



HALF YEARLY COMPLIANCE REPORT

October – 2014 to March – 2015

Environment clearance of 5.6 MTPA Integrated Steel Plant
Letter no.: 11011/829/2008-IA-II (I) dated 20.07.2012

SPECIFIC CONDITIONS:

Sl. No.	CONDITIONS	COMPLIANCE STATUS
i)	Compliance to all the specific and general conditions stipulated for the existing plant by the Central/State Government shall be ensured and regular reports submitted to the Ministry's Regional Office at Bhubaneswar/SPCB.	Compliance reports are being sent to MOEF&CC, CPCB and SPCB including monitoring data regularly. The last Half yearly compliance report was submitted vide letter no BSL/MoEF/BS-01/2014-04 dated 28.11.2014.
ii)	The target dates/schedule given for compliance to the conditions of environmental clearance for 3.1 MTPA Steel Plant to the State Pollution Control Board and to the Ministry shall be adhered to and reports regularly submitted to MoEF Regional Office at Bhubaneswar.	Compliance to target dates is communicated through six monthly compliance reports which are being sent to MOEF&CC, CPCB and SPCB including monitoring data. The last Half yearly compliance report was submitted vide letter no BSL/MoEF/BS-01/2014-04 dated 28.11.2014.
iii)	The 'Consent to Operate' shall be granted by SPCB only after satisfactory compliance of the conditions stipulated in the environmental clearance and Consent granted by the SPCB for the 3.1 MTPA Steel plant. A joint visit shall be conducted by MoEF Regional Office at Bhubaneswar and SPCB in this regard. Periodic review of the project regarding compliance to the conditions stipulated shall be undertaken based on the compliance report submitted by the proponent within four months. The compliance status shall be monitored by the Regional Office of the Ministry at Bhubaneswar.	Consent to Operate from SPCB has been obtained vide letter no 5226/IND-I-CON-5440 dtd 25.03.2015 and valid up to 31.03.2016.
iv)	Measures shall be undertaken to mitigate particulate matter levels in the ambient air and a time bound action	Following measures adopted to control particulate matter at source itself:



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	<p>plan shall be submitted. On-line ambient air quality monitoring and continuous stack monitoring facilities for all the stacks shall be provided and sufficient air pollution control devices viz. Electrostatic precipitator (ESP), gas cleaning plant, bag filters etc. shall be provided to keep the emission levels below by installing energy efficient technology.</p>	<p>28 no. of ESPs have been installed at various locations to control particular emission at source itself. 48 no. of bag filters have been installed at various locations to control particular emission at source itself. 03 no. of scrubbers have been installed at Blast Furnace I, II and BOF. 69 no. of gun sprinklers covering 6 yards and effective dry fog dust suppression system having 252 nos. of nozzles have been installed in 46 junction houses. Details are enclosed as annexure-I Due to these effective and efficient control measures, emission levels are being maintained well below the norm of 50 mg/Nm³ The details of ESPs, bag filters and scrubbers are enclosed as annexure-II</p> <p>Mechanized road sweepers have been deployed to clean all concrete roads, shop floors of individual units. Water tankers have been deployed for water sprinkling whenever it is required. Due to all these latest and efficient air pollution control measures, ambient air quality in the complex is as per the AAQ standard.</p> <p>23 numbers of online gas analyzers for gaseous parameters have been provided on stacks and 40 nos. of online dust monitors have also installed and commissioned at the stacks. Details of online gas analyzer, online dust meters with photograph is enclosed as annexure III.</p>
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		<p>To monitor the air quality, we have installed 7 numbers of Continuous Ambient Air Quality Monitoring Stations (CAAQMS) in entire BSL & BEL complex in consultation with SPCB, Odisha. Details of CAAQMS with photograph are enclosed as annexure IV.</p>
v)	<p>The bag filter shall be installed at the coal crusher and the screening area. Pneumatic dust handling system shall be provided at ESP hoppers in the sinter plant. The existing bag filters shall be upgraded. Fixed type water sprinklers shall be installed in the internal roads and at the material handling area to control the fugitive emission. Dry fog system shall be installed in the coal handling area. Dry sweeping (vacuum process) shall be carried out prior to water sprinkling on roads.</p>	<p>Two de-dusting systems have been provided in the coal circuit.</p> <ol style="list-style-type: none"> 1. Coal Screening Building 1 – 70,000 m³/hr 2. Coal Screening Building 2 – 93,400 m³/hr <p>Flow diagram is enclosed as annexure - V</p> <p>Five nos. of bag filters have also been provided in iron ore circuit of crushing and screening points at raw material handling area at the following locations:</p> <ol style="list-style-type: none"> I. Ore Primary Screening – 48,000 m³/hr II. Ore Secondary Crushing – 5,000 m³/hr III. Ore Tertiary Crushing – 7,500 m³/hr IV. Ore Secondary & Tertiary Screening – 40,000 m³/hr V. Ore Screening Building – 48,000 m³/hr <p>Pneumatic dust handling system has been provided at ESP hoppers in the Sinter Plant-1. Chain conveyor dust handling system has been provided at ESP hoppers of sinter plants-2 and 3.</p>

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		<p>252 Dry fog dust suppression system have been provided at 46 number of junction houses of raw material handling area. A detailed scheme is enclosed as annexure I.</p> <p>Further, 69 no. of rotary gun sprinklers have been installed throughout the raw material handling yard.</p> <p>Mechanized Road Sweepers have been deployed for dry sweeping on roads and shop floors.</p>
vi)	The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be followed.	<p>To monitor the air quality standards issued by MoEF during November 2009, seven online Continuous Ambient Air Quality Monitoring Stations (CAAQMS) in entire complex of BSL & BEL have been installed in consultation with SPCB, Odisha.</p> <p>All the parameters are well within the prescribed limits and details are enclosed as annexure-VI.</p>
vii)	Gaseous emission levels including 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>Gaseous emissions and secondary fugitive monitoring data is within the permissible limits.</p> <p>Monitoring report is attached as annexure VII</p>
viii)	Proper PPE shall be provided to all the workers including contract workers.	<p>Necessary PPEs such as safety helmet, safety shoes, gloves, goggles, ear plug and ear muff etc. are being provided to all the workers working in the shop floor.</p> <p>Photographs are attached as annexure - VIII</p>
ix)	The natural drain / nallah present on the northern side of the project site shall not be disturbed. The main gate of the plant beyond the Nallah shall be shifted and the area should be developed into garden for public use.	<p>The natural nallah present on the northern side has not been disturbed.</p> <p>A drop gate has been provided on the main road beyond nallah to control traffic.</p>

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<p>x)</p>	<p>Water requirement for expansion from River Brahmani shall not exceed 3,400m³/hr. All the effluent should be treated and used for ash handling, dust suppression and green belt development. No effluent shall be discharged and 'zero discharge' shall be adopted. Sanitary sewage should be treated in septic tank followed by soak pit for treatment of effluent run-off from the coal washery area, settling pond shall be de-silted regularly and additional settling tank shall be constructed.</p>	<p>Permission has been obtained for drawl of 9174.65 m3/hr of water from Department of water resources, Govt. of Odisha.</p> <p>All the effluents are being treated in settling tanks (17 nos.) & common ETPs (2 nos.) and treated water is used for dust suppression, ash handling, various process make up like Coal washery, DRI and cooling towers and green area irrigation.</p> <p>Besides the above facilities, various waste water treatment systems like BOD plant at Coke oven-1&2, ETP at CRM, Thickener at coal washery, Blast furnace-1&2, BOF, SMS and HSM have been provided recycle & reuse of treated waste water. Zero discharge status is maintained except during torrential rain in monsoon season.</p> <p>The sanitary sewage treated in 4 STPs is being used for green belt development. The surface run-off from the coal washery area is routed through three nos. of settling tanks and settling tanks are properly maintained.</p>
<p>xi)</p>	<p>Efforts shall be made to make use of rain water harvested. If needed, capacity of the reservoir should be enhanced to meet the maximum water requirement. Only balance water requirement shall be met from other sources.</p>	<p>To estimate the rain water harvesting potential of the plant areas, study has been completed. The findings of the study are being evaluated and same will be implemented in phase manner.</p>
<p>xii)</p>	<p>Regular monitoring of influent and effluent, surface, sub-surface and ground water (including chromite) should be ensured and treated waste water should meet the norms prescribed by the State Pollution Control Board or described under the Environment</p>	<p>Monitoring of influent, effluent, surface and ground water is being carried out on monthly basis and the monitoring results are submitted to SPCB/CPCB/MOEF&CC at regular intervals. Results are within the norms prescribed by SPCB. The monitoring</p>



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	<p>(Protection) Act whichever are more stringent. Leachate study for the effluent generated and analysis shall also be regularly carried out and report submitted to the Ministry's Regional Office at Bhubaneswar, SPCB and CPCB.</p>	<p>report is attached as annexure-IX. Leachate characteristics of Fly ash and bottom ash have been carried out at IMMT, Bhubaneswar and results of various trace metals are within the limits prescribed by US EPA. A copy of the report is enclosed as annexure-X.</p>
<p>xiii)</p>	<p>All the blast furnace (BF) slag shall be provided to the cement manufacturers. Scrap shall be used in steel melting shop (SMS) and SMS slag and kiln accretions shall be properly utilized. All the other solid waste including broken refractory mass shall be properly disposed off in environment-friendly manner. Fly ash shall be utilized for the cement manufacturing and filling of mined out area after carrying geo hydrological study to prevent ground water pollution.</p>	<p>The entire quantity of blast furnace slag is dispatched to cement manufacturers (M/s ACC & M/s OCL). Details of generation & utilization of Blast Furnace slag is given as annexure XI</p> <p>Scrap is being used in SMS. SMS slag is being used in sinter plant after processing in slag atomizing plant, and the balance is being used for soling of roads, railway ballast etc.</p> <p>Three number of fly ash brick manufacturing units are installed in the plant, for maximum utilization of fly ash.</p> <p>Fly ash bricks have been utilized in all construction work.</p> <p>Fly ash is being sent to two nearby fly ash manufacturing units for maximum utilization of ash.</p> <p>Advertisement issued in local news papers for providing fly ash to individuals, agencies and companies free of cost.</p> <p>Rest of the ash is being disposed at abandoned stone quarries at Karanda and Jagannath mine void of MCL.</p> <p>The disposing of fly ash has been started from 15.03.2014 in the abandoned quarry no 4, Jagannath Colliery of MCL. We have disposed 31309 Ton of fly ash into mine void during October 2014 to March 2015. A detail</p>

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		<p>report in this regard is enclosed as annexure - XII</p> <p>Consent to establish from SPCB, Odisha and other permissions from statutory bodies received for lying of HCSD to mine void. Work is in progress and will be completed in next 2 years.</p>
xiv)	<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 should be submitted to the Ministry's Regional Office at Bhubaneswar, SPCB and CPCB.</p>	<p>Details of solid waste generation, utilization and disposal are attached as annexure XIII.</p> <p>Report on metal composition in waste materials is enclosed as annexure XIV.</p>
xv)	<p>Vehicular pollution due to transportation of raw material and finished products shall be controlled. Proper arrangements shall also be made to control dust emissions during loading and unloading of the raw material and finished product.</p>	<p>Vehicles carrying raw materials and finished products are being covered with tarpaulin.</p> <p>Water sprinkling arrangement has been made by installation of 69 nos. of rotary gun sprinklers at raw material handling areas to control dust emissions during loading and unloading of the raw material at site. Additionally effective dry fog dust suppression system having 252 nos. of nozzles have been installed in entire coal circuit and also at the unloading points of raw material handling area.</p>
xvi)	<p>The raw materials should regularly (six monthly) be monitored for trace metals and management plan shall be submitted to SPCB and MOEF Regional Office at Bhubaneswar.</p>	<p>The analysis of trace metals is done by IMMT, Bhubaneswar. Copy of the same is enclosed as annexure – XV.</p>
xvii)	<p>All internal roads shall be black topped. The roads shall be regularly cleaned with mechanical sweepers. A 3-tier</p>	<p>Inside plant area instead of black topped we are making all concrete roads which are much superior to the</p>

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	avenue plantation using native species shall be developed along the roads.	black topped roads. All concrete roads are being cleaned regularly by using mechanical road sweepers. Avenue plantation using native species has been developed along the roads.
xviii)	An action plan for transfer from wet to dry quenching shall be submitted to the SPCB and MOEF Regional Office at Bhubaneswar within three months. The target date shall not be more than six years from the date of environmental clearance accorded for 3.1 MTPA Steel Plant i.e. 22.9.2008. Adequate space shall be provided for the retro fitting the dry coke quenching facility.	As per the minutes of 37 th reconstituted expert appraisal committee (Industry-1) of the Ministry of Environment, Forest and Climate Change held on 30 th April –1 st May 2015 recommended extension of time for commissioning of CDQs as given below: CDQ – 2 by May, 2017 and CDQ – 1 by August, 2017. Adequate space has been earmarked for dry coke quenching facility.
xix)	Risk and tragedy Management Plan along with the mitigation measures shall be prepared and a copy submitted to the Ministry's Regional Office at Bhubaneswar, SPCB and CPCB within three months of issue of environment clearance letter.	A copy of the report on onsite emergency management along with the mitigation measures has already submitted along with last half yearly report vide letter no. BSL/MoEF/BS-01/2014-04 dated 28.11.2014.
xx)	As proposed, green belt shall be developed in 33 % of plant area as per the CPCB guidelines in consultation with the DFO.	About 3 lakh saplings have been planted in and around steel plant complex covering about 20 % of the total land area. We plan to cover 33% plant area under green cover by 2018-19.
xxi)	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Plants should be implemented	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Plants have been implemented and the compliance

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		report submitted along with the last half yearly report vide letter no. BSL/MoEF/BS-01/2014-04 dated 28.11.2014.
xxii)	All the commitments made to the public during the Public Hearing I Public Consultation meeting held on 28th October, 2010 should be satisfactorily implemented and a separate budget for implementing the same should be allocated and information submitted to the Ministry's Regional Office at Bhubaneswar.	Various socio-economic development programs covering education, safe drinking water, sanitation, sports and health care etc. are undertaken in nearby villages as per the suggestions made in public hearing. Detailed compliance report is enclosed as annexure - XVI
xxiii)	At least 5 % of the total cost of the project should be earmarked towards the Enterprise Social Commitment (ESC) based on Public Hearing issues and item-wise details along with time bound action plan should be prepared and submitted to the Ministry's Regional Office at Bhubaneswar. Implementation of such program should be ensured accordingly in a time bound manner.	Various CSR activities have been undertaken since the inception of the Plant. Total Rs. 13.9 Crores have been spent towards the CSR activities.
xxiv)	The company shall provide housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, 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.	All necessary infrastructure and housing facilities were provided for workers during construction phase within the site. Same facilities are being continued during operational phase.
xxv)	The company shall set up State-of-the-Art-Environment Control/Monitoring and Research Lab with R& D facilities for waste utilization studies. The laboratory staff shall be provided with adequate training for use and maintenance of the equipments. An action plan in this regard shall be submitted to SPCB and MOEF Regional Office at Bhubaneswar within three months.	State-of-the-art environment laboratory is being set up. This laboratory will also cater to the waste characterization studies based on which the waste can be utilized in different units substituting the raw materials. A typical case study of utilization of FES dust is enclosed as annexure-XVII .



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		<p>Plastic waste generated in the plant are being sent for reprocessing at ACC, Bargarh,</p> <p>Solid wastes generated from township are being incinerated in incinerator having capacity 270 Kg/hr in an environment friendly manner.</p>
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GENERAL CONDITION:

Sl. No.	CONDITIONS	COMPLIANCE STATUS
i)	The project authorities must strictly adhere to the stipulations made by the Orissa State Pollution Control Board and the State Government.	We are strictly adhering to the stipulations made by SPCB and the State Government.
ii)	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	No expansion or modification shall be carried out without prior approval of Ministry of Environment, Forests and Climate Change.
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 State Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location	Results of the gaseous emission levels from various stacks confirm to the standards and details are enclosed as annexure- VII .
iv)	At least four ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of PM ₁₀ , SO ₂ and NO _x are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Bhubaneswar and the SPCB/CPCB once in six months.	Seven CAAQM stations have been fixed in the consultation with the SPCB in BSL and BEL integrated complex and half yearly report is being submitted to Regional Office, MoEF&CC, SPCB and CPCB at regular intervals. The last half yearly compliance report has been submitted on 28.11.2014. But data is available from four stations as three new stations are under

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		commissoning.
v)	Industrial waste water 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 waste water shall be utilized for plantation purpose.	<p>The industrial waste water as well as domestic waste water is being treated and utilized for various purposes like slag quenching, coke quenching, dust suppression and green belt development inside the plant premises.</p> <p>The monitoring reports of Industrial waste water are being submitted to SPCB/CPCB/MOEF&CC at regular intervals. The results are well within the standards.</p>
vi)	The overall noise levels in and around the plant area shall be kept well within the standards 85 dB(A) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dB (A) (daytime) and 70 dB (A) (nighttime).	<p>Work zone noise monitoring results are within the standards and reports are being submitted to SPCB/CPCB/MOEF&CC at regular interval. Latest report is enclosed as annexure -XVIII.</p> <p>The ambient noise levels recorded in the premises is enclosed as annexure- VI.</p>
vii)	Occupational health surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act. The workers including the contract workers shall be provided with proper personal protection equipments	<p>Occupational health surveillance of the workers is being periodically done.</p> <p>Necessary PPEs are provided to all the employees including the contract workers.</p>
viii)	The company shall develop surface water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	<p>The rain water harvesting scheme has been planned for the township area and the same will be implemented within the stipulated time frame. Whereas for the steel plant complex, rain water harvesting will be done based on the study being carried out. A copy of the final report regarding rain water harvesting potential in the plant area will be submitted.</p>

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ix)	<p>The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.</p>	<p>Compliance to all the environmental protection measures as recommended in EIA / EMP report is ensured. Various socio-economic development programs covering education, safe drinking water, sports and health care etc are undertaken in nearby villages.</p> <p>Rs. 13.9 crores has been spent on CSR activities till now.</p>
x)	<p>The requisite funds shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Bhubaneswar. The funds so provided shall not be diverted for any other purpose.</p>	<p>Adequate funds are earmarked towards pollution control measures as annual recurring cost. Total expenditure on pollution control measures is Rs. 57.8 crore during 2014-15. The funds earmarked for environment pollution controls are not be diverted.</p>
xi)	<p>A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban Local Body and the local NGO, If any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.</p>	<p>Clearance letter sent to all concerned and also uploaded on our web site.</p>
xii)	<p>The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF at Bhubaneswar. The respective Zonal</p>	<p>Compliance status is uploaded on the Company's web site. The compliance report including results of monitored data is periodically submitted to the Regional Office of MoEF&CC, CPCB & SPCB.</p> <p>The pollutant levels namely PM₁₀,</p>

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	Office of CPCB and the SPCB. The criteria pollutant levels namely; PM ₁₀ , SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	SO ₂ , NO _x (ambient levels as well as stack emissions) are monitored. The parameters from AAQ monitoring are displayed near the main gate of the company. Latest report is enclosed as annexure- VI & VII
xiii)	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by-mail) to the Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Bhubaneswar / CPCB / SPCB shall monitor the stipulated conditions	The half yearly report is being submitted to the Regional Office of the MoEF&CC, CPCB & SPCB. The last Half yearly compliance report was submitted on 28.11.2014.
xiv)	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Office of the MOEF at Bhubaneswar by-mail.	The Environmental Statement in Form-V is being submitted to SPCB/CPCB/MOEF&CC regularly. The latest Environmental Statement was submitted vide letter No: BSL/SPCB/BS-03/2014-39 dated 29.09.2014.
xv)	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 SPCB and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at	The Advertisement was published in Odia news paper "The Sambad" and English news paper "The New Indian Express" dt. 24.07.2012. The same has already been communicated to Regional office of MOEF&CC, Bhubaneswar vide our letter no. BSL/MoEF/BS-01/2012-08 dated 24.07.2012.



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	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 at Bhubaneswar.	
xvi)	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.	The date of financial closure is 09.03.2012.