



भारत सरकार/ Government of India  
पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय/ Ministry of Environment, Forest & Climate Change  
पूर्वी क्षेत्रीय कार्यालय/ Eastern Regional Office  
ए/3 चन्द्रशेखरपुर/A/3 Chandrasekharpur,  
भुवनेश्वर - 751 023/ Bhubaneswar - 751 023  
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संख्या 101-456/ई.पी.ई/3485

12-12-2017

सेवा में,

महाप्रबंधक,  
बालासोर अलॉयज लिमिटेड,  
बालगोपालपुर -756020,  
बालासोर, ओडिशा

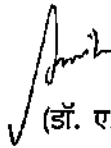
विषय : बालासोर अलॉयज लिमिटेड परियोजना के अनुपालन पत्र की प्रमाणित पत्र के संबंध में ।

महोदय,

मुझे यह सूचित करने का निर्देश हुआ है कि इस कार्यालय द्वारा दिनांक 07.12.2017 को उपरोक्त परियोजना की मोनीटरिंग की गई । इस सन्दर्भ में अनुपालन पत्र की प्रमाणित पत्र आप के आवश्यक कारवाई हेतु संगलन है ।

संगलनक: यथोक्त

भवदीय,

  
(डॉ. ए. के. गुप्ता)  
संयुक्त निदेशक (वै)



Government of India  
Ministry of Environment, Forest & Climate Change  
Eastern Regional Office

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No.101-456/EPE

12.12.2017.

To

The General Manager,  
M/s Balasore Alloys Ltd.,  
Balgopalpur-756020,  
Balasore, Orissa

Sub: Issue of Certified Compliance Report in respect of expansion of ferro alloy plant (95,000 tpa to 1,45,000 TPA) at Balgopalpur Industrial Estate, Balasore, Orissa by M/s Balasore Alloys Ltd.

Ref: Ministry's EC No.J-11011/245/2008-IA.II(I) dated 25.08.2008 and No.J-11011/245/2008-IA II(I) dated 03.03.2016.

The project site was monitored by the undersigned on 07.12.2017. The project officials of M/s Bálásore Alloys Limited, viz. Dr. Swarup Panda, Sr. Vice President, Shri Dhirendra Kumar Nath, Unit Head, Shri Suryakanta Pradhan, Sr. Manager (Environment), Shri Sandeep Kundu, Env, Shri Sandeep das, Safety, Shri Ranjeet kumar, Env, etc. were present during the monitoring. Environmental Clearance was granted to for enhancement of production capacity from 95000 TPA to 145000 TPA with a proposal for increase of Furnace Transformer capacity from 57 MVA to 84 MVA vide EC No.J-11011/245/2008-IA.II (I) dated 25<sup>th</sup> August, 2008. Thereafter, same has been revalidated vide Ministry's letter No. J-11011/245/2008-IA II(I) dated 3<sup>rd</sup> March,2016 and during revalidation water requirement was re-accessed for 802 m<sup>3</sup>/day. At present, they have setup 3x12 MVA furnance and 2X18 MVA. They are having five bore wells. The PAs have complied or are in process of complying with the conditions stipulated by the Ministry. In this context, information/action plans have been sought on following points:

1. It has been noticed that the project is in process for installation of the continuous online monitoring system in other furnaces. It is required to be completed the installation within one month and intimated to this office,
2. It is required to submit information on expenditure incurred under CSR work,
3. It is required to submit water balance sheet of the project and it is also requested to explore the possibility for its conservation.

(डा. ए. के. गुप्ता)  
(DR. A. K. GUPTA)

संयुक्त निदेशक/Joint Director  
भारत सरकार/Govt. of India  
वातावरण वन एवं ज.प. मंत्रालय/Min. of Env. Forest & C  
पूर्वी क्षेत्रीय कार्यालय/Eastern Regional Office  
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SN	Specific Conditions	Status Of Compliance																																																																																				
I.	<p>Continuous monitoring facilities for all the stacks along with sufficient air pollution control equipments viz. fume extraction system with bag filters, ID fan and stack of adequate height to submerged arc furnace shall be provided to control emissions below 100 mg/Nm<sup>3</sup>. The Orissa Pollution Control Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location. 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.</p>	<p>It has found that PAs are having continuous monitoring system installed in the stack of Furnace-I. However, other four number of continuous monitoring systems are also procured for installation in other four stacks. The necessary civil work for installation of the same has been completed. Installation &amp; commissioning of equipment would be completed by 30<sup>th</sup> December 2017. However, they have installed Gas Cleaning Plant (GCP) with spark arrester, forced draft cooler, bag filter devices) are in place for the existing five furnaces to control the emission level below 100 mg/Nm<sup>3</sup>. As per the submitted third party analysis conducted by M/s Kalyani Private Laboratory Ltd, Bhubaneswar, which is NABL accredited laboratory, data of stack gas emission are found within the limit.</p> <table border="1"> <thead> <tr> <th rowspan="2">Month</th> <th colspan="4">Weigh Bridge-1</th> <th colspan="4">Material Gate</th> </tr> <tr> <th>PM<sub>10</sub> (µg/m<sup>3</sup>)</th> <th>PM<sub>2.5</sub> (µg/m<sup>3</sup>)</th> <th>SO<sub>2</sub> (µg/m<sup>3</sup>)</th> <th>NO<sub>2</sub> (µg/m<sup>3</sup>)</th> <th>PM<sub>10</sub> (µg/m<sup>3</sup>)</th> <th>PM<sub>2.5</sub> (µg/m<sup>3</sup>)</th> <th>SO<sub>2</sub> (µg/m<sup>3</sup>)</th> <th>NO<sub>2</sub> (µg/m<sup>3</sup>)</th> </tr> </thead> <tbody> <tr> <td>July'17</td> <td>62.5</td> <td>22.3</td> <td>8.7</td> <td>12.0</td> <td>63.0</td> <td>23.8</td> <td>8.6</td> <td>12.8</td> </tr> <tr> <td>Aug'17</td> <td>62.0</td> <td>22.5</td> <td>7.5</td> <td>11.9</td> <td>60.3</td> <td>24.0</td> <td>7.7</td> <td>12.2</td> </tr> <tr> <td>Sept'17</td> <td>59.8</td> <td>23.3</td> <td>7.9</td> <td>11.9</td> <td>61.5</td> <td>24.8</td> <td>8.0</td> <td>11.9</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="4">Furnace-3 Metal Breaking Yard</th> <th colspan="4">Near MRP Metal Shoring Area</th> </tr> <tr> <th>PM<sub>10</sub> (µg/m<sup>3</sup>)</th> <th>PM<sub>2.5</sub> (µg/m<sup>3</sup>)</th> <th>SO<sub>2</sub> (µg/m<sup>3</sup>)</th> <th>NO<sub>2</sub> (µg/m<sup>3</sup>)</th> <th>PM<sub>10</sub> (µg/m<sup>3</sup>)</th> <th>PM<sub>2.5</sub> (µg/m<sup>3</sup>)</th> <th>SO<sub>2</sub> (µg/m<sup>3</sup>)</th> <th>NO<sub>2</sub> (µg/m<sup>3</sup>)</th> </tr> </thead> <tbody> <tr> <td>63.3</td> <td>25.0</td> <td>8.3</td> <td>12.8</td> <td>65.8</td> <td>26.0</td> <td>8.8</td> <td>13.5</td> </tr> <tr> <td>60.3</td> <td>23.3</td> <td>7.5</td> <td>12.3</td> <td>58.0</td> <td>24.8</td> <td>7.2</td> <td>12.1</td> </tr> <tr> <td>57.8</td> <td>24.8</td> <td>7.8</td> <td>12.3</td> <td>61.0</td> <td>24.0</td> <td>7.9</td> <td>12.0</td> </tr> </tbody> </table>	Month	Weigh Bridge-1				Material Gate				PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	July'17	62.5	22.3	8.7	12.0	63.0	23.8	8.6	12.8	Aug'17	62.0	22.5	7.5	11.9	60.3	24.0	7.7	12.2	Sept'17	59.8	23.3	7.9	11.9	61.5	24.8	8.0	11.9	Furnace-3 Metal Breaking Yard				Near MRP Metal Shoring Area				PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	63.3	25.0	8.3	12.8	65.8	26.0	8.8	13.5	60.3	23.3	7.5	12.3	58.0	24.8	7.2	12.1	57.8	24.8	7.8	12.3	61.0	24.0	7.9	12.0
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II.	<p>Fume extraction system with bag filters shall be provided to control the gaseous emission from submerged arc furnaces and shall be discharged into the atmosphere through stacks of adequate height as per CPCB guidelines. The outlet dust emission</p>	<p>It has been found that PAs have installed fume extraction system with bag filters. As per third party analysis report, the outlet emission is well within the norms. Water sprinkling on the roads as well as R.M Yard is continuously done to arrest the fugitive emissions. Dry fog dust suppression arrangements have been made at the raw-material feeding &amp; transfer points. Regular water spraying facility has been provided throughout the plant and haul road to suppress the fugitive emission due to vehicular movement. Regular monitoring of Ambient air quality is going on at four different locations inside the plant premises and two locations in the Buffer Zone.</p>																																																																																				

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 भुवनेश्वर / Bhubaneswar-751023

<p>shall not exceed 100mg/Nm<sup>3</sup>. Dust suppression system like water spraying shall be provided at unloading and raw material handling areas to control fugitive dust emissions to meet the OPCB norms. Water spraying shall also be done to prevent the dust emanation due to vehicular movement.</p>	Furnace-3/Metal Breaking Yard				Near MRP Metal Shorting Area			
	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )
	63.2	27.2	7.7	11.7	60.0	26.8	7.6	13.0
	58.8	24.5	7.3	11.9	61.3	23.8	7.3	11.8
	64.3	23.8	8.0	12.8	65.3	25.5	8.4	12.5
	63.3	25.0	8.3	12.8	65.8	26.0	8.8	13.5
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57.8	24.8	7.8	12.3	61.0	24.0	7.9	12.0	
III.	<p>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.</p>	<p>It has been found that PAs are taking various steps for controlling of secondary fugitive emissions from all the sources including water sprinkling through mobile water tankers, fixed water sprinklers, dry fog system at strategic area inside the plant premises. Conveyer belt are fully covered to reduce the secondary fugitive emission. Dust extraction system at tapping floor has been installed in five furnaces to reduce secondary fugitive emission.</p>						
IV.	<p>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>It has been found that PAs are in process to concrete all internal roads. As stated this work will be completed within the January, 2018. In addition to above, they are also using water sprinkling system at raw materials handling area, finish product yard and inside the plant premises. All the raw material stored in covered yard and transported by covering the vehicle with tarpaulin &amp; finished product has been transported after loading in HDPE bags to control fugitive dust emission.</p>						
V.	<p>Total ground water shall not exceed 355 m<sup>3</sup>/day. Cooling under blow down shall be treated and waste water shall be used for dust</p>	<p>During revalidation, water requirement was re-accessed for 802 m<sup>3</sup>/day accordingly NOC has been obtained from CGWB vide letter no. letter No. 21-4(41)/SER/CGWA2008-363 dated 16.02.2017 and it is valid till 15.02.2020. Water is being withdrawn through bore wells. It is being used for both domestic and Industrial purpose. All the process cooling water and cooling tower blow down water are re-used for plantation and dust suppression. PAs are having 05 nos. STP for</p>						

Ministry's EC No. J-11011/245/2008-IA, II(I) dated 25.08.2008 and No. J-11011/245/2008-IA II(I) dated 03.03.2016

(DR. Anand K. GUPTA)

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रुहानेश्वर/ रुहानेश्वर

	suppression, greenbelt development & other plant related activities within the plant premises. "Zero" discharge shall be adopted.	the treatment of waste water generating from canteen & guest house and the treated water is being reused in plantation. Other Domestic waste water is discharged to septic tank followed by Soak Pit. However, they are using significant quantity of water for the screening the material by flotation technique and recycling the water continuously. No such Industrial waste water is being generated so far.
VI.	Prior permission for the drawl of 355 m <sup>3</sup> /day ground water from the Central State Ground Water Board/ Ground Water Authority (SGWB/CGWA) shall be obtained.	Permission from CGWA for withdrawal of ground water of 1340 M <sup>3</sup> /Day has been obtained vide letter No. 21-4(41)/SER/CGWA2008-363 dated 16.02.2017 and is valid till 15.02.2020. However, as informed, actual consumption is 900KLD.
VII.	Proper handling, storage, utilization and disposal of all the solid / hazardous wastes shall be submitted to the Ministry's Regional Office at BBSR, OPCB & CPCB.	It has been found that Ferro-chrome slag is processed for recovery of entrapped chrome metal through MRP and stored at earmarked area inside plant premises. After passing the same through TCLP test, sold at local area for low land filling and construction activities. The flue dust generated from the GCP is reused in briquette making. Hazardous wastes viz. used oil and Waste Oil is being generated during operation, which are stored at earmarked place with adequate protection and disposed authorized party. The project has obtained Authorization of Hazardous Waste vide communication No.IND-IV-HW-293/14630 dated 03.09.2015 which is valid up to 31.03.2019.
VIII.	Chromate slag shall be used for road making only after passing through Toxic Chemical Leach ability Potential (TCLP) test. Otherwise, Ferro Chrome shall be recovered from the slag & output waste shall be disposed in secured landfill as per CPCB guidelines.	It has been found that Fe-Cr recovered from the Chromate slag through Metal Recovery Plant and the ultimate waste i.e. slag tailings in form of chips & fines are reused for road making, construction of walls etc after passing through TCLP.
IX.	Product fines, fume dust shall not be dumped anywhere else but reused in the process. SAF slag shall not be dumped but	It has been found that product fines are sold as finish product. Pure Slag after passing through MRP is kept at earmarked area and sold for low land filling and road construction at local area. Ferro-silicon and Ferro-manganese are not generated at plant. Flue dust is being collected through pneumatic/mechanical conveying system from bag filters and collected in silo which is reused for briquette making as raw material. Good housekeeping practice is being adopted. Used oil

Ministry's EC No. J-11011/245/2008-IA.II(I) dated 25.08.2008 and No. J-11011/245/2008-IA.II(I) dated 03.03.2016

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reused as per the alternate action plan submitted. Slag produced in Ferro Manganese (Fe-Mn) production shall be used in manufacture of Silico- Manganese (Mn-Si). Dust from bag filters shall be collected in silo by pneumatic conveying and reused for briquetting and shall be charged to furnaces clay with the raw material. All the other solid waste shall be spilled out and good housekeeping practices shall be adopted. Used oil shall be sold to recyclers/reprocesses.

generated collected and stored at hazardous waste yard and sold to authorized recyclers.

X. Green belt shall be developed in 33% area within and around the Plant premises as per the CPCB guidelines in consultation with DFO.

It has been stated that PAs have covered around 17.0 acre of area (34.7 %) as a green belt. They have their own nursery (capacity of approx.1.0 lakh) at their own premises. It has been noticed that PAs have planted various species of plant including Gulmohar, Teek, Mango, Guva, Ashok, Palm, Year wise plantation details are as follow:

YEAR	2014-15	2015-16	2016-17	2017-18 (Sep-17)
Nos. of Plantation Cumulative	12289	24594	31937	37708

XI. All the recommendations made in the charter on corporate responsibility for Environment protection for the Ferro Chrome units shall be strictly implemented.

It has been stated that they are in process to undertake activities like free distribution of 10000 nos of sapling to nearby villagers towards greenery development, avenue plantation, special attention is being given for protection of environment in CSR activities. The activities undertaken during CSR activities are as follows: Rural Development (Infrastructure Development), Youth Development, Educational Development, Health Awareness & Promotion, Environment Conservation, Swachha Bharat Mission. Item wise financial break is yet to be submitted.

**B. General Conditions**

I. The project authorities must strictly adhere to the stipulations made

Company abides by the stipulated conditions of OSPCB. The project has obtained Authorization of Hazardous Waste vide communication No.IND-IV-HW-293/14630 dated 03.09.2015 which is valid up to 31.03.2019. The project has obtained CTO vide letter No.15883/Ind-

	by the Orissa Pollution Control Board (OPCB) and the State Government.	I-Con-1616 dated 31.10.2016 which is valid up to 31.03.2021.																																																																																				
II.	No further expansion or modifications in the plant should be carried out without prior approval of the Ministry of Environment and Forests.	They have assured for the same.																																																																																				
III.	At least four ambient air quality monitoring stations shall be established in the downward direction as well as where maximum concentration of SPM, SO <sub>2</sub> and NO <sub>x</sub> are anticipated in consultation with the OPCB. Data on ambient air quality and stack emissions should be regularly submitted to this Ministry including its Regional Office at Bhubaneswar and the OPCB / CPCB once in six months.	<p>It has been found that PAs have four ambient air quality monitoring station in the plant and two in the villages in consultation with the OSPCB. They have also conducted third party analysis of parameters viz. PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>2</sub> on quarterly basis. As per the submitted third party analysis conducted by M/s Kalyani Private Laboratory Ltd, Bhubaneswar, which is NABL accredited laboratory, the data is furnished below:</p> <table border="1"> <thead> <tr> <th rowspan="2">Month</th> <th colspan="4">Weigh Bridge-1</th> <th colspan="4">Material Gate</th> </tr> <tr> <th>PM<sub>10</sub> (µg/m<sup>3</sup>)</th> <th>PM<sub>2.5</sub> (µg/m<sup>3</sup>)</th> <th>SO<sub>2</sub> (µg/m<sup>3</sup>)</th> <th>NO<sub>2</sub> (µg/m<sup>3</sup>)</th> <th>PM<sub>10</sub> (µg/m<sup>3</sup>)</th> <th>PM<sub>2.5</sub> (µg/m<sup>3</sup>)</th> <th>SO<sub>2</sub> (µg/m<sup>3</sup>)</th> <th>NO<sub>2</sub> (µg/m<sup>3</sup>)</th> </tr> </thead> <tbody> <tr> <td>July'17</td> <td>62.5</td> <td>22.3</td> <td>8.7</td> <td>12.0</td> <td>63.0</td> <td>23.8</td> <td>8.6</td> <td>12.8</td> </tr> <tr> <td>Aug'17</td> <td>62.0</td> <td>22.5</td> <td>7.5</td> <td>11.9</td> <td>60.3</td> <td>24.0</td> <td>7.7</td> <td>12.2</td> </tr> <tr> <td>Sept'17</td> <td>59.8</td> <td>23.3</td> <td>7.9</td> <td>11.9</td> <td>61.5</td> <td>24.8</td> <td>8.0</td> <td>11.9</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="4">Furnace-3 Metal Breaking Yard</th> <th colspan="4">Near MRP Metal Shorting Area</th> </tr> <tr> <th>PM<sub>10</sub> (µg/m<sup>3</sup>)</th> <th>PM<sub>2.5</sub> (µg/m<sup>3</sup>)</th> <th>SO<sub>2</sub> (µg/m<sup>3</sup>)</th> <th>NO<sub>2</sub> (µg/m<sup>3</sup>)</th> <th>PM<sub>10</sub> (µg/m<sup>3</sup>)</th> <th>PM<sub>2.5</sub> (µg/m<sup>3</sup>)</th> <th>SO<sub>2</sub> (µg/m<sup>3</sup>)</th> <th>NO<sub>2</sub> (µg/m<sup>3</sup>)</th> </tr> </thead> <tbody> <tr> <td>63.3</td> <td>25.0</td> <td>8.3</td> <td>12.8</td> <td>65.8</td> <td>26.0</td> <td>8.8</td> <td>13.5</td> </tr> <tr> <td>60.3</td> <td>23.3</td> <td>7.5</td> <td>12.3</td> <td>58.0</td> <td>24.8</td> <td>7.2</td> <td>12.1</td> </tr> <tr> <td>57.8</td> <td>24.8</td> <td>7.8</td> <td>12.3</td> <td>61.0</td> <td>24.0</td> <td>7.9</td> <td>12.0</td> </tr> </tbody> </table>	Month	Weigh Bridge-1				Material Gate				PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	July'17	62.5	22.3	8.7	12.0	63.0	23.8	8.6	12.8	Aug'17	62.0	22.5	7.5	11.9	60.3	24.0	7.7	12.2	Sept'17	59.8	23.3	7.9	11.9	61.5	24.8	8.0	11.9	Furnace-3 Metal Breaking Yard				Near MRP Metal Shorting Area				PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	63.3	25.0	8.3	12.8	65.8	26.0	8.8	13.5	60.3	23.3	7.5	12.3	58.0	24.8	7.2	12.1	57.8	24.8	7.8	12.3	61.0	24.0	7.9	12.0
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IV.	In-plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fume and dust extraction system	It has been stated that PAs are having two 4KL mobile water tanker for water sprinkling on roads. They also installed dry fog dust suppression systems at underground bunkers and in respective conveyors of the Furnaces to avoid fugitive emission during loading, unloading & feeding of raw materials. They are in process to concrete all internal roads for controlling of fugitive emission.																																																																																				


Ministry of Environment and Forests  
 Ministry's EC No.] - 11011/245/2008-IA, II(D) dated 25.08.2008 and No.] - 11011/245/2008-IA II(D) dated 03.03.2016

(डा. ए. के. गुप्ता)  
 (DR. A. K. GUPTA)

संयुक्त निदेशक/JOINT DIRECTOR  
 भारत सरकार/Govt. of India

पर्यावरण वन एवं ज.प. मंत्रालय/Min. of Env. Forest & CC  
 पूर्व क्षेत्रीय कार्यालय/Eastern Regional Office

	with bag filters shall be provided at the transfer and discharge points to control fugitive emissions. Further, specific measures like water sprinkling around the raw material storage areas and asphaltting or concreting of the roads shall be done to control fugitive emissions.	
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.	It has been found that PAs are having 50 KL STP for the treatment of waste water generating from canteen & guest house and the treated water is being reused in plantation. Other domestic waste water is being discharged to septic tank followed by soak pit. However, they are using significant quantity of water for the screening the material by flotation technique and recycling the water continuously. No such Industrial waste water is being generated so far.
VI.	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.	It has been found that PAs are having two artificial recharging pits, which is found in working condition.
VII.	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,	It has been found that PAs are taking various steps for controlling of noise level such enclosure, hood, silencers and maintenance of the motors etc. As per the submitted third party analysis conducted by M/s Kalyani Private Laboratory Ltd, Bhubaneswar, which is NABL accredited laboratory, data are found within the prescribed limit. PAs are also providing the required PPEs to the personnel working at noise prone area.

(डा. ए. के. गुप्ता)   
(DR. A.K. GUPTA)

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पर्याय वन एवं ज.प. मंत्रालय/ Min. of Env. Forest & CC  
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भुवनेश्वर/ Bhubaneswar-751023

(A) Ministry's EC No. J-11011/245/2008-IA.II(I) dated 25.08.2008 and No. J-11011/245/2008-IA.II(I) dated 03.03.2016

संयुक्त निदेशक/ JOINT DIRECTOR

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पूर्वा क्षेत्रीय कार्यालय/ Eastern Regional Office

भुवनेश्वर/ Bhubaneswar-751023



	enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).	<table border="1"> <tr> <th colspan="2">Pump House</th> <th colspan="2">Compressor Room</th> <th colspan="2">GCP Area</th> <th colspan="2">MRP Area</th> <th colspan="2">Sales Yard</th> </tr> <tr> <th>D</th> <th>N</th> <th>D</th> <th>N</th> <th>D</th> <th>N</th> <th>D</th> <th>N</th> <th>D</th> <th>N</th> </tr> <tr> <td>70.0</td> <td>69.1</td> <td>71.7</td> <td>68.6</td> <td>69.6</td> <td>67.4</td> <td>69.6</td> <td>66.7</td> <td>67.5</td> <td>63.8</td> </tr> </table>	Pump House		Compressor Room		GCP Area		MRP Area		Sales Yard		D	N	D	N	D	N	D	N	D	N	70.0	69.1	71.7	68.6	69.6	67.4	69.6	66.7	67.5	63.8
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VIII.	Occupational Health Surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	It has been found that PAs are conducting periodical health check of each employee on regular basis as per Factories Act. As per information provided by PP total number of regular employee is 621 and construal employee is 1131. As Informed, there is no adverse report noticed so far.																														
IX.	The project proponent shall also comply with all the environmental 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 and health care etc.	All the environmental protection measures have been taken up as per recommendations EIA/EMP report. Company has also undertaken socio-economic development works under CSR activity as per company's rule.																														
X.	As proposed, Rs. 3.00 Crores and Rs. 5.0 Lakhs/annum earmarked towards capital cost and recurring cost/annum for the environment pollution control	<p>It has been stated that PAs are submitting the details of expenditure incurred towards environmental control which are as follows:</p> <table border="1"> <thead> <tr> <th rowspan="2">Activity</th> <th colspan="2">Expenditure in INR (Approx.)</th> </tr> <tr> <th>Octo, 16 to Mar, 17</th> <th>Apr, 17 to Sep, 17</th> </tr> </thead> <tbody> <tr> <td>Equipments for Online Monitor</td> <td>7,00,000/-</td> <td>1879800/-</td> </tr> <tr> <td>Environmental Monitoring</td> <td>5,22,000/-</td> <td>570579/-</td> </tr> </tbody> </table>	Activity	Expenditure in INR (Approx.)		Octo, 16 to Mar, 17	Apr, 17 to Sep, 17	Equipments for Online Monitor	7,00,000/-	1879800/-	Environmental Monitoring	5,22,000/-	570579/-																			
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Ministry's EC No. J-1101/245/2008-IA. II(Q) dated 25.08.2008 and No. J-1101/245/2008-IA II(Q) dated 03.03.2016

(DR. A. K. GUPTA)

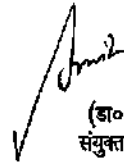
संयुक्त निदेशक/ Joint DIRECTOR  
भारत सरकार/ Govt. of India

पर्यावरण वन एवं ज.प. मंत्रालय/ Min. of Env. Forest & CC  
पूर्वी क्षेत्रीय कार्यालय/ Eastern Regional Office  
भुवनेश्वर/ Bhubaneswar-751023

	<p>measures shall be judiciously utilized to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purpose.</p>	<table border="1"> <tr> <td>Water Tax &amp; Cess Payment</td> <td>10,04,622/-</td> <td>1102343/-</td> </tr> <tr> <td>Dust suppression (GCP, Mobile sprinkler)</td> <td>3,32,30,421/-</td> <td>3,32,30,421/-</td> </tr> <tr> <td>Plantation related</td> <td>8,43,560/-</td> <td>300000/-</td> </tr> <tr> <td><b>Total</b></td> <td><b>3,63,00,603/-</b></td> <td><b>3,70,83,143/-</b></td> </tr> </table>	Water Tax & Cess Payment	10,04,622/-	1102343/-	Dust suppression (GCP, Mobile sprinkler)	3,32,30,421/-	3,32,30,421/-	Plantation related	8,43,560/-	300000/-	<b>Total</b>	<b>3,63,00,603/-</b>	<b>3,70,83,143/-</b>
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<p>XI.</p>	<p>The Regional Office of this Ministry at Bhubaneswar / CPCB / OPCB shall monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.</p>	<p>It has been found that PAs are submitting the six monthly compliance reports along with analytical reports on regular basis to this office.</p>												
<p>XII.</p>	<p>The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the OPCB 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 newspapers</p>	<p>It has been found that PAs had published information of Environmental Clearance in Odia newspaper 'The Samaj' on 16.09.2008 and 'The Ajikali' dated 25.09.2008.</p>												



	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 shall be forwarded to the Regional office at Bhubaneswar.	
XIII.	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.	Assured to comply with the condition.



(डा० ए० के० गुप्ता)  
संयुक्त निदेशक "वे०"

(डा. ए. के. गुप्ता)  
(DR. A. K. GUPTA)  
संयुक्त निदेशक/JOINT DIRECTOR  
भारत सरकार/Govt. of India  
पर्यावरण वन एवं ज.प. मंत्रालय/Min. of Env. Forest & CL  
पूर्वी क्षेत्रीय कार्यालय/Eastern Regional Office  
भुवनेश्वर/ Bhubaneswar-751023



भारत सरकार / Government of India  
पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय / Ministry of Environment, Forest & Climate Change  
पूर्वी क्षेत्रीय कार्यालय / Eastern Regional Office  
ए/3 चन्द्रशेखरपुर / A/3 Chandrasekharpur,  
भुवनेश्वर - 751 023 / Bhubaneswar - 751 023  
Ph : 0674-2301213, 2301248, 2302452, 2302453, Fax : 2302432, E mail : [roe2.bsr-mef@nic.in](mailto:roe2.bsr-mef@nic.in)



No.101-456/EPE/496

20-02-2018

To

Shri S. K. Srivastava,  
Additional Director (S),  
Ministry of Environment, Forest and Climate Change,  
Indira Paryavaran Bhawan,  
Jor Bagh, Aiganj,  
New Delhi - 110003  
E mail : [sk.smree66@nic.in](mailto:sk.smree66@nic.in)

Sub: Examination of the reply submitted by expansion of ferro alloy plant (95,000 TPA to 1,45,000 TPA) at Balgopalpur Industrial Estate, Balasore, Odisha by M/s Balasore Alloys Ltd.  
Ref: Ministry's EC No.J-11011/245/2008-IA.II(I) dated 25.08.2008 and No.J-11011/245/2008-IA II(I) dated 03.03.2016.

Sir,

I am directed to state that above project was monitored on 07.12.2017 by the undersigned. During monitoring some non compliances have been observed. Subsequently, letter has been issued vide No. 101-456/EPE dated 12.12.2017 to PAs for taking necessary action on the non compliances observed during monitoring.

In reply of the non-compliance noticed by this office, PAs have submitted action taken report vide letter No. BAL/PLANT/MOEF&CC/4651 dated 22.12.2017. As per action taken report, the condition wise reply is furnished below:

SN	Conditions stipulated
1.	<p><b>Observation made during monitoring on 07.12.2017:</b></p> <p>It has been noticed that the project is in process for installation of the continuous online monitoring system in other furnaces. It is required to be completed the installation within one month and intimated to this office</p> <p><b>Compliance submitted by the project proponent:</b></p> <p>Continuous monitoring system has been installed in the stack of Furnace-1. Another four numbers continuous monitoring system is also procured for installation in other four stacks. The installation and commissioning of equipment shall be completed by 10.01.2018.</p> <p><b>Observation of the Regional Office :</b></p> <p>As per action taken report including suitable photographs clearly showed that they have installed online stack monitoring system at each furnace.</p>

2. **Observation made during monitoring on 07.12.2017:**

It is required to submit information on expenditure incurred under CSR work.

**Compliance submitted by the project proponent:**

The information submitted on CSR activities are furnished below:

An amount of Rs.6428847, Rs.4021854 and Rs.2777693 has been incurred during the year 2015-16, 2016-17 and 2017-18 respectively towards tribal development, women empowerment, infrastructure development/rural development, environmental protection and development, youth development, education, health, supply of safe drinking water, Swachh Bharat Abhijan and animal welfare.

**Observation of the Regional Office:** As per action taken report the expenditure incurred under CSR in last three years are as follows:

Activities	Expenditure (In Rs)		
	2015-2016	2016-2017	2017-2018
Tribal Development	1336151.0	141220.0	27157.0
Women Empowerment	242414.0	61408.0	Nil
infrastructure	3000000.0	2055110.0	2668108.0
Env Protection	814332.0	531203.0	14700.0
Youth Development	489850.0	388645.0	10000.0
Education development	97100.0	358600.00	30000.0
Health	449000.0	156672.0	24728.0
Supply of waste water	Nil	300996.0	nil
Swachha Bharat Abhiyan	Nil	3000.0	3000.0
Animal Welfare	nil	25000.0	nil
<b>Total</b>	<b>6428847.0</b>	<b>4021854.0</b>	<b>2777693.0</b>

3. **Observation made during monitoring on 07.12.2017:**

It is required to submit water balance sheet of the project and it is also requested to explore the possibility for its conservation.

**Compliance submitted by the project proponent:**

Water balance sheet for total consumption of 900 KLD has been submitted. All the water used for industrial purpose except drinking purpose has been recycled and reused.

**Observation of the Regional Office:** PAs have submitted the water balance sheet of the plant. As per the water balance sheet. Total water requirement is 900 m<sup>3</sup>/day, out of that 655 m<sup>3</sup>/day required for make-up water for furnace cooling, 110 m<sup>3</sup>/day domestic use, 98 m<sup>3</sup>/day fresh drinking water under CSR.

This is for kind information and necessary action.

Yours faithfully,

(डा० ए० के० गुप्ता)  
संयुक्त निदेशक "वै०"

Copy to: The General Manager, M/s Balasore Alloys Ltd., Balgopalpur-756020, Balasore, Odisha for information.

Am 2  
2012/1/8  
संयुक्त निदेशक "वै०"