

Compliances Status of Environmental Clearance for Small Dia Ductile Iron Pipe

Environmental Clearance No.: SEIAA/GUJ/EC/3(a)/122/2011, Dated 23.06.2011

Sr. No.	Compliance Conditions	Compliance Status	Remarks
A	SPECIFIC CONDITIONS		
1.	Total production of molten metal / sponge iron after the proposed expansion for captive consumption plus sell shall not exceed the total permitted quantity of 5,80,000 TPA as per MoEF's environmental clearance order dated 26/11/2009.	Point Noted	Proposed project & construction work is under progress.
2.	The company shall strictly abide by the outcome / order of the court for the litigation in the Mundra Civil Court with reference to the matter of the existing cart track.		Direction / Order given by Hon'ble High Court of Gujarat, by the Hon'ble Principle Civil Judge of Mundra (Case No. 607-11).
3.	The alternate new cart track shall be dedicated for use of villagers and the company shall not claim ownership of that land in future as well. Moreover, the company shall not plan any expansion / activity in future that may lead to recruiting of the new cart track.		
A1	WATER		
4.	Fresh water requirement for the proposed DI Pipe Plant shall not exceed 731.64 KL/day and it shall be met only through water supply from Gujarat Water Infrastructure Ltd. (GWIL).	Complied	This is proposed project and under commissioning.
5.	No ground water shall be tapped for the project requirements. Water meter shall be installed at the all water intake points and its records shall be maintained.	Complied	Water is being met from existing source i.e. from GWIL.
6.	There shall be no industrial effluent generation from the proposed DI Pipe Plant.	Point Noted	This is proposed project and under commissioning.
7.	Domestic wastewater generation from the proposed DI Pipe Plant shall not exceed 1.44 KL/day and it shall be disposed off through septic tank /soak pit.	Point Noted	
8.	Rain water harvesting of surface as well as roof top runoff shall be undertaken and the same water shall be used for the various activities of the project to conserve fresh water as well as to recharge ground water before recharging the surface runoff, pretreatment must be done to remove suspended matter.	Point Noted	Shall be complied after commissioning & operation of the plant.
A2	AIR		
9.	Blast furnace Gas, LDO,FO& LPG shall be used as	Point Noted	

	fuels in the new DI Pipe Plant.		
10.	Height of stacks attached to (i) Core Shop (ii) Magnesium Treatment (iii) Socket Cleaning, (iv) Zinc Coating, (v) Tri-grinding Station, (vi) Boiler shall be 30 m and height of stack attached to Annealing Furnace shall be 45 m, Adequate port holes and sampling facilities shall be provided at all the stacks.	Point Noted	This is proposed project and under commissioning.
11.	Bag Filter shall be provided as air pollution control system as proposed for each (i) Core Shop (ii) Magnesium Treatment (iii) Socket Cleaning, (iv) Zinc Coating, (v) Tri-grinding Station, (vi) Boiler. These bag filters shall be operated efficiently to achieve particulate matter emission levels below 50 mg/Nm ³ and rest of parameters as per the norms prescribed by the GPCB at the stack outlets.	Point Noted	
12.	Online ambient air monitoring and continuous stack monitoring facilities shall be provided for all the stacks and sufficient air pollution control devices shall be provided to keep the particulate matter emission level below 50 mg/Nm ³ as per the specific condition no. (iii) stated in the environmental clearance order no. J-11011/868/2008-IA-II(I) dated 26/11/2009 issued by the MoEF. The monitored data shall be displayed at strategic locations within and outside the premises, including at main gate of the company premises.	Point Noted	
13.	The company shall prepare schedule, carry regular preventive maintenance of mechanical and electrical parts of Bag Filters replace damaged bags and assign responsibility for the same to the senior officer of the company.	Point Noted	
14.	The fugitive emission in the work zone environment shall be monitored. The emission shall conform to the standards prescribed by the concerned authorities from time to time (e.g. Directors of Industrial Safety & Health).	Point Noted	This is proposed project and under commissioning.
15.	Third party performance evaluation of the Bag Filters shall be carried out at least once in a year to check its performance and efficiency through a reputed institute like, L. D. College of Engineering or such other institute of similar repute, and its records shall be maintained.	Point Noted	
16.	Regular monitoring of ground level concentrations of SO ₂ , NO _x , PM ₁₀ and PM _{2.5} parameters shall be carried out at least four stations in the downwind direction in the impact zone as well as where maximum ground level concentration is anticipated	Point Noted	Monitoring stations shall be finalized based on CPCB guidelines in consultation with GPCB.

	and its records shall be maintained. The concentration of pollutants shall not exceed the national ambient air quality standards notified by the MoEF vide notification dated 16/11/2009. If any stage these levels are found to exceed the prescribed limits, necessary additional control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with GPCB.		
A3	HAZARDOUS / SOLID WASTE		
17.	The company shall strictly comply with the rules and regulations with regards to handling and disposal of Hazardous waste in accordance with the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008, as may be amended from time to time. Authorisation from the GPCB shall be obtained for collection / Treatment /storage / disposal of hazardous wastes.	Point Noted	
18.	Hazardous/solid waste shall be packed and stored in a separate designated hazardous waste storage facility with impervious bottom and leachate collection facility, before its disposal.	Point Noted	
19.	Burnt core. sand shall be transported to sand reclamation plant for its reuse to make fresh cores.	Point Noted	
20.	Magnesium powder shall be sold to fertilizer industries or reused in sinter plant.	Point Noted	
21.	Zinc dust and used / waste oil shall be sold to only to the registered recyclers.	Point Noted	
22.	Dust from tri grinding station shall be re used in house.	Point Noted	
23.	Cement and sand waste shall be utilized in solid brick manufacturing .	Point Noted	
A4.	SAFETY		
24.	Fire protection system based on National Fire Protection Association (NFPA) approved guidelines shall be provided.	Point Noted	
25.	Personal protective equipment shall be provided to workers and its usage shall be ensured and supervised.	Complied	
26.	First Aid Box and required antidotes for chemicals used in the unit shall be made readily available in adequate quantity at all the times.	Point Noted	

27.	Hazardous material storage shall be at an isolated designated location. Storage and use of hazardous chemicals shall be minimized to the extent possible and all necessary precautions shall be taken to mitigate the risk generated out of it.	Point Noted	
28.	All transporting rout within the factory premises shall have paved roads to minimize splashes and spillages.	Point Noted	
29.	All efforts shall be made for automization of molten metal handling and human exposure to the molten metal shall be avoided as far as possible.	Point Noted	
30.	Training shall be imparted to all the workers on safety and health aspects of molten metal handling heat stress etc. to avoid its impact on human being.	Point Noted	
31.	Occupational health surveillence of the workers shall be carried out on a regular basis and records shall be maintained as per the Factories Act and Rules. Pre-employment and periodical post employment medical examination for all workers shall be undertaken as per the statutory requirements.	Point Noted	
32.	At all the times, necessary tie up with the nearby doctor qualified/ hospital for occupational health shall be made to ensure that the medical treatment is given within the shortest possible time in case of any adverse condition.	Point Noted	
33.	Sufficient ventilation, exhaust shall be provided to maintain the temperature within the work area. Temperature indicators shall be provided at the vulnerable places in consultation with Director of Safety and health.	Point Noted	
34.	The project management department shall prepare a detailed Disaster Management Plan (DMP) for the project as per the guidelines from Directorate of Industrial Safety and Health.	Point Noted	
A5.	NOISE		
35.	To minimize the noise pollution the following noise control measures shall be implemented.	Point Noted	
	Selection of any plant equipment shall be made with specification of low noise levels.	Point Noted	
	Manufactures /suppliers of major noise generating machines / equipments like air compressors, feeder pumps, turbine generators, etc. shall be instructed to	Point Noted	

	make required design modifications wherever possible before supply and installation to mitigate the noise generation and to comply with the national / international regulatory norms with respect to noise generation for individual units.		
	Regular maintenance of machineries and vehicles shall be undertaken to reduce noise impact.	Point Noted	
	Noise suppression measures such as enclosures, buffers and /or protective measures shall be provided.	Point Noted	
	Employees shall be provided with ear protection measures like earplugs or earmuffs.	Point Noted	
	Proper oiling, lubricating and preventive maintenance shall be carried out of the machineries and equipments to reduce noise generation.	Point Noted	
	Construction machineries generating minimum noise and vibration shall be chosen.	Complied	Already considered and being implemented.
	Ear plug/earmuffs shall be made compulsory for the construction workers working near the noise generating activities / machines / equipment.	Complied	Respective personal protective equipments have already been provided during construction activities.
	Vehicles and construction equipment with internal combustion engines without proper silencer shall not be allowed to operate.	Point Noted	
	Construction equipment meeting the norms specified by EP Act, 1986 shall only be used.	Complied	Monitored regularly
	Noise control equipment and baffling shall be employed on generators especially when they are operated near the residential and sensitive areas.	Point Noted	
	Noise level shall be reduced by the use of adequate mufflers on all motorized equipment.	Point Noted	
36.	The overall noise level in and around the plant area shall be kept well within the prescribed standards by providing noise control measures including acoustic solution , hoods, silencers, enclosures, vibration dampers etc.on all sources of noise generation . The ambient noise level shall confirm to the standards prescribed under the Environment (Protection) Act and Rules. Workplace noise levels for workers shall be as per the Factories Act and Rules.	Point Noted	
A.6	CLEANER PRODUCTION AND WASTE MINIMISATION		

37.	The unit shall undertake the cleaner production Assessment study through a reputed institute / organization and shall form a CP team in the company. The recommendations thereof along with the compliance shall be furnished to the GPCB.	Point Noted	
38.	The company shall undertake the following waste minimization measures:		
a.	Metering and control of quantities of active ingredients to minimize waste.	Point Noted	
b.	Re-use of by products from the process as raw materials or raw materials substitutes in other process.	Point Noted	
c.	Use of automated and enclosed filling to minimize spillages.	Point Noted	
d.	Use of close feed system.	Point Noted	
e.	Dry cleaning / mopping of floor instead of floor washing.	Point Noted	
f.	Use of high pressure hoses for equipment cleaning to reduce waste water generated.	Point Noted	
g.	Regular preventive maintenance for avoiding leakage , spillage etc.	Point Noted	
A.7	GREEN BELT AND OTHER PLANTATION		
39.	The unit shall develop green belt at least 3 acre area within premises as proposed as per the guidelines of the CPCB. Green belt of average 15 m width comprising of rows of varying height tall trees with thick foliage shall be developed in the periphery of the factory premises.	Complied	Plantation activities have been started.
40.	Drip irrigation system shall be used green belt development.	Point Noted	
41.	The unit shall also take up adequate plantation at suitable open land and road sides and other open areas in nearby villages or schools in consultation with the Gram Panchayat / GPCB and submit an action plan for the same for next three years to the GPCB.	Complied	Plantation activities have been started.
B.	GENERAL CONDITION		
42.	In the event of failure of any pollution control system adopted by the unit , the unit shall be safely closed down and shall not be restarted until the desired efficiency of the control equipment has been achieved .	Point Noted	

43.	The company shall vigorously follow the recommendations mentioned in the Charter on Corporate Responsibility for Environment Protection (CREP) published by the Central Pollution Control Board.	Point Noted	
44.	All the issues raised in the public hearing held on 29.03.2011 shall be comprehensively addressed / complied with in a time bound manner.	Point Noted	
45.	The project proponent shall vigorously implement the CSR plan for the year 2011-12 submitted to the SEAC, Gujarat and allocate Rs. 92.82 lacs for the same.	Point Noted	CSR plan is under review and shall be submitted after finalization.
46.	The "Need Assessment Study" shall be carried out through any reputed institute like Tata Institute of Social Studies, Sardar Patel Institute of Economic Research etc. and based on the needs of the community, various socio-economic developmental of the surrounding villages.	Point Noted	
47.	A separate Environment Management Cell equipped with full fledged laboratory facilities and qualified personnel shall be set up to carry out the environment management and monitoring functions and a separate budget shall be allocated for this purpose.	Complied	Environment Management Cell equipped with full fledge laboratory is already established.
48.	The fund earmarked for environment protection measures and CSR activities shall be maintained in separate accounts and there shall not be any diversion of these funds for any other purpose. A year wise expenditure on environmental safeguards shall be reported.	Point Noted	
49.	Pucca flooring / Impervious bottom shall be provided in the work areas and storage.	Point Noted	
50.	Leakages from the pipes, pumps, shall be minimal and if occurs, shall be arrested promptly. During material transfer, spillages shall be avoided and garland drain be constructed.	Point Noted	
51.	The project management shall also implement the recommendations made in the EIA / EMP report of the project and the undertaking submitted by the project proponent.	Point Noted	
52.	The project proponent shall also comply with any additional condition that may be imposed by the	Point Noted	

	SEAC or the SEIAA or any other competent authority for the purpose of the environmental protection and management.		
53.	No further expansion or modifications in the plant shall be carried out without prior approval of the MoEF / SEIAA, as the case may be . In case of deviations or alterations in the project proposal from those submitted to MoEF / SEIAA / SEAC for clearance, a fresh reference shall be made to th SEIAA/ SEAC to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Point Noted	Shall be strictly complied
54.	The project authority shall earmark adequate funds to implement the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.	Point Noted	
55.	The applicant shall inform the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with the GPCB and may also be seen at the website of SEIAA /SEAC / GPCB.This shall be advertised within seven days from the date of the clearance letter in at least two local newspapers that are widely circulated in the region, one of which shall be in Gujarati language and the other in English. A copy each of the same shall be forwarded to the concerned regional Office of the Ministry.	Complied	
56.	It shall be mandatory for the project management to submit half yearly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard and soft copies to the regulatory authority concerned, on 1 st June and 1 st December of each calendar year.	Point Noted	
57.	The project authority shall also adhere to the stipulations made by the Gujarat Pollution Control Board.	Point Noted	
58.	The project authority shall inform the GPCB, Regional Office of MoEF an SEIAA about the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	Point Noted	
59.	The SEIAA may revoke or suspend the clearance, if implementation of any of the above condition is not	Point Noted	

	found satisfactory.		
60.	The above condition shall be enforced , inter-alia under the provision of the Water (Prevention & Control of Pollution) Act,1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules,2008 and the Public Liability Insurance Act,1991 along with their amendments and rules.	Point Noted	
61.	The Environmental Clearance is valid for five years from the date of issue.	Point Noted	