



सत्यमेव जयते

File No.: J-11011/136/2009-IA-I(I)
Government of India
Ministry of Environment, Forest and Climate Change
IA Division



Dated 14/08/2025



To,

M/s. Aditya Aluminium (A Unit of Hindalco Industries Limited)
 At/Po- Lapanga, Tehsil- Rengali,
 Dist- SAMBALPUR, ODISHA
 Email: lalit.charan@adityabirla.com

Subject: EC for Aluminium Smelter from 3.8LTPA to 6.8LTPA [by addition of 1LTPA (Recycled metal) & installation of 2LTPA (Renewable Energy Based 180Pots)] and CPP from 900MW to 1230MW [by addition of 180MW Combine Cycle Power Plant (Gas/Oil fired) & 150MW CPP (Coal fired) for Emergency Backup] within the existing plant premises by M/s. Aditya Aluminium (A Unit of M/s. Hindalco Industries Ltd.), located at Villages: Lapanga, Bomaloi, Derba, Khadiapali, Tileimal and Dharopani Tehsil: Rengali District: Sambalpur ,Odisha- Grant of EC Amendment-Reg.

Sir/Madam,

This refers to your proposal IA/OR/IND1/543225/2025 dated 10.07.2025 along with the application in prescribed format - Form 4 (CAF, Form – I Part A, B and C) and Addendum EIA report seeking amendment in EC obtained from MoEF&CC vide File no. IA-J-11011/136/2009-IA-I(I) dated 07.06.2025 w.r.t. amendment in the general/standard conditions stipulated in the EC.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC25A1005OR5615203A
(ii) File No.	J-11011/136/2009-IA-I(I)
(iii) Clearance Type	Amendment in EC
(iv) Category	A
(v) Schedule No./ Project Activity	3(a) Metallurgical Industries (ferrous and non ferrous)
(vi) Sector	Industrial Projects - 1
(vii) Name of Project	EC for Aluminium Smelter from 3.8LTPA to 6.8LTPA [by addition of 1LTPA (Recycled metal) & installation of 2LTPA (Renewable Energy Based 180Pots)] and CPP from 900MW to 1230MW [by addition of 180MW Combine Cycle Power Plant (Gas/Oil fired) & 150MW CPP (Coal fired) for Emergency Backup] within the existing plant

premises at Villages: Lapanga, Bomaloi, Derba, Khadiapali, Tileimal and Dharopani Tehsil: Rengali District: Sambalpur (Odisha) by Aditya Aluminium (A Unit of M/s. Hindalco Industries Ltd.)

(viii) Location of Project (District, State)	SAMBALPUR, ODISHA
(ix) Issuing Authority	MoEF&CC
(x) EC Date	04/08/2025
(xi) Applicability of General Conditions	NO
(xii) Status of implementation of the project	

3. The proposal was considered during 8th EAC (Industry-1) Meeting held on 23rd -24th July, 2025, wherein after detailed deliberations, the committee recommended the proposal under the provisions of EIA Notification, 2006. The minutes of the meeting and all the project documents are available on PARIVESH portal which can be accessed at <https://parivesh.nic.in>.

Details submitted by Project proponent

4. Environmental Clearance was granted by MoEF&CC vide letter No. IA-J-11011/136/2009-IA-I(I) dated 07.06.2025 to Aditya Aluminium (A Unit of M/s. Hindalco Industries Ltd.) for for setting up Aluminium Smelter 6.8 LTPA (Existing: 3.8 LTPA, 1 LTPA (Recycled metal) & Proposed installation of 2 LTPA (RE Power Based 180 Pots), Captive Power Plant [Existing 900 MW (6x150 MW) & Installation of 180 MW Gas/Oil fired Turbine-based Combine Cycle Power Plant & 150 MW (1 x 150 MW) Coal based Thermal Power Plant for Emergency Backup within the existing plant premises located at Villages: Lapanga, Bomaloi, Derba, Khadiapali, Tileimal and Dharopani Tehsil: Rengali District: Sambalpur ,Odisha.

5. The instant proposal is for amendment in EC obtained from MoEF&CC vide File no. IA-J-11011/136/2009-IA-I(I) dated 07.06.2025 w.r.t. amendment in the general/standard conditions stipulated in the EC

6. **Justification for amendment in EC:** The proposed amendments to the standard EC conditions are sought to ensure that the stipulations align with the actual configuration and technological features of the aluminium smelter, captive power plant, and allied facilities under the project. Several standard conditions currently refer to equipment or processes (such as quenching towers, heat treatment furnaces, incinerators, and calciners) that are not part of the aluminium smelting process. Therefore, removal or revision of these conditions is essential to avoid regulatory misalignment and to ensure practical compliance. Additionally, in the case of the condenser system, the use of water-cooled condensers (WCC) is being proposed over air-cooled condensers (ACC) based on a detailed technical feasibility analysis due to space constraints, operational efficiency, and power reliability critical for smelter operations. The proposed WCC design maintains Zero Liquid Discharge (ZLD) and meets specific water consumption norms, thereby ensuring environmental safeguards are upheld without compromising system performance.

7. The EAC, in its 8th EAC (Industry-1) Meeting – 23rd -24th July, 2025, inter-alia, deliberated the following:

i. Environmental Clearance was granted by MoEF&CC vide letter No. IA-J-11011/136/2009-IA-I(I) dated 07.06.2025 to Aditya Aluminium (A Unit of M/s. Hindalco Industries Ltd.) for for setting up Aluminium Smelter 6.8 LTPA (Existing: 3.8 LTPA, 1 LTPA (Recycled metal) & Proposed installation of 2 LTPA (RE Power Based 180 Pots), Captive Power Plant [Existing 900 MW (6x150 MW) & Installation of 180 MW Gas/Oil fired Turbine-based Combine Cycle Power Plant & 150 MW (1 x 150 MW) Coal based Thermal Power Plant for Emergency Backup within the existing plant premises located at Villages: Lapanga, Bomaloi, Derba, Khadiapali, Tileimal and Dharopani Tehsil: Rengali District: Sambalpur ,Odisha.

ii. The instant proposal is for amendment in EC obtained from MoEF&CC vide File no. IA-J-11011/136/2009-IA-I(I) dated 07.06.2025 w.r.t. amendment in the general/standard conditions stipulated in the EC as detailed in relevant para above.

iii. The PP submitted that the proposed amendments to the standard EC conditions are sought to ensure that the stipulations align with the actual configuration and technological features of the aluminium smelter, captive power plant, and allied facilities under the project. Several standard conditions currently refer to equipment or processes (such as quenching towers, heat treatment furnaces, incinerators, and calciners) that are not part of the aluminium smelting process. Therefore, removal or revision of these conditions is essential to avoid regulatory misalignment and to ensure practical compliance. Additionally, in the case of the condenser system, the use of water-cooled condensers (WCC) is being proposed over air-cooled condensers (ACC) based on a detailed technical feasibility analysis due to space constraints, operational efficiency, and power reliability critical for smelter operations. The proposed WCC design maintains Zero Liquid Discharge (ZLD) and meets specific water consumption norms, thereby ensuring environmental safeguards are upheld without compromising system performance.

iv. The EAC deliberated on the amendments sought by the Project Proponent to certain standard conditions of the Environmental Clearance and found the justifications to be technically valid and aligned with the actual configuration of the aluminium smelter and associated captive power plant. Further, the Committee examined the detailed feasibility report and technical rationale for the proposed use of water-cooled condensers (WCC) in place of air-cooled condensers (ACC), including considerations of layout constraints, operational efficiency, power reliability, and environmental compliance (ZLD). In view of the above, the Committee agreed to the amendments as proposed by the Project Proponent.

v. Upon deliberation, the EAC recommended the amendments as below:

S. No.	Reference in EC dated 07.06.2025	Existing Conditions	Proposed Modification
1.	Standard EC Condition no. 2.4	Sampling facility at process stacks and at quenching towers shall be provided as per CPCB guidelines for manual monitoring of emissions.	Sampling facility at process stacks shall be provided as per CPCB guidelines for manual monitoring of emissions.
2.	Standard EC Condition no. 2.9	The project proponent shall provide primary and secondary fume extraction system at all heat treatment furnaces.	The project proponent shall provide primary and secondary fume extraction system, as may be applicable for aluminium smelting operations
3.	Standard EC Condition no. 2.11	Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.	Design the ventilation system for adequate air changes as per prevailing norms, wherever required.
4.	Standard EC Condition no. 3.3	Adopt dry scrubbing combined with incineration in order to control emissions of tar and volatile organic compounds (VOCs). The waste heat shall be recovered from the flue gases of incinerator.	The emissions of Tar and VOCs shall be controlled by utilising dry scrubbing, as may be applicable for aluminium smelting operations.
5.	Standard EC Condition no. 3.5	Recycle alumina dust collected in ESPs installed in calciner.	Recycle alumina dust collected in Gas Cleaning Centre.
6.	Standard EC Condition no. 4.9	Air Cooled Condensers shall be used in the Captive Power Plant	Air or Water Cooled Condensers may be used in the Captive Power Plant.

vi. The EAC deliberated on the written submission of the project proponent and found it satisfactory.

Recommendations of the Committee:

8. After deliberations, the Committee recommended for amendment in Environment Clearance File no. IA-J-11011/136/2009-IA-I-(I) dated 07.06.2025 w.r.t. amendment in the general/standard conditions stipulated in the EC as detailed in relevant para above. The other terms and conditions of the EC letter dated 07.06.2025 shall remain the same.

9. The MoEF&CC has examined the proposal in accordance with the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and after accepting the recommendations of the Expert Appraisal Committee (Industry-1 Sector) hereby decided to grant amendment in Environment Clearance no. . IA-J-11011/136/2009-IA-I(I) dated 07.06.2025 w.r.t. amendment in the general/standard conditions stipulated in the EC as detailed in relevant para above. The other terms and conditions of the EC letter dated 07.06.2025 shall remain the same.

10. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.

11. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.

12. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

13. This issues with approval of the competent authority.

(Dinesh Runiwal)
Scientist 'F'/Director
Tel: 011-20819346
Email-d.runiwal@gov.in

Copy To

1. The Principal Secretary, Department of Forest and Environment, Government of Odisha, Bhubaneswar, Odisha
2. Director General of Forest, Ministry of Environment, Forest and Climate Change, New Delhi
3. Principal Chief Conservator of Forests & HoFF, Aranya Bhawan, Chandrasekharapur, Bhubaneswar - 751 023, Odisha
4. The Regional Officer, Ministry of Environment, Forest and Climate Change, Integrated Regional Office, A/3, Chandrasekharapur, Bhubaneswar – 751023 Odisha
5. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi – 32
6. The Member Secretary, Central Ground Water Authority, Jamnagar House, 18/11, Man Singh Road Area, New Delhi, Delhi 110001
7. The Member Secretary, Odisha State Pollution Control Board, Paribesh Bhawan, A/118, Nilakantha Nagar, Unit - VIII, Bhubaneswar -12 Odisha.
8. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi.
9. District Collector, Sambalpur, Odisha.
10. Guard File/Monitoring File/ Parivesh Portal /Record File.

Annexure 1

Specific EC Conditions for (Thermal Power Plants)

1. Specific

S. No	EC Conditions
1.1	-

Additional EC Conditions

NA

