



सत्यमेव जयते

भारत सरकार  
GOVERNMENT OF INDIA

पर्यावरण, वन एवं जलवायु परिवर्तन  
मंत्रालय

MINISTRY OF ENVIRONMENT, FOREST &  
CLIMATE CHANGE

SPEED POST

क्षेत्रीय कार्यालय, पश्चिम क्षेत्र,  
Regional Office, Western Region,  
"केन्द्रीय पर्यावरण भवन"  
"Kendriya Paryavaran Bhavan"  
लिंक रोड नं-3/Link Road No. 3  
E-5, रविशंकर नगर/Ravi Shankar Nagar,  
भोपाल (म.प्र.)/Bhopal-462016 (M.P.)  
Telefax: 0755-2465054  
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File No. : 5-54/2009 (पर्या) / 1035

Dated: 14.08.2017

प्रति,

श्री ज्ञानेश भारती,  
जॉइंट सेक्रेटरी,  
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय,  
इंदिरा पर्यावरण भवन,  
जोर बाग रोड, अलीगंज,  
नई दिल्ली - 110003

Shri Gyanesh Bharti,  
Joint Secretary,  
Ministry of Environment, Forest and  
Climate Change  
Indira Paryavaran Bhawan  
Jorbagh Road, Aliganj  
New Delhi-110003

विषय : मेसर्स नीलकंठ कॉन्कास्ट प्रा.लि. द्वारा एसवाय नं. 221, ग्राम वडाला, तहसील मुंदरा जिला कच्छ, गुजरात में स्पैन्ज आयरन प्लांट (66,000 टीपीए) को कैप्टिव पावर प्लांट (10 मेगावाट WHRB 6 मेगावाट AFBC 4 मेगावाट) के साथ स्थापित करके मौजूदा समेकित स्टील के विस्तार हेतु पर्यावरण स्वीकृति;

Sub : Expansion of the existing Integrated Steel Plant by installing Sponge Iron Plant (66,000 TPA) along with Captive Power Plant (10 MW; WHRB 6 MW. AFBC 4 MW) at sy. No. 221, Village vadala, Tehsil Mundra, District Kutch, Gujarat by M/s Nilkanth Concast Pvt Ltd.- Environment Clearance reg.

संदर्भ: मंत्रालय का पत्र क्रमांक. J-11011/85/2008-IA II (I) दिनांक 23.12.2008

Ref: Ministry's letter no J-11011/85/2008-IA II (I) dated: 23.12.2008

महोदय,

मंत्रालय के उपरोक्त संदर्भित पत्रांकों के संदर्भ में उक्त परियोजना को पर्यावरणीय दृष्टिकोण से अनुमति देते समय अनुबद्ध शर्तों के अनुपालन की अनुवीक्षण प्रतिवेदन (मॉनिटरिंग रिपोर्ट) एतद् द्वारा संलग्न कर प्रेषित है। अनुवीक्षण प्रतिवेदन मंत्रालय की वेबसाइट पर भी अपलोड की जा रही है।

2.0 यह सक्षम प्राधिकारी द्वारा अनुमोदित है।

भवदीय

(डॉ. एच.वी.सी. चारी गून्टुपल्ली)  
वैज्ञानिक 'डी'

संलग्न: उपरोक्तानुसार

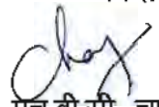
प्रतिलिपि:

1. श्रीमति रीता खन्ना, निदेशक, (अनुवीक्षण सैल), पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, इंदिरा पर्यावरण भवन, जोर बाग रोड, अलीगंज, नई दिल्ली-110003 की ओर सूचनार्थ एवं आवश्यक कार्यवाही हेतु।  
Smt. Reeta Khanna, Director, Monitoring Cell, Ministry of Environment, Forest and Climate Change Indira Paryavaran Bhawan, Jorbagh Road, Aliganj, NewDelhi-110003 for kind information please.
2. डॉ. विनोद कुमार सिंह, वैज्ञानिक 'डी', पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, इंदिरा पर्यावरण भवन, जोर बाग रोड, अलीगंज, नई दिल्ली-110003 की ओर सूचनार्थ एवं आवश्यक कार्यवाही हेतु।  
Dr. Vinod Kumar Singh , Scientist 'D', Ministry of Environment, Forest and Climate Change Indira Paryavaran Bhawan, Jorbagh Road, Aliganj, NewDelhi-110003 for kind information please.
3. डायरेक्टर, मेसर्स निलकंठ कॉन्कास्ट प्रा.लि., एसई नं. 221, ग्राम वडला, तहसील मुंदरा जिला कच्छ, गुजरात की ओर सूचनार्थ एवं आवश्यक कार्यवाही हेतु।  
The Director, M/s Nilkanth Concast Pvt. Ltd., Sy. No. 221, Village Vadala, Tehsil Mundra, District Kutch, Gujarat- for kind information please.

1. PC

11. C

भवदीय

  
(डॉ. एच.वी.सी. चारी गून्टुपल्ली)  
वैज्ञानिक 'डी'

**Monitoring the Implementation of Environment Safeguards**

**Ministry of Environment & Forest**

**Western Region, Regional Office, Bhopal**

**MONITORING REPORT**

**PART-1**

**DATA SHEET**

Sr. No.	Particulars	Details
1	Project type: River valley/Mining/Industry/Thermal/Nuclear /Other (specify)	Industrial Project (Steel Industry - Sponge Iron ,Power plant, Billets ,TMT bar Manufacturing Unit)
2	Name of the Project	M/s. Nilkanth Concast Private Limited
3	Clearance letter (s)/OM No. & date	F.No. J-11011/85/2008-IA II (I) dated December 23, 2008
4	Location: a) District (s) b) State (s) c) Location Latitude/Longitude	Kutch Gujarat, The longitude and latitude of the projects are 69° 52' 13.80" E and 22° 54' 27.27" N
5	Address for Correspondence  a) Address for the concerned project chief engineer (with pin code & telephone/telex/fax numbers)  b) Address for executive project engineer/manager	M/s. Nilkanth Concast Private Limited Survey No. 221, Village: Vadala, Taluka: Mundra, Dist: Kutchh. Pin-370410 Telephone-02838-2838283 Fax-02838-283488  a) Mr. V.K Pandey M/s. Nilkanth Concast Private Limited Survey No. 221, Village: Vadala, Taluka: Mundra, Dist: Kutchh. Phone : (02836)221460,221468 Fax : (02836) 233734  b) Address for executive project engineer/manager Mr. Suresh Sarbaliya G.M. (P & A) M/s. Nilkanth Concast Private Limited Survey No. 221, Village: Vadala, Taluka: Mundra, Dist: Kutchh. Phone : (02836)221460,221468 Fax : (02836) 233734
6	Salient features a) Of the project  b) Of the EMP	a) Power generation from waste heat of Sponge iron kiln with Zero liquid discharge. b) ESP, bag filters and ETP with online monitoring system connected to CPCB and

## GPCB

7	<p>Breakup of the project area</p> <p>a) Submergence area: forest &amp; non-forest</p> <p>b) Others</p>	<p>a) No forest land is acquired. So there is no submerging area of forest &amp; non-forest.</p> <p>b) Break up of project area is given below:</p> <table> <tr> <th>Sr. no.</th><th>Particular</th><th>Area in M<sup>2</sup></th></tr> <tr><td>1</td><td>Kiln Cooler Axis-1</td><td>423.00</td></tr> <tr><td>2</td><td>Kiln Cooler Axis-1</td><td>423.00</td></tr> <tr><td>3</td><td>Coal Ground Hopper</td><td>110.50</td></tr> <tr><td>4</td><td>Coal Crusher House</td><td>96.75</td></tr> <tr><td>5</td><td>Iron Ore Ground Hopper</td><td>110.50</td></tr> <tr><td>6</td><td>Iron Ore Crusher House</td><td>96.75</td></tr> <tr><td>7</td><td>Iron ore Screen &amp; Coal Secondary House</td><td>167.40</td></tr> <tr><td>8</td><td>Iron Ore Fines Transfer Tower</td><td>16.00</td></tr> <tr><td>9</td><td>Iron Ore Fines Bunker</td><td>37.50</td></tr> <tr><td>10</td><td>Stock house or Day Bin</td><td>213.00</td></tr> <tr><td>11</td><td>Feed Transfer Tower</td><td>26.00</td></tr> <tr><td>12</td><td>Blending Transfer Tower</td><td>20.00</td></tr> <tr><td>13</td><td>Intermediates Bin &amp; Separation Building</td><td>124.00</td></tr> <tr><td>14</td><td>Product storage building</td><td>159.00</td></tr> <tr><td>15</td><td>D.G. and Compressor Room</td><td>72.00</td></tr> <tr><td>16</td><td>M.C.C. Building</td><td>270.60</td></tr> <tr><td>17</td><td>Conveyor Foundation</td><td>30.44</td></tr> <tr><td colspan="2">Total Construction Area</td><td>2,345.19</td></tr> <tr><td colspan="2">Total Proposed Plant Area</td><td>50,142.00</td></tr> <tr><td>18</td><td>Green Belt Area</td><td>16,847.00</td></tr> </table>	Sr. no.	Particular	Area in M <sup>2</sup>	1	Kiln Cooler Axis-1	423.00	2	Kiln Cooler Axis-1	423.00	3	Coal Ground Hopper	110.50	4	Coal Crusher House	96.75	5	Iron Ore Ground Hopper	110.50	6	Iron Ore Crusher House	96.75	7	Iron ore Screen & Coal Secondary House	167.40	8	Iron Ore Fines Transfer Tower	16.00	9	Iron Ore Fines Bunker	37.50	10	Stock house or Day Bin	213.00	11	Feed Transfer Tower	26.00	12	Blending Transfer Tower	20.00	13	Intermediates Bin & Separation Building	124.00	14	Product storage building	159.00	15	D.G. and Compressor Room	72.00	16	M.C.C. Building	270.60	17	Conveyor Foundation	30.44	Total Construction Area		2,345.19	Total Proposed Plant Area		50,142.00	18	Green Belt Area	16,847.00
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8	<p>Breakup of the project affected population with enumeration of those losing house/dwelling units only agricultural land only both dwelling units &amp; agricultural land &amp; landless laborers/artisans:</p> <p>a) SC, ST/Adivasi</p> <p>b) Others</p> <p>(Please indicate whether these figures are based on any scientific and systematic survey carried out or only provisional figures, if a survey is carried out give details &amp; year of survey)</p>	<p>Company acquired the land from local people (agricultural land) and no one was living near the premises. No housing dwelling units were affected.</p> <p>a) Land losers were not SC,ST/Adivasi</p> <p>b) Local people owning agricultural land. Around 6 people only</p> <p>Provisional figures</p>																																																															
9	<p>Financial details:</p> <p>a) Project cost as originally planned and subsequent revised estimates and the year of price reference</p> <p>b) Allocation made for EMP with item</p>	<p>a) Project cost as originally planned = Rs.30 cr</p> <p>Subsequent revised estimates = Rs.75 cr</p> <p>The year of price reference =2009</p>																																																															

	<p>wise and year wise break-up</p> <p>c) BC ratio/IRR and the year of assessment</p> <p>d) Whether (c) includes the cost of EM as shown in above</p> <p>e) Actual expenditure incurred on project so far</p> <p>f) Actual expenditure incurred on EMP so far</p>	<p>b) Allocation made for EMP with item wise</p> <p>ESP=Rs 6 cr</p> <p>Bag filters=50 lacs</p> <p>Road development=20 lacs</p> <p>Green belt development=2 lacs</p> <p>Shed for raw material=2 cr</p> <p>ETP =50 lacs</p> <p>Online CEMS and EQMS=50 lacs</p> <p>Pneumatic Ash handling system=80 lacs</p> <p>Bricks manufacturing plant=15 lacs</p> <p>Year wise break-up</p> <p>Year 2004=3.5cr</p> <p>Year 2006=3.0cr</p> <p>Year 2009=1.0 cr</p> <p>Year 2012=50 lacs</p> <p>Year 2015=20 lacs</p> <p>Year 2017=1.8 cr</p> <p>c) BC (Benefit Cost) ratio/IRR = 12%</p> <p>The year of assessment = 2004-05</p> <p>d) Includes the cost of EM as shown in above</p> <p>e) Actual expenditure incurred on project so far = Rs.100cr</p> <p>f) Actual expenditure incurred on EMP so far = Rs. 15 cr</p>
10	<p>Forest land requirement</p> <p>a) The status of approval for diversion of forest land for non-forestry use</p> <p>b) The status of clearing felling</p> <p>c) The status of CA, if any</p> <p>d) Comments on viability &amp; sustainability of CA program in the light of actual field experience so far</p>	<p>a) This is not forest land of project area. Company acquired the land for project from Odhav Industrial Estate.</p> <p>b) There was no clearing felling by the company.</p> <p>c) No any CA (Compensatory Allowance)</p> <p>d) No comments</p>
11	The status of the clear felling in the non-forest areas (such as submergence area or reservoir, approach roads) if any with quantitative information required	There was no clearing felling by the company.
12	<p>Status of construction (Actual &amp;/or planned)</p> <p>a) Date of commencement (Actual &amp;/or planned)</p> <p>b) Date of completion (Actual &amp;/or planned)</p>	<p>a) Phase-1 (DRI,Furnace,Rolling mill)- 30/02/2004</p> <p>Phase -2 (Captive Power plant)- 4/09/2008</p> <p>b) Phase-1 -12/09/2004</p> <p>Phase -2 -25/10/2009</p>
13	Reason for delay if project is yet to start	Project is completed in schedule time.
14	<p>Dates of site visit</p> <p>a) Date on which the project was monitored by the MoEF&amp;CC, RO Bhopal on previous occasion (if any)</p>	--



	b) Date of the site visit for the present monitoring report (if undertaken)	29.06.2017
15	Details of correspondence with project authorities for obtaining act on plans/ information on status of compliance to safeguards other than the routine letters for logistic support for site visits. (The first monitoring report may contain the details of all the letters issued so far, but the later reports may cover only the letter issued subsequently) .	
	<b>Date</b> <b>Letter from RO</b>	<b>Date</b> <b>Letter from PA</b>
	20.04.2017: PAs have been requested to submit comprehensive compliance report	02.06.2017 Comprehensive CR received vide letter dated 27.05.2017
	07.07.2017: During the site visit, the PAs have been directed to submit a revised comprehensive compliance report with documentary evidences.	11.08.2017 Final revised Comprehensive CR received vide letter dated 09.08.2017

**PART - II & III**  
**DESCRIPTIVE REPORT ON STATUS OF COMPLIANCE TO CONDITIONS OF**  
**ENVIRONMENTAL CLEARANCE AND ENVIRONMENTAL MANAGEMENT**  
**Compliance Status of Environmental Clearance issued by MoEF & CC, New Delhi**  
**vide letter No: No. J-11011/85/2008/1-A/-II [I] dated 23<sup>rd</sup> December, 2008**

(Details of the project: Expansion of the existing Integratd Steel Plant by installing Sponge Iron Plant (66,000 TPA) alongwith Captive Power Plant (10 MW; WHRB-6 MW, AFBC 4 MW) at Sy. No. 221, Village Vadala, Tehsil Mundra, District Kutch, Gujarat by M/s. Nilkanth Concast Pvt. Ltd. By M/s. Nilkanth Concast Pvt. Ltd.)

SR. NO.	CONDITIONS	STATUS																						
1.0	The ministry of Environment and Forests has examined the application. It is noted that proposal is for the expansion for the existing integrated steel plant by installing Sponge Iron Plant (72,000 TPA) alongwith Captive power Plant (10 MW; WHRB 6 MW, AFBC 4 MW) at Survey No. 221, Village: Vadala, Taluka: Mundra, District Kutch, Gujarat by M/s. Nilkanth Concast Pvt. Ltd. Total land acquired is 87.17 acres and proposed expansion will be carried out in 7 acres within the existing premises. No additional land will be acquired for expansion project. No National Park/Wild life sanctuary/Reserve Forest is located within 10 Km radius of the project. Kutch Bustard Sanctuary is located at 50 Km. Total cost of the Project is Rs. 90 Crores(As estimated on 2017). Details of existing and proposed plants are follows:																							
Sr. No.	Products	Production Capacity(Existing)	Production Capacity(Proposed)																					
1	Sponge Iron	72000 MT/Year	72000 MT/yr																					
2	M.S. Billets & TMT Bars	180000 MT/Year	18000 MT/yr																					
3	Captive Power Plant	4 MW	2 MW																					
4	Waste Heat Recovery Boiler	6 MW	4 MW																					
2.0	Kutch Lignite, Coal and Iron ore will be used as raw material.	Project Proponent vide letter dated 09.08.2017 submitted the following; Company is using imported coal and iron pellets as raw material. Company is not using kutch lignite and iron ore as raw material. <b>Details of imported Coal Consumption month wise:</b> <table><tr><th>Sr. No.</th><th>Month/Year</th><th>Imported Coal Consumption (MT/Month)</th></tr><tr><td>1</td><td>January,2017</td><td>2876</td></tr><tr><td>2</td><td>February,2017</td><td>3291</td></tr><tr><td>3</td><td>March, 2017</td><td>3581</td></tr><tr><td>4</td><td>April, 2017</td><td>3185</td></tr><tr><td>5</td><td>May, 2017</td><td>3366</td></tr><tr><td>6</td><td>June, 2017</td><td>2897</td></tr></table>		Sr. No.	Month/Year	Imported Coal Consumption (MT/Month)	1	January,2017	2876	2	February,2017	3291	3	March, 2017	3581	4	April, 2017	3185	5	May, 2017	3366	6	June, 2017	2897
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	<p>Sponge iron will be produced by reducing iron ore using Direct Reduction (DR) Process with solid carbonaceous material such as coal or lignite in a rotary kiln at 800°C.</p>	<p>Sponge iron is produced by reducing iron using Direct Reduction Process with solid carbonaceous material such as coal or lignite in a rotary kiln at 800°C.</p> <p>In view of the information furnished by the PP, the condition is considered complied.</p> <p><b>COMPLIED</b></p>
3.0	<p>Electrostatic Precipitator (ESP), Bag house/dust collector, bag filter, dust extractor system and dust suppression methods will be provided to control air emission.</p> <p>Total water requirement from Gujarat Water Infrastructure Ltd. (GWIL) will be 800 m<sup>3</sup>/Day and have been accorded permission vide letter no. dated 5<sup>th</sup> February, 2008.</p> <p>No surface/ground water will be used. The wastewater from power plant will be treated in neutralization pit and all the treated wastewater will be utilized for cooling, sprinkling as raw material storage cooling of kiln and green belt development.</p> <p>Coal char will be generated from the sponge iron plant and used in AFBC power plant.</p>	<p>Project Proponent vide letter dated 09.08.2017 submitted the following;</p> <p>Company has installed the Electrostatic Precipitator (ESP), bag filters, dust extractor system and dust suppression to control air emission.</p> <p>Company has permission of 800 m<sup>3</sup>/Day water withdrawal from GWIL a copy of which is made available.</p> <p>Avg. Water Consumption of January, 2017: 751 m<sup>3</sup>/day</p> <p>Avg. Water Consumption of February, 2017: 578 m<sup>3</sup>/day</p> <p>Avg. Water Consumption of March, 2017: 721 m<sup>3</sup>/day</p> <p>Avg. Water Consumption of April, 2017: 756 m<sup>3</sup>/day</p> <p>Avg. Water Consumption of May, 2017: 792 m<sup>3</sup>/day</p> <p>Avg. Water Consumption of June, 2017: 734 m<sup>3</sup>/day</p> <p>The wastewater from power plant is treated in neutralization pit and all the treated wastewater is utilized for cooling, sprinkling and raw material storage cooling of kiln and green belt development.</p> <p>Coal char is generated from sponge iron plant is used in AFBC power plant.</p>



	Fly Ash and bed ash will be sold to cement/brick manufacturing units.	Fly ash and bed ash is used in bricks manufacturing inside plant and sold to cement/bricks industries. In view of the information furnished by the PP, the condition is considered complied. COMPLIED								
4.0	No public hearing is required as per Section 7(ii) of EIA Notification, 2006 due to expansion of the proposed unit in the same campus.	Project Proponent vide letter dated 09.08.2017 submitted the following: Complied COMPLIED								
5.0	The Ministry of Environment and Forests hereby accords environmental clearance to the above project under EIA Notification dated 14/09/2006 subject to strict compliance of the following conditions:									
A.	SPECIFIC CONDITIONS									
i)	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 sufficient air pollution control devices shall be provided to keep the emission levels below 100 mg/Nm <sup>3</sup> .	Project Proponent vide letter dated 09.08.2017 submitted the following: To reduce RSPM level, company has installed Bag filters and sprinklers at surrounding areas like storing of coals. Company has erected completely closed Godowns at required places. Company has planned to reconstruct concrete road inside plant premises with upcoming project.  Online ambient air quality monitoring and continuous stack monitoring facilities for all the stacks are installed and it is connected to XGN website of GPCB and CPCB. RSPM level is found below 100 mg/Nm <sup>3</sup> . Result of RSPM in ambient air by Third party – Greenleaf Envirotech Pvt. Ltd., GPCB Recognized No. GPCB/EA-249/233085 dated: 10/12/2014 and valid upto 31/12/2017 and online stack monitoring result is given below: Result of RSPM in ambient air by Third party: January,2017 (19/01/2017) Stack Attached to gasifier system attached with rolling mill								
		<table><tr><th>Sr. No.</th><th>Parameter</th><th>Result mg/Nm<sup>3</sup></th><th>GPCB Norms mg/N m<sup>3</sup></th></tr><tr><td>1.</td><td>RSPM</td><td>74.04</td><td>100</td></tr></table>	Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/N m <sup>3</sup>	1.	RSPM	74.04	100
Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/N m <sup>3</sup>							
1.	RSPM	74.04	100							

**Stack Attached to WHRB Boiler-1 & 2 (Common Stack)**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	65.84	100

**Stack Attached to AFBC**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	86.92	100

**Stack Attached to Rotary Kiln-1 & 2 (Common Stack)**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	89.28	100

**Stack Attached to Iron Ore Crusher**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	20.18	100

**Stack Attached to Induction Furnace**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	43.57	100

**Stack Attached to Rolling Mills**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	27.97	100

**Avg. RSPM level – January,2017**

Sr. No.	Parameter	Min	Max	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1	RSPM	20.18	89.28	58.25	100

**February,2017 (27/02/2017)**

Stack Attached to gasifier system attached with rolling mill

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	46.61	100

Stack Attached to WHRB Boiler-1 & 2 (Common Stack)

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	64.18	100

Stack Attached to AFBC

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	65.94	100

Stack Attached to Rotary Kiln-1 & 2 (Common Stack)

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	81.05	100

Stack Attached to Iron Ore Crusher

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	28.28	100

**Stack Attached to Induction Furnace**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	54.53	100

**Stack Attached to Rolling Mills**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	32.46	100

**Avg. RSPM level – February, 2017**

Sr. No.	Parameter	Min	Max	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1	RSPM	28.28	81.05	55.55	100

**March, 2017 (16/03/2017)**

Stack Attached to gasifier system attached with rolling mill

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	65.77	100

**Stack Attached to WHRB Boiler-1 & 2 (Common Stack)**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	67.83	100

**Stack Attached to AFBC**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	89.33	100

**Stack Attached to Rotary Kiln-1 & 2 (Common Stack)**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	83.54	100

**Stack Attached to Iron Ore Crusher**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	53.57	100

**Stack Attached to Induction Furnace**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	65.76	100

**Stack Attached to Rolling Mills**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	45.65	100

**Avg. RSPM level – March,2017**

Sr. No.	Parameter	Min	Max	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1	RSPM	45.65	89.33	67.35	100

**April,2017 (28/04/2017)**

**Stack Attached to gasifier system attached with rolling mill**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	53.87	100

**Stack Attached to WHRB Boiler-1 & 2 (Common Stack)**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	64.82	100

**Stack Attached to AFBC**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	67.24	100

**Stack Attached to Rotary Kiln-1 & 2 (Common Stack)**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	81.55	100

**Stack Attached to Iron Ore Crusher**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	31.85	100

**Stack Attached to Induction Furnace**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	55.34	100

**Stack Attached to Rolling Mills**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	43.88	100



**Avg. RSPM level – April, 2017**

Sr. No.	Parameter	Min	Max	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1	RSPM	31.85	81.55	56.93	100

**May, 2017 (25/05/2017)**

Stack Attached to gasifier system attached with rolling mill

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	55.06	100

Stack Attached to WHRB Boiler-1 & 2 (Common Stack)

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	66.56	100

Stack Attached to AFBC

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	78.60	100

Stack Attached to Rotary Kiln-1 & 2 (Common Stack)

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	73.13	100

Stack Attached to Iron Ore Crusher

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	22.94	100

**Stack Attached to Induction Furnace**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	16.11	100

**Stack Attached to Rolling Mills**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	25.07	100

**Avg. RSPM level – May,2017**

Sr. No.	Parameter	Min	Max	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1	RSPM	16.11	78.60	48.21	100

June,2017 (13/06/2017)

Stack Attached to gasifier system attached with rolling mill

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	45.04	100

Stack Attached to WHRB Boiler-1 & 2 (Common Stack)

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	55.48	100

Stack Attached to AFBC

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	70.14	100

Stack Attached to Rotary Kiln-1 & 2 (Common Stack)

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	81.85	100

Stack Attached to Iron Ore Crusher

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	34.16	100

Stack Attached to Induction Furnace

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	55.86	100

Stack Attached to Rolling Mills

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	43.56	100

Avg. RSPM level – June, 2017

Sr. No.	Parameter	Min	Max	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1	RSPM	34.16	81.85	55.51	100

Online stack monitoring result is given below:

May, 2017

Stack\_1\_AFBC\_1&2

Sr. No.	Parameter	Min	Max	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1	RSPM	53.31	89.28	85.65	100

Ambient Air, Stack and Fugitive emission reports shall be submitted to the Ministry's Regional Office at Bhopal, GPCB and CPCB.

#### Stack\_2\_WHRB\_1&2

Sr. No.	Parameter	Min	Max	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1	RSPM	10.34	59.11	55.25	100

June,2017

#### Stack\_1\_AFBC\_1&2

Sr. No.	Parameter	Min	Max	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1	RSPM	47.87	90.47	74.30	100

#### Stack\_2\_WHRB\_1&2

Sr. No.	Parameter	Min	Max	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1	RSPM	10.34	73.84	50.85	100

July,2017

#### Stack\_1\_AFBC\_1&2

Sr. No.	Parameter	Min	Max	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1	RSPM	15.69	68.96	46.49	100

#### Stack\_2\_WHRB\_1&2

Sr. No.	Parameter	Min	Max	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1	RSPM	39.01	82.52		100

Company will submit the same to Bhopal within two month.

During the site visit, presence of online ambient air quality monitoring station in the plant premises could not be shown by the PP and as such, the PP shall furnish documentary evidences regarding installation of the same.

In view of the submission by the PP that continuous stack monitoring facilities for all the

stacks are already installed and the company will submit the reports to MoEF&CC, RO Bhopal within two months as well as in light of the addl. details sought w.r.t. installation of online ambient air quality monitoring stations, the condition is considered partly complied.

#### PARTLY COMPLIED.

ii) 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. Electrostatic Precipitator (ESP) shall be provided to WHRB as well as AFBC to control gaseous emissions within 100 mg/Nm<sup>3</sup>.

Project Proponent vide letter dated 09.08.2017 submitted the following;

Hot Gases from DRI kiln is passing 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 is cleaned in ESP before leaving out into the atmosphere through ID fan and stack. Electrostatic Precipitator (ESP) is provided to WHRB as well as AFBC to control gaseous emissions within 100 mg/Nm<sup>3</sup>.

Result of RSPM in ambient air by Third party – Greenleaf Envirotech Pvt. Ltd., GPCB Recognized No. GPCB/EA-249/233085 dated: 10/12/2014 and valid upto 31/12/2017 and online stack monitoring result is given below:

Result of RSPM in ambient air by Third party:

January, 2017 (19/01/2017)

Stack Attached to gasifier system attached with rolling mill

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	74.04	100

Stack Attached to WHRB Boiler-1 & 2 (Common Stack)

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	65.84	100

**Stack Attached to AFBC**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	86.92	100

**Stack Attached to Rotary Kiln-1 & 2 (Common Stack)**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	89.28	100

**Stack Attached to Iron Ore Crusher**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	20.18	100

**Stack Attached to Induction Furnace**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	43.57	100

**Stack Attached to Rolling Mills**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	27.97	100

**Avg. RSPM level – January, 2017**

Sr. No.	Parameter	Min	Max	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1	RSPM	20.18	89.28	58.25	100



February, 2017 (27/02/2017)

Stack Attached to gasifier system attached with rolling mill

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	46.61	100

Stack Attached to WHRB Boiler-1 & 2 (Common Stack)

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	64.18	100

Stack Attached to AFBC

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	65.94	100

Stack Attached to Rotary Kiln-1 & 2 (Common Stack)

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	81.05	100

Stack Attached to Iron Ore Crusher

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	28.28	100

Stack Attached to Induction Furnace

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	54.53	100

**Stack Attached to Rolling Mills**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	32.46	100

**Avg. RSPM level – February, 2017**

Sr. No.	Parameter	Min	Max	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1	RSPM	28.28	81.05	55.55	100

**March, 2017 (16/03/2017)**

**Stack Attached to gasifier system attached with rolling mill**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	65.77	100

**Stack Attached to WHRB Boiler-1 & 2 (Common Stack)**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	67.83	100

**Stack Attached to AFBC**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	89.33	100

**Stack Attached to Rotary Kiln-1 & 2 (Common Stack)**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	83.54	100

**Stack Attached to Iron Ore Crusher**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	53.57	100

**Stack Attached to Induction Furnace**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	65.76	100

**Stack Attached to Rolling Mills**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	45.65	100

**Avg. RSPM level – March, 2017**

Sr. No.	Parameter	Min	Max	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1	RSPM	45.65	89.33	67.35	100

April, 2017 (28/04/2017)

Stack Attached to gasifier system attached with rolling mill

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	53.87	100

Stack Attached to WHRB Boiler-1 &amp; 2 (Common Stack)

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	64.82	100

**Stack Attached to AFBC**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	67.24	100

**Stack Attached to Rotary Kiln-1 & 2 (Common Stack)**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	81.55	100

**Stack Attached to Iron Ore Crusher**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	31.85	100

**Stack Attached to Induction Furnace**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	55.34	100

**Stack Attached to Rolling Mills**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	43.88	100

**Avg. RSPM level – April, 2017**

Sr. No.	Parameter	Min	Max	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1	RSPM	31.85	81.55	56.93	100

May,2017 (25/05/2017)

Stack Attached to gasifier system attached with rolling mill

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	55.06	100

Stack Attached to WHRB Boiler-1 & 2 (Common Stack)

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	66.56	100

Stack Attached to AFBC

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	78.60	100

Stack Attached to Rotary Kiln-1 & 2 (Common Stack)

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	73.13	100

Stack Attached to Iron Ore Crusher

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	22.94	100

Stack Attached to Induction Furnace

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	16.11	100

**Stack Attached to Rolling Mills**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	25.07	100

**Avg. RSPM level – May, 2017**

Sr. No.	Parameter	Min	Max	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1	RSPM	16.11	78.60	48.21	100

June, 2017 (13/06/2017)

Stack Attached to gasifier system attached with rolling mill

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	45.04	100

Stack Attached to WHRB Boiler-1 &amp; 2 (Common Stack)

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	55.48	100

Stack Attached to AFBC

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	70.14	100

Stack Attached to Rotary Kiln-1 &amp; 2 (Common Stack)

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	81.85	100



**Stack Attached to Iron Ore Crusher**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	34.16	100

**Stack Attached to Induction Furnace**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	55.86	100

**Stack Attached to Rolling Mills**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	43.56	100

**Avg. RSPM level – June, 2017**

Sr. No.	Parameter	Min	Max	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1	RSPM	34.16	81.85	55.51	100

Online stack monitoring result is given below:

May, 2017

**Stack\_1\_AFBC\_1&2**

Sr. No.	Parameter	Min	Max	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1	RSPM	53.31	89.28	85.65	100

**Stack\_2\_WHRB\_1&2**

Sr. No.	Parameter	Min	Max	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1	RSPM	10.34	59.11	55.25	100

		June,2017				
		Stack_1_AFBC_1&2				
		Sr. No.	Parameter	Min	Max	Result mg/Nm <sup>3</sup>
						GPCB Norms mg/Nm <sup>3</sup>
		1	RSPM	47.87	90.47	74.30
						100
		Stack_2_WHRB_1&2				
		Sr. No.	Parameter	Min	Max	Result mg/Nm <sup>3</sup>
						GPCB Norms mg/Nm <sup>3</sup>
		1	RSPM	10.34	73.84	50.85
						100
		July,2017				
		Stack_1_AFBC_1&2				
		Sr. No.	Parameter	Min	Max	Result mg/Nm <sup>3</sup>
						GPCB Norms mg/Nm <sup>3</sup>
		1	RSPM	15.69	68.96	46.49
						100
		Stack_2_WHRB_1&2				
		Sr. No.	Parameter	Min	Max	Result mg/Nm <sup>3</sup>
						GPCB Norms mg/Nm <sup>3</sup>
		1	RSPM	39.01	82.52	
						100
	Dust extraction system with bag filter shall be provided to sponge iron plant.	Dust extraction system with bag filter is provided to sponge iron plant.				
		In view of the information furnished by the PP, the condition is considered complied.				
		COMPLIED				
iii)	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.	Project Proponent vide letter dated 09.08.2017 submitted the following;				
		Secondary fugitive emissions from all the sources is controlled by water sprinkling system, bag filter, dust collector and ESP. Guidelines / Code of Practice issued by the CPCB is followed and results are found within the latest permissible limits issued by the Ministry and regularly monitored by Third party – Greenleaf Envirotech Pvt. Ltd., GPCB Recognized No. GPCB/EA-249/233085 dated: 10/12/2014 and				

The emission standards issued by the Ministry in May, 2008 for the sponge plants should be followed.

valid upto 31/12/2017.

The emission standards issued by the Ministry in May, 2008 for the sponge plants are followed.

Result of RSPM in ambient air by Third party:

January, 2017 (19/01/2017)

Stack Attached to gasifier system attached with rolling mill

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	74.04	100
2.	SO <sub>2</sub>	21.30	100 ppm
3.	NO <sub>x</sub>	12.75	50 ppm

Stack Attached to WHRB Boiler-1 & 2 (Common Stack)

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	65.84	100
2.	SO <sub>2</sub>	25.84	100 ppm
3.	NO <sub>x</sub>	14.76	50 ppm

Stack Attached to AFBC

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	86.92	100
2.	SO <sub>2</sub>	22.86	100 ppm
3.	NO <sub>x</sub>	20.62	50 ppm

Stack Attached to Rotary Kiln-1 & 2 (Common Stack)

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	89.28	100
2.	SO <sub>2</sub>	18.78	100 ppm
3.	NO <sub>x</sub>	17.48	50 ppm

**Stack Attached to Iron Ore Crusher**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	20.18	100

**Stack Attached to Induction Furnace**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	43.57	100

**Stack Attached to Rolling Mills**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	27.97	100

**Avg. Emission level – – January, 2017**

Sr. No.	Parameter	Min	Max	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1	RSPM	20.18	89.28	58.25	100
2	SO <sub>2</sub>	18.78	25.84	22.31	100
3	NO <sub>x</sub>	12.75	20.62	16.68	50

**February, 2017 (27/02/2017)**

Stack Attached to gasifier system attached with rolling mill

Sr. No.	Parameter	Result mg/N m <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	46.61	100
2.	SO <sub>2</sub>	22.64	100 ppm
3.	NO <sub>x</sub>	10.55	50 ppm

**Stack Attached to WHRB Boiler-1 & 2 (Common Stack)**

Sr. No.	Parameter	Result mg/N m <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	64.18	100
2.	SO <sub>2</sub>	15.32	100 ppm
3.	NO <sub>x</sub>	13.48	50 ppm

**Stack Attached to AFBC**

Sr. No.	Parameter	Result mg/N m <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	65.94	100
2.	SO <sub>2</sub>	23.04	100 ppm
3.	NO <sub>x</sub>	15.57	50 ppm

**Stack Attached to Rotary Kiln-1 & 2 (Common Stack)**

Sr. No.	Parameter	Result mg/N m <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	81.05	100
2.	SO <sub>2</sub>	29.76	100 ppm
3.	NO <sub>x</sub>	18.13	50 ppm

**Stack Attached to Iron Ore Crusher**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	28.28	100

**Stack Attached to Induction Furnace**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	54.53	100

**Stack Attached to Rolling Mills**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	32.46	100

**Avg. Emission level – February, 2017**

Sr. No.	Parameter	Min	Max	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	28.28	81.05	55.55	100
2.	SO <sub>2</sub>	15.32	29.76	22.54	100 ppm
3.	NO <sub>x</sub>	10.55	18.13	14.34	50 ppm

March, 2017 (16/03/2017)

Stack Attached to gasifier system attached with rolling mill

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	65.77	100
2.	SO <sub>2</sub>	22.64	100 ppm
3.	NO <sub>x</sub>	14.41	50 ppm

Stack Attached to WHRB Boiler-1 & 2 (Common Stack)

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	67.83	100
2.	SO <sub>2</sub>	26.05	100 ppm
3.	NO <sub>x</sub>	12.89	50 ppm

Stack Attached to AFBC

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	89.33	100
2.	SO <sub>2</sub>	33.57	100 ppm
3.	NO <sub>x</sub>	20.46	50 ppm

Stack Attached to Rotary Kiln-1 & 2 (Common Stack)

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	83.54	100
2.	SO <sub>2</sub>	29.48	100 ppm
3.	NO <sub>x</sub>	18.91	50 ppm

Stack Attached to Iron Ore Crusher

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	53.57	100



**Stack Attached to Induction Furnace**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	65.76	100

**Stack Attached to Rolling Mills**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	45.65	100

**Avg. Emission level – – March,2017**

Sr. No.	Parameter	Min	Max	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1	RSPM	45.65	89.33	67.35	100
2	SO <sub>2</sub>	22.64	33.57	28.10	100 ppm
3	NO <sub>x</sub>	12.89	20.46	16.67	50 ppm

**April,2017 (28/04/2017)**

**Stack Attached to gasifier system attached with rolling mill**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	53.87	100
2.	SO <sub>2</sub>	11.89	100 ppm
3.	NO <sub>x</sub>	9.11	50 ppm

**Stack Attached to WHRB Boiler-1 & 2 (Common Stack)**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	64.82	100
2.	SO <sub>2</sub>	21.56	100 ppm
3.	NO <sub>x</sub>	15.73	50 ppm

**Stack Attached to AFBC**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	67.24	100
2.	SO <sub>2</sub>	22.45	100 ppm
3.	NO <sub>x</sub>	15.48	50 ppm

**Stack Attached to Rotary Kiln-1 & 2 (Common Stack)**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	81.55	100
2.	SO <sub>2</sub>	28.37	100 ppm
3.	NO <sub>x</sub>	17.05	50 ppm

**Stack Attached to Iron Ore Crusher**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	31.85	100

**Stack Attached to Induction Furnace**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	55.34	100

**Stack Attached to Rolling Mills**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	43.88	100

**Avg. Emission level – April, 2017**

Sr. No.	Parameter	Min	Max	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1	RSPM	31.85	81.55	56.93	100
2	SO <sub>2</sub>	11.89	28.37	20.13	100 ppm
3	NO <sub>x</sub>	9.11	17.05	13.08	50 ppm

May,2017 (25/05/2017)

Stack Attached to gasifier system attached with rolling mill

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	55.06	100
2.	SO <sub>2</sub>	22.48	100 ppm
3.	NO <sub>x</sub>	12.57	50 ppm

Stack Attached to WHRB Boiler-1 & 2 (Common Stack)

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	66.56	100
2.	SO <sub>2</sub>	22.14	100 ppm
3.	NO <sub>x</sub>	10.22	50 ppm

Stack Attached to AFBC

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	78.60	100
2.	SO <sub>2</sub>	23.07	100 ppm
3.	NO <sub>x</sub>	11.01	50 ppm

Stack Attached to Rotary Kiln-1 & 2 (Common Stack)

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	73.13	100
2.	SO <sub>2</sub>	28.79	100 ppm
3.	NO <sub>x</sub>	17.40	50 ppm

Stack Attached to Iron Ore Crusher

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	22.94	100

Stack Attached to Induction Furnace

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	16.11	100

**Stack Attached to Rolling Mills**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	25.07	100

**Avg. Emission level – May,2017**

Sr. No.	Parameter	Min	Max	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1	RSPM	16.11	78.60	48.21	100
2	SO <sub>2</sub>	22.14	28.79	25.46	100 ppm
3	NO <sub>x</sub>	10.22	17.40	13.81	50 ppm

June,2017 (13/06/2017)

Stack Attached to gasifier system attached with rolling mill

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	45.04	100
2.	SO <sub>2</sub>	11.43	100 ppm
3.	NO <sub>x</sub>	9.51	50 ppm

Stack Attached to WHRB Boiler-1 & 2 (Common Stack)

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	55.48	100
2.	SO <sub>2</sub>	22.53	100 ppm
3.	NO <sub>x</sub>	11.16	50 ppm

Stack Attached to AFBC

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	70.14	100
2.	SO <sub>2</sub>	24.52	100 ppm
3.	NO <sub>x</sub>	16.85	50 ppm

**Stack Attached to Rotary Kiln-1 & 2 (Common Stack)**

Sr. No.	Parameter	Result mg/N m <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	81.85	100
2.	SO <sub>2</sub>	29.48	100 ppm
3.	NO <sub>x</sub>	17.52	50 ppm

**Stack Attached to Iron Ore Crusher**

Sr. No.	Parameter	Result mg/N m <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	34.16	100

**Stack Attached to Induction Furnace**

Sr. No.	Parameter	Result mg/N m <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	55.86	100

**Stack Attached to Rolling Mills**

Sr. No.	Parameter	Result mg/N m <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	43.56	100

**Avg. Emission level -- June, 2017**

Sr. No.	Parameter	Min	Max	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1	RSPM	34.16	81.85	55.51	100
2	SO <sub>2</sub>	11.43	29.48	20.45	100 ppm
3	NO <sub>x</sub>	9.52	17.52	13.52	50 ppm

Result of emission is given below:

Online ambient air quality monitoring and continuous stack monitoring facilities for all the stacks are installed and it is connected to XGN website of GPCB and CPCB dated on 20/05/2017.

July, 2017

Sr. No.	Parameter	GPCB Norms	Max.	Min.	Avg.
1	SPM (mg/Nm <sup>3</sup> )	100	82.52	15.69	49.10
2	SO <sub>2</sub> (ppm)	100	0.1	0.25	0.20
3	NO <sub>x</sub> (ppm)	50	1.61	0.4	1.20

		<p>June,2017</p> <table><tr><th>Sr. No.</th><th>Parameter</th><th>GPCB Norms</th><th>Max.</th><th>Min.</th><th>Avg.</th></tr><tr><td>1</td><td>SPM (mg/Nm<sup>3</sup>)</td><td>100</td><td>82.52</td><td>10.34</td><td>46.43</td></tr><tr><td>2</td><td>SO2(ppm)</td><td>100</td><td>41.32</td><td>0.08</td><td>20.7m</td></tr><tr><td>3</td><td>NOx(ppm)</td><td>50</td><td>22.79</td><td>1.64</td><td>12.21</td></tr></table> <p>May,2017</p> <table><tr><th>Sr. No.</th><th>Parameter</th><th>GPCB Norms</th><th>Max.</th><th>Min.</th><th>Avg.</th></tr><tr><td>1</td><td>SPM (mg/Nm<sup>3</sup>)</td><td>100</td><td>89.28</td><td>10.34</td><td>49.81</td></tr><tr><td>2</td><td>SO2(ppm)</td><td>100</td><td>41.22</td><td>6.94</td><td>24.08</td></tr><tr><td>3</td><td>NOx(ppm)</td><td>50</td><td>61.35</td><td>19.89</td><td>40.92</td></tr></table> <p>In view of the information furnished and as observed from the monitoring results presented, it appears that the secondary fugitive emissions were not monitored as per the notification issued by the Ministry in 2008. Hence, the condition is considered partly complied.</p> <p><b>PARTLY COMPLIED</b></p>	Sr. No.	Parameter	GPCB Norms	Max.	Min.	Avg.	1	SPM (mg/Nm <sup>3</sup> )	100	82.52	10.34	46.43	2	SO2(ppm)	100	41.32	0.08	20.7m	3	NOx(ppm)	50	22.79	1.64	12.21	Sr. No.	Parameter	GPCB Norms	Max.	Min.	Avg.	1	SPM (mg/Nm <sup>3</sup> )	100	89.28	10.34	49.81	2	SO2(ppm)	100	41.22	6.94	24.08	3	NOx(ppm)	50	61.35	19.89	40.92
Sr. No.	Parameter	GPCB Norms	Max.	Min.	Avg.																																													
1	SPM (mg/Nm <sup>3</sup> )	100	82.52	10.34	46.43																																													
2	SO2(ppm)	100	41.32	0.08	20.7m																																													
3	NOx(ppm)	50	22.79	1.64	12.21																																													
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2	SO2(ppm)	100	41.22	6.94	24.08																																													
3	NOx(ppm)	50	61.35	19.89	40.92																																													
iv)	<p>Vehicular pollution due to transportation of raw material and finished product shall be controlled.</p> <p>Proper arrangements shall also be made to control dust emissions during loading and unloading of the raw material and finished product.</p>	<p>Project Proponent vide letter dated 09.08.2017 submitted the following:</p> <p>Company has installed water sprinkling system with concrete roads to control Vehicular pollution due to transportation of raw material and finished product.</p> <p>To control dust pollution during loading and unloading of raw materials, raw materials are unloaded inside closed godown and transferred to required places through conveyor belts with complete cover with sheets.</p> <p>During the site visit, it is observed that the internal roads of the plant are not paved. In view of the information furnished and the field observation above, the condition is considered complied subject to condition that internal roads shall be paved/metalled.</p> <p><b>COMPLIED SUBJECT TO ABOVE CONDITIONS</b></p>																																																
v)	<p>In-plant control measures for checking fugitive</p>	<p>Project Proponent vide letter dated 09.08.2017 submitted</p>																																																

<p>emissions from all the vulnerable sources shall be provided.</p> <p>Fugitive emissions shall be controlled by using closed storages, covered belt conveyors, bag house at transfer points and crusher house etc. Bag house, bag filters, dust collectors shall be provided at transfer points, raw material handling area, crusher house, screening plant, stock bin etc.</p> <p>Dust suppression system including wet sprinkling system shall be provided to crusher house, screen house raw material and product handling to control dust emissions. Crusher house shall be equipped with bag house to control fugitive emissions.</p> <p>Stack of adequate height shall be provided to rolling mill and DG set. Covered conveyor belt system shall be provided for internal transportation.</p> <p>Data on fugitive emissions shall be regularly monitored and records maintained.</p>	<p>the following;</p> <p>Company has installed water sprinkling system and dust house to control secondary fugitive emissions from all the sources.</p> <p>Company also provided covered belt conveyors, bag Filters at transfer points and crusher house to control fugitive emission.</p> <p>Bag filters, dust collectors are provided at transfer points, raw material handling area, crusher house, screening plant, stock bin etc</p> <p>Bag filters and water sprinkling systems are provided to Crusher house, Screening building, transfer house.</p> <p>Stack of adequate height are provided to rolling mill (Stack Height of rolling mill- 30 m) and DG set (Stack Height of DG set - 11 m) is completely dismantled due to high cost of fuel. Covered conveyor belt system is provided for internal transportation.</p> <p>Company is monitoring of fugitive emission regularly and records are maintained.</p> <p>In view of the information furnished by the PP and due to following reasons, the condition is considered partly complied. :</p> <ol style="list-style-type: none"> <li>1. No proper control measures for collection of emissions from the induction furnaces were observed.</li> <li>2. No proper control measures for collection of secondary emissions from the induction furnaces were observed.</li> <li>3. No records of fugitive emission data were furnished.</li> </ol> <p><b>PARTLY COMPLIED</b></p>
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vi)	<p>Total water requirement from Gujarat Water Infrastructure Ltd. (GWIL) shall not exceed 800 m<sup>3</sup>/day as per permission accorded vide letter dated 5th February, 2008. As proposed, no surface/ground water will be used.</p> <p>The wastewater from power plant shall be treated in neutralization pit and treated wastewater shall be recycled / reutilized in the process and/or for cooling, dust suppression and green belt development.</p> <p>No process water shall be discharged and 'Zero' discharge shall be adopted.</p> <p>Domestic wastes shall be treated in Septic tank followed by soak pit and used for gardening and plantation</p>	<p>Project Proponent vide letter dated 09.08.2017 submitted the following;</p> <p>Total water requirement from Gujarat Water Infrastructure Ltd. (GWIL) is not exceed 800 m<sup>3</sup>/day.</p> <p>Avg. Water Consumption of January, 2017: 751 m<sup>3</sup>/day</p> <p>Avg. Water Consumption of February, 2017: 578 m<sup>3</sup>/day</p> <p>Avg. Water Consumption of March, 2017: 721 m<sup>3</sup>/day</p> <p>Avg. Water Consumption of April, 2017: 756 m<sup>3</sup>/day</p> <p>Avg. Water Consumption of May, 2017: 792 m<sup>3</sup>/day</p> <p>Avg. Water Consumption of June, 2017: 734 m<sup>3</sup>/day</p> <p>Permission letter is also furnished.</p> <p>The wastewater (155 KL/Day) from plant is treated in neutralization pit and treated wastewater is recycled / reutilized in the process and/or for cooling, dust suppression and green belt development.</p> <p>Zero liquid discharge is adopted by reusing the treated effluent.</p> <p>Domestic wastes are treated in Septic tank followed by soak pit and used for gardening and plantation.</p> <p>In view of the information furnished by the PP, the condition is considered complied subject to submission of following information :</p> <ol style="list-style-type: none"> <li>1. Summary of month-wise min. and max. water consumption per day during the period of compliance.</li> <li>2. Certification that no surface/ground water was used by the PP.</li> </ol> <p><b>COMPLIED SUBJECT TO ABOVE CONDITIONS</b></p>
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vii)	<p>New DRI kiln shall be provided with waste heat recovery boiler (WHRB) to make use of flue gases generated during the process. All the char from existing and proposed DRI plant shall be utilized in AFBC boiler of power plant and no char should be disposed off anywhere else. AFBC boiler shall be installed simultaneously along with the DRI plant to ensure full utilization of char from the beginning.</p> <p>All the other solid / hazardous waste generated shall be properly utilized or disposed off in environment friendly manner. Waste/spent oil shall be sold to recyclers as per the Hazardous Waste (Management &amp; Handling) Rules, 1989 and subsequent amendments.</p>	<p>Project Proponent vide letter dated 09.08.2017 submitted the following;</p> <p>A new DRI kiln is provided with WHRB and the char generated is used in AFBC boiler.</p> <p>Generated all the solid /hazardous wastes like ETP Sludge (5.3 MT/Year), Tar Residue (185 MT/Year), Discarded Container and Used Oil are disposed in environment friendly manner as per the Hazardous Waste (Management &amp; Handling) Rules, 1989 and subsequent amendments.</p> <p>ETP Sludge (5.3 MT/Year) is disposed to Common TSDF site, M/s. SEPPL, Kutch.</p> <p>Tar Residue (185 MT/Year) is disposed to Common Incinerator site, M/s. SEPPL, Kutch.</p> <p>Discarded Container and used oil are disposed by selling to authorized recycler.</p> <p>In view of the information furnished by the PP, the condition is considered complied subject to submission of following:</p> <ol style="list-style-type: none"> <li>1. Valid MoU/Agreement with M/s. SEPPL, Kutch and details of the quantum of hazardous waste disposed annually over the last 3 years.</li> <li>2. Valid MoU/Agreement with authorized recycler for discarded container and used oil and details of the quantum of hazardous waste disposed annually over the last 3 years.</li> <li>3. From the submission of PP, it appears that char generated will be used in AFBC boiler, a clarification shall be submitted w.r.t installation of AFBC boiler and whether char generated so far has been completely used in AFBC boiler.</li> </ol> <p><b>COMPLIED SUBJECT TO ABOVE CONDITIONS</b></p>
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viii)	<p>Proper utilization of fly ash shall be ensured as per Fly ash Notification, 1999 and subsequent amendment in 2003.</p> <p>All the fly ash shall be provided to cement and brick manufacturers for further utilization and bottom ash shall be used for land filling.</p>	<p>Project Proponent vide letter dated 09.08.2017 submitted the following;</p> <p>Proper utilization of Fly ash (Avg. 256 MT/Month) is ensured by using in bricks manufacturing in house plant and sold to local bricks manufacturer.</p> <p>During the site visit, it is observed that huge quantities of solid waste are found lying in the open areas. PAs shall make efforts for utilization/disposal of the same at the earliest.</p> <p>In view of the information furnished by the PP and as per the site inspection, the condition is considered not complied till submission of following documentary evidences:</p> <ol style="list-style-type: none"> <li>1. Valid MoU/Agreement with Cement /Brick manufacturers and details of the quantum of fly ash disposed annually over the last 3 years.</li> <li>2. Mode of utilization of bottom ash.</li> <li>3. Quantum of solid waste (All types) lying within the plant premises and time targeted action plan for disposal of the same.</li> </ol> <p><b>NOT COMPLIED</b></p>
ix)	<p>A time bound action plan shall be submitted to reduce solid waste, its proper utilization and disposal.</p>	<p>Project Proponent vide letter dated 09.08.2017 submitted the following;</p> <p>Company is using high GCV coal and iron pellets in DRI to reduce solid waste generation. Slag generated in furnace is used in road making inside plant and nearby villages. Fly ash of power plant (Avg. 256 MT/Month) is used in bricks manufacturing.</p> <p>During the site visit, it is observed that huge quantities of solid waste are found lying in the open. PAs shall make efforts for utilization/disposal of the same.</p> <p>In view of the information furnished by the PP and the fact that no details of time bound action plan were furnished as well as huge quantities of solid</p>

		<p>waste is found lying in plant premises, the condition is considered not complied.</p> <p><b>NOT COMPLIED</b></p>
x)	<p>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, APPCB and CPCB.</p>	<p>Project Proponent vide letter dated 09.08.2017 submitted the following;</p> <p>Generation of hazardous wastes from different plant are stored at different place as per available space of different plant.</p> <p>There is no generation of toxic metal content in the waste material during process.</p> <p>In view of the submission by the PP and as no details of the related reports were furnished as well as huge piles of solid waste were found within the plant premises without any utilization, the condition is considered not complied.</p> <p><b>NOT COMPLIED.</b></p>
xi)	<p>As proposed, green belt shall be developed in 29 acres (33 %) out of total 87.17 acres in and around the plant premises to mitigate the effects of fugitive emissions all around the plant as per the CPCB guidelines in consultation with IDFO.</p>	<p>Project Proponent vide letter dated 09.08.2017 submitted the following;</p> <p>Company has developed the approx. 30% (Approx. 26 acres) green belt in factory premise and around the plant premises.</p> <p>In view of the information furnished and the fact that greenbelt is found in patches along the plant periphery, the condition is considered partly complied.</p> <p><b>PARTLY COMPLIED</b></p>
xii)	<p>All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Sector shall be implemented and progress report shall be submitted to MOEF/CPCB.</p>	<p>Project Proponent vide letter dated 09.08.2017 submitted the following;</p> <p>Company follows the all the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Sector. However, detailed information not furnished as well as Progress report is not submitted to MoEF/CPCB.</p> <p>In view of the submission by the PP, the condition</p>

		is considered partly complied.
		<b>PARTLY COMPLIED</b>
xiii)	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.	<p>Project Proponent vide letter dated 09.08.2017 submitted the following;</p> <p>Partly complied-Company has been provided facilities such as fuel for mobile toilets, safe drinking water, medical health care, crèche etc.</p> <p>The housing was providing in the form of temporary structures to be removed after the completion of the project.</p> <p>In view of the submission by the PP, the condition is deemed partly complied as construction phase is over.</p> <p><b>DEEMED PARTLY COMPLIED</b></p>
<b>B</b>	<b>GENERAL CONDITIONS</b>	
i)	The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board and the State Government.	<p>Project Proponent vide letter dated 09.08.2017 submitted the following;</p> <p>The project authorities have been strictly adhering to the stipulation of the GPCB/ state government or any statutory body.</p> <p>In view of the submission by the PP, the condition is considered complied subject to submission of detailed compliance of all the stipulations in the CCA.</p> <p><b>COMPLIED SUBJECT TO ABOVE CONDITIONS</b></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>Project Proponent vide letter dated 09.08.2017 submitted the following;</p> <p>No further expansion or modifications in the plant has been carried out without approval of the ministry of environment and forest.</p> <p>In view of the submission by the PP, the condition is considered complied.</p> <p><b>COMPLIED</b></p>

iii) The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19 May, 1993 and standards prescribed from time to time.

The Gujarat Pollution Control Board (GPCB) 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 levels shall go beyond the prescribed standards.

Project Proponent vide letter dated 09.08.2017 submitted the following:

The gaseous emissions from various process units is found below the GPCB standards.

Month wise monitoring data of gaseous emissions from various process units is found within the GPCB standards. Monitoring is done by Third party – Greenleaf Envirotech Pvt. Ltd., GPCB Recognized No. GPCB/EA-249/233085 dated: 10/12/2014 and valid upto 31/12/2017 And result is given below:

Result of RSPM in ambient air by Third party:

January, 2017 (19/01/2017)

Stack Attached to gasifier system attached with rolling mill

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	74.04	100
2.	SO <sub>2</sub>	21.30	100 ppm
3.	NO <sub>x</sub>	12.75	50 ppm

Stack Attached to WHRB Boiler-1 & 2 (Common Stack)

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	65.84	100
2.	SO <sub>2</sub>	25.84	100 ppm
3.	NO <sub>x</sub>	14.76	50 ppm

Stack Attached to AFBC

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	86.92	100
2.	SO <sub>2</sub>	22.86	100 ppm
3.	NO <sub>x</sub>	20.62	50 ppm

Stack Attached to Rotary Kiln-1 & 2 (Common Stack)

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	89.28	100
2.	SO <sub>2</sub>	18.78	100 ppm
3.	NO <sub>x</sub>	17.48	50 ppm

Stack Attached to Iron Ore Crusher

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	20.18	100

Stack Attached to Induction Furnace

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	43.57	100

Stack Attached to Rolling Mills

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	27.97	100

Avg. Emission level -- January, 2017

Sr. No.	Parameter	Min	Max	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1	RSPM	20.18	89.28	58.25	100
2	SO <sub>2</sub>	18.78	25.84	22.31	100
3	NO <sub>x</sub>	12.75	20.62	16.68	50

February, 2017 (27/02/2017)

Stack Attached to gasifier system attached with rolling mill

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	46.61	100
2.	SO <sub>2</sub>	22.64	100 ppm
3.	NO <sub>x</sub>	10.55	50 ppm

**Stack Attached to WHRB Boiler-1 & 2 (Common Stack)**

Sr. No.	Parameter	Result mg/N m <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	64.18	100
2.	SO <sub>2</sub>	15.32	100 ppm
3.	NO <sub>x</sub>	13.48	50 ppm

**Stack Attached to AFBC**

Sr. No.	Parameter	Result mg/N m <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	65.94	100
2.	SO <sub>2</sub>	23.04	100 ppm
3.	NO <sub>x</sub>	15.57	50 ppm

**Stack Attached to Rotary Kiln-1 & 2 (Common Stack)**

Sr. No.	Parameter	Result mg/N m <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	81.05	100
2.	SO <sub>2</sub>	29.76	100 ppm
3.	NO <sub>x</sub>	18.13	50 ppm

**Stack Attached to Iron Ore Crusher**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	28.28	100

**Stack Attached to Induction Furnace**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	54.53	100

**Stack Attached to Rolling Mills**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	32.46	100

**Avg. Emission level – February, 2017**

Sr. No.	Parameter	Min	Max	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	28.28	81.05	55.55	100
2.	SO <sub>2</sub>	15.32	29.76	22.54	100 ppm
3.	NO <sub>x</sub>	10.55	18.13	14.34	50 ppm

**March, 2017 (16/03/2017)**

Stack Attached to gasifier system attached with rolling mill

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	65.77	100
2.	SO <sub>2</sub>	22.64	100 ppm
3.	NO <sub>x</sub>	14.41	50 ppm

Stack Attached to WHRB Boiler-1 & 2 (Common Stack)

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	67.83	100
2.	SO <sub>2</sub>	26.05	100 ppm
3.	NO <sub>x</sub>	12.89	50 ppm

Stack Attached to AFBC

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	89.33	100
2.	SO <sub>2</sub>	33.57	100 ppm
3.	NO <sub>x</sub>	20.46	50 ppm

Stack Attached to Rotary Kiln-1 & 2 (Common Stack)

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	83.54	100
2.	SO <sub>2</sub>	29.48	100 ppm
3.	NO <sub>x</sub>	18.91	50 ppm



**Stack Attached to Iron Ore Crusher**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	53.57	100

**Stack Attached to Induction Furnace**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	65.76	100

**Stack Attached to Rolling Mills**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	45.65	100

**Avg. Emission level -- March, 2017**

Sr. No.	Parameter	Min	Max	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1	RSPM	45.65	89.33	67.35	100
2	SO <sub>2</sub>	22.64	33.57	28.10	100 ppm
3	NO <sub>x</sub>	12.89	20.46	16.67	50 ppm

**April, 2017 (28/04/2017)**

**Stack Attached to gasifier system attached with rolling mill**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	53.87	100
2.	SO <sub>2</sub>	11.89	100 ppm
3.	NO <sub>x</sub>	9.11	50 ppm

**Stack Attached to WHRB Boiler-1 & 2 (Common Stack)**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	64.82	100
2.	SO <sub>2</sub>	21.56	100 ppm
3.	NO <sub>x</sub>	15.73	50 ppm

**Stack Attached to AFBC**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	67.24	100
2.	SO <sub>2</sub>	22.45	100 ppm
3.	NO <sub>x</sub>	15.48	50 ppm

**Stack Attached to Rotary Kiln-1 & 2 (Common Stack)**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	81.55	100
2.	SO <sub>2</sub>	28.37	100 ppm
3.	NO <sub>x</sub>	17.05	50 ppm

**Stack Attached to Iron Ore Crusher**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	31.85	100

**Stack Attached to Induction Furnace**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	55.34	100

**Stack Attached to Rolling Mills**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	43.88	100

**Avg. Emission level -- April, 2017**

Sr. No.	Parameter	Min	Max	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1	RSPM	31.85	81.55	56.93	100
2	SO <sub>2</sub>	11.89	28.37	20.13	100 ppm
3	NO <sub>x</sub>	9.11	17.05	13.08	50 ppm

May, 2017 (25/05/2017)

Stack Attached to gasifier system attached with rolling mill

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	55.06	100
2.	SO <sub>2</sub>	22.48	100 ppm
3.	NO <sub>x</sub>	12.57	50 ppm

Stack Attached to WHRB Boiler-1 & 2 (Common Stack)

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	66.56	100
2.	SO <sub>2</sub>	22.14	100 ppm
3.	NO <sub>x</sub>	10.22	50 ppm

Stack Attached to AFBC

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	78.60	100
2.	SO <sub>2</sub>	23.07	100 ppm
3.	NO <sub>x</sub>	11.01	50 ppm

Stack Attached to Rotary Kiln-1 & 2 (Common Stack)

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	73.13	100
2.	SO <sub>2</sub>	28.79	100 ppm
3.	NO <sub>x</sub>	17.40	50 ppm

**Stack Attached to Iron Ore Crusher**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	22.94	100

**Stack Attached to Induction Furnace**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	16.11	100

**Stack Attached to Rolling Mills**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	25.07	100

**Avg. Emission level – – May,2017**

Sr. No.	Parameter	Min	Max	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1	RSPM	16.11	78.60	48.21	100
2	SO <sub>2</sub>	22.14	28.79	25.46	100 ppm
3	NO <sub>x</sub>	10.22	17.40	13.81	50 ppm

**June,2017 (13/06/2017)**

**Stack Attached to gasifier system attached with rolling mill**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	45.04	100
2.	SO <sub>2</sub>	11.43	100 ppm
3.	NO <sub>x</sub>	9.51	50 ppm

**Stack Attached to WHRB Boiler-1 & 2 (Common Stack)**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	55.48	100
2.	SO <sub>2</sub>	22.53	100 ppm
3.	NO <sub>x</sub>	11.16	50 ppm

**Stack Attached to AFBC**

Sr. No.	Parameter	Result mg/N m <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	70.14	100
2.	SO <sub>2</sub>	24.52	100 ppm
3.	NO <sub>x</sub>	16.85	50 ppm

**Stack Attached to Rotary Kiln-1 & 2 (Common Stack)**

Sr. No.	Parameter	Result mg/N m <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	81.85	100
2.	SO <sub>2</sub>	29.48	100 ppm
3.	NO <sub>x</sub>	17.52	50 ppm

**Stack Attached to Iron Ore Crusher**

Sr. No.	Parameter	Result mg/N m <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	34.16	100

**Stack Attached to Induction Furnace**

Sr. No.	Parameter	Result mg/N m <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	55.86	100

**Stack Attached to Rolling Mills**

Sr. No.	Parameter	Result mg/N m <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	43.56	100

**Avg. Emission level -- June, 2017**

Sr. No.	Parameter	Min	Max	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1	RSPM	34.16	81.85	55.51	100
2	SO <sub>2</sub>	11.43	29.48	20.45	100 ppm
3	NO <sub>x</sub>	9.52	17.52	13.52	50 ppm

Result of emission is given below:

Online ambient air quality monitoring and

continuous stack monitoring facilities for all the stacks are installed and it is connected to XGN website of GPCB and CPCB dated on 20/05/2017.

July,2017

Sr. No.	Parameter	GPCB Norms	Max.	Min.	Avg.
1	SPM (mg/Nm <sup>3</sup> )	100	82.52	15.69	49.10
2	SO2(ppm)	100	0.1	0.25	0.20
3	NOx(ppm)	50	1.61	0.4	1.20

June,2017

Sr. No.	Parameter	GPCB Norms	Max.	Min.	Avg.
1	SPM (mg/Nm <sup>3</sup> )	100	82.52	10.34	46.43
2	SO2(ppm)	100	41.32	0.08	20.70
3	NOx(ppm)	50	22.79	1.64	12.21

May,2017

Sr. No.	Parameter	GPCB Norms	Max.	Min.	Avg.
1	SPM (mg/Nm <sup>3</sup> )	100	89.28	10.34	49.81
2	SO2(ppm)	100	41.22	6.94	24.08
3	NOx(ppm)	50	61.35	19.89	40.92

Company always restarts the unit until the control measures are rectified to achieve the desired efficiency, In the event of failure of any pollution control system adopted by the unit.

In view of the information furnished by the PP, the condition is considered complied.

**COMPLIED**

iv) In-plant control measures for controlling fugitive emissions from spillage raw materials handling shall be provided. Further.

Specific measures like water spraying at all the transfer points, conveyor and hoppers, curtains, suitable enclosures, dust collection system and water sprinkling on road shall be provided to control fugitive emissions. Dust suppression through water sprinkling shall be adopted in raw material handling area, unloading areas and transfer points to control fugitive emissions.

Project Proponent vide letter dated 09.08.2017 submitted the following;

Company has installed water sprinkling system and dust house to control secondary fugitive emissions from all the sources.

Company also provided covered belt conveyors, bag house at transfer points and crusher house etc. Bag house, bag filters, dust collectors at transfer points, raw material handling area, crusher house, screening plant, stock bin etc.

Dust extraction system shall be provided at various dust generating points to control fugitive emissions.

Data on fugitive emissions shall be regularly monitored and records maintained.

Dust extraction system has been provided at various dust generating points to control fugitive emissions.

Data on Fugitive Emission like RSPM is monitored regularly and records maintained. A result is given in Specific Condition No.1.

Result of RSPM in ambient air by Third party:

January,2017 (19/01/2017)

Stack Attached to gasifier system attached with rolling mill

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/N m <sup>3</sup>
1.	RSPM	74.04	100

Stack Attached to WHRB Boiler-1 & 2 (Common Stack)

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/N m <sup>3</sup>
1.	RSPM	65.84	100

Stack Attached to AFBC

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/N m <sup>3</sup>
1.	RSPM	86.92	100

Stack Attached to Rotary Kiln-1 & 2 (Common Stack)

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/N m <sup>3</sup>
1.	RSPM	89.28	100

**Stack Attached to Iron Ore Crusher**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	20.18	100

**Stack Attached to Induction Furnace**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	43.57	100

**Stack Attached to Rolling Mills**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	27.97	100

**Avg. RSPM level – January, 2017**

Sr. No.	Parameter	Min	Max	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1	RSPM	20.18	89.28	58.25	100

**February, 2017 (27/02/2017)****Stack Attached to gasifier system attached with rolling mill**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	46.61	100

**Stack Attached to WHRB Boiler-1 & 2 (Common Stack)**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	64.18	100



**Stack Attached to AFBC**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	65.94	100

**Stack Attached to Rotary Kiln-1 & 2 (Common Stack)**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	81.05	100

**Stack Attached to Iron Ore Crusher**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	28.28	100

**Stack Attached to Induction Furnace**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	54.53	100

**Stack Attached to Rolling Mills**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	32.46	100

**Avg. RSPM level – February, 2017**

Sr. No.	Parameter	Min	Max	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1	RSPM	28.28	81.05	55.55	100

March,2017 (16/03/2017)

Stack Attached to gasifier system attached with rolling mill

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	65.77	100

Stack Attached to WHRB Boiler-1 & 2 (Common Stack)

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	67.83	100

Stack Attached to AFBC

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	89.33	100

Stack Attached to Rotary Kiln-1 & 2 (Common Stack)

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	83.54	100

Stack Attached to Iron Ore Crusher

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	53.57	100

Stack Attached to Induction Furnace

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	65.76	100

**Stack Attached to Rolling Mills**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	45.65	100

**Avg. RSPM level – March,2017**

Sr. No.	Parameter	Min	Max	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1	RSPM	45.65	89.33	67.35	100

April,2017 (28/04/2017)

Stack Attached to gasifier system attached with rolling mill

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	53.87	100

Stack Attached to WHRB Boiler-1 &amp; 2 (Common Stack)

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	64.82	100

Stack Attached to AFBC

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	67.24	100

Stack Attached to Rotary Kiln-1 &amp; 2 (Common Stack)

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	81.55	100

**Stack Attached to Iron Ore Crusher**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	31.85	100

**Stack Attached to Induction Furnace**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	55.34	100

**Stack Attached to Rolling Mills**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	43.88	100

**Avg. RSPM level – April,2017**

Sr. No.	Parameter	Min	Max	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1	RSPM	31.85	81.55	56.93	100

**May,2017 (25/05/2017)**

Stack Attached to gasifier system attached with rolling mill

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	55.06	100

Stack Attached to WHRB Boiler-1 & 2 (Common Stack)

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	66.56	100

**Stack Attached to AFBC**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	78.60	100

**Stack Attached to Rotary Kiln-1 & 2 (Common Stack)**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	73.13	100

**Stack Attached to Iron Ore Crusher**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	22.94	100

**Stack Attached to Induction Furnace**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	16.11	100

**Stack Attached to Rolling Mills**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	25.07	100

**Avg. RSPM level – May, 2017**

Sr. No.	Parameter	Min	Max	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1	RSPM	16.11	78.60	48.21	100

June,2017 (13/06/2017)

Stack Attached to gasifier system attached with rolling mill

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	45.04	100

Stack Attached to WHRB Boiler-1 & 2 (Common Stack)

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	55.48	100

Stack Attached to AFBC

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	70.14	100

Stack Attached to Rotary Kiln-1 & 2 (Common Stack)

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	81.85	100

Stack Attached to Iron Ore Crusher

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	34.16	100

Stack Attached to Induction Furnace

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	55.86	100

**Stack Attached to Rolling Mills**

Sr. No.	Parameter	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1.	RSPM	43.56	100

**Avg. RSPM level – June,2017**

Sr. No.	Parameter	Min	Max	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1	RSPM	34.16	81.85	55.51	100

Online stack monitoring result is given below:

**May,2017**

**Stack\_1\_AFBC\_1&2**

Sr. No.	Parameter	Min	Max	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1	RSPM	53.31	89.28	85.65	100

**Stack\_2\_WHRB\_1&2**

Sr. No.	Parameter	Min	Max	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1	RSPM	10.34	59.11	55.25	100

**June,2017**

**Stack\_1\_AFBC\_1&2**

Sr. No.	Parameter	Min	Max	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1	RSPM	47.87	90.47	74.30	100

**Stack\_2\_WHRB\_1&2**

Sr. No.	Parameter	Min	Max	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1	RSPM	10.34	73.84	50.85	100

July,2017

Stack\_1\_AFBC\_1&2

Sr. No.	Parameter	Min	Max	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1	RSPM	15.69	68.96	46.49	100

Stack\_2\_WHRB\_1&2

Sr. No.	Parameter	Min	Max	Result mg/Nm <sup>3</sup>	GPCB Norms mg/Nm <sup>3</sup>
1	RSPM	39.01	82.52		100

In view of the submission by the PP and in the absence of fugitive emission monitoring data test reports, the condition is considered partly complied.

PARTLY COMPLIED.

v) At least four ambient air quality monitoring stations shall be established in the downwind direction as well as where maximum ground level concentration of SPM, SO<sub>2</sub> and NO<sub>x</sub> are anticipated in consultation with the State Pollution Control Board.

Project Proponent vide letter dated 09.08.2017 submitted the following;

**Partly Complied** – Company carries out the ambient air quality monitoring within the premises.

Monitoring is done by Third party – Greenleaf Envirotech Pvt. Ltd., GPCB Recognized No. GPCB/EA-249/233085 dated: 10/12/2014 and valid upto 31/12/2017 And result is given below:

Results of ambient air quality is given below:  
January -2017 (19/01/2017 to 20/01/2017).

At Main Gate

SR. NO.	PARAMETER	UNIT	PERMISSIBLE LIMIT		RESULTS
			Time Weighted Average	Result	
1.	Suspended Particulate Matter (SPM)	µg/m <sup>3</sup>	–	–	121.24
2.	Particulate Matter (PM <sub>10</sub> )	µg/m <sup>3</sup>	24 hrs	100	86.48
3.	Particulate Matter (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	24 hrs	60	58.71
4.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	24 hrs	80	18.22



5.	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	24 hrs	80	16.54
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**At ETP Area**

SR. NO.	PARAMETER	UNIT	PERMISSIBLE LIMIT		RESULTS
			Time Weighted Average	Results	
1.	Suspended Particulate Matter (SPM)	µg/m <sup>3</sup>	--	--	124.25
2.	Particulate Matter (PM <sub>10</sub> )	µg/m <sup>3</sup>	24 hrs	100	91.67
3.	Particulate Matter (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	24 hrs	60	51.31
4.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	24 hrs	80	13.46
5.	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	24 hrs	80	10.87

**February -2017 (27/02/2017 to 28/02/2017).**

**At Main Gate**

SR. NO.	PARAMETER	UNIT	PERMISSIBLE LIMIT		RESULT
			Time Weighted Average	Limit	
1.	Suspended Particulate Matter (SPM)	µg/m <sup>3</sup>	--	--	138.05
2.	Particulate Matter (PM <sub>10</sub> )	µg/m <sup>3</sup>	24 hrs	100	91.16
3.	Particulate Matter (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	24 hrs	60	56.04
4.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	24 hrs	80	19.91
5.	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	24 hrs	80	17.34

At ETP Area

SR. NO.	PARAMETER	UNIT	PERMISSIBLE LIMIT		RESULTS
			Time Weighted Average	Limit	
1.	Suspended Particulate Matter (SPM)	$\mu\text{g}/\text{m}^3$	--	--	125.40
2.	Particulate Matter ( $\text{PM}_{10}$ )	$\mu\text{g}/\text{m}^3$	24 hrs	100	82.46
3.	Particulate Matter ( $\text{PM}_{2.5}$ )	$\mu\text{g}/\text{m}^3$	24 hrs	60	48.44
4.	Sulphur Dioxide ( $\text{SO}_2$ )	$\mu\text{g}/\text{m}^3$	24 hrs	80	14.18
5.	Nitrogen Dioxide ( $\text{NO}_2$ )	$\mu\text{g}/\text{m}^3$	24 hrs	80	12.56

March-2017 (16/03/2017 to 17/03/2017).

At Main Gate

SR. NO.	PARAMETER	UNIT	PERMISSIBLE LIMIT		RESULTS
			Time Weighted Average	Limit	
1.	Suspended Particulate Matter (SPM)	$\mu\text{g}/\text{m}^3$	--	--	135.69
2.	Particulate Matter ( $\text{PM}_{10}$ )	$\mu\text{g}/\text{m}^3$	24 hrs	100	89.54
3.	Particulate Matter ( $\text{PM}_{2.5}$ )	$\mu\text{g}/\text{m}^3$	24 hrs	60	52.67
4.	Sulphur Dioxide ( $\text{SO}_2$ )	$\mu\text{g}/\text{m}^3$	24 hrs	80	16.43
5.	Nitrogen Dioxide ( $\text{NO}_2$ )	$\mu\text{g}/\text{m}^3$	24 hrs	80	14.22

At ETP Area

SR. NO.	PARAMETER	UNIT	PERMISSIBLE LIMIT		RESULTS
			Time Weighted Average	Limit	
1.	Suspended Particulate Matter (SPM)	$\mu\text{g}/\text{m}^3$	--	--	131.25
2.	Particulate	$\mu\text{g}/\text{m}^3$	24 hrs	100	82.6

	Matter (PM <sub>10</sub> )				1
3.	Particulate Matter (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	24 hrs	60	47.31
4.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	24 hrs	80	12.15
5.	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	24 hrs	80	10.08

April-2017 (28/04/2017 to 29/04/2017).

At Main Gate

SR. NO.	PARAMETER	UNIT	PERMISSIBLE LIMIT		RESULTS
			Time Weighted Average	Limit	
1.	Suspended Particulate Matter (SPM)	µg/m <sup>3</sup>	--	-	141.48
2.	Particulate Matter (PM <sub>10</sub> )	µg/m <sup>3</sup>	24 hrs	100	92.64
3.	Particulate Matter (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	24 hrs	60	51.58
4.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	24 hrs	80	14.59
5.	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	24 hrs	80	12.35

At ETP Area

SR. NO.	PARAMETER	UNIT	PERMISSIBLE LIMIT		RESULTS
			Time Weighted Average	Limit	
1.	Suspended Particulate Matter (SPM)	µg/m <sup>3</sup>	--	--	131.77
2.	Particulate Matter (PM <sub>10</sub> )	µg/m <sup>3</sup>	24 hrs	100	89.97
3.	Particulate Matter (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	24 hrs	60	46.79
4.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	24 hrs	80	11.76
5.	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	24 hrs	80	9.87

May, 2017(25/05/2017 to 26/05/2017).

At Main Gate

SR. NO.	PARAMETER	UNIT	PERMISSIBLE LIMIT		RESULTS
			Time Weighted Average	Limit	
1.	Suspended Particulate Matter (SPM)	$\mu\text{g}/\text{m}^3$	--	--	139.94
2.	Particulate Matter ( $\text{PM}_{10}$ )	$\mu\text{g}/\text{m}^3$	24 hrs	100	92.46
3.	Particulate Matter ( $\text{PM}_{2.5}$ )	$\mu\text{g}/\text{m}^3$	24 hrs	60	49.33
4.	Sulphur Dioxide ( $\text{SO}_2$ )	$\mu\text{g}/\text{m}^3$	24 hrs	80	17.78
5.	Nitrogen Dioxide ( $\text{NO}_2$ )	$\mu\text{g}/\text{m}^3$	24 hrs	80	15.42

At ETP Area

SR. NO.	PARAMETER	UNIT	PERMISSIBLE LIMIT		RESULTS
			Time Weighted Average	Limit	
1.	Suspended Particulate Matter (SPM)	$\mu\text{g}/\text{m}^3$	--	--	134.93
2.	Particulate Matter ( $\text{PM}_{10}$ )	$\mu\text{g}/\text{m}^3$	24 hrs	100	82.14
3.	Particulate Matter ( $\text{PM}_{2.5}$ )	$\mu\text{g}/\text{m}^3$	24 hrs	60	47.54
4.	Sulphur Dioxide ( $\text{SO}_2$ )	$\mu\text{g}/\text{m}^3$	24 hrs	80	13.85
5.	Nitrogen Dioxide ( $\text{NO}_2$ )	$\mu\text{g}/\text{m}^3$	24 hrs	80	12.43

June, 2017(25/05/2017 to 26/05/2017).

At Main Gate

SR. NO.	PARAMETER	UNIT	PERMISSIBLE LIMIT		RES ULT S
			Time Weighted Average	Limit	
1.	Suspended Particulate Matter (SPM)	$\mu\text{g}/\text{m}^3$	--	--	145.06
2.	Particulate Matter ( $\text{PM}_{10}$ )	$\mu\text{g}/\text{m}^3$	24 hrs	100	92.23
3.	Particulate Matter ( $\text{PM}_{2.5}$ )	$\mu\text{g}/\text{m}^3$	24 hrs	60	53.46
4.	Sulphur Dioxide ( $\text{SO}_2$ )	$\mu\text{g}/\text{m}^3$	24 hrs	80	13.57
5.	Nitrogen Dioxide ( $\text{NO}_2$ )	$\mu\text{g}/\text{m}^3$	24 hrs	80	12.24

At ETP Area

SR. NO.	PARAMETER	UNIT	PERMISSIBLE LIMIT		RES ULT S
			Time Weighted Average	Limit	
1.	Suspended Particulate Matter (SPM)	$\mu\text{g}/\text{m}^3$	--	--	132.04
2.	Particulate Matter ( $\text{PM}_{10}$ )	$\mu\text{g}/\text{m}^3$	24 hrs	100	90.15
3.	Particulate Matter ( $\text{PM}_{2.5}$ )	$\mu\text{g}/\text{m}^3$	24 hrs	60	47.67
4.	Sulphur Dioxide ( $\text{SO}_2$ )	$\mu\text{g}/\text{m}^3$	24 hrs	80	12.11
5.	Nitrogen Dioxide ( $\text{NO}_2$ )	$\mu\text{g}/\text{m}^3$	24 hrs	80	11.39

GO Green Mechanisms Pvt. Ltd. (Envi. Auditor)

At Welding Shed

May, 2017

Sr. No.	Parameter	NAAQS Norms	Avg.
1	RSPM ( $\mu\text{g}/\text{Nm}^3$ )	100	94.0
2	SO <sub>2</sub> ( $\mu\text{g}/\text{Nm}^3$ )	80	18.9
3	NO <sub>x</sub> ( $\mu\text{g}/\text{Nm}^3$ )	80	26.2

At Gas Plant

May, 2017

Sr. No.	Parameter	NAAQS Norms	Avg.
1	RSPM ( $\mu\text{g}/\text{Nm}^3$ )	100	86.2
2	SO <sub>2</sub> ( $\mu\text{g}/\text{Nm}^3$ )	80	16.4
3	NO <sub>x</sub> ( $\mu\text{g}/\text{Nm}^3$ )	80	22.4

At ADM2

May, 2017

Sr. No.	Parameter	NAAQS Norms	Avg.
1	RSPM ( $\mu\text{g}/\text{Nm}^3$ )	100	78.9
2	SO <sub>2</sub> ( $\mu\text{g}/\text{Nm}^3$ )	80	8.5
3	NO <sub>x</sub> ( $\mu\text{g}/\text{Nm}^3$ )	80	11.3

At Plant Area

January, 2017

Sr. No.	Parameter	NAAQS Norms	Avg.
1	RSPM ( $\mu\text{g}/\text{Nm}^3$ )	100	55
2	SO <sub>2</sub> ( $\mu\text{g}/\text{Nm}^3$ )	80	35
3	NO <sub>x</sub> ( $\mu\text{g}/\text{Nm}^3$ )	80	18.2

At Near Main Gate

January, 2017

Sr. No.	Parameter	NAAQS Norms	Avg.
1	RSPM ( $\mu\text{g}/\text{Nm}^3$ )	100	42
2	SO <sub>2</sub> ( $\mu\text{g}/\text{Nm}^3$ )	80	21.5
3	NO <sub>x</sub> ( $\mu\text{g}/\text{Nm}^3$ )	80	10.7

Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Bhopal and GPCB/CPCB once in six months.

Ambient air quality and stack emission reports are submitted to CPCB and GPCB. Now company will submit the same in specified period to Regional office at Bhopal.

In view of the information furnished and as agreed

		<p>by the PP that the monitoring reports will be submitted and monitoring is restricted only to the plant premises, the said stipulation is considered partly complied, which is line with that mentioned by the PP.</p> <p><b>PARTLY COMPLIED</b></p>
vi)	<p>Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 3<sup>rd</sup> December, 1999 or as amended from time to time.</p> <p>The treated wastewater shall be utilized for plantation purpose.</p>	<p>Project Proponent vide letter dated 09.08.2017 submitted the following; Industrial wastewater has been properly collected, treated in ETP.</p> <p>74.2 KL/Day wastewater from the manufacturing process and other ancillary industrial operations is reused and recycled back for cooling of horizontal cylinder of sponge iron plant and also used in cooling of hot iron rod in rolling plant.</p> <p>Effluent (Blow down of boiler and cooling tower): 67 KL/Day is collected in collection tank and pumped to neutralization tank to neutralize the effluent. Neutralized effluent is reused for dust-suppression, sprinkling on road and greenbelt development.</p> <p>During the site inspection, the ETP was found not functioning efficiently.</p> <p>In view of the information furnished by the PP and the absence of test reports related to effluent quality to confirm treated effluent meeting as well as site observation above, the stipulated norms, the condition is considered partly complied.</p> <p><b>PARTLY COMPLIED</b></p>

vii)	<p>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.</p> <p>The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz, 75 dBA (day time) and 70 dBA (night time).</p>	<p>Project Proponent vide letter dated 09.08.2017 submitted the following:</p> <p>The overall noise level in and around the plant area has been kept within the standards (85 dB) by providing noise control measured including acoustic hoods, enclosures etc. on all sources of noise generation.</p> <p>The ambient noise levels has been under control as per the standards prescribed under environment act, 1986 rules, 1989 viz. 75dBA (day time) and 70dBA (night time).</p> <p>In view of the submission by the PP and the absence of test reports related to noise monitoring to verify the noise generated meeting the stipulated norms, the condition is considered partly complied.</p> <p><b>PARTLY COMPLIED</b></p>
viii)	<p>The company shall undertake rainwater harvesting measures by collecting the rainwater through drains. The water collected shall be connected to raw water pipeline for reuse in the plant. The company shall provide proper drainage system for rainwater to prevent water logging within and in the vicinity of the plant.</p>	<p>Project Proponent vide letter dated 09.08.2017 submitted the following:</p> <p><b>Not Complied</b></p> <p>PP may submit a plan to complete this task in a time bound manner.</p> <p><b>NOT COMPLIED</b></p>
ix)	<p>Occupational Health Surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.</p>	<p>Project Proponent vide letter dated 09.08.2017 submitted the following:</p> <p><b>Complied</b></p> <p>However, the condition is considered complied subject to submission of addl. information like Summary (in nos.) of Month-wise details of the workers who underwent Occupational Health check-up, details of the clinical tests subjected to and few sample copies of medical records, etc.</p> <p><b>COMPLIED SUBJECT TO ABOVE CONDITIONS</b></p>



x)	<p>The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA EMP report and during the public hearing meeting.</p> <p>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.</p>	<p>Project Proponent vide letter dated 09.08.2017 stated that the condition is <b>Complied</b></p> <p>Company undertakes socio-economic development activities in the surrounding villages. Year -2016 : Rs.2,00,000/- (CSR Fund)</p> <p>In view of the submission by the PP, the condition is considered complied subject to submission of detailed compliance of environmental protection measures and safeguards recommended in the EIA EMP report and during the public hearing meeting as well as detailed break-up and documentary evidences to the CSR activities undertake during 2016 and 2017.</p> <p><b>COMPLIED SUBJECT TO ABOVE CONDITIONS</b></p>
xi)	<p>As proposed, Rs. 0.70 Crores shall be earmarked towards for the environmental pollution control to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government.</p> <p>An implementation schedule for complying with all the conditions stipulated herein shall be submitted to the Regional Office of this Ministry at Bhopal/CPCB/GPCB.</p>	<p>Project Proponent vide letter dated 09.08.2017 submitted the following: Cost of Environmental pollution control is Rs. 2.0 Crore.</p> <p><b>Not Complied</b> – There is no submit any implementation schedule for complying with all the conditions stipulated.</p> <p>PA stated that the stipulated condition is not Complied as implementation schedule for complying with all the conditions stipulated was not submitted.</p> <p>In view of the information furnished by the PP, the condition is considered partly complied.</p> <p><b>PARTLY COMPLIED</b></p>
xii)	<p>The Regional Office of this Ministry at Bhopal / CPCB/GPCB shall monitor the stipulated conditions.</p>	<p>Project Proponent vide letter dated 09.08.2017 stated that the stipulated condition is <b>Complied</b>.</p>

	A six monthly compliance report and the monitored data alongwith statistical interpretation shall be submitted to them regularly.	In view of the submission by the PP, the condition is considered complied subject to submission of documentary evidences related to compliance reports submitted over the last 3 years.  <b>COMPLIED SUBJECT TO ABOVE CONDITIONS</b>
xiii)	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 Gujarat Pollution Control Board 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 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.	Project Proponent vide letter dated 09.08.2017 agreed to comply. However, in the absence of the documentary evidences in support of the said stipulation, the condition is considered not complied till the submission of the same.  <b>NOT COMPLIED</b>
xiv	The 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.	Project Proponent vide letter dated 09.08.2017 submitted that the stipulation is complied.  In view of the submission by the PP, the condition is considered complied subject to submission of documentary evidences related to information to 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.  <b>COMPLIED SUBJECT TO ABOVE CONDITIONS</b>
6.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Project Proponent vide letter dated 09.08.2017 submitted the following: Company is committed to comply all above conditions specified by GPCB&CPCB. <b>PP AGREED TO COMPLY</b>
7.	Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Act. 1997.	Project Proponent vide letter dated 09.08.2017 agreed to said stipulation. <b>PP AGREED TO COMPLY</b>

8.	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions	Project Proponent vide letter dated 09.08.2017 agreed to said stipulation. <b>PP AGREED TO COMPLY</b>
9.	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management and Handling) Rules, 2003 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.	Project Proponent vide letter dated 09.08.2017 agreed to said stipulation. However, the condition is considered complied subject to further elaboration on the stipulated condition. <b>COMPLIED SUBJECT TO ABOVE CONDITIONS</b>

#### SUMMARY NOTE:

##### i. Implementation of Conditions:

Out of 31 total conditions, it may be seen that are 3 fully complied, 9 are complied subject to conditions i.e., submission of addl. Information, 5 are not complied, 10 are partly complied, 1 is deemed partly complied, and 3 are agreed to comply. These have been explained in the foregoing compliance report against each of the conditions, and the PP needs to take necessary and time bound action for early compliance in respect of the relevant conditions.

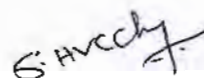
##### ii. Court Cases and show cause/closure notices:

PA submitted that there are no court cases pending against the project and 5 show cause and 2 closure notices were issued by the GPCB during last 3 years, the summary of which (as furnished by the PP) is enclosed as Annexure-1.



(Shri B.B. Barman)

Scientist 'G'



(Dr. H.V.C. Chary Guntupalli)

Scientist 'D'

## Annexure-1

### Show Cause Notice Details for Last Three Years:

Sr. No.	Date	Point	Compliance
1.	Show Cause Notice 27/03/2015	<ol style="list-style-type: none"> <li>1. To install online continuous stack and process emission monitoring system for the applicable parameters per not later than by May 31, 2015.</li> <li>2. To install online effluent monitoring system at the outlet of effluent treatment for the measurement of the applicable parameters as per not later than by May 31, 2015.</li> <li>3. To connect and upload the online emission and effluent monitoring data at GPCB and CPCB servers in a time bound manner but not later by May 31, 2015.</li> <li>4. To ensure regular maintenance and Operation of the online system with tamper proof mechanism having facilities for online calibration.</li> <li>5. To submit bank guarantee of 100% of the cost of online monitoring systems for ensuring timely installation of online monitoring systems within 15 days for the date of receipt of these direction.</li> </ol>	<ol style="list-style-type: none"> <li>1. Company will install online monitoring system as soon as possible.</li> <li>2. Online monitoring system is installed in ETP.</li> </ol>
2	Show Cause Notice	<ol style="list-style-type: none"> <li>1. As per rule 3(7) TPP/CPP/Co-generation plant shall submit annual compliance report</li> </ol>	<ol style="list-style-type: none"> <li>1. Next year onwards, we will submit the Annual Report every year by 30 April, 2015 as per Rules 3(7).</li> </ol>

	08/06/2015	<p>including record of sale and/or disposal of the fly ash by 30th April every year to concerned SPCB or Pollution Control Committee [Rule 3(7)].</p> <p>2. Coal or lignite based thermal power station shall achieve the target of fly ash utilization as per schedule given in notification i.e. 100% notification of fly ash.</p> <p>3. TPP/CPP/Co-generation plant shall maintain record of all sales and/or disposal of the fly ash.</p> <p>4. As per rule 2(4) of fly ash notification coal or lignite based TPP/ CPP/Co-generation plant shall constitute a dispute settlement committee.</p>	<p>2. We are selling the fly ash to local brick manufacturer and dispose remaining ash to other parties for utilization in soil neutralization or land filling or mixing with RMC.</p> <p>3. We have also sold to end user.</p> <p>4. We have constituted an Environmental Management Cell within our organization headed by general manager, which shall also work as dispute settlement Committee.</p>
3.	Show Cause Notice 19/11/2015	<p>1. Non compliance with the provisions of the fly ash notification will be viewed seriously.</p> <p>2. Leakages identified in ID Fan of WHRB.</p> <p>3. Online monitoring system is not installed till the date.</p>	<p>1. The quantity of Fly ash generation is 250 MT/month. We have sent 20 MT of Fly ash to various nearby brick manufacturer P.M. We have utilized 500 MT of fly ash within premises for land filling and levelling during the year. Currently, we have stored 2000 MT of fly ash within premises during the year.</p> <p>2. Company maintained ID fan of WHRB.</p> <p>3. Company will install online monitoring system as soon as possible.</p>

4.	Show Cause Notice 07/12/2015	<ol style="list-style-type: none"> <li>1. Online monitoring system is not installed till the date.</li> <li>2. Water sprinkling system was not working condition.</li> <li>3. Wastewater was spread in the plant, it was not in reused.</li> </ol>	<ol style="list-style-type: none"> <li>1. Company will install online monitoring system as soon as possible.</li> <li>2. Sprinkling system was in under maintenance.</li> <li>3. Wastewater was utilized for cooling purpose during visit.</li> </ol>
5.	Show Cause Notice 12/09/2016	Failure to submit the Environmental Audit report within 15 days time.	Our Environmental Audit report for Year April-2015 to March, 2016 was prepared. We are submitting this Environmental Audit report for Year April-2015 to March, 2016 to GPCB as on date 20/09/2016.
6.	Closure Notice 08/02/2016	<ol style="list-style-type: none"> <li>1. ID Fan of scrubber is not properly working.</li> <li>2. There is not installed vertical wood in Induction furnace.</li> <li>3. Issues of Fugitive emission in storage area and conveyor system.</li> <li>4. There is not installed transformer in ESP.</li> <li>5. Online monitoring system was not install in ETP and automatic fly ash brick machine is not installed.</li> <li>6. Online monitoring system is not installed in SI Plant and AFBC plant.</li> </ol>	<ol style="list-style-type: none"> <li>1. ID Fan of scrubber is modified and properly working.</li> <li>2. Company has installed vertical wood in Induction furnace.</li> <li>3. Company has maintained the sprinkling system and working in good conditions, so fugitive emission is not shown.</li> <li>4. Company has installed transformer in ESP.</li> <li>5. Online monitoring system is installed in ETP and automatic fly ash brick machine is installed.</li> <li>6. Online monitoring system is installed in SI Plant and AFBC plant.</li> </ol>
7.	Closure Notice 13/06/2017	<ol style="list-style-type: none"> <li>1. Heavy Fugitive Emission has been shown in both furnace during the visit.</li> </ol>	<ol style="list-style-type: none"> <li>1. Upon the earlier instructions of the Honorable Board, we have carried out Modifications in the Scrubber Design as well as taken steps to increase the suction capacity of the ID fans by replacing it with a new installation of Centrifugal ID Blower. The same was intimated to the Honorable Board vide our letter dated 3 May, 2017 with Annexure-1. We have</li> </ol>

			<p>once again attached pictures of the modifications done in the Scrubber Design as well as attached evidence of the Centrifugal ID blower ordered vide our P.O No.36,40,39 and ,14 dated 13th April 2017, 14th April 2017 , 14th April 2017 and 15th April 2017 respectively. This does represent how seriously we have taken the inspection notes of the Vigilance Team in improving the Shortcomings observed. We request the Honorable Board to review these dates when the orders were placed for the necessary retro-fitting that had to be done. In addition to this, we are also arranging to initiate a Fugitive Emission Study in the Induction Furnace Area to identify any potential leaks and rectify the flaws if any to further support our claim. We shall simultaneously do a PG Test for our Scrubber Stack Emissions to ensure that PM emissions are within 100 mg/NM3 as per the specified limits. We have issued the necessary PO to M/S Go Green Mechanisms Ltd ( A MoEF accredited laboratory) to carry out the validation study vide our PO order dated 15fr May 2077 and we promise to submit the validation study reports within a maximum timeframe of 4 weeks.</p>
		<p>2. APCM was not in operation during the visit</p>	<p>2. We have two Bag Filter Units attached to the Coal Handling Systems of the Power Plant as well as the Sponge Iron Division. We have again Intimated to the Board on 3rd May 2017 vide our letter that the Installations are complete and are in operation with pictures attached as an Annexure confirming the same. The</p>

			<p>Regional Office Inspection teams conducted a visit on 2nd May 2017 and the Bag Filters in both the areas were shown to them and were observed in working condition by them. The same may be confirmed by the Honorable Board with the Regional Office Teams regarding this observation. Furthermore, we shall furnish to the Board the outlet PM emissions of the Stack attached to the Bag Filter confirming that these are meeting the designated Norms of 100mg/Nm<sup>3</sup>. We have placed the Bag Filter orders for SID plant vide PO No.1302,1311,1402,1408,1304,1345 and 179 , copies of which have been attached . we have placed Bag Filter Order for Power plant vide PO 0.1556,162+4,1590,78 and 77 cumulatively an on the directions of the Board. It may be noted that these investments have been done in the last quarter mainly in the month of Feb 2017 and March 2017 which again confirm our positive intentions. We hereby confirm and validate that the Bag Filter Systems are completely operational as on date and will be operated adequately and efficiently at all times from now-onwards. For our ESP units, we have advised the Board on 3d May 2017 that our ESP third field is not working due to a failed transformer. This transformer has been ordered on 18s March 2017 vide Proforma Invoice PI 16-17-HVR-4618 of Kraft Powercon India Private Ltd for The delivery period has been quoted as 7-8 weeks by the vendor. The delivery is now</p>
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	<p>3. Pneumatic dust collection system disconnected.</p> <p>4. ETP was not fully operated</p> <p>5. PM Online system was not installed.</p>	<p>expected around the 25h May, 2017. We assure the Board that the third field will be installed on/before 31<sup>st</sup> May 2017 and evidence shall be sent to the Board immediately upon completion. Until then, we are not running the plant at full capacity to limit our emissions.</p> <p>We have Ordered Pneumatic Systems for our Ash Handling Plant on 310412017 and for the same. The entire systems have been delivered and we assure that these will be in a running condition on/before 31 May 2017 the same can be Verified by the Board anytime on/after 31 May 2017.</p> <p>4). ETP Installation was found incomplete.</p> <ul style="list-style-type: none"> <li>- The following components - Agitator, Gear Box and Motor installations were Pending on the inspection date. We have ordered the same through our Vendor M/s Neotech Water Solutions and attached is the Invoice for the same. The same has been ordered on 25 April 2017 and additionally we have also installed Online Water analysis data streaming with necessary softwares for CCTV live streaming for the payments have been made to the Vendor and the delivery timeframes of the same being 4-6 weeks, we assure that the said installation will be done on/before 21n May 2017.</li> </ul> <p>5). PM sensor had developed technical issues. The same has been rectified and the sensors are working correctly. We have also purchased server data connectivity package for CPCB/SPCB for 2 years for Rs.1,49,175/- . We have attached the last one week streaming report. We</p>
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		6. Ambient air quality was poor.	<p>can confirm that here onwards the online systems shall work efficiently and we shall closely monitor the same at our end.</p> <p>We shall be regularly monitoring Ambient Air Quality now on a monthly basis precisely across at least 4 points in the industry covering all source emissions to identify and understand fugitive emissions if any particularly in a case where the PM or Gaseous Emission concentrations are exceeding National ,Ambient Air Quality Standards, We shall regularly email the Monthly Ambient Air Quality Report to the Board- to - demonstrate our compliance to NAAQS. We assure to the Honorable Board that with the installation and adequate operation of all Air Pollution Control Systems deployed by us, the NMQS shall be met at all times</p>
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Note: There is no any court case pending.



सत्यमेव जयते

भारत सरकार  
GOVERNMENT OF INDIA  
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय  
MINISTRY OF ENVIRONMENT, FOREST &  
CLIMATE CHANGE

क्षेत्रीय कार्यालय, पश्चिम क्षेत्र,  
Regional Office, Western Region  
"केन्द्रीय पर्यावरण भवन"  
"Kendriya Paryavaran Bhavan"  
लिंक रोड नं०-3/Link Road No. 3  
E-5, रविशंकर नगर/Ravishankar Nagar,  
दूरभाष /Phone: 0755-2426615, 2466525,  
फैक्स /Fax: 0755-2463102  
भोपाल (म०प्र०)/Bhopal-462016 (M.P.)  
अणुडाक /e-mail: rowz.bpl-mef@nic.in

File No. 5-54/2009 (Env)/1007

Dated: 10/01/2018

प्रति,

To,

श्री ग्यानेश भारती,  
संयुक्त सचिव,  
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय,  
इंदिरा पर्यावरण भवन,  
जोर बाग रोड, अलीगंज,  
नई दिल्ली- 110003

Shri Gyanesh Bharti,  
The Joint Secretary  
Ministry of Environment, Forest & Climate Change,  
Indira Paryavaran Bhawan,  
Jor Bagh Road, Aliganj,  
New Delhi- 110003

विषय: मेसर्स नीलकंठ कॉन्कास्ट प्रा.लि. द्वारा एसवाय नं. 221, ग्राम वडाला, तहसील मुंदरा जिला-कच्छ, गुजरात में स्पैन्ज आयरन प्लांट (66,000 टीपीए) को कैप्टिव पावर प्लांट (10 मेगावाट WHRB 6 मेगावाट AFBC 4 मेगावाट) के साथ स्थापित करके मौजूदा समेकित स्टील के विस्तार हेतु पर्यावरण स्वीकृति।

Sub.: Expansion of the existing Integrated Steel Plant by installing Sponge Iron Plant (66,000 TPA) along with Captive Power Plant (10 MW; WHRB 6 MW, AFBC 4 MW) at sy. No. 221, Village Vadala, Tehsil Mundra, District Kutch, Gujarat by M/s Nilkanth Concast Pvt Ltd.- Environment Clearance- reg.

संदर्भ: मंत्रालय का पत्र क्रमांक J-11011/85/2008-IA II (I) दिनांक 23.12.2008

Ref.: Ministry's Letter No. J-11011/85/2008-IA II (I) Dated 23.12.2008

Sir,

This has reference to MoEF & CC Letter No. J-11011/85/2008- IA II (I) dated 23/12/2008. Project Proponent submits an Action Plan in respect of Non-Complied and Partly Complied & complied subject to condition, conditions of the aforesaid Environment Clearance.

2.0 Comments/Remarks of RO-Bhopal, on each of these conditions are attached herewith.

भवदीय  
(विश्व बन्धु मीणा)  
वैज्ञानिक 'सी'

संलग्न: उपरोक्तानुसार

O/C

प्रतिलिपि:

1. डॉ. सुधीर चिन्तलपति, वैज्ञानिक 'डी', (मॉनिटरिंग सैल), पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, इंदिरा पर्यावरण भवन, जोर बाग रोड, अलीगंज, नई दिल्ली-110003 की ओर सूचनार्थ एवं आवश्यक कार्यवाही हेतु।
2. डायरेक्टर, मेसर्स नीलकंठ कॉन्कास्ट प्रा. लि., एसई नं. 221, ग्राम वडला, तहसील मुंदरा जिला कच्छ, गुजरात की ओर सूचनार्थ एवं आवश्यक कार्यवाही हेतु।

भुवदीय  
(विश्व बन्धु सीणा)  
वैज्ञानिक 'सी'

Reply on Non-Complied and partly complied conditions pertaining to **EC Compliance Certification** on Environmental Clearance No.: J-11011/85/2008-IA II(I) dated 23.12.2008 corresponding to reporting period of 1/2017 to 06/2017 sent to MoEF&CC, ND vide Ro Bhopal Letter No 5-54/2009(ENV)/1035 dated 14.08.2017.

- 1) Status of Compliance for the Period of July 2017- December 2017 of EC-2008: Ref Letter No. J-11011/85/2008-IA II(I) dated 23.12.2008

**Action Plan/taken for Not Complied Points:**

SR. NO. (EC )	CONDITION	RO, MoEF&CC Bhopal's Observation on Non Compliance conveyed vide letter dt. 14.08.2017	Reply given by PP vide letter dated 28.12.2017	RO, MoEF&CC Bhopal's Observation on based on recent reply dated 28.12.2017
<b>A. SPECIFIC CONDITIONS</b>				
viii)	Proper utilization of fly ash shall be ensured as per Fly ash Notification, 1999 and subsequent amendment in 2003. All the fly ash shall be provided to cement and brick manufacturers for further utilization and bottom ash shall be used for land filling.	<p><b>During the site visit, it is observed that huge quantities of solid waste are found lying in the open areas. PAs shall made efforts for utilisation/ disposal of the same at the earliest.</b></p> <p><b>In view of the information furnished by the PP and as per the Site Inspection, the condition is considered not complied till submission of the following documentary evidences :</b></p> <p><b>1. Valid MoU/Agreement with Cement/Brick manufacturers and details of the quantum of fly ash disposed annually over the last 3 years.</b></p>	<p>The PP stated that – “Sir, As per your observation point wise, we submit that,</p> <p>1. We given huge quantities of Fly Ash to local Bricks/ Block Manufactures copy of agreement showing quantum of fly ash is enclosed as (ANNEX.H.)</p>	<p>A copy of MOU/Agreement with Cement/Brick manufacturers has been provided, which is attached as <b>Annexure-H</b> in the main report. The agreement is dated</p>

		<p>Moreover, Our company have spent Rs. 6 lac in Transportation for filling and leveling of Parking/ Annual Mela Plots by using fly ash and solid slag in tune of 9570 Mt. in the nearby villages against their demand, documentary evidence in this regards is enclosed here with as (ANNEX. H-1) for your kind consideration.</p>	<p>10.12.2009</p> <p>However PP has submitted documents in which using of fly ash and solid slag in tune of 9570 Mt. in the nearby villages against their demand is mentioned at <b>Annexure-H1 &amp; H2</b> in the main report.</p> <p>However, the PP is yet to submit the fly ash disposal in last 3 years although the total disposal shown pertains to recent period.</p> <p>An invoice is attached as <b>Annexure-H2</b> in the main report of Automatic Fly Ash Brick Plant.</p> <p>However, it may be mentioned how this is going to sustain on a long term basis Non Compliance.</p> <p>However, quantification may also be done although removal of waste begun.</p> <p><b>In view of recent submission, the compliance may be considered as under compliance since entire solid waste from campus is yet to be disposed off and last three years data to be provided.</b></p> <p><b>UNDER COMPLIANCE</b></p>
	<p><b>2. Mode of utilisation of the bottom ash.</b></p>	<p>2. For better utilization of Bottom Ash/ Fly Ash, We have installed Bricks Manufacturing Plant spending Rs. 15 lacs in our premises and have commenced production of fly ash bricks, now onwards entire generation of fly ash/ bottom ash will be utilized on daily basis. Documentary evidence is enclosed as (ANNEX. H2).</p>	
	<p><b>3. Quantum of solid waste (All types) lying within the plant premises and time targeted action plan for disposal of the same.</b></p> <p><b>Not Complied.</b></p>	<p>3. We have already started disposal of solid waste (all type) and set a target of two months to dispose it off before 31.01.2018. Hence, we request you to consider the point as complied."</p>	

ix)	A time bound action plan shall be submitted to reduce solid waste, its proper utilization and disposal.	<p>During the site visit, it is observed that huge quantities of solid waste are found lying in the open. PA s shall make efforts for utilization/disposal of the same.</p> <p>In view of the information furnished by the PP and the fact that no details of time bound action plan were furnished as well as huge quantities of solid waste is found lying in plant premises, the condition is considered not complied.</p>	The PP stated that- " We have disposed of the complete quantity of Old Fly Ash by Spending approx. 15 lacs on Transportation copy of Bill attached as (ANNEX.H2) There is no fly ash in our premises now, The daily generation is being used to manufacture fly ash bricks within our plant. So kindly consider the point as complied."	<p>The copy of transport bill of fly ash is attached as <b>Annexure-H3</b> in the main report.</p> <p>However, the compound is not free from debris, waste and scrap material although fly ashes were removed. This may be also done in a time bound manner.</p> <p>In view of the above submission by the PP, the condition is considered as under compliance. <b>UNDER COMPLIANCE.</b></p>
x)	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, APPCB and CPCB.	<p>In view of the submission by the PP and as no details of the related reports were furnished as well as huge piles of solid waste were found within the plant premises without any utilisation, the condition is considered not complied.</p> <p><b>Not Complied.</b></p>	The PP stated that- " Quantity of slag generated in furnace is normally given to nearby villages for Filling of Kacha Road etc. throughout the year Free of Cost and also being used at the internal roads of our plant. The balance quantity of slag is under disposal and work is under progress and shall be completed by end of January 2018. Hence, consider the point as complied."	<p>The PP stated that he is utilizing the slag and disposing the same. However, PP doesn't mention about the submission of report.</p> <p>In view of the above submission by the PP, the condition is considered as partly complied. The PP may indicate progress at the end of January, 2018 and submit the analysis report.</p> <p><b>PARTLY COMPLIED.</b></p>
<b>B. GENERAL CONDITIONS</b>				
viii)	The company shall undertake rainwater harvesting measures by	PP may submit a plan to complete this task in a time bound manner.	The PP stated that- "Sir for Rain Water Harvesting, we wish to submit that the rain in Kutch District is very	However, at the time of site visit we were shown only a renovated pond that too



	collecting the rainwater through drains. The water collected shall be connected to raw water pipeline for reuse in the plant. The company shall provide proper drainage system for rainwater to prevent water logging within and in the vicinity of the plant.	<b>Not Complied.</b>	less & rare. However, we have made a pond for collection of water & now connecting it with water drainage as advised by you. We are also connecting the plant area with trenches in case of heavy rain or over flow, the said work will be completed by end of Jan 2018. Photos of this pond is enclosed as (ANNEX.M). Hence, Kindly treat the point as complied."	without any collection system of rain water into it.  <b>In view of the submission by the PP &amp; site observation the condition is considered as partly complied. A full fledged system of rain water harvesting should be put into place. PARTLY COMPLIED.</b>
xiii)	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 Gujarat Pollution Control Board 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 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 RO.	<b>Agreed to comply.</b>  <b>Project Proponent letter dated 09.08.2017 agreed to comply. However, in the absence of the documentary evidences in support of the said stipulation, the condition is considered not complied till the submission of the same.</b>  <b>Not Complied.</b>	The PP stated that- "Sir, We have followed the instructions received from The GPCB vide their letter No. GPCB/PH/2016-17/Kutch (East)-04/375604 dated 15/11/2016 and accordingly Advertisement in Kutchmitra Daily & Times Of India News Paper were given on 19/11/2016. Copy of the GPCB Letter as well Advt. is enclosed herewith for your reference as (ANNEX. P). Hence treat the point as complied."	The documentary proof regarding the advertisement of grant of EC is not submitted by the PP instead the copy of advertisement regarding public hearing is provided.  <b>In view of the above , the condition is still considered as not complied.</b>  <b>NOT COMPLIED</b>



**Action Plan/taken for Partly Complied Points:**

SR. NO. (EC)	CONDITION	RO, MoEF&CC Bhopal's Observation on Non Compliance conveyed vide letter dt. 14.08.2017	Reply given by PP vide letter dated 28.12.2017	RO, MoEF&CC Bhopal's Observation on based on recent reply dated 28.12.2017
<b>A. SPECIFIC CONDITIONS</b>				
i)	<p>Efforts shall be made to reduce RSPM levels in the ambient air and a time bound action plan should be submitted.</p> <p>On-line ambient air quality monitoring and continuous stack monitoring facilities for all the stacks and sufficient air pollution control devices shall be provided to keep the emission levels below 100 mg/Nm<sup>3</sup>.</p> <p>Ambient Air, Stack and Fugitive emission reports shall be submitted to the Ministry's Regional Office at Bhopal, GPCB and CPCB.</p>	<p>During the site visit, presence of online ambient air quality monitoring station in the plant premises could not be shown by the PP and as such, the PP shall furnish documentary evidences regarding installation of the same.</p> <p>In view of the submission by the PP that continuous stack monitoring facilities for all the stack are already installed and company will submit the report to MoEFCC, RO Bhopal within two months as well as in light of the addl. details sought w.r.t. installation of online ambient air quality monitoring stations, the conditions is considered partly complied.</p>	<p>The PP stated that- "We have already installed online monitoring station since last 8 Month and all are under operation since May, 2017, However, as directed by you, we are furnishing the documentary evidence, such as Supplier's Invoice, etc. etc for your ready reference please.</p> <p>The reports of continuous stack monitoring facilities are enclosed herewith as (ANNEX.A) for your ready reference and request you to kindly consider the point as complied."</p>	<p>The documentary proof is submitted as Quotation &amp; delivery challan.</p> <p>The report of stack monitoring is enclosed as Annexure-A in the main report. The data shows that some of the readings is not within the standard limits of GPCB.</p> <p>In view of the submission by the PP, the condition is considered as partly complied. <b>PARTLY COMPLIED</b></p>
ii)	<p>Hot Gases from DRI kiln shall be passed through Dust Settling Chamber (DSC) to remove coarse solids</p>	<p>In view of the information furnished and as observed from the monitoring results presented, it appears that the secondary fugitive emissions</p>	<p>The PP stated that- "With regards to the secondary fugitive emissions, we have conducted several 3<sup>rd</sup> Party test from M/s. Greenleaf Envirotech Pvt. Ltd., (GPCB Recognized) from Feb 2017 to</p>	<p>The monitoring result is enclosed as Annexure-B in the main report.</p>

	<p>and After burning chamber (ABC) to burn CO completely and used in waste heat recovery boiler (WHRB).</p> <p>The Gas then shall be cleaned in ESP before leaving out into the atmosphere through ID fan and stack. Electrostatic Precipitator (ESP) shall be provided to WHRB as well as AFBC to control gaseous emissions within 100 mg/Nm<sup>3</sup>. Dust extraction system with bag filter shall be provided to sponge iron plant.</p>	<p>were not monitored as per the notification issued by the Ministry in 2008. Hence, the condition is considered partly complied.</p>	<p>July 2017 and the report clearly indicates that all the stacks are under the permissible Limits.</p> <p>Further, As per the MOEF guidelines, Environmental Audit was also conducted for the period of April 2016 to March 2017 by V.V.P. Engineering Collage- Rajkot. Copy of both the complete report is enclosed for your kind records as (ANNEX. B) and request you to consider the point as complied."</p>	<p>In some emission observation the reading is exceeding the standard limit.</p> <p><b>PARTLY COMPLIED</b></p>
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>The emission standards issued by the Ministry in May, 2008 for the sponge</p>	<p>In view of the information furnished and as observed from the monitoring results presented, it appears that the secondary fugitive emissions were not monitored as per the notification issued by the Ministry in 2008. Hence, the condition is considered partly complied.</p>	<p>The PP stated that- "Sir, as per your instructions during your last visit, We strictly follows the emission standards issued by the Ministry in May, 2008 for the sponge plants and online monitoring system are installed at ESP outlet and same is functioning well (ANNEX.A). Stack height of our Rotary Kiln is 30 meter and same is meeting as per emission standards issued by the Ministry.</p> <p>PM found within the permissible limit - 100 mg/ nm<sup>3</sup> which meets emission</p>	<p>In the test reports it is not mentioned whether the readings are of secondary emissions.</p> <p>In some of the readings the value of emissions was exceeded the standard values set by GPCB.</p> <p>In view of the submission by the PP, the condition is still considered as partly complied.</p>

	plants should be followed.		standards issued by the Ministry in May, 2008. 3 months online data is enclosed as (ANNEX.C). Hence, it should be considered as complied."	<b>PARTLY COMPLIED.</b>
v)	<p>In-plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided.</p> <p>Fugitive emissions shall be controlled by using closed storages, covered belt conveyors, bag house at transfer points and crusher house etc. Bag house, bag filters, dust collectors shall be provided at transfer points, raw material handling area, crusher house, screening plant, stock bin etc.</p> <p>Dust suppression system including wet sprinkling system shall be provided to crusher house, screen house raw material and product handling to control dust emissions. Crusher house shall be equipped with bag</p>	<p><b>In view of the information furnished by the PP and as per the Site Inspection, the condition is considered not complied till submission of the following documentary evidences :</b></p> <p><b>1. No proper control measures for collection of emissions from the Induction Furnaces were observed.</b></p> <p><b>2. No proper control measures for collection of secondary emissions from the Induction furnaces were observed.</b></p>	<p>The PP stated that-</p> <p>1. "We wish to submit that, Exhaust Fan at Furnace No. 1 is working satisfactory &amp; have already installed Primary hood cover for controlling emission, Copy of the Bill for ID Fan &amp; Motor etc. is enclosed as (ANNEX.E) &amp; after your visit and suggestion we are very much concerned about controlling of emissions. Hence, we are in process of modifying the Existing Exhaust Fan for Primary emission at Induction Furnace 2 for which query has been floated, for both the Furnaces at SMS to M/s. Tech Flow M/s Electrotherm, Ahmedabad , quotation is enclosed herewith as (ANNEX. E-1).</p> <p>2. We have increased the capacity of our suction blower which is attached with Water sprinkling system as well as Dust collector to control the</p>	<p>Copy of invoice for blower is attached as <b>Annexure-E</b> in the main report.</p> <p>Query related documents floated for the Furnaces at SMS to M/s. Tech Flow is enclosed as <b>Annexure-E1</b> in the main report.</p> <p>It can be considered as Under compliance.</p> <p>The condition is Under Compliance.</p>

	<p>house to control fugitive emissions.</p> <p>Stack of adequate height shall be provided to rolling mill and DG set. Covered conveyor belt system shall be provided for internal transportation.</p> <p>Data on fugitive emissions shall be regularly monitored and records maintained.</p>	<p><b>3. No records of fugitive emission data were furnished.</b></p> <p><b>Partly Complied.</b></p>	<p>fugitive emissions. We have also provided covered best conveyors bag filters at transfer points &amp; Crusher house to control emissions.”</p> <p>3. Now onwards, we will record the data of fugitive emissions, &amp; shall submit in due course. Hence, kindly be considered as complied.”</p>	<p>Under Compliance</p> <p><b>In view of the submission by the PP, the condition is considered as under compliance</b></p> <p><b>UNDER COMPLIANCE</b></p>
xi)	<p>As proposed, green belt shall be developed in 29 acres (33 %) out of total 87.17 acres in and around the plant premises to mitigate the effects of fugitive emissions all around the plant as per the CPCB guidelines in consultation with DFO.</p>	<p><b>In view of the information furnished and the fact that the greenbelt is found in patches along the plant periphery, the condition is considered partly complied.</b></p> <p><b>Partly Complied.</b></p>	<p>The PP stated that- “We have already planted about 500 New trees recently at open plant area and near the boundary wall and it is in continuous process to keep planting at least 100 New Trees every month to meet the Norms, in next two/ three years, you will find the density in green belt, Photographs is enclosed as (ANNEX. I). Hence, kindly consider the point as complied.”</p>	<p><b>In view of the submission by the PP &amp; the significant progress towards green belt, the condition is considered as under compliance.</b></p> <p><b>UNDER COMPLIANCE</b></p>
xii)	<p>All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Sector shall be implemented and progress</p>	<p><b>Partly Complied</b></p>	<p>The PP stated that- “PP is adhering/ following conditions made under <b>CREP (Integrated Iron &amp; Steel Industry)</b>. Moreover, There are 4 Nos. of bag filters working adequately into the Sponge Iron Division.</p>	<p>Pointwise compliance status to the recommendations of CREP is to be provided.</p> <p><b>In view of the submission by the PP, the condition is considered as partly complied.</b></p>



	report shall be submitted to MOEF/CPCB.		In addition to the above said rules- PP is monitoring the Emissions via Continuous Online Monitoring Systems for power plant stacks."	<b>PARTLY COMPLIED</b>
xiii)	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.	<b>In view of the submission by the PP, the condition is deemed partly complied as construction phase is over.</b>  <b>Deemed Partly Complied.</b>	The PP stated that- "Sir, This is existing plant since 2004, no major constructions activities is going on, however, there is some construction activities taken place for some repair or say recently the road construction was going on, The labor employed by the contractor, are a resident of nearby village, however, we provide them Drinking water, Toilet facility etc. Hence, kindly be considered as complied."	In view of the submission by the PP, the condition can be considered as complied.          <b>COMPLIED.</b>
<b>B. GENERAL CONDITIONS</b>				
iv)	In-plant control measures for controlling fugitive emissions from spillage raw materials handling shall be provided. Further.  Specific measures like water spraying at all the transfer points, conveyor and hoppers, curtains, suitable enclosures, dust	<b>In view of the submission by the PP and in the absence of the fugitive emission monitoring data test reports, the condition is considered partly complied.</b>  <b>Partly Complied.</b>	The PP stated that- "We are maintaining emissions at all the materials handling points by sprinkling the water and taking utmost care by spraying water regularly at various places of plant such as conveyors/ hoppers/ unloading of raw materials etc. to reduce fugitive emission and dust suppression.  We have provided Dust collection system (bag filters) to extract the dust at dust generating points, recently added one more dust collection system (bag filter) at the same place, copy of the bill	In the online monitoring report it is found that some of the readings of emission is exceeding to the standard value given by GPCB.  The invoice for bag filters is attached as <b>Annexure-K</b> in the main report.





	State Government.  An implementation schedule for complying with all the conditions stipulated herein shall be submitted to the Regional Office of this Ministry at Bhopal/CPCB/GPCB.	complying with all the conditions stipulated was not submitted. In view of the information by the PP, the condition is considered partly complied.	Mela is organized. Regular Plantation work, Water Harvesting etc. Hence, kindly consider the point as complied."	considered as partly complied.  <b>PARTLY COMPLIED</b>
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**Action Plan/taken for Complied Subject to Condition Points:**

SR. NO. (EC)	CONDITION	RO, MoEF&CC Bhopal's Observation on Non Compliance conveyed vide letter dt. 14.08.2017	Reply given by PP vide letter dated 28.12.2017	RO, MoEF&CC Bhopal's Observation on based on recent reply dated 28.12.2017
<b>A. SPECIFIC CONDITIONS</b>				
iv)	<p>Vehicular pollution due to transportation of raw material and finished product shall be controlled.</p> <p>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</b> - Company has installed water sprinkling system with concrete roads to control Vehicular pollution due to transportation of raw material and finished product. To control dust pollution during loading and unloading of raw materials, raw materials are unloaded inside closed godown and transferred to required places through conveyor belts with complete cover with sheets.</p> <p>During the Site visit, it is observed that the internal roads of the plant are not</p>	<p>The PP stated that- "Sir, After your visit, we had started work of RCC Link Road from main Gate to the Plant, and completed as on 28.12.2017 by spending Rs. 20 lacs on it. (Photographs attached as (ANNEX. D))"</p>	<p>The photographs of RCC link road is attached as <b>Annexure-D</b> in the main report.</p> <p><b>In view of the submission by the PP &amp; site observation, the condition is considered as complied.</b></p> <p><b>COMPLIED</b></p>



		paved. In view of the information furnished & the field observation above, the condition is considered complied subject to condition that internal roads shall be paved/metalled.		
vi)	<p>Total water requirement from Gujarat Water Infrastructure Ltd. (GWIL) shall not exceed 800 m<sup>3</sup>/day as per permission accorded vide letter dated 5th February, 2008. As proposed, no surface/ground water will be used.</p> <p>The wastewater from power plant shall be treated in neutralization pit and treated wastewater shall be recycled / reutilized in the process and/or for cooling, dust suppression and green belt development.</p> <p>No process water shall be discharged and 'Zero' discharge shall be adopted.</p>	<p><b>Complied</b> - Total water requirement from Gujarat Water Infrastructure Ltd. (GWIL) is not exceed 800 m<sup>3</sup>/day.</p> <p>Avg. Water Consumption of January, 2017: 751 m<sup>3</sup>/day</p> <p>Avg. Water Consumption of February, 2017: 578 m<sup>3</sup>/day</p> <p>Avg. Water Consumption of March, 2017: 721 m<sup>3</sup>/day</p> <p>Avg. Water Consumption of April, 2017: 756 m<sup>3</sup>/day</p> <p>Avg. Water Consumption of May, 2017: 792 m<sup>3</sup>/day</p> <p>Avg. Water Consumption of June, 2017: 734 m<sup>3</sup>/day</p> <p>Permission letter is attached as Annexure-1.</p> <p>The wastewater (155 KL/Day) from plant is treated in neutralization pit and treated wastewater is recycled / reutilized in the process and/or for cooling, dust suppression and green belt development.</p> <p>Zero liquid discharge is adopted by reusing the treated effluent.</p> <p>Domestic wastes are treated in</p>		

	<p>Domestic wastes shall be treated in Septic tank followed by soak pit and used for gardening and plantation</p>	<p>Septic tank followed by soak pit and used for gardening and plantation.</p> <p><b>In view of the information furnished by the PP, the condition is considered complied subject to submission of following information:</b></p> <p><b>1. Summary on month-wise min &amp; max water consumption per day during the period of compliance.</b></p> <p><b>2. Certification that no surface/ground water was used by the PP.</b></p> <p><b>COMPLIED SUBJECT TO ABOVE CONDITIONS</b></p>	<p>The PP stated that-</p> <ol style="list-style-type: none"> <li>1. "We have been given a Narmada Water Connections by Gujarat Water Infrastructure Ltd. (GWIL ) for 800 m3/Day and We are maintaining water consumption, The report is being submitted to Gujarat Pollution Control Board(GPCB) every month and the same is submitted herewith, Month wise summery is also enclosed as (ANNEX. F) with copy of GWIL Bills.</li> <li>2. We certify that, No ground water or surface water is being used in our plant. Hence, we request you to kindly treat this point as complied."</li> </ol>	<p>The summary provided by the PP at Annex -F in the main report.</p> <p>The PP vide email dated 04.01.2018 submitted " We undertake and solemnly affirm that no ground water or surface water is being used in our plant, we once again ,certify by ourselves that no ground water or surface water is being used."</p> <p><b>In view of the above submission by the PP, the condition is considered as complied.</b></p> <p><b>COMPLIED</b></p>
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vii)	<p>New DRI kiln shall be provided with waste heat recovery boiler (WHRB) to make use of flue gases generated during the process. All the char from existing and proposed DRI plant shall be utilized in AFBC boiler of power plant and no char should be disposed off anywhere else. AFBC boiler shall be installed simultaneously along with the DRI plant to ensure full utilization of char from the beginning.</p> <p>All the other solid / hazardous waste generated shall be properly utilized or disposed off in environment friendly manner. Waste/spent oil shall be sold to recyclers as per the Hazardous Waste (Management &amp; Handling) Rules, 1989 and subsequent</p>	<p>A new DRI kiln is provided with WHRB and the char generated is used in AFBC boiler.</p> <p>Generated all the solid /hazardous wastes like ETP Sludge (5.3 MT/Year), Tar Residue (185 MT/Year), Discarded Container and Used Oil are disposed in environment friendly manner as per the Hazardous Waste (Management &amp; Handling) Rules, 1989 and subsequent amendments.</p> <p>ETP Sludge (5.3 MT/Year) is disposed to Common TSDF site, M/s. SEPPL, Kutch.</p> <p>Tar Residue (185 MT/Year) is disposed to Common Incinerator site, M/s. SEPPL, Kutch.</p> <p>Discarded Container and used oil are disposed by selling to authorized recycler.</p> <p><b>In view of the information furnished by the PP, the condition is considered complied subject to submission of following information:</b></p> <p><b>1. Valid MoU/Agreement with M/s. SEPPL, Kutch &amp; details of the quantum of</b></p>	<p>The PP stated that-</p> <p>1. "We have our Agreement with Saurashtra Enviro Projects Pvt. Ltd.(SEPPL) for the period from</p>	<p>Copy of agreement with SEPPL, Kutch dated 08.09.2016 valid upto 16.05.2021 is enclosed as</p>

	amendments.	<p>hazardous waste disposed annually over the last 3 years.</p> <p>2. Valid MoU/Agreement with Authorized recycler for discarded container &amp; used oil &amp; details of the quantum of hazardous waste disposed annually over the last 3 years.</p> <p>3. From the submission of PP, it appears that the char generated will be used in AFBC Boiler, a clarification shall be submitted w.r.t. installation of AFBC boiler &amp; whether char generated so far has been completely used in AFBC boiler. <b>COMPLIED SUBJECT TO ABOVE CONDITIONS.</b></p>	<p>17.05.17 to 16.05.21 we have deposited Tar residue to M/s. SEPPL Kutch. Disposal Data of last 3 years is enclosed herewith as (ANNEX.G)</p> <p>2. We are supplying used oil &amp; Discarded container to the recycler/ or to local civil contractors for their end use. Copy of letter is enclosed. Recent qty. of Used Oil &amp; Empty Drums being sold to Alicid Organic Industries Ltd. (AOIL) copy of agreement with AOIL is enclosed as (ANNEX. G-1.)</p> <p>3. Our Avg generation of charcoal is 8-10 MT. on per day basis and the same is being consumed by our AFBC. However, We had some old stock of charcoal which is been sold to end users and data showing the details of transport vehicle wise is enclosed herewith as (ANNEX. G-2). Hence, it is requested to kindly treat the condition as complied."</p>	<p>Annexure-G in the main report. However, only the document dated 20.03.2017 related to disposal of hazardous waste is provided at Annexure-G in the main report. Disposal data of</p> <p>Copy of agreement with M/s AIOL is enclosed as Annexure-G1 for the period of 28.12.2017 to 27.12.2018.</p> <p>Further additional information is submitted by the PP vide email dated 04.01.2018 regarding the authorization of AOIL from GPCB.</p> <p>However, PP should ensure that no extra char coal is generated.</p> <p><b>In view of the above submission by the PP, the condition is considered as complied COMPLIED.</b></p>
<b>B. GENERAL CONDITIONS</b>				
i)	The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control	The project authorities have been strictly adhering to the stipulation of the GPCB/ state government or any statutory body.	The PP stated that-	

	Board and the State Government.	<p><b>In view of the submission by the PP, the condition is considered complied subject to submission of detailed compliance of the stipulations in the CCA.</b></p> <p><b>Complied subject to above condition.</b></p>	<p>“The PA is bound to strictly adhere to the stipulation laid down by the Gujarat Pollution Control Board and the State Government, Consent order No. AWH-68553 valid up to 08/12/2019 is enclosed herewith as (ANNEX. J). Hence, it is requested to kindly treat the point as complied.”</p>	<p>The PP needs to submit the detail compliance of stipulations in CCA.</p> <p><b>In view of the above the status of condition is still not changed.</b></p> <p><b>COMPLIED SUBJECT TO ABOVE CONDITION.</b></p>
ix)	Occupational Health Surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.	<p><b>Complied.</b></p> <p><b>However, the condition is considered complied subject to submission of addnl. Information like Summary (in nos.) of Month-wise details of the workers who underwent Occupational Health check-ups, details of the Clinical Tests subjected to and few sample copies of Medical records, etc.</b></p>	<p>The PP stated that- “Sir, It is humbly submitted that we organize camps by calling Team of Doctors from reputed hospitals for Medical health check up of our workers. Recently, Team of Sterling Hospital, GDM was called &amp; Health check up was done, photos of the same are enclosed as (ANNEX.N)”</p> <p><b>The PP submitted additional information vide email dated 04.01.2018.</b> The PP stated that “We wish to submit that we undergo Occupational Health Check ups on monthly basis by appointment of Medical Practitioner at our plant. However, we have not maintained such data in our records. Here, we assure you</p>	<p><b>In view of the submission by the PP, the condition is considered as under compliance.</b></p> <p><b>UNDER COMPLIANCE</b></p>

			that now onwards, we shall keep the Occupational Health check up's data on monthly basis and same shall be submitted by next month, i.e. Feb 2018. We further state that we organize Medical Camps by calling Team of Doctors from reputed hospitals once in a year for getting various Health Check of our employees.	
x)	<p>The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA EMP report and during the public hearing meeting.</p> <p>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.</p>	<p><b>Complied</b></p> <p>Company undertakes socio-economic development activities in the surrounding villages. Year -2016 : Rs.2,00,000/- (CSR Fund)</p> <p><b>In view of the submission by the PP, the condition is considered complied subject to submission of detailed compliance of environmental protection means and safeguards recommended in the EIA EMP report and during the public hearing meeting as well as detailed break-up &amp; documentary evidences to the CSR activities undertake during 2016 &amp; 2017.</b></p>	<p>The PP stated that- "The PP is committed to carry out EIA/ EMP/ CSR and carry out socio-economy/community educational development activities in the surrounding villages. In the year 2016, under the Nirmal Gujarat scheme, we have made 95 toilets in the village Vavar by spending approx. 15 lacs. Rs. 1,50,000/- worth Grass was given to Cattle in Village Vadala. In the year 2017, Grass to Cattle worth Rs. 1,28,000, Rs. 1,22,840 worth Grass to Cattle of Bhadreswar Village, Rs. 91,220 worth Grass to Cattle of Vavar</p>	<p><b>The PP needs to provide the recommendations of EIA/EMP &amp; Public hearing and its compliance thereof.</b></p> <p><b>Year wise investment in CSR with detail activity wise is to be provided.</b></p> <p><b>In view of the submission by the PP, the condition is considered complied subject to submission of additional information.</b></p> <p><b>COMPLIED SUBJECT TO ABOVE CONDITIONS</b></p>

		<p><b>Complied subject to Above conditions</b></p>	<p>Village, Rs. 3,50,000 &amp; 2,50,000 respectively to Village Kukadsar &amp; Bhadreshwar for development of Parking &amp; Annual Mela plot. All the documentary evidences are enclosed herewith as (ANNEX. O), Hence kindly treat condition as complied.”</p> <p>The PP submitted additional information vide email dated 04.01.2018. The PP stated that “ We wish to submit that we have spent Rs. 7.5 Lacs in against CSR activities in the F.Y. 2014-15, Rs. 15 Lacs in the F.Y. 2015-2016 under the Nirmal Gujarat Scheme and Rs. 4.95 Lacs in the F.Y 2016-2017 in the surrounding vilages. In the current year, we have already spent approx. Rs. 6.00 Lacs in current year, i.e. 2018 against CSR activities in surrounding villages. We further wish to state that we have budgeted Rs. 5 to 7.5 Lacs for the year to come i.e. F.Y 2018-2019”</p>	
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xii)	<p>The Regional Office of this Ministry at Bhopal / CPCB/GPCB shall monitor the stipulated conditions.</p> <p>A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.</p>	<p>Complied.</p> <p>In view of the submission by the PP, the condition is considered complied subject to submission of documentary evidences related to compliance reports submitted over the last 3 years.</p> <p><b>COMPLIED SUBJECT TO ABOVE CONDITIONS.</b></p>	<p>The PP stated that- "Now onwards, PP is agreed to submit Six month's Compliance reports to RO of MOEF &amp; CC/ CPCB &amp; GPCB."</p>	<p>In view of the submission by the PP, it appears that the PP did not submit the Compliance report earlier, but assured to submit six monthly Compliance report now onwards. The condition is considered complied if accepted by MoEF, New Delhi.</p> <p><b>COMPLIED SUBJECT TO ACCEPTANCE BY MoEF&amp;CC, NEW DELHI</b></p>
xiv)	<p>The 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>Complied.</p> <p>In view of the submission by the PP, the condition is considered complied subject to submission of documentary evidences related to information to the Regional Office as well as the ministry, the date of Financial closure &amp; Final Approval of the project by the concern authorities &amp; the date of commencing the Land &amp; Development work</p> <p><b>COMPLIED SUBJECT TO ABOVE CONDITIONS</b></p>	<p>The PP stated that- "Sir, It is submitted that, the EC is sought for the expansion of existing production capacity, hence no land development work is required, only a civil foundation and placement of order for procuring the machinery is needed which will take approx. six months time to commence the production. Complete Project Cost Details are enclosed herewith as (ANNEX.P)"</p>	<p>The PP submitted a document related to the expansion project at Annexure-Q in the main report. But the required information is not furnished by the PP.</p> <p>In view of the submission by the PP, the condition is still considered as complied subject to submission of documentary evidences related to information to the date of Financial closure &amp; Final Approval of the project by the concern authorities &amp; the date of commencing the Land &amp; Development work.</p> <p><b>COMPLIED SUBJECT TO ABOVE CONDITION</b></p>



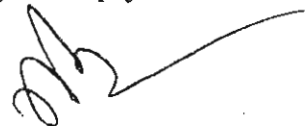
9.	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management and Handling) Rules, 2003 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.	<p><b>Agreed</b></p> <p><b>However, the condition is considered complied subject to further elaboration on the stipulated condition.</b></p> <p><b>COMPLIED SUBJECT TO ABOVE CONDITIONS</b></p>	<p>The PP stated that- "PP agreed to follow all the conditions as per all the prevailing Act/ Rules and amendments there on from time to time."</p>	<p><b>In view of the submission by the PP the condition is considered as complied.</b></p> <p><b>COMPLIED</b></p>
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#### SUMMARY NOTE:

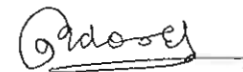
##### (i) Implementation of Conditions:

- It may be seen that out of 5 not complied conditions 2 are under compliance, 2 are partly complied & 1 is still not complied.
- Out of 11 partly complied conditions 3 are complied, 2 are under compliance & 6 are still partly complied.
- Out of 9 conditions complied subject to condition 4 are complied, 3 are still complied subject to condition, 1 is complied subject to acceptance by MoEF&CC, New Delhi & 1 is under compliance.

- (ii) Copy of Reply of PP dated 22.12.2017 to RO, Bhopal's letter dated 18.12.2017 is at Appendix-I.



(B B Barman)  
Scientist-G



(Vishwa Bandhu Meena)  
Scientist-C

*Glaovey*  
*02/01/2018*

To,

Date:- 22/12/2017.

The Regional Office- Western Zone,

Ministry of Environment, Forest &amp; C C,

Kendriya Paryavaran Bhavan,

Link Road No. 3, E5- Ravishnaker Nagar,

Bhopal- 462016 ( MP ).

3 JAN 2018  
 093

Sub:- Expansion of the existing Integrated Steel Plant by installing Sponge Iron Plant ( 66000 TPA ) along with captive Power Plant ( 10 MW, WHRB 6MW, AFBC 4MW ) at Survey No. 221, Village Vadala, Tehsil Mundra, District Kutch, Gujarat by M/s. Nilkanth Concast Pvt Ltd.- Certified EC Compliance Reg.

Ref:- Your letter No.5-54/2009 (ENV)/949 dated 18/12/2017.

Kind Attn:- Mr. Vishwa Bandhu Meena Sir, ( Scientist C )

Respected Sir,

This has reference to the above subject and your letter cited above, Wherein you have mentioned your observations during your site visit on 14/12/2017.

While, we appreciate all your suggestions, We wish to submit as under:-

- 1) We wish to submit that exhaust Fan at Furnace No. 1 is working satisfactory and We are in the process of modifying the existing exhaust fan for primary emission in Induction furnace number 2 for which query has been floated, We have also floated query for the secondary emission for both the Furnaces at SMS to M/s. Tech Flow - Ahmedabad.
- 2) With regards to all other " not complied " and " partly complied " conditions, the current status of compliance along with the documentary evidences shall be provided separately in tabular form.
- 3) For Green Belt development, We agree that along periphery, the plantation is inadequate, however, we are in continue process of planting tree every month under the consultation of DFO & as per the CPCB guideline to make the area dense, after your visit, we have earmarked the area where we are going to plant 100 more tree within a couple of days.

- 4) For Rain Water Harvesting, Please be informed that rain in our area is very less and rare, however, We have already made a pond for collection of water and now connecting the same with the water drainage and also as advised by you, we are connecting the plant area with trenches in case of heavy rain and overflow.
- 5) With regards to water sprinklers, Sir, we have recently installed 50 New Water Sprinklers and also installed 500 meter long new GI pipeline, apart from the 500 meter flexible pipeline, however, we assure you to increase the water sprinklers to cover rest of the area very soon.
- 6) With regards to debris, waste and other scrap materials, We wish to state, that this a ongoing routine job to clear such waste materials, We assure you that the same shall be removed or disposed off within one month time from now.
- 7) With Regards to Safety, We highly appreciate your recommendation and assure that, We will take utmost care and ensure use of safety mask, ear protection etc. by all labors/ workers, within the company premises.
- 8) The ongoing Road Construction work is about to complete within next 2/3 days, However, we shall undertake the construction of road for the remaining area in the month of Feb 2018 and same shall be completed within two months time i.e, by end of March 2018.
- 9) For Over all Drainage System, We assure you that, we shall make proper drainage arrangements within plant premises.

In respect of the " not complied " and " partly complied " conditions, we shall submit our revised reports with all necessary documents latest by the first week of January 2018.

We hope you will find the above in accordance to the recommendations & suggestions made by you.

Thanking You,

For Nilkanth Concast Pvt Ltd.,



V.K. Pandey.

( Sr. Vice President- Tech. )



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