/\text{m}^3$ , Min- 34.45 $\mu\text{g}/\text{m}^3$ and maximum value found near rain water harvesting pond), $\text{PM}_{10}$ (Max.-69.31 $\mu\text{g}/\text{m}^3$ , Min.- 62.68 $\mu\text{g}/\text{m}^3$ and maximum value found near rain water harvesting pond Area), $\text{NO}_2$ (Max.- 45.64 $\mu\text{g}/\text{m}^3$ , Min.-44.04 $\mu\text{g}/\text{m}^3$ and maximum value found near Samadhi Area) and $\text{SO}_2$ (Max.-7.23 $\mu\text{g}/\text{m}^3$ , Min.- 6.75 $\mu\text{g}/\text{m}^3$ & the maximum value found near Samadhi Area) are within the stipulated limits.
(v) Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 <sup>th</sup> May, 1993 and 31 <sup>st</sup> December, 1993 or as amended form time to time. The treated wastewater shall be utilized for plantation purpose.	-	(v) Shall be complied with as and when new units will come up. However, waste water of existing unit is analyzed and submitted (Copy enclosed).
(vi) The overall noise levels in and around the plant area shall be kept well within the standards (85dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc, on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75dBA (daytime) and 70 dBA (nighttime).	-	(vi) Shall be complied with as and when new units will come up. However, noise level at RM yard, SMS, MBF, DIP, RMHS, DIP, oxygen plant, Sinter plant, & at other locations is being monitored and all the values are found to be within the limits.
(vii) Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	-	(vii) It is being carried out in existing units and also the same will be complied when the new units will come up.
(viii) The company shall develop surface water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	-	(viii) Present unit is having rain water harvesting structure. When new units will come up rain water structure will be redesigned. M/s Bharat innovative Technical Solution have been appointed as consultant to redesign /upgrade the rainwater harvesting

		structure.
(ix) The project proponent shall also comply with all the environment protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply, health care, etc.	-	(ix) It is being complied with.
(x) Requisite amount shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Bhubaneswar. The funds so provided shall not be diverted for any other purpose.	-	(x) We are earmarking sufficient funds towards various pollution measures. Since, the expansion project is yet to start, the cost incurred as of now is not being submitted.
(xi) A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad /Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions / representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.	-	(xi) It is being complied with.
(xii) The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It	-	(xii) It shall be complied with.



<p>shall simultaneously be sent to the Regional Office of the MoEF at Bhubaneswar. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM<sub>10</sub>, SO<sub>2</sub>, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.</p>	
<p>(xiii) The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Bhubaneswar / CPCB / SPCB shall monitor the stipulated conditions.</p>	<p>- (xiii) It is being complied with.</p>
<p>(xiv) The environmental statement for each financial year ending 31<sup>st</sup> March in Form-V as is mandated to be submitted by project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Office of the MoEF at Bhubaneswar by e-mail.</p>	<p>- (xiv) It is sent to the WBSPCB.</p>
<p>(xv) The Project Proponent shall inform the public that the project has been accorded environmental clearance by Ministry and copies of the clearance</p>	<p>- (xv) It has been complied with (Copy enclosed).</p>

<p>letter are available with the SPCB and may also be seen at Website of the Ministry of Environment and Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspaper that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional Office at Bhubaneswar.</p>	
<p>(xvi) Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.</p>	<p>- (xvi) Shall be complied with.</p>