


EC Conditions Six Monthly Compliance Report

(by Project Proponent)



Proposal No : J-11011/144/2006-IA-II (I)

1. Name of the Entity / Corporate Office :

File No. :	J-11011/144/2006-IA-II (I)	Proposal Name :	Alumina Smelter Plant (2,50,000 TPA) at Village Bhurkamunda/Brundamal, District Jharsuguda, Orissa by M/s Vedanta Ltd.
Date Of EC. :	07 Mar 2007	EC Letter :	
Name of the Entity / Corporate Office :	VEDANTA LIMITED	Email Address :	meghna.ghosh@vedanta.co.in
Address :	Meghalahalli office Complex, Bheemasamudra post, Chitradurga	Mobile No :	9303134310

2. Proponent Details :

Proponent Name :	Sunil	Designation :	CEO
Telephone No :	6645-666634	Mobile No :	+91 9937535890
Fax No :	6645-6645666427	Email Address :	envvljsgsc@vedanta.co.in
Website :		Pin Code :	768202
State :	Orissa	District :	Jharsuguda
Village/Town :			

3. Compliance Letter/Report (Proponent):

Compliance Period :	2022 / 01 Dec (01 April - 30 Sep)	Compliance Submission Date :	19 Nov 2022 15:25:17:490
Remarks :			
Site Visit Report :	N/A	Site Visit Date :	N/A
ATR Report :	N/A	ATR Date :	N/A
Additional Attachment (If Any) :	N/A	Additional Remarks (If Any) :	

4. Summary Status of Compliance :


Total Condition :	30		
Complied :	27	Being Complied :	1
Not Complied :	0	Partially Complied :	2
Agreed to Comply :	0		

5. Details of Production and Project Area :


Date of Commencement of Project/Activity :		21 Aug 2008	Project Area as Per EC Granted (In Case of Mine Lease):		0
Actual Project Area(In Case of Mine Lease):		0			
PRODUCTION CAPACITY :					
S.No	Name of the Product	Units		As per EC granted	Production during last financial year
1	Aluminium Metal	Tons per Annum (TPA)		1800000	1686697 T

6. Specific Conditions (Proponent) :

S.No	Condition	Self Declaration	Remarks / Reason	Supporting Documents	Observation of IRO
1	Bauxite ore shall be obtained only from those mines, which have been accorded environmental clearance by the Ministry of Environment and Forests.	Complied	We are not procuring any bauxite ore as alumina is the main raw material for aluminum smelting. Alumina sourced within India is from refineries that have been granted Environment Clearance by MoEF&CC.	N/A	
2	The poly-aromatic hydrocarbons (PAH) from the carbon plant (anode bake oven) shall not exceed 2 mg/Nm ³ . The data on PAH shall be monitored quarterly and report submitted regularly to the Ministry, it's Regional Office at Bhubaneswar and OSPCB.	Complied	PAH is being monitored in the stack of Bake Oven and is found in the range of 0.13 to 0.22 mg/Nm ³ . The same is monitored regularly and the report is submitted to the Regional office of the Ministry.	N/A	
3	In-plant, control measures for checking fugitive emissions from spillage /raw materials handling shall be provided. Fugitive fluoride emissions from the pot room and in the forage around the smelter complex shall be monitored and data submitted regularly to the Ministry's Regional Office at Bhubaneswar and OSPCB. Further dry scrubbing system to control the emissions from the pot lines shall be provided. Total fluoride emissions shall not exceed 0.8 kg/ton of Aluminium produced. Further, the pot	Complied	Fume treatment plants with dry scrubbing have been provided in the pot room and bake oven to control the fluoride emissions below 0.8 Kg/T of Al. Pot emissions through FTP is within 0.30 Kg/T of Al.	N/A	
4	The environmental clearance for the 675 MW captive power plant (5 X 135) from the Ministry shall be obtained	Complied	We have received the Environmental Clearance for the	N/A	

	before initiating construction work and operation of the proposed smelter plant.		675 MW CPP vide letter no J-13011/10/2006-IA.II (T) dated 14th March, 2007.		
5	Green belt of adequate width and density around the project site shall be developed in 117.5 ha (33%) out of total 355.47 ha. in consultation with the DFO as per the CPCB guidelines having density of 2000 trees/ha.	Complied	Green belt/cover has been developed in 33% of the area (275 Ha) and density has been increased to 2500 trees/ha by doing gap filling.	N/A	
6	Regular groundwater monitoring shall be carried out by installing Piezometers all around the secured land fill site in consultation with the OSPCB / SGWB /CGWB and data submitted to the Ministry's Regional Office and OSPCB.	Complied	Piezometers have been installed and the ground water monitoring around the SLF area is being done as per the CPCB guidelines and the same is being reported to SPCB and Regional Office of the Ministry.		
7	Occupational Health Surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.	Complied	The periodic health check-up of the workers is being undertaken regularly. The same is also undertaken as a part of pre-employment medical examination and records being maintained as per Factories Act	N/A	
8	Particulate fluoride emissions shall not be more than 0.65 mg/ NM3 and fugitive particulate fluoride emissions from pot room shall not be more than 1.85 mg/ NM3.	Complied	The particulate fluoride emission and fugitive particulate fluoride emission monitored were within 0.65 mg/ NM3 and 1.85 mg/NM3 respectively.	N/A	
9	Seven reserve forests are located around the project site. While transporting bauxite ore from captive /indigenous /import sources, prior permission from the State Forest Department shall be obtained due to likely impact of transport of ore to the smelter site on the reserve forests and wildlife.	Complied	This plant is not using bauxite ore. Alumina is being transported through existing rail and road networks through wagons and bulkers (which are closed containers).	N/A	
10	In case the Govt. of Orissa comes up with the proposed elephant reserve, the same may be informed to the Ministry for imposing additional safeguards, if any.	Complied	In case of any upcoming/proposed elephant reserve by Govt. of Odisha, the same will be intimated to the Ministry.	N/A	

11	Recommendations regarding mitigative measures suggested by the State Forest Department and Chief Wildlife Warden, Govt. of Orissa shall be strictly followed.	Complied	The recommended mitigative measures as per the approved site-specific Wildlife conservation plan vide letter no. 4488/7WL-FD & WLC-32/2021 dated 30th April 2021 is under implementation.	N/A	
12	The company shall develop rainwater structures to harvest the runoff water for recharge of groundwater in consultation with the Central Ground Water Authority /Board.	Complied	Four no.s of Roof Top rain water harvesting systems have been installed in Smelter and CPP to harvest around 6876 m3 rain water and reuse back in our plant.	N/A	
13	The total water requirement from Hirakud Reservoir shall not exceed 6,240m3/day as per the permission accorded by the State Govt. Reverse Osmosis plant shall be installed to treat effluent from cooling tower blow down and recycle to raw water reservoir for further utilization for fire protection, dust suppression, gardening etc. ETP and RO permeate will be recycled back. The rejects from the RO plant shall be disposed off in the HDPE lined secured landfill (SLF) within smelter premises. Domestic	Complied	Water drawal from Hirakud reservoir is within 6240 m3/day. However, during monsoon period, treated effluent post meeting the standards prescribed by OSPCB/CPCB is being discharged in case of exigency.	N/A	
14	Rehabilitation and Resettlement Plan prepared and submitted to the state Govt. shall be implemented as per the R & R Policy of the State Government. All the recommendations mentioned in the R & R Plan shall be strictly followed including suitable employment and other facilities to all the oustees.	Complied	The R & R package as finalized by RPDAC based on Govt. R & R policy 2006 is being implemented fully under the supervision of District Administration.	N/A	
15	The forest and Environment Department, Govt. of Odisha shall undertake the carrying capacity of the region at the expense of the Project Proponents by associating the Wildlife Institute of India, Dehradun having regard to all relevant aspects including the impact of existing plants on elephants and their movement.	Complied	A study has been carried out by IISc on establishing Eleplant corridor in Jharsuguda Sambalpur region of Odisha and no such establishment of corridor has been envisaged in Jharsuguda.	N/A	
16	The company shall install bag-filters, dry scrubbing system, dust suppression system to control the emissions from all melting and casting units. The emissions shall conform to the	Complied	The furnaces in the melting and casting unit are electrically operated and no fuel burning	N/A	

	standards prescribed by the ministry /CPCB /SPCB whichever is more stringent.		takes place. Provision of bag filters, dry scrubbing systems , dust suppression has not been done		
17	The spent pot lining generated from the smelter shall be properly treated by setting up of spent pot lining treatment plant to remove fluoride and cyanide and disposal off in secured landfill. The location and design of the landfill site shall be approved by the OSPCB as per Hazardous Wastes (Management and Handling) Rules, 2003. Leachate collection facilities shall be provided to the secured landfill facility (SLF). The dross shall be recycled in the cast house. Fly ash and bottom ash shall be	Partially Complied	SPL (Carbon) portion is being sent to authorized re-processors for detoxification and further utilization in steel and other industries. Dross is being disposed to authorized reprocessors.	N/A	
18	The gaseous emissions from various process units shall confirm to the standards prescribed by the concerned authorities from time to time. The OSPCB may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location. At no time the emissions level shall go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measu	Complied	The gaseous emissions from various process units are confirming to the prescribed standards. The particulate matter emission from Bake Oven ranges between 3.7 to 5.7 mg/Nm3.	N/A	
19	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Aluminium sector shall be strictly implemented.	Partially Complied	All recommendations as per CREP for Aluminium sector are being implemented (Annexure-A).		
20	Fluoride consumption shall be less than 10 kg/ton of Aluminium produced as specified in the CREP guidelines.	Being Complied	Efforts like FTP revamping , low soda alumina procurement etc are being taken to reduce Fluoride consumption. Till Sep'22 we have achieved fluoride consumption of 10.54 kg/T of AL.	N/A	

7. General Conditions (Proponent):

S.No	Condition	Self Declaration	Remarks / Reason	Supporting Documents	Observation of IRO
1	The Project Authorities should inform the Regional Office as	Complied	Plant is in operation.	N/A	

	well as 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.				
2	The Regional office of this Ministry at Bhubaneswar / Central Pollution Control Board /OSPCB will monitor the stipulated conditions. A six-monthly compliance report and the monitored data along with statistical interpretation should be submitted to them regularly.	Complied	A six-monthly compliance report on the EC conditions along with the environment monitoring report is being periodically submitted to the Ministry Regional Office, CPCB and SPCB.	N/A	
3	Industrial wastewater should 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 should be recycled in the plant as well as utilization for plantation purposes.	Complied	The wastewater generated from the plant is collected and treated in the effluent treatment plant to conform to the prescribed standards. The treated water is being recycled and reused in the plant.	N/A	
4	No expansion or modification in the plant should be carried out without prior approval of the Ministry of Environment and Forests.	Complied	No expansion or modernization will be undertaken without prior approval of the Ministry.	N/A	
5	The Project Proponent should inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with State pollution Control Board/ Committee and may also be seen at Website of the Ministry of Environment and Forests at http://enfor.nic.in . This should be advertised within seven days from the date of issue of the clearance letter at least in two local newspapers that are widely circulated in the region of which one shall b	Complied	The grant of EC has been published in two widely circulated local newspaper in English and Odia language within 7 days of issue of this letter. The same was made available in the website of MoEF&CC.	N/A	
6	The project authorities must strictly adhere to the stipulations made by the Orissa State Pollution Control Board and the State Government.	Complied	We are strictly adhering to the stipulations made by OSPCB.	N/A	
7	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA / EMP / risk analysis and DMP report.	Complied	All environmental protection measures and safeguards as recommended in the EIA/EMP/risk analysis and DMP	N/A	

			are being implemented.		
8	The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Wastes (Management and Handling) Rules, 2003. Authorization from OSPCB must be obtained for collection, storage, treatment and disposal of hazardous wastes.	Complied	We are strictly complying with the rules and regulations with regard to handling, collection, transport, treatment, storage and disposal of Hazardous waste in accordance with the HOWM, Rules 2016.	N/A	
9	Adequate number of ambient air quality monitoring stations should 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 OSPCB. Data on ambient air quality and stack emission should be regularly submitted to this Ministry including its Regional office at Bhubaneswar and Orissa State Pollution Control Board once in six months.	Complied	Adequate no of AAQ monitoring stations have been established around the Smelter and CPP complex in consultation with OSPCB in line with the CPCB guidelines. Monitoring data is being submitted timely.	N/A	
10	Rs. 193.46 Crores and Rs. 2.60 Crores have been earmarked toward the capital cost and Rs. 1.20 Crores towards the recurring the expenditure / annum for environmental protection measures. The fund so provided shall be used judiciously to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purposes.	Complied	The earmarked budget has been spent towards environmental protection measures and has not been diverted for any other purposes.	N/A	
<input checked="" type="checkbox"/> I ' VEDANTA LIMITED ' hereby give undertaking that the specific / general condition is entered by me is correct.					

E-Sign**VEDANTA LIMITED****Date : 19 Nov 2022 15:25:17:490******Note : N/A - Not Available****PRINT**