



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



Date **10/10/2026**



To,

M/s. Aditya Aluminium (A Unit of M/s. Hindalco Industries Limited)
Hindalco Industries Limited Mumbai, Senapati Bapat Marg, Prabhadevi,
MUMBAI, MAHARASHTRA, Senapati Bapat Marg, Prabhadevi, 400013
Email: vijaykant.dubey@adityabirla.com

Subject: Grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 -regarding.

Sir/Madam,

This is in reference to your application submitted to Ministry vide proposal number IA/OR/IND1/580750/2026 dated 25/06/2026 for grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 and as amended thereof.

2. The particulars of the proposal are as below :

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|---|--|
| (i) EC Identification No. | EC26A1005OR5368976N |
| (ii) File No. | J-11011/136/2009-IA-I(I) |
| (iii) Clearance Type | Expansion EC |
| (iv) Category | A |
| (v) Project/Activity Included Schedule No. | 3(a) Metallurgical Industries (ferrous and non ferrous),1(d) Thermal Power Plants,8(b) Townships/ Area Development Projects / Rehabilitation Centres,1(d) Thermal Power Plants |
| (vi) Sector | Industrial Projects - 1
Expansion of Aluminium Smelter from 6.8 LTPA to 9.0 LTPA and Captive Power Plant from 1230 MW to 1530 MW 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 Limited) |
| (vii) Name of Project | HINDALCO INDUSTRIES LIMITED |
| (viii) Name of Company/Organization | SAMBALPUR, ODISHA |
| (ix) Location of Project (District, State) | |
| (x) Issuing Authority | |

- 3.3. The proposed project activity is listed at S. No. 3(a) Metallurgical Industries (Ferrous & Non-ferrous) and 1(d) Thermal Power Plants under Category 'A' of the schedule of the EIA Notification, 2006 and being appraised at the Central Level.
4. The proposal was considered during 33rd EAC (Industry-1) Meeting held on 13th – 14th August, 2026 and reconsidered during 35th EAC (Industry-1) Meeting held on 9th – 10th September, 2026 wherein after detailed deliberations, the committee **recommended the proposal for grant of Environment Clearance** under the provisions of EIA Notification, 2006 subject to the stipulation of specific conditions and general conditions. The minutes of the meeting and all the project documents are available on PARIVESH portal which can be accessed at <https://parivesh.nic.in>.
5. The details of the proposal are as per the EIA/EMP report submitted by the proponent. The salient features of the proposal as presented during the above-mentioned meetings of EAC (Industry 1 Sector) are at **Annexure-II**.
6. The Unit configuration and capacity of the proposed project is at **Annexure-III**.
7. The EAC, in its 35th EAC (Industry-1) Meeting held on 9th – 10th September, 2026, inter-alia, deliberated the following:
- The instant proposal is for expansion of Aluminium Smelter from 6.8 LTPA to 9.0 LTPA and Captive Power Plant from 1230 MW to 1530 MW.
 - Additionally, Project Proponent has requested for amendment of Specific Condition No. ix of the Environmental Clearance dated 29.11.2012, as amended on 14.06.2013. PP through its written submission, informed that the Phase-II expansion involving installation of 5 × 150 MW capacity, for which the aforesaid EC was granted, has not been implemented due to administrative reasons. PP further submitted that a fresh EC was subsequently obtained on 07.06.2025 for expansion of the Smelter and Captive Power Plant and, in view of the same, requested amendment of the said condition from installation of three tri-flue and one bi-flue stacks to two tri-flue stacks of 275 m height each with flue gas velocity exceeding 22 m/s, along with continuous online monitoring of SO₂, NO_x and PM₁₀. The Committee noted that IRO, Bhubaneswar, in its Review of ATR dated 17.07.2026, had observed that the Phase-II expansion covered under the earlier EC has not been implemented and that the Ministry may consider modification/amendment of the relevant condition in view of the subsequent EC dated 07.06.2025. The Committee also noted the Action Closure Letter dated 12.08.2026 issued by IA-CMD, advising the Project Proponent to approach the concerned sector of IA Division for amendment of Specific Condition No. ix. After deliberation, the Committee, taking into consideration the above chronology and the recommendations of IRO, Bhubaneswar, advised that Specific Condition No. ix of the EC dated 29.11.2012, as amended on 14.06.2013, may be considered for amendment as proposed by the Project Proponent.
 - Chronology of the existing permissions**
 - Initially, Environmental Clearance (EC) was obtained from MoEFCC, New Delhi vide Letter No.

J11011/136/2009-IA-I (II) dated 29th November, 2012 for Aluminium plant of 0.72 MTPA and Captive Power Plant of 1650 MW out of which the company established Aluminium Plant (3.60 LTPA) and Captive Power Plant (900 MW) in year 2013. The EC was further amended on 14th June, 2013, followed by amendment on 14th August, 2018 (3.6 LTPA to 3.8 LTPA), validity further extended upto 28th Nov., 2022 on dated 20th July, 2020 followed by another extension up to 28th Nov., 2024 on 12th Aug., 2022. The CTO for Aluminium Smelter (3.8 LTPA) and Power Plant (6 x 150 MW) was obtained vide letter dated: 27th March, 2023. CTO also includes D.G. Set 25630 KVA (7 x 3000 KVA, 2 x 2000 KVA & 1 x 630 KVA), Processing of Aluminium Dross (Hazardous waste) 255 Metric Tonne/month and Operation of Semi Dry Flue Gas Desulphurization System installed at unit - 6 of CPP. The plant is under operation.

- The company obtained Verification on certificate of “No Increase in Pollution Load (NIPL)” on 20th Dec., 2021 from State Pollution Control Board, Odisha for installation of manufacturing facility of FRP of capacity 340 KTPA (3.4 LTPA) involving changes in product mix (i.e., Addition of Sheets and Coils) inside the existing plant premises of Aditya Aluminium. CTE for installation of Manufacturing Facility of FRP of capacity 340 KTPA (Phase 1: 170 KTPA & Phase 2: 170 KTPA) has been obtained from SPCB, Odisha vide letter no. 455/IND-II-CTE-6594 dated 06th Jan., 2022. CTO for the Aluminium Flat Rolled Product Cold Rolling facility (Sheets/Coils/Foils) with a capacity of 170 KTPA within the existing premises obtained from OSPCB vide Order No. 1353/IND-I-CON-6120, dated 30th Jan., 2026. FRP Plant (1.70 LTPA) is under operation and additional 1.70 LTPA FRP Plant is under implementation as per CTE dated 06th Jan., 2022.

- Further, the company obtained another Verification on certificate of “No Increase in Pollution Load (NIPL)” on 22nd March 2024 for Enhancement in Aluminium production capacity from 3.80 LTPA to 4.80 LTPA by addition of 1.0 LTPA recycled metal and installation of 0.9 LTPA White Fused Alumina (WFA) Plant through change in product mix and plant configuration within the existing plant premises. CTE for the same has been obtained from SPCB, Odisha vide letter no. 11493/IND-II-CTE-7229 dated 25th July, 2024. CTO for Aluminium Smelter from 0.38 MTPA to 0.48 MTPA by addition of 0.1 MTPA purchased recycled metal from M/s CMR Aluminium Pvt. Ltd obtained from OSPCB vide Order No. 2037/IND-I-CON-6120, dated 12th Feb., 2026. Aluminium production capacity has been increased from 3.80 LTPA to 4.80 LTPA by addition of 1.0 LTPA recycled metal and WFA 0.9 LTPA is under implementation as per CTE dated 25th July, 2024.

- Further, EC was obtained from MoEFCC, New Delhi, vide Letter No. J-11011/136/2009-IA-I (I) dated 7th June 2025 for expansion of Aluminium Smelter from 3.8 LTPA to 6.8 LTPA [by addition of 1 LTPA (Recycled metal) & installation of 2 LTPA (Renewable Energy Based 180 Pots)] and Captive Power Plant from 900 MW to 1230 MW [by addition of 180 MW Combined Cycle Power Plant (Gas/Oil fired) & 150 MW CPP (Coal fired) for Emergency Backup] within the existing plant premises of Aditya Aluminium. The same was further amended on 14th August 2025. Environmental safeguards under section 25 of Water (Prevention & Control of Pollution) Act, 1974 and section 21 of Air (Prevention & Control of Pollution) Act 1981 has been obtained for expansion of Aluminium Smelter from 3.8 LTPA to 6.8 LTPA (by addition of 1 LTPA (Recycled metal) & installation of 2 LTPA (Renewable Energy Based 180 Pots)) and Captive Power Plant from 900 MW to 1230 MW (by addition of 180 MW Combined Cycle Power Plant (Gas/ Oil fired) & 150 MW CPP (Coal fired) for Emergency Backup) within the existing plant premises vide letter no. 15353/IND-II-CTE-7490 dated 14th August, 2025. Implementation of Aluminium Smelter 2 LTPA, CPP 330 MW [1 x 150 (Coal Based) + 1 x 180 (Gas/ Oil based)], is under process.

iv. The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP reports. If any part of data/information submitted is

found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

v. The Committee noted that the EIA reports are in compliance of the ToR issued for the project, reflecting the present environmental status and the projected scenario for all the environmental components. The Committee deliberated on the proposed mitigation measure towards Air, Water, Noise and Soil pollutions. The Committee suggested that the storage of toxic/explosive raw materials/products shall be undertaken with utmost precautions and following the safety norms and best practices.

vi. The EAC also took into consideration the drone survey of the project site and kml file on the Google Earth presented by the project proponent along with DSS of the project site on PARIVESH and made following deliberations accordingly.

vii. The Committee noted that the project is a browfield proposal. Accordingly, SPCB furnished its based on its site visit dated 06.07.2026. The EAC apprised the proposal taking into consideration the comment of SPCB and suggested environmental safeguard measures alongwith the mitigation measures proposed by the project proponent w.r.t. the proposed site and nearby sensitive receptors. The EAC also reviewed the compliance statement submitted by the project proponent regarding aspects such as land acquisition status / presence of streams or nallahs within the site / validity of baseline data / validity of the Certified Compliance Report / validity of the Public Hearing (PH), among other relevant factors. Upon examination, the Committee found the submission satisfactory for further appraisal of the proposal.

viii. The total existing project/plant area is 1347.35 ha (3329.30 acres), comprising 119.264 ha of forest land, 811.42 ha of private land and 416.666 ha of Government land. PP submitted that no additional land is required for the proposed project. Out of the total land applied for with IDCO, 3218.43 acres have been allotted and leased out to Hindalco Industries Ltd., while 93.02 acres of Government land and 17.85 acres of private land are under advanced stages of alienation/acquisition. The Committee further noted that the Special Secretary to the Government of Odisha, Industries Department, has issued a Letter of Assurance regarding the aforesaid balance land. The EAC opined that PP shall complete the acquisition of total land and conversion for industrial purpose prior to commencement of expansion project.

ix. PP further reported that out of total plant area of 1347.35 ha, 119.264 ha is forest land. Forest Clearance for 119.264 Hectare has been obtained vide F. No. 8-27/2009-FC dated 10.02.2011.

x. The Committee noted the presence of habitation and other environmentally sensitive areas within the study area of the project site. In this regard, it is reported that the nearest habitation is Bomaloi village, located adjacent to the main plant area in the South direction, followed by Budhoparha at 0.10 km in the ESE direction, Tileimal and Sadhapali at 0.30 km in the SE and East directions, respectively, and Khadiapali, Hadumunda, Binjiberna and Tolibahal at about 0.30 km in the WNW, North, NW and ESE directions, respectively. Total 22 Habitations are present in proximity (2 km radius) of the plant site. The nearest educational institution, Tileimal Public School, is located at a distance of approximately 0.20 km in the East direction, followed by Daniel Public School at 0.30 km in the WSW direction and Banjiberna UP School at 0.30 km in the North direction. The nearest healthcare facility, Aditya Birla Township Hospital, is located at approximately 0.70 km in the WSW direction, followed by Gumkarma Government Hospital at 1.30 km in the North direction. Further, Ghichamura Reserved Forest is located at approximately 1.50 km in the NE direction. The Committee opined that the Project Proponent shall identify, village-wise, all sensitive receptors including habitations, places of worship, educational institutions, water bodies, and other vulnerable locations, and shall formulate and implement appropriate environmental safeguard and mitigation measures to minimise adverse impacts of project activities. A village-wise mitigation plan shall be prepared and implemented, along with a separate, clearly defined budget allocation for each affected village.

xi. The EAC further opined that the project proponent shall, in consultation with a reputed public health institution/ agency, carry out a baseline and periodic epidemiological study of the nearby villages to assess potential health impacts arising from project activities. Based on the findings, the project proponent shall establish and implement a health monitoring system for regular medical check-ups of the local population, and take suitable preventive and remedial measures to address any adverse health outcomes, with records maintained and reported to the concerned regulatory authorities.

xii. Matwali Nadi/Nala passes through the NE boundary of the project area near the raw water reservoir, while a seasonal Nallah passes through the western project boundary near the raw water reservoir, which, as submitted by the Project Proponent, has not been and will not be disturbed. A seasonal stream also originates within the plant area near the solar plant. Within the study area, Hirakud Reservoir is located at approximately 2.0 km in the SW direction, along with other water bodies within the study area of the project. Apart from the above, few seasonal water bodies such as nallahs and ponds are also present in the study area, which remain active during the rainy season. The Committee further noted that the Project Proponent has obtained NOC for Matwali Nadi/Nala passing through the raw water reservoir area from the Chief Engineer & Basin Manager, Mahanadi Basin, Burla, vide letter dated 20.03.2025. The EAC opined that PP shall strictly comply with the terms and conditions of NOC. Further foolproof Drainage Conservation measures shall be implemented to protect the natural drainage and its flow parameters; along with Soil conservation and Erosion control measures for all the water bodies.

xiii. PP reported that there is no interlinked/ interdependent project activities, as Aditya aluminium already operating the smelter & Captive Power plant and the said proposal is for expansion of Smelter and Captive Power Plant within existing plant premises. The company is sourcing key raw material like alumina from M/s. Utkal Alumina International Limited & Aditya Alumina Refinery [However, alumina will also be obtained from other plants (with a valid EC) as per requirement] and finished products like rolling ingot are dispatched for further processing at downstream plant M/s. Hindalco Industries Ltd. Hirakud.

xiv. The existing water requirement is 57798 m³ /day, which is obtained from Hirakud Reservoir. The water requirement for the expansion project is estimated as 25466 m³ per day which will be fulfilled from Hirakud reservoir. The EAC opined that the PP shall secure the required approval from the appropriate Authority.

xv. It is reported that based on the primary field survey & secondary data collected, 16 Schedule - I species i.e., Jackal (*Canis aureus indicus*), Sambar (*Cervus unicolor*), Indian Elephant (*Elephas maximus*), Jungal cat (*Felis chaus*), Hyena (*Hyaena hyaena*), Porcupine (*Hystrix indica*), Pangolin (*Manis crassicaudata*), Sloth bear (*Melursus ursinus*), Leopard / panther (*Panthera pardus fusca*), Grizzled Giant Squirrel (*Ratufa macroura*), Bengal monitor Lizard (*Varanus bengalensis*), Python (*Python molurus*), Indian cobra (*Naja naja*), Russell's viper (*Daboia russelii*), Grey jungle fowl (*Gallus sonneratii*), Peafowl (*Pavo cristatus*), species were recorded in the study area.; which are categorized as Schedule - I fauna according to Wildlife Protection (Amendment) Act, 2022. The Site-Specific Wildlife Conservation Plan has been approved by Chief Conservator of Forests (WL-II), Bhubaneswar vide letter no. 4650/ CWLW - FDWC - FD - 0117 - 2024 dated 28.04.2025. The EAC opined PP shall ensure strict compliance with the recommendations of the approved plan in consultation with State Forest Department.

xvi. The Committee also deliberated on the public hearing issues, and the socio-economic Development plan, with allocation of Rs. 100 crores for implementation of the commitments made during Public Hearing and found it satisfactory. The EAC further advised that all the assets created by the company though PH Action Plan shall be maintained by the company under CSR funds / any other defined fund.

xvii. The EAC opined that PP shall implement skill development programs in a way to align with relevant Government initiatives (like Mission LiFE, ODOP, GSDP etc.) to enhance employability and

livelihood opportunities for local communities. These programs shall be designed in consultation with the concerned authorities, such as the District Skill Development Mission, State Government agencies, or other relevant institutions. With regard to the above, PP shall chalk out a detailed action plan and monitoring mechanism, which shall include details target beneficiaries, training modules, expected outcomes, and periodic progress reports shall be maintained and submitted to RO MoEFCC.

xviii. The PP reported that 446 ha i.e. >33% of the Project area has already been developed under greenbelt/ plantation inside the plant, ash pond area and township areas. As on Dec., 2025, 983230 saplings have been planted with a density of ~2205 Trees/ hectare in addition to this the company is in the process of developing and improving greenbelt in each year by enhancement in tree density in existing greenbelt area through gap plantation. Local and native species will be planted with a density of 2500 trees per hectare. Total no. of 132000 saplings will be planted and nurtured in existing 446 ha hectares in two years. Thus, EAC deliberated on the greenbelt action plan and opined that greenbelt shall be developed and maintained in 446 ha (>33% of total project area) as per the commitment, within a period of 2 years in conformity with MoEF&CC's OM vide F.No. IA3-22/14/2025-IA.III (E-275538) dated 29.10.2025.

xix. The committee deliberated on the details of carbon foot prints and carbon sequestration study w.r.t. proposed project and found it satisfactory.

xx. The Committee deliberated on the technical feasibility of adoption of alternative aluminium smelting technologies, including AP50S technology, for the proposed expansion. In this regard, the Committee also considered the technical feasibility assessment report prepared by a Department of Scientific and Industrial Research (DSIR)-recognized R&D laboratory with respect to the applicability and feasibility of such technologies for the proposed expansion and found the report satisfactory.

xxi. The Committee noted that the Solid Waste Management Rules, 2026 have been notified and came into force with effect from 1st April, 2026. The EAC opined that the Solid Waste Management Plan for the proposed project shall be formulated in consonance with the provisions of the Solid Waste Management Rules, 2026, and the same shall be implemented.

xxii. The Committee also deliberated upon the comments of the State Pollution Control Board and emphasized that the same shall be duly addressed and incorporated in the Environmental Clearance conditions, as applicable.

xxiii. The EAC deliberated on the proposal with due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC found the proposal in order and recommended for grant of environmental clearance.

xxiv. The environmental clearance recommended to the project/activity is strictly under the provisions of the EIA Notification 2006 and its subsequent amendments. It does not tantamount/construe to approvals/consent/permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

xxv. The EAC also reviewed the EC conditions (specific and general) pertaining to Industry-I projects and observed that some of the specific conditions stipulated so far in the previously recommended EC projects are common and applicable to most of the projects in general. In view of the same, the General Conditions (in case of EC projects) have been revised through reallocation of these common conditions from specific to General Conditions (in case of EC projects). Accordingly, the instant project is also being stipulated with the modified General conditions.

Recommendations of the Committee:

8. In view of the foregoing and after detailed deliberations, **recommended** the instant proposal under the provisions of EIA Notification, 2006 for grant of Environment Clearance, subject to the stipulation of specific conditions and general conditions based on project specific requirements.

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 **Environment Clearance for instant proposal of M/s. Aditya Aluminium (A Unit of M/s. Hindalco Industries Limited) under the provisions of EIA Notification, 2006** subject to the specific conditions and general conditions (**Annexure-I**).

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. The above conditions shall be enforced, *inter-alia* under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.

14. This issues with approval of the competent authority.

(Dr. Sonu Singh)
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Copy To

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IA/OR/IND1/580750/2026

Address: IA Division, Ministry of Environment, Forest and Climate Change,
Indira Paryavaran Bhawan, Jor Bagh New Delhi - 110003

2. The Member Secretary, CPCB, Parivesh Bhawan Cbd-Cum-Office Complex East Arjun Nagar, East, Delhi, mscb.cpcb@nic.in
3. The Monitoring Cell MoEFCC, Compliance & Monitoring Division, Indira Paryavaran Bhawan Jor Bagh Road New Delhi, South, Delhi, moefcc-monitoring@gov.in
4. The District Collector, DC Office, Collectoratesambalpur, Sambalpur, Odisha, dm-sambalpur@nic.in
5. The Deputy Director General, Regional Office, "Deputy Director General Of Forests (C) Ministry Of Environment Forest And Climate Change Regional Office A/3 Chandshekharpur Bhubaneswar-751023", N/A, N/A, roez.bsr-mef@nic.in
6. The Member Secretary, SPCB/PCC, Paribesh Bhawan A-118 Nilakantha Nagar Unit-Viii, Bhubaneswar, Odisha, membersecretary@ospcbboard.org

Annexure 1

Specific EC Conditions for (Metallurgical Industries (Ferrous And Non Ferrous))

1. Specific

S. No	EC Conditions
1.1	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.
1.2	The project proponent shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
1.3	The project proponent shall utilize modern technologies for capturing carbon emission and shall also develop adequate carbon sink/ carbon sequestration resources with an aim to meet the carbon neutrality mission in a time bound manner. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.
1.4	All the directions and environmental safeguards prescribed by the SPCB based on its site visit dated 06.07.2026 for the instant proposal in pursuance to the MoEF&CC O.M. dated 14.01.2025 and its subsequent amendment shall be complied with. Compliance in this regard shall be submitted to the Regional Office of MoEF&CC/SPCB along with the six-monthly compliance report.
1.5	PP shall complete the acquisition of total land and conversion for industrial purpose prior to commencement of expansion project.
1.6	The nearest habitation is Bomaloi village, located adjacent to the main plant area in the South direction, followed by Budhoparha at 0.10 km in the ESE direction, Tileimal and Sadhapali at 0.30 km in the SE and East directions, respectively, and Khadiapali, Hadumunda, Binjiberna and Tolibahal at about 0.30 km in the WNW, North, NW and ESE directions, respectively. Total 22 Habitations are present in proximity (2 km radius) of the plant site. The nearest educational institution, Tileimal Public School, is located at a distance of approximately 0.20 km in the East direction, followed by Daniel Public School at 0.30 km in the WSW direction and Banjiberna UP School at 0.30 km in the North direction. The nearest healthcare facility, Aditya Birla Township Hospital, is located at approximately 0.70 km in the WSW direction, followed by Gumkarma Government Hospital at 1.30 km in the North direction. Further, Ghichamura Reserved Forest is located at approximately 1.50 km in the NE direction. Project Proponent shall implement a village-wise plan for implementation of environmental safeguards and mitigation measures for habitations

S. No	EC Conditions
	falling within 3 km radial distance. The plan shall address environmentally sensitive receptors, covering villages, places of worship, educational institutions, hospitals, water bodies, forests, ASI site, and other environmentally vulnerable locations. The plan shall address each receptor individually to address adverse impacts of project activities. The PP shall also include some of these locations in its environmental monitoring programme.
1.7	Project Proponent shall, in consultation with a reputed public health institution/agency, carry out a baseline and periodic epidemiological study of the nearby villages to assess potential health impacts arising from project activities. Based on the findings, the project proponent shall establish and implement a health monitoring system for regular medical check-ups of the local population, and take suitable preventive and remedial measures to address any adverse health outcomes, with records maintained and reported to the concerned regulatory authorities.
1.8	Matwali Nadi/Nala passes through the NE boundary of the project area near the raw water reservoir, while a seasonal Nallah passes through the western project boundary near the raw water reservoir, which, as submitted by the Project Proponent, has not been and will not be disturbed. A seasonal stream also originates within the plant area near the solar plant. Within the study area, Hirakud Reservoir is located at approximately 2.0 km in the SW direction, along with other water bodies within the study area of the project. Apart from the above, few seasonal water bodies such as nallahs and ponds are also present in the study area, which remain active during the rainy season. The EAC opined that PP shall strictly comply with the terms and conditions of NOC dated 20.03.2025. Robust and foolproof Drainage Conservation measures shall be implemented to protect the natural drainage and its flow parameters; along with Soil conservation and Erosion control measures for all the water bodies.
1.9	The existing water requirement is 57798 m ³ /day, which is obtained from Hirakud Reservoir. The water requirement for the expansion project is estimated as 25466 m ³ per day which will be fulfilled from Hirakud reservoir. PP shall secure the required approval from the appropriate authority.
1.10	PP shall strictly comply with all commitments made towards fulfilment of the ToR conditions, stipulated taking into consideration the observations and recommendations of the EAC Sub-Committee during its site visit.
1.11	Green Belt shall be developed and maintained in 446 ha (>33% of total project area) as per the commitment, within a period of 2 years in conformity with MoEF&CC's OM vide F.No. IA3-22/14/2025-IA.III (E-275538) dated 29.10.2025. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.
1.12	The PP shall undertake plantation, in compliance to MoEFCC OM dated 24.07.2024, in the earmarked area as a part of tree plantation campaign 'Ek Ped Maa Ke Naam' Campaign and the details of the same shall be uploaded on MeriLiFE portal at (https://merilife.nic.in).
1.13	All the commitments made towards socio-economic development of the nearby villages shall be satisfactorily implemented. The action plan based on the social impact assessment study of the project as per the EMP in accordance to the Ministry's OM dated 30.09.2020 shall be strictly implemented, which is amounting to approx. Rs. 100 Crores. The action plan shall also cover activities related to (i) promotion of environmental education and awareness (including green skills), and (ii) sub-plan to address the vulnerable sections (such as the elderly, children, pregnant women, persons with disabilities, and the terminally ill). An institutional mechanism shall be developed for monitoring the implementation of the commitments made, which shall also manage

S. No	EC Conditions
	and address public grievances. All the assets created by the company through PH Action Plan shall be maintained by the company under CSR funds / any other defined fund. The progress of implementation of PH Action plan and grievance redressal shall be submitted regularly to the Regional Office of MoEF&CC.
1.14	PP shall implement the skill development programs, in alignment with relevant Government initiatives/ programmes (like Mission LiFE, ODOP, GSDP etc.) to enhance employability and livelihood opportunities for local communities. These programs shall be designed in consultation with the concerned authorities, such as the District Skill Development Mission, State Government agencies, or other relevant institutions. A detailed action plan and monitoring mechanism (covering target beneficiaries, training modules, and expected outcomes) be prepared for the above. Periodic progress reports shall be maintained, and submitted to RO MoEF&CC.
1.15	The Solid Waste Management Plan for the proposed project shall be implemented in accordance with the Solid Waste Management Rules, 2026 (effective from 1st April, 2026), as amended from time to time. Detailed provisions for segregation, collection, storage, processing, treatment and disposal of solid waste, along with institutional mechanism and compliance framework, shall be prepared and implemented.
1.16	PP shall Install CO sensors with alarms at strategic locations in the Plant.
1.17	PP shall implement cleaner production and waste minimisation measures, and initiate coordinated action on activities of environmental awareness, education and conservation (covering plantation, solar energy, water harvesting, waste management, green skills etc.) through a dedicated institutional mechanism. The actions shall be monitored reported to RO MoEF&CC on regular basis through the self compliance reporting mechanism.
1.18	The project proponent shall conduct periodic soil health monitoring in and around the plant premises, including agricultural fields within a 5 km radius, to assess potential impacts from industrial operations. Soil samples shall be analyzed at least twice a year for parameters including pH, electrical conductivity, organic carbon, macronutrients (N, P, K), micronutrients (Zn, Fe, Mn, Cu), and heavy metals (As, F, Pb, Hg, Cd, Cr). The results shall be recorded, compiled and submitted to the State Pollution Control Board and Regional Office of MoEF&CC, and remedial measures shall be undertaken in case of any adverse trends.
1.19	The recommendations of the approved Site-Specific Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.
1.20	PP shall implement a Green Mobility Plan within the plant premises in a phased manner, including the use of electric transport for employees and materials, to minimize vehicular emissions and congestion.
1.21	PP shall install windscreen barriers/ wind-breaking walls along village-facing boundaries to reduce dust dispersion.
1.22	PP shall aim at 100% waste utilisation under circular economy. This shall be in addition to the mandatory stipulations prescribed by CPCB guidelines for handling, storage and management of Aluminium smelter facilities/ processing. It may be ensured that the detailed plan may be aligned to

S. No	EC Conditions
	the framework prescribed by CPCB/ SPCB, including ongoing waste utilisation research studies.
1.23	PP shall undertake any tree felling/ translocation activity in consultation with the State Forest Department and obtain any permission, if applicable.
1.24	The CCPP shall be designed for dual fuel capability (Natural Gas/Low Sulphur Fuel Oil) with low-NOx burners and dry low-emission technology. Stack emissions shall conform to CPCB norms for gas-based plants.
1.25	Fly ash shall be collected in dry form and storage facility (silos) shall be provided. PP shall comply with the CPCB guidelines for handling, utilisation and disposal of flyash, including unutilised ash. Mercury and other heavy metals (As, Hg, Cr, Pb etc.) will be monitored in the bottom ash as also in the effluents emanating from the existing ash pond. Low Lying area filling with Fly ash shall be done accordance to the guidelines prepared by the Central Pollution Control Board (CPCB) for the disposal of fly ash in reclamation of low-lying areas and stowing/ backfilling of abandoned mines/ quarries.
1.26	Regular ground water monitoring shall be carried out by installing Piezometers all around the secured landfill site, if any, in consultation with SPCB and data be submitted to the Ministry's Regional Office and SPCB.
1.27	The company shall develop rainwater structures to harvest the runoff water for recharge of ground water in consultation with the Central Ground Water Authority/ Board or a reputed government institute specializing in rainwater harvesting
1.28	Anode butts generated from the pots shall be cleaned and recycled to the Anode Plant. The spent pot lining generated from the smelter shall be properly treated in spent pot lining treatment plant to remove fluoride and cyanide and dispose of in secured landfill / Shall be disposed off through actual users authorized by SPCBs/ Coprocessing in Cement kilns authorized by SPCBs /Disposal in CHW-TSDF, in line with the provisions of HOWM Rules, 2016 (as amended) and CPCB Guidelines. The location and design of the land fill site shall be approved by the SPCB as per the Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules, 2008. Leachate collection facilities shall be provided to the secured land fill facilities (SLF). The dross shall be recycled in the cast house. STP sludge shall be utilized as manure for greenbelt development. All the used oil and batteries shall be sold to the authorized recyclers/ re-processors. As proposed, spent pot lining waste shall also be provided to cement and steel industries for further utilization. The project proponent shall develop in-house facilities for treatment of Spent Pot Lining (SPL) generated in the Aluminium smelter. Meanwhile, Refractory part may be sent to CHWTSDF as per the provisions of Hazardous and Other Waste Amendment Rules, 2016. The project proponent shall develop in-house facilities for the treatment of SPL in 2 to 3 years.
1.29	The project proponent shall conduct periodic soil health monitoring in and around the plant premises, including agricultural fields within a 5 km radius, to assess potential impacts from industrial operations. Soil samples shall be analyzed at least twice a year for parameters including pH, electrical conductivity, organic carbon, macronutrients (N, P, K), micronutrients (Zn, Fe, Mn, Cu), and heavy metals (As, F, Pb, Hg, Cd, Cr). The results shall be compiled and submitted to the State Pollution Control Board and Regional Office of MoEF&CC, and remedial measures shall be undertaken in case of any adverse trends.
1.30	The cyanide content in SPL shall be monitored regularly, in line with CPCB guidelines for

S. No	EC Conditions
	hazardous waste landfilling and co-processing. SPL with cyanide content above permissible limits shall be treated or detoxified prior to disposal. The project proponent shall explore co-processing of SPL in cement kilns or other approved thermal treatment facilities, and maintain records of SPL generation, testing, and final disposal.
1.31	The earlier Specific Condition No. ix of EC issued vide letter J-11011/136/2009-IA-I(I), dated 29.11.2012, and amended on 14.06.2013 stands modified as “Two (02) numbers of tri-flue stacks, each of 275 m height with flue gas velocity exceeding 22 m/ss shall be installed and provided with continuous online monitoring equipment’s for SO ₂ , NO _x , and PM ₁₀ ”.

Standard EC Conditions for (Metallurgical Industries (ferrous and non ferrous))

1. Statutory Compliance

S. No	EC Conditions
1.1	The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.
1.2	This Environmental clearance is granted subject to final outcome of Hon’ble Supreme Court of India, Hon’ble High Court, Hon’ble NGT and any other Court of Law, if any, as may be applicable to this project.

2. Air Quality Monitoring And Preservation

S. No	EC Conditions
2.1	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as 06 Nos. Continuous Ambient Air Quality Station (CAAQMS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
2.2	The project proponent shall carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM ₁₀ and PM _{2.5} in reference to PM emission, and SO ₂ and NO _x in reference to SO ₂ and NO _x emissions) within and outside the plant area (at least at four locations one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions.
2.3	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
2.4	Sampling facility at process stacks shall be provided as per CPCB guidelines for manual monitoring

S. No	EC Conditions
	of emissions.
2.5	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.
2.6	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
2.7	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
2.8	Ensure covered transportation and conveying of raw material to prevent spillage and dust generation. The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.
2.9	The project proponent shall provide primary and secondary fume extraction system at all heat treatment furnaces.
2.10	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.
2.11	Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.
2.12	Pollution control system in the plant shall be provided as per the CREP Guidelines of CPCB.
2.13	The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of cleaner fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere.
2.14	Bag filters shall be cleaned regularly and efficiency of bag filter system shall be monitored at regular intervals.
2.15	Water Sprinklers/Water mist system shall be installed near raw material yards, operational units and other strategic locations to control fugitive emissions from the plant.
2.16	The particulate matter emissions from the process stacks shall be less than 30 mg/Nm ³ and measures shall be undertaken as per the submitted action plan. Efficient Air monitoring equipment shall be installed.
2.17	Following additional arrangements to control fugitive dust shall be provided: a. Fog / Mist Sprinklers at all on bulk raw material storage area (at the transfer points) like Ore, Coal and for Fly Ash and similar solid waste storage areas. b. Proper covered vehicle shall be used while transport of materials. c. Wheel washing mechanism shall be provided in entry and exit gates with complete recirculation system.

3. Air Quality Monitoring And Preservation In Case Of Aluminium Smelter / Aluminium Refinery

S. No	EC Conditions
3.1	Adopt measures to recover fluoride gas from electrolytic cells and recycle the same in the process.
3.2	Practice use of low-sulphur tars for baking anodes
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.
3.4	Make efforts to increase the life of pot lining through better construction and operating techniques.
3.5	Recycle alumina dust collected in ESPs installed in calciner.
3.6	Design the pot roofs with louvers and roof ventilators
3.7	During operational phase at Captive Power Plant, Action Plan to monitor coke/coal dust exposures in different process plants using personal and area air samplers and to compare with permissible limits as per Indian Factories Act, 1948 shall be implemented.
3.8	The coal dust should be monitored at coal unloading, crushing, furnace areas and should be within 2 mg/m ³ , respirable dust fraction containing less than 5% quartz as per Indian Factories Act, 1948.

4. Water Quality Monitoring And Preservation

S. No	EC Conditions
4.1	The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
4.2	The project proponent shall monitor regularly ground water quality at least twice a year (pre- and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.
4.3	Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.
4.4	Water meters shall be provided at the inlet to all unit processes in the plants.
4.5	The project proponent shall make efforts to minimise water consumption in the plant complex by segregation of used water, practicing cascade use and by recycling treated water.
4.6	The proposed project shall be designed as Zero Liquid Discharge Plant. ETP shall be installed and there shall be no discharge of effluent from the plant. Domestic effluent shall be treated in Sewage Treatment Plant. Suitable measures shall be adopted for sewage water handling to ensure no

S. No	EC Conditions
	contamination of any kind of water body.
4.7	All stockyards shall have impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains and catch pits to trap the run off material and shall be implemented as per the action plan submitted in EIA/EMP report.
4.8	Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.
4.9	Air or Water Cooled condensers may be used in the captive power plant.

5. Noise Monitoring And Prevention

S. No	EC Conditions
5.1	Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and amendments thereof, and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
5.2	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.
5.3	PP shall identify extreme hot areas through heat stress survey as well as noise monitoring within process plants to ensure that workers not exposed above 90 dBA levels as per Factories Act, 1948.

6. Energy Conservation Measures

S. No	EC Conditions
6.1	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly;
6.2	Provide LED lights in their offices and residential areas.

7. Waste Management

S. No	EC Conditions
7.1	Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil.
7.2	Kitchen waste shall be composted or converted to biogas for further use.
7.3	100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.
7.4	The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use

S. No	EC Conditions
	Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard is available at https://cpcb.nic.in/technical-guidelines-3/ . All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six monthly compliance report being submitted by the project proponents.
7.5	A proper action plan must be implemented to dispose of the electronic waste generated in the industry.

8. Green Belt

S. No	EC Conditions
8.1	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration by trees.
8.2	Project proponent shall submit a study report on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage and offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitor able with defined time frames.
8.3	Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.

9. Public Hearing And Human Health Issues

S. No	EC Conditions
9.1	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
9.2	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms.
9.3	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP. 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.
9.4	Occupational health surveillance of the workers shall be done on a regular basis and records maintained.

10. Environment Management

S. No	EC Conditions
10.1	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) activity, company shall adopt nearby villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed.
10.2	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
10.3	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
10.4	Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Integrated Regional Office of the MoEF&CC.

11. Miscellaneous

S. No	EC Conditions
11.1	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
11.2	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
11.3	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
11.4	The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
11.5	Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be implemented
11.6	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and

S. No	EC Conditions
	Climate Change at environment clearance portal.
11.7	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
11.8	The project proponent 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, commencing the land development work and start of production operation by the project.
11.9	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
11.10	The recommendations of the approved Site-Specific Wildlife Management Plan (in case of involvement of Schedule-I species) shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.
11.11	The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report etc. in the company web site for the information to public/public domain. The PP shall also put the information on the left over funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three years, in the company web site for the information to public/public domain.
11.12	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
11.13	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
11.14	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
11.15	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
11.16	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
11.17	Any appeal against this EC 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.

S. No	Particulars	Details				
		Date of Application	Consideration	Details	Date of Accord	ToR Validity
a.	Terms of Reference for undertaking EIA study	03.10.2025	Standard ToR issued	Terms of Reference	09.10.2025	08.10.2029
b.	Period of baseline data collection	March to May, 2024				
c.	Date of Public Consultation	15 th May, 2026				
d.	Action plan to address the PH issues	Action plan as per MoEF&CC O.M. dated 30/09/2020 to address the issues raised during public hearing is attached as Annexure IV.				
e.	Location of the project	Villages: Lapanga, Bomaloi, Derba, Khadiapali, Tileimal and Dharopani, Tehsil: Rengali, District: Sambalpur, Odisha				
f.	Total land	The total existing project/plant area is 1347.35 ha (3329.30 acres), comprising 119.264 ha of forest land, 811.42 ha of private land and 416.666 ha of Government land. PP submitted that no additional land is required for the proposed project. Out of the total land applied for with IDCO, 3218.43 acres have been allotted and leased out to Hindalco Industries Ltd., while 93.02 acres of Government land and 17.85 acres of private land are under advanced stages of alienation/acquisition.				
g.	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014	Special Secretary to the Government of Odisha, Industries Department, has issued a Letter of Assurance regarding the aforesaid balance land.				
h.	Existence of habitation & involvement of R&R, if any	<u>Habitation:</u>				
		Plant Site: Nil				
		Study Area: Total 22 Habitations are present in proximity (2 km radius) of the plant site.				
		Habitations	Distance	Direction		
		Bomaloi	Adjacent	South		
		Budhoparha	0.1 Km	ESE		
		Tileimal	0.3 Km	SE		
		Sadhapali	0.3 Km	East		
		Khadiapali	0.3 Km	WNW		
		Hadumunda	0.3 Km	North		
		Binjiberna	0.3 Km	NW		
		Tolibahal	0.3 Km	ESE		
		Sabaraparha	0.5 Km	NW		
		Pipalkani	0.5 Km	East		

S. No	Particulars	Details										
		Derba	0.6 Km	NE								
		Bhuliapali	0.6 Km	NW								
		Oraonparha	0.7 Km	SSE								
		Phulchangher	0.8 Km	SW								
		Saletikra	0.9 Km	SE								
		Anlakani	0.9 Km	NNE								
		Nayakparha	1.0 Km	ESE								
		Gumakarma	1.1 Km	North								
		Narudihi	1.3 Km	East								
		Dhubenchhapal	1.4 Km	WNW								
		Dharopani	1.5 Km	ESE								
		Maliatikra	2.0 Km	WSW								
		Total 64 habitations are present within the 10 km radius of the study area.										
		R & R : Not involved.										
		School The nearest educational institution, Tileimal Public School, is located at a distance of approximately 0.20 km in the East direction, followed by Daniel Public School at 0.30 km in the WSW direction and Banjiberna UP School at 0.30 km in the North direction.										
		Health Facilities The nearest healthcare facility, Aditya Birla Township Hospital, is located at approximately 0.70 km in the WSW direction, followed by Gumkarma Government Hospital at 1.30 km in the North direction										
i.	Elevation of the project site	200 m to 228 m above mean sea level										
j.	Involvement of Forest land if any.	Out of total plant area of 1347.35 ha, 416.666 ha is govt. land, 811.42 ha is private land and 119.264 ha is forest land. Forest Clearance for 119.264 Hectare has been obtained vide F. No. 8-27/2009-FC dated 10th Feb., 2011.										
k.	Water body exists within the project site as well as study area	Water bodies passing through total project area: <table> <tr> <th>Water bodies</th> <th>Distance & Direction</th> </tr> <tr> <td>Matwali Nadi/ Nala</td> <td>Passing through the NE project boundary near the raw water reservoir area.</td> </tr> <tr> <td>Seasonal Nallah</td> <td>Passing through the western project boundary near the raw water reservoir area. The same has not been/ will not be disturbed.</td> </tr> <tr> <td>Seasonal Stream</td> <td>The stream is Originating from the plant area near solar plant.</td> </tr> </table>			Water bodies	Distance & Direction	Matwali Nadi/ Nala	Passing through the NE project boundary near the raw water reservoir area.	Seasonal Nallah	Passing through the western project boundary near the raw water reservoir area. The same has not been/ will not be disturbed.	Seasonal Stream	The stream is Originating from the plant area near solar plant.
Water bodies	Distance & Direction											
Matwali Nadi/ Nala	Passing through the NE project boundary near the raw water reservoir area.											
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S. No	Particulars	Details																														
		Water bodies within Study Area: <table border="1"> <thead> <tr> <th>Water bodies</th><th>Distance (km)</th><th>Direction</th></tr> </thead> <tbody> <tr> <td>Hirakud Reservoir</td><td>2.0</td><td>SW</td></tr> <tr> <td>Bhedan River</td><td>3.5</td><td>NW</td></tr> <tr> <td>Makarkurha Nala</td><td>5.0</td><td>SSE</td></tr> <tr> <td>Kharkhari Nala</td><td>5.5</td><td>NNW</td></tr> <tr> <td>Telen Nadi</td><td>6.5</td><td>NE</td></tr> <tr> <td>Bhima Jor</td><td>6.0</td><td>ENE</td></tr> <tr> <td>Majir Jor</td><td>7.5</td><td>SE</td></tr> <tr> <td>Sankri Nala</td><td>9.0</td><td>South</td></tr> <tr> <td>IB River</td><td>9.0</td><td>West</td></tr> </tbody> </table> <i>Apart from the above, few seasonal water bodies (viz. nallahs and ponds) are also present in the study area which remain active during rainy season.</i>	Water bodies	Distance (km)	Direction	Hirakud Reservoir	2.0	SW	Bhedan River	3.5	NW	Makarkurha Nala	5.0	SSE	Kharkhari Nala	5.5	NNW	Telen Nadi	6.5	NE	Bhima Jor	6.0	ENE	Majir Jor	7.5	SE	Sankri Nala	9.0	South	IB River	9.0	West
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l.	Existence of ESZ / ESA / national park / wildlife Sanctuary / biosphere Reserve / tiger reserve / elephant reserve etc. if any within the study area	No ESZ / ESA / National Park / Wildlife Sanctuary / Biosphere Reserve / Tiger Reserve / Elephant Reserve exist within 10 Km. radius of the plant site																														
m.	List of Reserved and protected forests	- Ghichamura RF (1.5 km in NE direction) - Maulabhanja RF (5.5 km in SW direction) - Katikela RF (5.0 km in North direction) - Malda RF (5.5 km in NW direction) - Patrapali RF (7.0 km in WNW direction) - Shiryapali RF (7.5 km in NNE direction) - RF (7.0 km in NW direction) - Khait RF (8.0 km in NW direction) - Rampur RF (8.5 km in NW direction) - Baighara RF (9.0 km in SSW direction)																														
n.	Other important vegetation area in study area	None																														
o.	CRZ	Not Applicable																														
p.	Project cost	Existing capital cost of project was 30823.34 Crores. The capital cost of the expansion project is Rs. 10517 Crores.																														

S. No	Particulars	Details
q.	EMP cost	The capital cost for environmental protection measures is proposed as Rs. 1265 Crores. The annual recurring cost towards the environmental protection measures is proposed as Rs. 16.63 Crores.
r.	Employment opportunity	The employment generation from the expansion is 2200.
s.	Water and Power requirement	The existing water requirement is 57798 m³ /day, water requirement is obtained from Hirakud Reservoir. Permission has been obtained for supply of 52.73 cusecs (1,29,000 KLD) water from Hirakud Reservoir from Department of Water resources, Government of Orissa vide letter no. 32432/WR, Irr-II-WRC 11/08 dated 01st Oct. 2008. The water requirement for the expansion project is estimated as 25466 m³ per day which will be fulfilled from Hirakud reservoir. No additional permission for water withdrawal will be required for the proposed installation. Existing Power requirement of 1024 MW is obtained from CPP and Grid. The power requirement for the expansion project is estimated as 359 MW which will be fulfilled from 300 MW Renewable Energy (RE) from various sources through grid, existing Captive Power Plant 900 MW and Solar Power Plant (30 MW). Proposed 180 MW Gas/Oil fired Turbine-based Combine Cycle power plant and 1 x 150 MW Coal Fired Captive Power Plant for emergency. Additional requirement will be fulfilled from 300 MW (2 x 150 MW) Coal Fired Captive Power Plants.
t.	CPA/SPA	No

The unit configuration and capacity of existing and proposed project are provided below.

S. No.	Plant Equipment/ Facility		Configuration and Capacity as per existing EC dated 07.06.2025, amended on 14.08.2025			Proposed Units (D)	Final [Existing (C)+ Proposed (D)]	Remarks
			Implemented (A)	Under implementation (B)	Total (A+B=C)			
1.	Aluminium Smelter	Configuration (no.)	360 Pots (2 x 180)	180 Pots	540 pots	180 pots	720 pots	Under implementation: 2.0 LTPA as per CTE dated 14.08.2025
		Capacity (LTPA)	4.8 [3.8 + 1.0 (Recycled metal)]	2.0	6.8	2.2 (2 LTPA from 180 Pots & 0.2 LTPA from existing 360 Pots after increase in current from 380 kA to 400 kA)	9.0	
2.	Captive Power Plant	Configuration (MW)	6 x 150 (Coal Based)	1 x 150 (Coal Based) + 1 x 180 (Gas/ Oil based)	7 x 150 (Coal Based) + 1 x 180 (Gas/ Oil based)	2 x 150 (Coal Based)	9 x 150 (Coal Based) + 1 x 180 (Gas/ Oil based)	Under Implementation: 330 MW as per CTE dated 14.08.2025
		Capacity (MW)	900	330	1230	300	1530	
3.	FRP Plant	Configuration (no.)	1 x 1.70	1 x 1.70	2 x 1.70	Nil	2 x 1.70	• Under implementation FRP Phase-2: 1.70 LTPA as per CTE dated 06.01.2022 • Addition of 0.10 LTPA Foil & 0.05 LTPA Carbon coating
		Capacity (LTPA)	1.70	1.70	3.40	Nil	3.40	

S. No.	Plant Equipment/ Facility	Configuration and Capacity as per existing EC dated 07.06.2025, amended on 14.08.2025			Proposed Units (D)	Final [Existing (C)+ Proposed (D)]	Remarks	
		Implemented (A)	Under implementation (B)	Total (A+B=C)				
							line to sheet/coil/foil (Total Capacity of Foil will be 0.35 LTPA and carbon coating line 0.05 LTPA) without change in the total FRP production capacity.	
4.	WFA Plant	Configuration (no.)	Nil	1 x 0.6 + 1x0.3	1 x 0.6 + 1x0.3	Nil	1 x 0.6 + 1 x 0.3	Under implementation as per CTE dated 25.07.2024.
		Capacity (LTPA)	Nil	0.9	0.9	Nil	0.9	

Action plan as per MoEF&CC O.M. dated 30/09/2020:

Particulars	Name of the activity	Physical targets & Locations	Total Cost in Crores					
			Year - I	Year - II	Year - III	Year - IV	Year - V	Total Budget
Skill Development	Skill development and vocational training programs for 10th pass, school dropout, and unemployed youth.	1. Conduct entrepreneurship development programmes for 75 rural youth annually. 2. Facilitate technical skill training (Nursing, LMV/HMV Driving, etc.) for 75 youth annually. 3. Promote self-employment and micro-enterprises with credit linkages for 75 beneficiaries annually.	0.1	1	1	0.5	0.5	3.10
	Aditya Birla Skill Centre at Sambalpur is delivering vocational and technical training for 200 beneficiaries annually in trades such as Electrical Technician, Welding, Fashion Technology, Solar PV Installation,	One Skill Centre is Planned in a nearby locality to expand access to vocational and technical training for 200 beneficiaries annually across all trades for beneficiaries from Lapanga, Bomaloi, Ghichamura, Jangala, Katarabaga, Nishanbanga & Other Gram	0.1	1	1	0.5	0.5	3.10

Particulars	Name of the activity	Physical targets & Locations	Total Cost in Crores					
			Year - I	Year - II	Year - III	Year - IV	Year - V	Total Budget
	and other employability-oriented courses.	Panchayat's of Rengali Block						
Healthcare	Healthcare initiatives such as the operation of two Mobile Medical Units (Swasthya Vahini) with diagnostic services in nearby villages and the strengthening of Rengali PHC with doctors and specialist services are being continuously carried out. In addition, upgradation of Rengali and Loida Government Hospitals with improved healthcare facilities is proposed to further enhance access and quality of healthcare services.	Healthcare infrastructure support will be provided in Rengali and Katarbaga PHC. In Loida CHC facilities of doctors and specialist services will be provided. Upgradation of Sub - Centre Lapanga, Bomaloi, Ghichamura, Jangala, Katarabaga, Nishanbanga & Other Gram Panchayat's of Rengali Block will be conducted.	0.5	2	2	2	2	8.50
Education	1. Special remedial classes with	Lapanga, Bomaloi, Ghichamura,	2.5	5	5	5	5	22.50

Particulars	Name of the activity	Physical targets & Locations	Total Cost in Crores					
			Year - I	Year - II	Year - III	Year - IV	Year - V	Total Budget
	qualified teachers in selected 10 Govt. School Annually. 2. Lab Equipment support in 8 Govt. High Schools. of Rengali Block. 3. Ensure safe drinking water and sanitation facility in 43 schools. 4. Promotion of English medium school. 5. Development of school infrastructure in peripheral Govt. Schools.	Jangala, Katarabaga, Nishanbanga & Other Gram Panchayat's of Rengali Block.						
Infrastructure	Construction of cold storage facilities in consultation with farmers, local administration, and the Agriculture Department has been initiated in Lapanga, Bomaloi, Ghichamura, Jangala, and Katarabaga	1. Implement floriculture (Marigold) with training and planting material support for 50 farmers annually 2. Promote cluster-based vegetable cultivation (grafted seedlings) with marketing support for 100 farmers annually	0.5	1	1	1	1	4.50

Particulars	Name of the activity	Physical targets & Locations	Total Cost in Crores					
			Year - I	Year - II	Year - III	Year - IV	Year - V	Total Budget
	using existing CER funds. Additionally, agricultural support initiatives including irrigation support, promotion of cash crops, and farmer development programmes are proposed to enhance productivity and farmer livelihoods.	3. Facilitate fruit orchard plantation for 50 farmers annually 4. Encourage cultivation of underutilized vegetable crops for crop diversification 5. Provide storage infrastructure support (grains & inputs) to PACS benefiting 1000 farmers annually 6. Develop 10 model WADI units annually for integrated farming 7. Establish 50 polyhouses and nurseries for farmers and SHGs Location: - Lapanga, Bomaloi, Ghichamura, Jangala, Katarabaga, Nishanbanga & Other Gram Panchayat's of Rengali Block.						
	Infrastructure development activities such as community halls, Kalyan	Lapanga, Bomaloi, Ghichamura, Jangala, Katarabaga,	2	3	4	3	4	16.00

Particulars	Name of the activity	Physical targets & Locations	Total Cost in Crores					
			Year - I	Year - II	Year - III	Year - IV	Year - V	Total Budget
	Mandaps, are being undertaken through existing CER funds in consultation with Gram Panchayats and District Administration across Lapanga, Bomaloi, Ghichamura, Jangala, and Katarabaga Gram Panchayats. Additionally, construction of basic infrastructure such as Kalyan Mandap, Community hall, roads, ponds, and other essential village facilities is proposed in consultation with local communities to further strengthen rural infrastructure.	Nishanbanga & Other Gram Panchayat's of Rengali Block.						
	1. Ensuring Drinking water supply	1. Develop 20 drinking water sources annually (open wells and	2	4	4	4	4	18.00

Particulars	Name of the activity	Physical targets & Locations	Total Cost in Crores					
			Year - I	Year - II	Year - III	Year - IV	Year - V	Total Budget
	sources, Work for continuous water supply arrangements. 2. Pond Renovation 3. Water Conservation measures.	deep borewells) across targeted Gram Panchayats 2. Install 20 solar-based drinking water systems annually on existing borewells/open wells 3. Undertake renovation of 20 ponds annually for water conservation and recharge 4. Construct check dams to enhance water storage and groundwater recharge 5. Develop LBS, CCT, Deep CCT, and gully plug structures for soil and moisture conservation.						
	1. Construct market complexes in 6 Gram Panchayats to enhance regular market access 2. Develop 10 food cart units annually for SHGs to	Lapanga, Bomaloi, Ghichamura, Jangala, Katarabaga, Nishanbanga & Other Gram Panchayat's of Rengali Block.	2	3.5	3.5	3.5	3.5	16.00

Particulars	Name of the activity	Physical targets & Locations	Total Cost in Crores					
			Year - I	Year - II	Year - III	Year - IV	Year - V	Total Budget
	promote local enterprises 3. Establish 10 processing units annually for IGAs (ginger, turmeric, millets, mushroom, pickles, etc.) 4. Install 10 biogas units annually across selected Gram Panchayats 5. Set up 100 vermicompost units annually to promote organic inputs 6. Develop and support 6 mushroom spawn units (one in each Gram Panchayats) for input supply.							
	Develop road from Banjiberna to Ghichamura along the plant boundary.	Construction of 3 KM Bitumin Road from Banjiberna to Ghichamura along the plant boundary.	1.5	1.5	0	0	0	3.00
Plantation	Massive plantations in the vacant spaces of Govt & Private land	1. Promote fruit plantation (Mango, Guava, Lemon, Papaya, Jackfruit,	0	0.5	0.5	0.5	0.5	2.00

Particulars	Name of the activity	Physical targets & Locations	Total Cost in Crores					
			Year - I	Year - II	Year - III	Year - IV	Year - V	Total Budget
	in the surrounding villages.	Banana, etc.) with 2000 saplings per village annually. Cover 23 revenue villages across Lapanga, Bomaloi, Ghichamura, Jangala, and Katarabaga Gram Panchayats of Rengali Block						
Agriculture	1. Facilitate irrigation support through PMKSY linkage for solar-based lift irrigation systems in nearby habitations 2. Promote installation of 100 solar-based lift irrigation systems annually covering 100 farmers 3. Cover 23 revenue villages in the plant periphery under irrigation support initiatives 4. Strengthen	Lapanga, Bomaloi, Ghichamura, Jangala, Katarabaga, Nishanbanga & Other Gram Panchayat's of Rengali Block	0.5	0.5	0.5	0.5	0.5	2.50

Particulars	Name of the activity	Physical targets & Locations	Total Cost in Crores					
			Year - I	Year - II	Year - III	Year - IV	Year - V	Total Budget
	water-use efficiency and year-round irrigation access for improved agricultural productivity							
	Promotion of organic farming 150 farmers Annually	Promotion of organic farming 150 formers Annually, Lapanga, Bomaloi, Ghichamura, Jangala, Katarabaga, Nishanbanga & Other Gram Panchayat's of Rengali Block.	0.16	0.16	0.16	0.16	0.16	0.80
Total Budget in Crores			11.86	23.16	22.66	20.66	21.66	100.00

Signature Not Verified

Digitally Signed by : Shri Sonu Singh
Member Secretary, MoEFCC (EC)

Date: 10/10/2026