

HALF YEARLY COMPLIANCE REPORT



APRIL' 2017 TO SEPTEMBER' 2017

PREPARED BY:

FOUNDRY CLUSTER DEVELOPMENT ASSOCIATION

Ranihati - Amta Road, Hawli Bagan,

Dist. - Howrah, West Bengal

COMPLIANCE STATUS ON ENVIRONMENTAL CLEARANCE

Environment Clearance No: 21-1149/2007-1A.III

Project: Proposed Development of Foundry park (SEZ) at Howrah, West Bengal

The Foundry Cluster Development Association was allowed to have a specific area to install the metallurgical unit as per the Environmental Clearance. After Obtaining the EC the development work has started and some units have done construction work. But still now no commercial production in any unit has started. However the six monthly compliance has been prepared to comply the conditions of the EC as stipulated by MoEF.

A. SPECIFIC CONDITIONS:

I. Construction Phase

Sl.	COMPLIANCE CONDITIONS:	:	COMPLIANCE STATUS
i.	Vehicles hired for construction activities should be operated only during non-peak hours.	:	The inspection is given to all land owners that all their vehicles to be used in construction activity during non-peak hours.
ii.	All the top soil excavated during construction activities should be stored for use in horticulture/landscape developments within the project site.	:	All the excavated soil is stored for use in horticulture/landscape developments within the project site.
iii.	Ready mixed concrete shall be used in building construction.	:	Ready mix concrete is used for the construction.
iv.	Water demand during construction shall be reduced by use of premixed concrete, curing agents and other best practices.	:	Water usage in construction activities is optimized to avoid the misuse. All members are instructed to use premixed concrete, curing agents and other best practices.

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v.	Permission to draw and use ground water for construction work shall be obtained from competent authority prior to construction/operation of the project.	:	Permission for ground water withdrawal for Construction and operation is obtained from the State Ground Water Authority (SWID).
vi.	Fixtures for showers, toilet, flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based control.	:	The necessary instruction regarding use of fixtures with less water consuming gadgets will be assessed.
vii.	Use of glass may be reduced upto 40% to reduce the electricity consumption and load on air conditioning. If necessary, use high quality double glass with special reflective coating in windows.	:	For reducing electricity consumption different measures like use of Glass and 5 star rated gadgets will be used in the operation of the units.
viii.	Roof should meet the prescriptive requirement as per energy conservation building code by using appropriate thermal insulation material to fulfill requirement.	:	As per building rules the roof will be made having appropriate thermal insulation.
ix.	Opaque wall should meet prescriptive requirement as per energy conservation building code which is proposed to be mandatory for all air conditioned spaces while it is aspirational for non air conditioned spaces by use of appropriate thermal insulation to fulfill requirement.	:	All the units will have individual facilities. So, each unit will have to meet the building code standard for air conditioned spaces. Appropriate thermal insulation will be taken care of.
x.	Storm water control and its reuse should be as per Central Ground Water Board and BIS standards for various applications.	:	The direction of ground water board will be complied in reuse & control of the storm water.

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xi.	All required sanitary and hygienic measures including portable toilets/septic tank etc. for labour should be in place before starting construction activities and to be maintained throughout the construction phase.	:	All required sanitary and hygienic measures including portable toilets/septic tank etc. for labour are given during construction activities.
xii.	The possibility of providing housing for labourers/workers shall be examined in consultation with concerned authorities to avoid creation of slums near the foundry park. The project proponent shall submit a report on this subject to MoEF within Six months.	:	The proposed site is close to Kolkata and Howrah. So, major portion of the labour will be from the local as well as adjoining area. So housing for labours will not be required as a whole. However necessary housing will be provided if it is required.
xiii.	Soil and ground water samples will be tested to ascertain that there is no threat to groundwater quality by leaching of heavy metals and other toxic contaminants.	:	The testing of soil & ground water is done and the report is kept with us.
xiv.	A First Aid Room will be provided at the project site both during construction and operation of the project.	:	For the cluster as a whole a First Aid Centre & Health Care Centre will be set up to look after the health aspect on emergency basis.
xv.	Adequate drinking water facility should be provided for construction workers at the site. The safe disposal of wastewater and solid wastes generated during the construction phase should be ensured.	:	Plan for providing drinking water for construction worker was in place and it will be provided as & when necessary during construction. During construction the generated solid waste is being disposed.

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xvi.	Disposal of muck including excavated material during construction phase should not create any adverse effects on the neighbouring communities and be disposed off taking the necessary precautions for general safety and health aspects of people.	:	Disposal of muck including excavated material during construction phase is planned muck disposal is done in such a way so that it could not affect the surrounding environment. Necessary precautions for general safety and health aspects of people are being taken care of.
xvii.	Diesel power generating sets used during construction phase should be of “enclosed type” to prevent noise and should conform to rules made under Environment (protection)Act 1986, prescribed for air and noise emission standards.	:	The D.G. in each unit will be installed as per the guideline of the MoEF.
xviii.	Ambient noise level should conform to standards both during day and night when measured at boundary wall of the premises/SEZ. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase.	:	The project proponent will conform to standards of Noise level at day & night time as per Environment Act. The present Noise Level is given in Annexure- I
xix.	The construction agencies shall use fly ash based material/products as per the provisions of fly ash notification of 14.9.1999 and as amended on 27.08.2003.	:	Fly ash is used during construction phases. The individual units will follow the rules as per the provisions of using fly ash vide notification of 14.9.1999 and as amended on 27.08.2003.

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xx.	Vehicles hired for bringing construction material at site should be in good condition and should have valid "pollution under check" (PUC) certificate and to conform to applicable air and noise emission standards and should be operated only during non-peaking hours.	:	There is a cell to check the validity of PUC certificates of all vehicles during construction phase. The checking is done regularly. During operation also the checking of vehicles for PUC compliance will be done.
xxi.	Construction spoils including bituminous materials and other hazardous materials must not be allowed to contaminate water courses and the dump sites for such material must be secured so that they should not leach into the ground water.	:	Construction spoils including bituminous materials and other stored inside the site in an earmarked area. So that no leaching taken place in the area & contaminate the adjoining surface water bodies.
xxii.	Any hazardous waste generated during construction phase should be disposed off as per applicable Rules & norms with necessary approvals of the State Pollution control Board.	:	In operation phase if any hazardous substance is used or stored, then the unit will abide by the applicable rules.
xxiii.	The diesel required for operating DG Set shall be stored in underground tanks and if required clearance from the Chief Controller of Explosives shall be taken.	:	The diesel for D.G. will be arranged by the individual units. The unit will arrange the diesel storage in tanks or barrels. If anyone need an underground tank, then the necessary clearance from the concerned authority to be arranged by the individual unit.
xxiv.	The approval of competent authority shall be obtained for structural safety of the buildings due to any possible earthquake, adequacy of	:	The approval regarding structural stability of the building shed etc. will be taken from the competent

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	fire fighting equipments etc. as per National Building Code including protection measures from lightening etc.		authority as per National Building Code. The protection measures from lightening etc will be taken.
xxv.	The width of the road around the park shall be a minimum of 3.0 meters instead of 1.5 m, as proposed.	:	It is already done as per direction.
xxvi.	Under the provisions of the Environment (Protection) Act 1986, legal action shall be initiated against the project proponent if it was found that construction of the project had started without obtaining environmental clearance.	:	The cluster has obtained EC & then after getting NOC to Establish the construction work will be started.
xxvii.	Regular supervision of the above and other measures for monitoring should be in place all through the construction phase so as to avoid disturbance to the surroundings.	:	Regular Supervision of compliance of the conditions & implementation of other measures is maintained during construction phase as per provisions of the E.C. once in six months. Ambient Air Quality monitoring is done once in six months and enclosed herewith as Annexure- II .

II. Operation Phase

SI.	COMPLIANCE CONDITIONS	:	COMPLIANCE STATUS
i.	Grouping/zoning of the plots/units should be in such a way that the waste from one unit may be possible to be used as a raw material in another unit.	:	It will be complied when the units will be in operation phase.

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ii.	Emissions from blast furnaces/cupola furnaces/electrical furnaces/Inductive furnaces will meet the prescribed standards.	:	When all the units will start operation necessary instruction will be given to all units for maintaining the standards for emissions from Blast Furnace/Cupola/Induction Furnaces etc.
iii.	No coke oven plant will be setup within SEZ.	:	No coke oven plant will be allowed in this cluster.
iv.	Iron Slag will be properly managed and efforts will be made to utilize the same in cement, road construction, landfill etc.	:	It will be managed as per direction.
v.	Liquid effluent emanating from different units will be treated to conform to the prescribed standards.	:	There will be treatment facilities for the waste water if generated from different units during operation phase. If necessary the cluster will have a central E.T.P. having necessary monitoring arrangement.
vi.	Adequate measures will be taken to control fugitive dust emission from the foundries in SEZ.	:	Every unit will implement the measures for control of fugitive dust emission from the foundries in the park during operation.
vii.	Diesel power generating sets proposed as source of backup power for lifts and common area illumination should be of "enclosed type" and conform to rules made under the Environment (Protection) Act 1986. The location of DG Set may be decided in consultation with State Pollution Control Board.	:	Every unit will install backup power source for lift and common area. The location of D.G. set will be decided in consultation with SPCB.

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viii.	During night time the noise levels measured at the boundary of the building/SEZ shall be restricted to the permissible levels to comply with the prevalent regulations.	:	The Noise levels will be restricted to within limits of WBPCB during operational phase.
ix.	Noise should be controlled to ensure that it does not exceed the prescribed standards.	:	Noise control system will be implemented to prevent higher noise level exceeding the prescribed standards.
x.	Weep holes in the compound walls shall be provided to ensure natural drainage of rainwater in the catchment area during the monsoon period.	:	It will be complied.
xi.	The STP/CETP shall be installed for the treatment of sewage/trade effluent generated to the prescribed standards including odour. Treated waste water shall be used for flushing of toilets, etc. In case treated effluent is to be discharged separately during monsoon period consent of State Pollution Control Board shall be taken.	:	There will be STP/CETP as per requirement when all the units will start functioning if required. Beside this the STP treated water to be used in toilet flushing or any other uses to minimize the overall consumption of water for each unit.
xii.	Separation of gray and black water should be done by the use of dual plumbing line. Treatment of 100% gray water by decentralized treatment should be done.	:	It will be looked into if there is a need for separation of gray & black water.
xiii.	For disinfection of wastewater ultra violet radiation shall be used in place of chlorination.	:	For disinfection of waste water UV will be used in place of chlorination.
xiv.	Rainwater harvesting and ground water recharging shall be practiced. Oil & Grease trap	:	Rain water harvesting system will be implemented by each unit as per

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	shall be provided to remove oil and grease from the surface run off and suspended matter shall be removed in a settling tank before its utilization for rainwater harvesting.		standard. The rain water will be purified and reused in cooling or gardening.
xv.	The solid waste generated should be properly collected & segregated. The project proponent shall consider generation of biogas from biodegradable component of solid wastes. The final view/proposal in this regard shall be submitted to MoEF within two months.	:	The metal bearing waste will be crushed and magnetic separator will be used to remove the metal component.
xvi.	Disposal of debris and sludge etc. shall be planned on long-term basis. Their use of road construction work is a short- term proposal. Details in this regard shall be submitted to MoEF within two months.	:	Disposal of debris and sludge will be done in a planned manner. Construction debris will be used for road making.
xvii.	The open spaces inside the plot should be preferably landscaped and covered with vegetation of indigenous variety. Green belt of adequate width and density will be provided all around the periphery of the SEZ preferably with local species to reduce noise and dust level.	:	The open spaces in the cluster will be used for proper landscape covering vegetation of indigenous variety. In each unit there will be also separate green belt development and the green belt will be developed along the periphery of the site.
xviii.	The ground water levels and its quality should be monitored regularly in consultation with Central Ground Water Authority. Permission shall be obtained from Central Ground Water Authority for drawing ground water.	:	There will be checking system on regular basis for the ground water quality. Permission will be taken from the authority as per requirement for withdrawal of water.

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xix.	A report on the energy conservation measures should be prepared incorporating details about building materials & technology. R & U Factors etc and submitted to the Ministry in three months time.	:	After operation starts in different units a report on the energy conservation measures will be prepared & submitted to the ministry in three months time.
xx.	The values of R & U for the building envelope should meet the requirements of the hot & humid climatic location. Details of the building envelope should be worked out and furnished in three months time.	:	During construction designing the values of R & U will be taken care of.
xxi.	Energy conservation measures like installation of CFLs/FLs for lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning. Used CFLs & FLs should be properly collected and disposed of/sent for recycling as per the prevailing rules/guidelines/standards issued by the regulatory authority to avoid Mercury contamination. Use of solar panels may be done to the extent possible.	:	Energy conservation measures will be taken care of by all the units in this cluster. Special drives to be adapted to used the energy efficient lamp/tubes. Use of solar panels will be taken care of.
xxii.	The buildings should have adequate distance between them to allow movement of fresh air and passage of light to the premises.	:	There will be enough space between buildings in the project site
xxiii.	Adequate measures should be taken to prevent odour problem from solid waste processing plant as also from STP/CETP.	:	Adequate measures will be taken to prevent odour problem where ever it will be needed.

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xxiv.	Sufficient provision will be made for parking of trucks for handling raw materials, finished products and waste materials. Details in this regard shall be submitted to MoEF within two months.	:	A separate area is kept where all the trucks to be parked before loading & unloading in each unit during operation.

B. GENERAL CONDITIONS

Sl.	COMPLIANCE CONDITIONS	:	COMPLIANCE STATUS
1.	The environmental safeguards contained in the documents should be implemented in letter and spirit.	:	All the environmental safeguards as per EC will be implemented.
2.	Provision should be made for the supply of kerosene or cooking gas and pressure cooker to the laborers during construction phase.	:	It is being provided during land filling & same will be done during construction of individual units.
3.	6 monthly monitoring reports should be submitted to the Ministry and its Regional Office	:	It is complied on regular basis for last few years.
4.	Officials from the Regional Office of MoEF, Bhubneshwar who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities and document/data by the project proponents during their inspection. A complete set of all the documents submitted to MoEF should be forwarded to the CCF, Regional office of MoEF, Bhubaneshwar.	:	For the last few years, the compliance reports are sent to the regional office of MoEF at Bhubaneshwar on regular basis

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5.	In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Ministry.	:	If any changes are required prior appraisal of MoEF will be done.
6.	The Ministry reserves the right to modify/add additional environmental safeguards subsequently, if found necessary. Environment Clearance granted will be revoked if it is found that false information has been given for approval of the project.	:	Nothing will be done beyond the conditions imposed by MoEF.
7.	Necessary permission shall be obtained from the State Fire Department for providing fire safety measures before allotment of premises. If any forest land is involved in the proposed site, clearance under the Forest Conservation Act, 1980 from the Competent Authority shall be taken.	:	All the units will implement the fire safety measures as per directive of the competent authority.
8.	These stipulations would be enforced among others under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 the Air (Prevention and control of Pollution) act 1981, the Environment (Protection) Act, 1986 and the Public Liability (Insurance) Act, 1991.	:	It is accepted & to be complied.
9.	The project proponent shall enter in to MOU with all buyers of the property to ensure operation and maintenance of the STP/CETP and other assets of the SEZ.	:	The MOU will be made between all the buyers of the plot in this cluster to ensure smooth operation & maintenance of the STP/CETP as applicable inside this cluster.

SI.	COMPLIANCE CONDITIONS	:	COMPLIANCE STATUS
10.	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 Environmental Appellate Act, 1997.	:	It will be complied by the respective stake holders.