

**STATUS OF IMPLEMENTATION OF CONDITIONS STIPULATED IN ENVIRONMENTAL CLEARANCE FOR 5X130 MW CAPTIVE POWER PLANT FOR ADITYA ALUMINIUM PROJECT BY M/S HINDALCO INDUSTRIES AT LAPANGA, SAMBALPUR ORISSA.**

**REF: ENVIRONMENTAL CLEARANCE LETTER NO: J-13011/7/2005-IA.II(T) DATED 22<sup>ND</sup> NOVEMBER, 2005 FROM MINISTRY OF ENVIRONMENT & FORESTS, GOVERNMENT OF INDIA.**

**COMPLIANCE REPORT**

<b>S.No.</b>	<b>Condition</b>	<b>Compliance</b>
<b>i</b>	The conditions stipulated by Orissa Pollution Control Board vide their letter no.16472 dated 08.12.1998 and revalidated consent no. 17817 dated 27.05.2004 shall be strictly implemented.	We have noted all the stipulations and have accepted the same.
<b>ii</b>	Necessary prior clearance under the Forest (Conservation) Act, 1980 for diversion of forest land for this project shall be obtained.	The proposal for diversion of forest lands in the CPP area and the diversion of forest lands in Smelter area have been combined as one proposal as both the Units are adjacent & contiguous. The proposal for diversion of 119.264 hectares of forest land for establishment of Aluminium Smelter & Captive Power Plant at Lapanga, Sambalpur District has been granted Stage-II clearance by the Ministry of Environment & Forests, Govt. of India. The Divisional Forest Officer, Sambalpur South Division has requested the Tehsildar, Rengali to hand over possession of forest lands to Aditya Aluminium. The process of alienation of revenue forest lands by the Tehsildar is under progress. The felling of trees in non-forest lands is in progress.
<b>iii</b>	Coal to be used as fuel will have sulphur content not exceeding 0.4% and ash content not exceeding 42%	Coal will be sourced from the Talabira-II & III block. The Sulphur and Ash content will be limited to 0.4% and 42% respectively.
<b>iv</b>	Two multi flue stacks of 275 m height each shall be provided with continuous online monitoring system. Exit velocity of 25.3 m/sec shall be maintained.	Tri-flue stacks of 275-m height are being installed at site.
<b>v</b>	Electrostatic Precipitator (ESPs) having high efficiency of not less than 99.9% shall be installed to limit emission of particulate matter within 100mg/Nm <sup>3</sup> . Bag filters shall be installed in the coal handling area.	High efficiency ESPs are being installed by BHEL India. Bag filters will be installed in the coal handling area.

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vi	Fly ash shall be utilized in a phased manner as per provisions of the notification on fly ash utilization issued by the Ministry of Environment & Forests in September, 1999 and its amendment. By the end of 9 <sup>th</sup> year fully fly ash utilization should be ensured. Borough earth should not be taken from ash pond area for construction of ash dyke etc.	Fly-ash utilisation is being judiciously worked out and will adhere to the Notifications of MoE&F.
vii	Closed circuit cooling with induced draft cooling towers should be provided. COC of minimum of 4 shall be maintained.	Cooling towers will be provided as mentioned and CoC of 4 will be maintained.
viii	It shall be ensured that the power plant and its associated facilities will be at least 500 m away from the railway line.	We have noted & Accepted, The Captive Power Plant is planned at a distance more than 500 m from the Railway Line.
ix	The ash pond area will be provided with impervious clay lining to avoid leaching of heavy metals into ground water. Regular monitoring of ground water quality including heavy metals shall in carried out around the ash pond area and records maintained.	The ash pond area is being designed as per the Standards prescribed by the Ministry in the clearance order and due monitoring will be carried out from time to time.
x	The water for the plant shall be drawn from Hirakud Reservoir. No bund will be constructed within the Hirakud Reservoir for the purpose of storing water for meeting the lean season requirement of the power plant. Copy of the confirmed water allocation may be submitted within the three months of this clearance.	We have noted and Accepted, The Water allocation letter by the Department of Water Resources, Govt. of Orissa vide letter No. 32492, dated 01.10.2008 has been submitted to the Regional Office of the Ministry at Bhubaneswar.
xi	The proponent shall work out the details regarding re-use of treated effluents indicating the quantity of effluents to be reused and to be discharged.	We will not discharge any hazardous effluent and are working out the use of treated effluents.
xii	Rain water harvesting should be adopted. Central Ground Water Authority/Board shall be consulted for finalization of appropriate rain harvesting structures within in a period of three months from the date of clearance.	The Directorate of Ground Water Survey and Investigation (GWS & I), Govt. of Orissa has submitted the report on Rain water harvesting in both the Smelter & CPP areas. The report has been submitted to the Regional Office, MoEF, Bhubaneswar vide letter No. IR/AAP/Proj/7159, dated 06.08.2009.
xiii	Intercepting drains in plant area for collecting storm water shall be constructed and waste water shall be discharged through pipe line into the nala joining Bedhan river.	We have noted and the drainage is being designed accordingly.

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<b>xiv</b>	Leq of Noise level should be limited to 75 dBA. People working in the high noise area should be provided with personal protection equipments like earplugs etc.	We will implement all methodology to control noise and limit within the standard.
<b>xv</b>	A green belt of 100 m width along the plant boundary, 10 m width along the road side and 50 m around the ash dyke should be developed covering a total land area of 87 ha.	The scheme for development of Greenbelt in the Smelter & CPP area at Lapanga has been recommended by the DFO, Sambalpur south Division and approved by the PCCF, Odisha. The scheme is being implemented in consultation with the DFO, Sambalpur South; 33,000 saplings have already been planted. A Nursery is being established at the site.
<b>xvi</b>	For controlling fugitive dust, regular sprinkling of water in vulnerable.	We will do regular water sprinkling.
<b>xvii</b>	Regular monitoring of the air quality should be carried out in and around the power plant and records be maintained. Six monthly reports shall be submitted to this Ministry and its Regional Office located at Bhubaneswar.	We will carry-out regular Air-quality monitoring and reports will be submitted as soon as the Power Plant comes into operation.
<b>xviii</b>	The project proponent should advertise in at least two local news papers widely circulated in the region around the project, one of which should be in the vernacular language of the locality concerned, informing that the project has been accorded environmental clearances and copies of clearance letters are available with the State pollution Control Board/Committee 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>	The advertisement regarding grant of Environmental Clearance for 5x130 MW Captive Power Plant has been published in two leading Newspapers and copies of the above advertisements have already been submitted to the Regional office of the Ministry at Bhubaneswar.
<b>xix</b>	A separate environmental monitoring cell with qualified staff should be set up for implementation of the stipulated environmental safeguards.	A separate environmental monitoring cell will be established.
<b>xx</b>	The project affected people should be rehabilitated as per the National Policy on Resettlement and Rehabilitation of project affected families (NPRR, 2003). A copy of the approved Rehabilitation & Resettlement plan should be submitted to the ministry within three months of the issue of this	Rehabilitation and Resettlement Plan for both Smelter & CPP at Lapanga has been prepared in line with R & R Policy, 2006 of Govt. of Orissa and has been submitted to the Revenue Divisional Commissioner for approval by the State Govt. The Rehabilitation and Peripheral Development Advisory Committee (RPDAC)

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	clearance letter. The funds earmarked for the R&R Plan should not be diverted for any other purpose.	meetings are conducted periodically in the District to address the issues related to R & R. The Construction of R & R colony is in progress in village Ludhapali where 175 houses have been completed out of 183 and in village Panduloi 76 houses have been completed out of 172.
XXi	Year-wise funds should be allocated for implementation of environmental protection measures. These costs should be included as part of the project cost. The funds earmarked for the environment protection measures should not be diverted for any other purpose and year-wise expenditure should be reported to the Ministry.	Noted. The said guideline will be followed. However, the scheme of Greenbelt development is being implemented in the Township and Core plant areas. We have already plated 33,000 saplings. A Nursery is being established within the Plant site.
XXii	Half yearly report on the status of the implementation of the stipulated conditions and environmental safe-guards should be submitted to this Ministry and its regional office at Bhubaneswar.	Noted and as instructed, the status on the implementation of the stipulated conditions will be submitted Half yearly to the Ministry and its regional office at Bhubaneswar.
XXiii	Regional office of the Ministry of environment & Forest located at Bhubaneswar will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental Impact Assessment report and Management plan etc. should be forwarded to the regional Office.	The Environmental Impact Assessment report and Management Plan have been submitted to the Regional Office of the Ministry at Bhubaneswar for monitoring the implementation of the stipulated conditions.
XXiv	Full cooperation should be extended to the Scientists/Officers from the Ministry/ Regional office of the Ministry at Bhubaneswar /the CPCB/The SPCB who would be monitoring the compliance of environmental status.	Full cooperation will be extended to the Scientists/Officers from the Ministry/ Regional office of the Ministry at Bhubaneswar /the CPCB/The SPCB who would be monitoring the compliance of environmental status.