

BALCO/ENV/A-02(A)/2026/207

Date: 15.05.2026

To,
The Integrated Regional Office (IRO),
Ministry of Environment, Forest & Climate Change,
Aranya Bhawan,
North Block, Sector-19,
Nava Raipur, Atal Nagar (CG) 492002.

Sub: Half yearly compliance status (October 2025 to March 2026) for Alumina refinery and Aluminium Smelter Plant (Potline-1)- BALCO, Korba (CG).

Respected Sir,

Please find enclosed herewith, the half yearly compliance report of the Environmental Clearance No. J-11011/34/2003-IA II (I) dated 05.11.2003 for Alumina refinery and Aluminium smelter plant of Bharat Aluminium Company Limited.

We hope that the above is in line with the referred Environmental Clearance. In case you require any further information, we will be glad to furnish the same.



Yours truly,
On behalf of Bharat Aluminum Company Ltd.

(Authorized Signatory)

Encl: a/a

Copy to: The Regional Officer, Chhattisgarh Environment Conservation Board, Korba.

**COMPLIANCE STATUS OF EXPANSION OF ALUMINA REFINERY AND ALUMINIUM
SMELTER PLANT BY M/s BHARAT ALUMINIUM COMPANY LIMITED (BALCO) AT
KORBA,(C.G.)**

No. J-11011/34/2003-IA II (I) MOEF – 5 Nov. 2003

Duration: October 2025 to March 2026

A. SPECIFIC CONDITION

Sl. No	Conditions	Compliance status
i	The gaseous emissions from various process units should confirm to the standard prescribed from time to time. The State board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry, its size and location. At no time the emission level should go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit should not be restarted until the control measures are rectified to achieve the desired efficiency. Ambient air quality monitoring stations should be set up in consultation with the Chhattisgarh Environment Conservation Board. Data should be regularly monitored, and records maintained, and report submitted to the Ministry/CPCB/CECB once in six months.	The gaseous emissions from various process units are within the prescribed standard. CEMS has been installed in the stacks of all units and connected with CPCB and CECB servers for real-time continuous data monitoring. Ambient air quality monitoring stations have been set up in consultation with the Chhattisgarh Environment Conservation Board (CECB) and data is regularly monitored and records are maintained. Reports are submitted to CECB every month and to the Ministry/CPCB once every six months. (Copy of stack emission reports are attached as Annexure–I and copy of ambient air quality reports are attached as Annexure– II).
li	There should be no discharge of process effluent as reflected in the EIA/EMP report. The proposed refinery and smelter plant shall be designed for zero discharge. In addition, efforts shall be made to reuse wastewater from the existing plant. The domestic wastewater after treatment in Sewage Treatment Plant should be used for green belt development.	The Smelter unit has been designed for zero effluent discharge and best efforts are made so that there is no discharge of process effluent from Smelter unit. Efforts are made to reuse the wastewater from smelter after treatment. The domestic wastewater is treated in Sewage Treatment Plant and the treated water is being used for Horticulture/ Greenbelt development purposes.
lii	In plant control measures for checking fugitive emission from spillage/ raw materials handling should be provided. Fluoride emissions should be monitored from the existing pot room, proposed pot and in the forage around the smelter complex. Further, a dry scrubbing system to control the emissions from the pot lines should be provided. The fluoride emissions	A fume treatment plant along with proper pot hoods is in place to check fugitive emissions. Fluoride emissions from pot rooms and forage fluoride around the smelter complex are monitored regularly. (Copy of fugitive emission reports are attached as Annexure –III and copy of forage fluoride monitoring reports attached as Annexure – IV).

	shall not exceed 0.8 Kg/t of aluminium produced.	Dry scrubbing system has been provided in the Pre-baked Smelter. Fluoride emissions are well within the norms of 0.8 kg/t of Aluminium produced.
lv	The particulate emissions from the new calciner shall be controlled by installation of electrostatic precipitator. The particulate emissions shall not exceed 150 mg/Nm ³ . All the boiler stacks shall be provided with stack height as per the CPCB guidelines. The boiler and calciner stacks should be equipped with continuous monitoring device to check SPM emission levels. The Nox emission from boiler and calciner stacks shall be less than 50 ppm as guaranteed by the manufacturers. Low Nox burners should be installed to control the NOx emissions.	The Alumina plant operation has been stopped since September 2009 and we have submitted the letter of intimation for the same to CECB via letter no. No. Kb/Safety/2013/112.
V	The poly-aromatic hydrocarbons from the carbon plant (anode bake oven) should not exceed 2 mg/Nm ³ .	The poly-aromatic hydrocarbons from the carbon plant (anode bake oven) is within 2 mg/Nm ³ . (Copy of stack emission monitoring reports attached as Annexure – I)
vi	The company should adopt a dry disposal (High concentration slurry disposal) system for red mud disposal. The ground water quality should be monitored around the red mud ponds by providing piezometric holes.	The Alumina plant operation has been stopped since September 2009 and we have submitted the letter of intimation for the same to CECB via letter no. No. Kb/Safety/2013/112. The existing red mud ponds have been converted into ash dyke for disposal of fly ash generated from power plants as per approval granted in Environment Clearances received for BALCO Power plants. Ground water quality is being monitored regularly around these ponds/dyke and copy of monitoring reports are submitted to CECB and MoEF&CC. (Copy of groundwater quality monitoring reports attached as Annexure – V).
vii	The spent pot lining generated from the smelter should be utilized for cement/steel manufacturing, alternatively to be disposed off in a secured landfill constructed as per the design of CPCB. The location of the landfill site should be approved by the Chhattisgarh Environment Conservation Board.	For utilizing the Spent Pot Lining (SPL) generated from the Smelter, BALCO has entered into an agreement with authorized co-processors for detoxification and further usage in cement/steel plants as per Central Pollution Control Board (CPCB) guidelines.

		Captive SLF for storage of Hazardous Waste is approved by the CECB as per Hazardous and Other Wastes' (Management and Transboundary Movement) Rules 2016. The approved design of captive SLF is attached as Annexures VI (Colly) & VII.
viii	A green belt of adequate width and density should be developed in an area of 90 acre within and around the plant premises as per the CPCB guidelines.	Plantation is carried out in and around the plant premises on a regular basis as per the CPCB guidelines to comply with the conditions. CECB approved 3 rd party verification has also been completed and report has been submitted to CECB office. (Copy of 3 rd party verification report attached as Annexure–VIII and copy of greenbelt details attached as Annexure–IX).
ix	Occupational Health Surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.	Regular PME of employees is being conducted and records are maintained as per the Factories Act.
x	All the recommendations of the Charter for Corporate Responsibility for Environment Protection (CREP) for the Aluminium sector should be strictly implemented.	The compliance status of the recommendations made in the Charter on Corporate Responsibility for Environmental Protection (CREP) is attached as Annexure – X.
General Conditions		
i	The project authorities must strictly adhere to the stipulation made by the Chhattisgarh Environment Conservation Board and the State Government.	Complied with.
ii	No further expansion or modifications in the plant should be carried out without prior approval of the Ministry of Environment and Forests.	No further expansion or modifications in the plant is carried out without prior approval of the Ministry of Environment and Forests.
iii	Adequate 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 State Pollution Control Board. Data on ambient air quality, fugitive emission and stack emissions should be regularly submitted to this ministry including its Regional Office at Bhopal and the State Pollution Control Board/Central Pollution Control Board once in six months.	Ambient air quality monitoring stations have been established in consultation with Chhattisgarh Environment Conservation Board. The data of stack emission monitoring (Annexure–I), ambient air quality monitoring (Annexure–II) and fugitive emission monitoring (Annexure–III) are being submitted to MoEFCC/CECB on regular basis.

iv	Industrial wastewater should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 December, 1993 or as amended from time to time. The treated wastewater should be utilized for plantation purpose.	All the wastewater generated is properly collected and treated in the ETP with RO system and the treated water is reused/recycled in the plant.
v	The overall noise levels in and around the plant area should be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under Rules, 1989 viz. 75 dBA (Day time) and 70 dBA (Nighttime).	Noise prone equipment has been provided with acoustic enclosures and noise level kept below 85 dBA. Moreover, noise level is being regularly monitored and personal protective equipment like earplugs and earmuffs have been provided to people working in high noise prone areas. The ambient noise is also being monitored regularly, and all records observed well within the norms. Copy of Ambient noise monitoring report is attached as Annexure–XI .
vi	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further the company must undertake socio-economic development-activities in the surrounding villages like community development programs, educational programs, drinking water supply and health care etc.	All environmental protection measures have been implemented. Socio-economic developmental projects like setting up regular Health Camps and Cancer Hospital, watershed development, upgradation of schools, Mother-Child Care programs have been taken up.
vii	The project authorities will provide adequate funds both recurring and non-recurring to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided should not be diverted for any other purposes.	Separate funds are allocated for the implementation of environmental protection measures and not diverted for any other use.
viii	The Regional Office of this Ministry at Bhopal/Central pollution Control Board/State Pollution Control Board will monitor stipulated conditions. A six monthly compliance report and the monitored data along with Statistical interpretation should be submitted to them regularly.	Complied with. Last report was submitted vide: Letter No. BALCO/ENV/A-02(A)/2025/492 Dated 16 th October 2025. Copy of last submitted report attached as Annexure–XII .
ix	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	Complied with.

	the State Pollution Control Board/ Committee and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.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 be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional office.	We had advertised in three newspapers. Please refer to Annexure–XIII .
x	The Project Authorities should inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	The expansion project was approved by MoEFCC vide EC letter No. J-11011/34/2003-IA-II (I) MoEF dated 05.11.2003 and Consent to Establish vide letter No. 4332/TS/CECB/2003 dated 25.11.2003. We have commenced the land development work as per the Consent to Establish and final approval i.e. Consent to Operate vide letter No. 121/TS/CECB/2005 dated 06.01.2005 and letter No. 123/TS/CECB/2005 dated 06.01.2005 .
3.0	The Ministry may revoke or suspend the clearance if implementation of any of the above conditions is not satisfactory.	Noted
4.0	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner will implement these conditions	Noted
5.0	The above conditions will be forced, 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 Wastes (Management and Handling) Rules, 1989/2003 and the Public Liability insurance Act, 1991 along with their amendments and rules.	Noted