

**EC COMPLIANCE
FOR**

Expansion of Steel Plant by installation of Sponge Iron Plant (175 TPD) and Captive Power Plant (7 MW; 5 MW AFBC & 2 MW WHRB) at Sy. No.175, 175/2, 176, 177, 178, 179/1, 179/2, 179/3, 182/1. 184, 185/2, 185/3, 185/4, 185/5 Village Samkhiyali, Taluka Bhachau, District Kutch, Gujarat by M/s Gallantt Metal Ltd. (EC)

Sr. No.	EC condition	Compliance status																																								
2.0	<p>The ministry of Environment and Forest has examined the application. It is noted that proposed is for the expansion of steel plant by installation of sponge iron plant (175 TPD) and captive power plant (7MW; 5MW AFBC & 2MW WHRB) at Sy.No. 175,175/2,176,177,178,179/1,179/2,179/3,182/1,184,185/2,185/3,185/4,185/5, village Samkhiyali, Taluka Bhachau, District Kutch, Gujarat by M/s Gallantt Metal Limited. The total land area acquired is 116.23acres. Expansion will be carried out in 14acres within the existing plant premises and no additional land will be required. Total cost of the proposed expansion is Rs.43.00 Crores. Following will be the details of the existing and proposed facilities:</p> <table border="1" data-bbox="443 1507 1528 2279"> <thead> <tr> <th>Sr. No.</th> <th>Products</th> <th>Existing Capacity (TPA)</th> <th>Proposed Capacity (TPA)</th> <th>Total Capacity (TPA)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Steel Billets</td> <td>1,78,200</td> <td>—</td> <td>1,78,200</td> </tr> <tr> <td>2.</td> <td>Sponge iron</td> <td>1,12,500</td> <td>63,000</td> <td>1,75,500</td> </tr> <tr> <td>3.</td> <td>MS bars</td> <td>1,71,963</td> <td>—</td> <td>1,71,963</td> </tr> <tr> <td>4.</td> <td>Runner & Riser</td> <td>891</td> <td>—</td> <td>891</td> </tr> <tr> <td>5.</td> <td>Miss Rolled Bar</td> <td>5,346</td> <td>—</td> <td>5,346</td> </tr> <tr> <td>6.</td> <td>Power Plant (WHRB)</td> <td>6MW</td> <td>2MW</td> <td>8MW</td> </tr> <tr> <td>7.</td> <td>Power Plant (AFBC)</td> <td>12MW</td> <td>5MW</td> <td>17MW</td> </tr> </tbody> </table>	Sr. No.	Products	Existing Capacity (TPA)	Proposed Capacity (TPA)	Total Capacity (TPA)	1.	Steel Billets	1,78,200	—	1,78,200	2.	Sponge iron	1,12,500	63,000	1,75,500	3.	MS bars	1,71,963	—	1,71,963	4.	Runner & Riser	891	—	891	5.	Miss Rolled Bar	5,346	—	5,346	6.	Power Plant (WHRB)	6MW	2MW	8MW	7.	Power Plant (AFBC)	12MW	5MW	17MW	<p>We have received the amendment in C & A vide letter No PC/CCA-KUTCH-341(3)/GPCB ID: 17845/106250 dated 06.03.2012 for the increased capacity of our AFBC Boiler by 5 MW. We have also received the amendment in CC & A vide letter no PC/CCA-KUTCH-341(3)/GPCB ID: 17845/204290 dated 13.02.2014</p>
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3.0	<p>Electrostatic precipitator (ESP), bag house bag filter, dust suppression system, water sprinkler system will be provided to control emission level below 100mg/Nm³. Total water requirement for expansion from Gujarat Water Infrastructure Limited (GWIL) will be 255 m³/day. Ground water or any other surface water will not be utilized. Boiler blow down and DM reject streams</p>																																									

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	will be utilized for dust suppression and green belt development. No wastewater will be discharged outside the premises and 'Zero' discharge will be adopted. Fly ash will be utilized in captive brick manufacturing plant or in construction activities. Process dust will be recycled back manufacturing plant, Cement plant or in construction activities. Process dust will be recycled back to the process. Coal char will be utilized in captive power plant.	
4.0	Public hearing is exempted as per section 7 (ii) under EIA Notification , 2006	
5.0	The Ministry of Environment and Forest here by accords environment clearance of above project under EIA Notification dated 14 th September, 2006 subject to strict compliance of the following conditions.	
1.	Efforts should 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 should be provided to keep the emission levels below 100 mg/Nm ³	Compliance assured.
2.	Electrostatic precipitator (ESP) shall be provided to DRI kilns, WHRB and AFBC boilers to keep the particulate matters within 100 mg/Nm ³ . 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 electrostatic precipitator (ESP) before leaving out into the atmosphere through ID fan and stack	Complied
3.	At least four ambient air quality-monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of SPM, SO ₂ and NO _x are anticipated in consultation with the GPCB. Data on ambient air quality and stack emission should be regularly submitted to this Ministry including its Regional Office at Bhopal, GPCB and CPCB once in six months.	Complied Report Enclosed as Annexure 4
4.	Data on ambient air quality stack emissions and fugitive emissions shall be uploaded on the Company's website and also regularly submitted on-line to the Ministry's Regional Office at Bhopal, Gujarat Pollution Control Board (GPCB) and Central Pollution Control Board (CPCB) as well as hard copy once in six months.	Compliance assured.

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	Data on SPM, SO ₂ and NO _x shall also be displayed prominently outside the premises at the appropriate place for the information of general public.	
5.	Secondary fugitive emissions from blast furnace and sinter plant shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines / Code of Practice issued by the CPCB shall be followed. The emission standards issued by the Ministry in May, 2008 for the sponge plants shall be followed.	Compliance assured. Reports of Fugitive Emission is enclosed herewith as Annexure 6
6.	Vehicular pollution due to transportation of raw material and finished product shall be controlled. Proper arrangements should also be made to control dust emissions during loading and unloading of the raw material and finished product. Vehicular emissions shall be regularly monitored and records kept.	Compliance assured.
7.	In-plant control measures for controlling fugitive emissions from spillage/raw materials handling shall be provided. Fugitive emissions shall be controlled by using closed storages, covered belt conveyors, bag house at transfer points and crusher house etc. Bag filters shall be provided to crusher house, screen house and at product handling areas to keep the particulate emissions within the permissible limits. Water sprinkling shall be provided at ash dykes and fuel storage area to control fugitive emissions from raw material handling area along with loading and unloading areas to control fugitive emissions. Data on fugitive emissions shall be regularly monitored and records maintained. Bag house/dust collector shall be provided at transfer points, raw material handling area, crusher house, screening plant, stock bin etc. to control fugitive emissions.	Compliance assured.
8.	Total water requirement for expansion from Gujarat Water Infrastructure Limited (GWIL) shall not exceed 255 m ³ /day as per the permission by the GWIL vide letter no. GWIL/Kutch/ind.conn./30 dated 2nd January, 2009. Ground water or any other surface water shall not be utilized for any construction or industrial purposes. Effluent Treatment Plant (ETP) shall be	Complied. Latest Report of Waste & Treated water is enclosed as Annexure 9 &10

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	installed for the treatment of process water. Wastewater from Boiler blow down, DM Plant and cooling tower shall be utilized for dust suppression and for green belt development. No process water shall be discharged and 'Zero' discharge will be adopted. Domestic wastes shall be disposed off through septic tank followed by soak pit	
9.	Ground water monitoring around the solid waste disposal site / secured landfill (SLF) should be carried out regularly and report submitted to the Ministry's Regional Office at Bhopal, CPCB and GPCB	Complied. Copy of Report is enclosed as Annexure 7
10.	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 shall be disposed off anywhere else. AFBC boiler shall be installed simultaneously alongwith the DRI plant to ensure full utilization of char from the beginning. All the other solid / hazardous waste generated shall be properly utilized or disposed off in environment-friendly manner; Process dust shall be recycled back to the process. Spent/used oil shall be sold to the registered recyclers as per the Hazardous Waste (Management & Handling) Rules, 1989 and subsequent amendments.	Complied.
11.	A time bound action plan shall be submitted to reduce solid waste, its proper utilization and disposal	Complied. Action Plan attached as Annexure No 11
12.	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 Bhopal, MPPCB and CPCB.	Compliance assured. Copy of Report of Toxic Element is enclosed as Annexure 8
13.	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 'Memorandum of Understanding' shall be	Compliance assured.

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	submitted to the Ministry's Regional Office at Bhopal. All the fly ash shall be provided to cement and brick manufacturers for further utilization and bottom ash shall be used for land filling. Fly ash shall also be utilized in captive brick manufacturing plant, cement plant or in construction activities	
14.	Green belt shall be developed in 33% area 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	Compliance assured.
15.	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Sector shall be implemented	Compliance assured.
16.	The company shall provide housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project	Compliance assured.
	GENERAL CONDITIONS:	
I	The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board (GPCB) and the State Government	Compliance assured.
ii	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests	Compliance assured.
iii	The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19th 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.	Compliance assured.
iv	Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation	Compliance assured. Latest Report of Waste & Treated water is enclosed as

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