

BALCO/ENV/A -02(A)/2026/215

Date: 29.05.2026

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 Report (October 2025 to March 2026) of the 540 MW Power Plant.

Respected Sir,

As per the Environment Clearance No. J- 13011/3/2003.IA-II (T) dated 23.06.2004, received for the expansion of Captive Power Plant by M/s Bharat Aluminium Company Limited, Korba, please find enclosed herewith the compliance report along with the necessary supporting documents and monitoring reports.

We hope that the above is in line with the requirements under the referred Environment Clearance. In case your good office requires any further information or clarification, we would be glad to furnish the same.

Thanking you,

Yours Truly,
On behalf of Bharat Aluminum Company Ltd.


(Authorized Signatory)

Encl: a/a

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

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**COMPLIANCE STATUS OF 675 MW COAL BASED CAPTIVE POWER PLANT
KORBA (C.G.) of M/s BHARAT ALUMINIUM CO.LTD
Duration: October 2025 to March 2026
MOEF&CC – No. J-13011/3/2003.IA-II (T) / Dated: 23 June 2004**

S. No	Environmental Clearance Conditions	Compliance Status
i	All the conditions stipulated by Chhattisgarh Environment Conservation Board vide their letter no. 580/TS/CECB/2002 dated 17.02.2003 should be strictly implemented.	Complied.
ii	No additional land shall be acquired.	No additional land has been acquired.
iii	Coal requirement is estimated at 10800 TPD having calorific value of 3000-3675 K.Cal/kg with 40% ash content and 0.3-0.5% sulphur content. Copy of coal linkage approval should be submitted to the Ministry within three months.	Coal consumption is within the limit defined and having calorific value ranging from 3000-3650 KCal/kg. The ash content in coal on feed basis is 37.42% and sulphur content in coal on feed basis is 0.43 %. With respect to this point, please note that there has been a MoEFCC notification dated 21.05.2020 and subsequent amendments that substituted Rule 3(8) of the Environment (Protection) Rules, 1986 and stated that the TPPs can use coal without any stipulations as to ash content or distance subject to fulfilment of certain conditions such conditions include technology solution for emission norms, management of ash pond, safe transportation among others. It is submitted that such conditions are being complied with in letter and spirit. Coal linkage approval has already been submitted to the Ministry. Please refer Annexure-I .
iv	A single flue stack of 275 m height shall be provided with continuous online monitoring equipment.	Complied with. A single flue stack of 275 m height with four-flue cans for 4 units of 135 MW each has been provided with continuous on-line monitoring equipment and are connected with CPCB and CECB server.
v	High efficiency Electrostatic precipitator (ESP) should be installed to limit outlet SPM emission 75 mg/Nm ³ .	High efficiency Hybrid Electrostatic precipitators (Hybrid ESP) have been installed to limit outlet SPM emission to less than 50 mg/Nm ³ in all the units. Please refer Annexure –II for monitoring report.
vi	Space provision should be made for flue Gas De-sulphurisation (FGD) unit.	Space provision for flue gas De-sulphurisation (FGD) is being ensured.
vii	Ash generation will be 9326 TPD fly ash 1166 TPD bottom ash. Ash disposal would be done through high concentration slurry disposal system on abandoned red mud pond. Fly ash utilization plan generated should be used in a phased manner as per provisions of the	Fly ash generation was 2105.23 TPD and Bottom ash 526.30 TPD during FY 2025-26. Ash is transported through a high concentration slurry disposal system to ash dykes. As per our action plan, the fly ash is being utilized in sustainable avenues like exhausted mine void

	Notification on Fly Ash Utilization issued by the Ministry in September 1999 and its subsequent amendments. By the end of 9 th year full fly ash utilization should be ensured.	filing, road construction/NHAI, supply to cement industry, brick making etc. in line with the fly ash notification and amendments. Please refer Annexure–III for the HCSD system flow diagram.
viii	Necessary drainage network at the proposed CPP site should be developed.	Necessary drainage network has been constructed within the Power Plant. Please refer Annexure–IV .
ix	Water requirement should not exceed 51240 m ³ /day. No ground water and/or other surface water should be used. Copy of confirmed water withdrawal should be submitted to the Ministry within three months.	Complied with. A copy of water withdrawal agreement has been submitted to the Ministry. Please refer Annexure–V .
x	Waste water of coal handling plant should be treated before disposal.	Wastewater of coal handling plant is being treated in ETP and being recycled back into the system.
xi	Appropriate water harvesting technology should be finalized in consultation with Central Ground Water Authority/Board, within a period of two months from the date of issue of the clearance letter.	Complied.
xii	Regular monitoring of water quality including heavy metals should be undertaken around ash disposal and the project area ascertain change in the water quality, if any, due to leaching of contaminants from ash disposal area.	Monitoring of the ground and surface water is being carried out regularly for all parameters including heavy metals. The results of the ground and surface water are within the norm. Please refer Annexure–VI (October 2025 to March 2026)
xiii	Study on fluoride concentration in foliage, analysis of ground water and storm water runoff from the existing CPP site drain should be carried out regularly.	Analysis of fluoride concentration in forage and ground water is being done on monthly basis. Please refer Annexure–VII for forage fluoride report and Annexure–VI for water report (October 2025 to March 2026)
xiv	Noise level should be limited to 75 Leq and regular maintenance of equipment should be undertaken. For people working in the area of generate or and other high noise area, earplug should be provided.	Noise level is being regularly monitored and is below 75 Leq. Personal protective equipment like earplugs and earmuffs have been provided to people working in noise prone areas. Please refer Annexure–VIII for the monitoring report from (October 2025 to March 2026)
xv	A greenbelt should be developed around the power plant periphery and ash pond area, covering an area of 75 acres. Tree density of 1500 – 2000 trees per ha should be maintained. Greenbelt development plan should be submitted to the Ministry.	Extensive tree plantation is being carried out in all open spaces available in and around the plant premises. Approximately 77000 saplings have been planted around BALCO's premises including ash dykes, township and plant premises during FY 2025-26. Please refer Annexure–IX for details on green belt development.
xvi	Regular monitoring of the air quality should be carried out in and around the power plant and records be maintained. Periodic six	Air quality monitoring is regularly carried out. Please refer Annexure–X for the monitoring report from (October 2025 to March 2026).

	monthly reports should be submitted to this Ministry.	
xvii	For controlling fugitive dust, regular sprinkling of water in vulnerable areas of the plant should be ensured.	Dust extraction equipment and water sprinklers have been provided for controlling fugitive dust. Wheel wash systems have been installed at entry and exit gate of Power Plant.
xviii	Recommendations of the Chhattisgarh State Bio-diversity Strategy and Action plan (CBSAP) be implemented and the conservation plan for likely habitat of migratory Elephants from Orissa be prepared in consultation with state wildlife Dept.	We have already requested the Chief Conservator of Forest (Wildlife) to ensure BALCO's participation as per Chhattisgarh State Bio-diversity Strategy and Action plan (CBSAP). Please Refer Annexure–XI . Also, Wildlife conservation plan has been prepared and approved by PCCF Wildlife for BALCO. For the implementation of the Wildlife Conservation/ Management Plan, INR 1.53 Cr. has been deposited with the Forest Department for the mitigative measures as approved in the Wildlife Conservation/Management Plan. The copy of the letter from DFO in this regard is attached as Annexure-XII .
xix	All other mitigative measures shall be taken as enumerated in chapter 3 of the EIA report.	All mitigative measures taken as enumerated in the EIA report.
xx	The project proponent should advertise at least in two local newspapers widely circulated in the region around the project, one of which should be in the vernacular language of locality concerned informing that the project has been accorded environmental clearance and copies of clearance letters are available with the state pollution Control Board/Committee and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in	Complied with. We had advertised in three newspapers. Please Refer Annexure–XIII .
xxi	A separate environment monitoring cell with suitable qualified staff should be set up for implementation of the stipulated environmental safeguards.	A separate environment-monitoring cell with suitably qualified professionals under a senior level executive is in place.
xxii	Half yearly report on the state of implementation of the stipulated conditions and environmental safeguards should be submitted to this Ministry/Regional Officer/CPCB/SPCB.	We are complying with this condition. Last report was submitted vide letter no: BALCO/ENV/A - 02(A)/2025/490 dated 16 th October 2025.
xxiii	Regional officer of the Ministry of Environment and Forests located at Bhopal will monitor the implementation of the stipulated conditions. Complete set of Environmental Impact Assessment Report and Environment Management plan should	Complete set of Environmental Impact Assessment Report and Environment Management plan has been submitted to the Regional Officer of MoEF along with the consent to establish.

	be forwarded to the Regional Officer for their use during monitoring.	
xxiv	Separate funds should be allocated for implementation of environmental protection measures along with item-wise break-up. These costs should be included as part of the project cost. The funds earmarked for environmental protection measures should not be diverted for other purposes and year-wise expenditure should be reported to the Ministry.	Separate funds are allocated for the implementation of environmental protection measures. The expenses incurred in environmental protection measures have been mentioned in Environment Statement and it is submitted to ministry every year.
xxv	Full cooperation should be extended to the Scientists/Officers from the Ministry/Regional Officer of the Ministry at Bhopal/the CPCB/the SPCB who would be monitoring the compliance of environmental status.	Full cooperation is extended to the Scientists/Officers from the Ministry/Regional Officer of the Ministry at Bhopal/the CPCB/the SPCB monitoring the compliance of environmental status.
4	The Ministry reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the Ministry.	Noted.
5	The environmental clearance accorded shall be valid for a period of 5 years for construction/operation of the power plant in case, if the project authorities fail to do so within this stipulated period, this environmental clearance shall stand lapsed automatically.	Noted.
6	In case of any deviation or alteration in the project proposed from those submitted to this Ministry of clearance, a fresh reference should be made to the Ministry to assess the adequacy of the condition(s) imposed and to add additional environmental protection measures required, if any.	Noted.
7	The above stipulations would be enforced among others under the water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the Public Liability insurance Act, 1991 and its amendments, the Environment Impact Assessment Notification of January, 1994 and its amendments.	Noted.

Compliance status of Office Memorandum F.No.22-13/2019-IA.III MoEF&CC dated 28th August 2019.		
S. No	Condition	Status
i	The guidelines prepared by CPCB for the disposal of fly Ash for reclamation of low lying areas and in stowing /backfilling of abandoned mines/quarries shall be followed during disposal of ash in abandoned or working mines, as annexed.	The guidelines prepared by CPCB are being followed while disposal of fly ash for backfilling of abandoned mines/ quarries. Due permission is sought from Chhattisgarh Environment Conservation Board (CECB) and Regional Office for backfilling of abandoned mines.
ii	There should at least be clearance of 500 m of safe distance be maintained from River and water body in case of ash disposal in abandoned mines to prevent embankment failure and fly ash flowing into the nearby water body.	Noted and Complied.
iii	The top layer of the fly ash disposal area in the abandoned mines shall be kept moist during disposal.	Noted and Complied.
iv	Top layer of disposal area should have 70 cm overburden or Gravels/stones and then 30 cm sweet soil cover. Subsequently, the vegetation shall be raised on the soil cover.	Noted and Complied.
v	Bioaccumulation and bio-magnification tests shall be conducted around the surrounding flora and fauna (tree leaves, vegetation, crop yields and cattle population) during pre-monsoon and post monsoon to find out any trace metals escaped through ground water or runoff.	Noted.
vi	Surface runoff and supernatant water, in any case shall not be let in to the surrounding areas. It shall be collected by providing adequate drains around the mine. The supernatant water along with surface runoff shall be treated and re-used for mixing ash and plant operations.	The surface run-off and supernatant water is being collected and recycled/ reused.

vii	To the extent possible, only decanted water from mine, make up water from treated effluents such as cooling tower blow down and treated sewage water shall be used for making ash slurry.	The water from treated effluent such as cooling tower blowdown is utilized for slurry making.
Viii	Fly ash to be used as soil conditioner in agriculture needs and to be applied in controlled manner to limit excessive application so as to prevent soil degradation. The optimize proportion of ash to be applied which is to be certified by the State Agriculture Universities /Collages based on the soil testing.	Presently, fly ash is not used as soil conditioner in agricultural needs.
ix	Approval from DGMS shall be obtained before disposing the ash in the mine voids.	Complied.
x	Technology for conversion of fly ash into coarse granules for stowing in the underground mines to be explored.	Presently, fly ash is being sent to Sustainable avenues like Cement manufacturing, Brick manufacturing, Road construction/NHAI, Mine void filling etc., Technology for conversion of fly ash into coarse granules will be explored if needed in future as demand for stowing in the underground mines arises.
xi	All the power plants should install different silos for dry collection of fly ash.	We have installed separate silos for dry collection of fly ash and the same are utilized for utilization of fly ash in cement and brick plants.
Xii	Records pertaining to details of month wise quantity of fly ash disposed and water consumption along with nature /source of water shall be maintained and submitted to Ministry /Regional Office annually.	Monthly details of quantity of fly ash disposed in mines is submitted to Regional Office-CECB and with half yearly compliance report to IRO-MOEF&CC. Also, Specific Water consumption is being reported to Ministry /Regional Office quarterly basis. Copies of report are attached herewith as Annexure-XIV .
xiii	Before starting the disposal of ash into mine voids, the NOC/permission from the mine owner is to be obtained in case the mine closure activities are not completed or State Government in case the mine has been handed over to the State Govt. after its closure. A copy of such NOC/Permission is to be submitted to the Ministry and its Regional Offices.	No fly ash has been sent for mine void filling between October 2025 to March 2026.

Compliance status of MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE NOTIFICATION dated 21st May 2020		
S. No	Condition	Status
i	Setting Up Technology Solution for emission norms: Compliance of specified emission norms for Particulate Matter, as per extant notifications and instructions of Central Pollution Control Board, issued from time to time.	Hybrid Electrostatic precipitator (ESP followed with bag filters) with efficiency of 99.99% has been provided for ensuring emission level below the norms i.e. 50 mg/Nm ³ .

ii	Management of Ash Ponds: The thermal powers plants shall comply with conditions, as notified in the Fly Ash notification issued from time to time, without being entitled to additional capacity of fly ash pond (for existing power generation capacity) on ground of switching from washed coal to unwashed coal.	We are complying with the conditions as notified in the Fly Ash notification. Presently, fly ash is being sent to Sustainable avenues like Cement manufacturing, Brick manufacturing, Road construction/NHAI, Mine void filling etc.
iii	Management of Ash Ponds: Appropriate Technology solutions shall be applied to optimise water consumption for Ash management;	HCSD system has been adopted to optimize water consumption for ash management. Please refer to Annexure-III. Further decanted water from ash pond is recycled back for ash slurry making. Additionally treated water from power plant is also being used for ash slurry making. This ensures water consumption at optimum level.
iv	Management of Ash Ponds: The segregation of ash may be done at the Electro-Static Precipitator stage, if required, based on site specific conditions, to ensure maximum utilization of fly ash;	Separate dry ash collection is in place for collection of fly ash. The dry ash is provided to cement plants, brick manufacturers through these silos itself.
v	Management of Ash Ponds: The thermal power plants to dispose fly ash in abandoned or working mines (to be facilitated by mine owner) with environmental safeguards.	No fly ash has been sent for mine void filling between October 2025 to March 2026.
vi	Transportation: Coal transportation may be undertaken by covered Railway wagon (railway wagons covered by tarpaulin or other means) and/or covered conveyer beyond the mine area. However, till such time enabling Rail transport/conveyer infrastructure is not available, road transportation may be undertaken in trucks, covered by tarpaulin or other means.	Mode of transportation of coal is rail and road with mitigative measures. a. For the transportation of coal by railway it may be noted that it contains 10% to 15% moisture in dry season. As a result, there is no chance of particulate matter getting airborne - or spillage during transportation. b. For the transportation of coal by road, the coal is received in tarpaulin-covered trucks. We are complying with the office order dated 26.06.2024 given by CECB regarding transportation of materials using tarpaulin covered trucks (Annexure-XV).
vii	Transportation: It shall be ensured by the thermal power plant that a. Rail siding facility or conveyor facility is set up at or near the power plant, for transportation by rail or conveyor; and b. If transportation by rail or conveyor facility is not available, ensure that the coal is transported out from the Delivery Point of the respective mine in covered trucks (By tarpaulin or other means), or any mechanized closed trucks by road.	The plant receives coal through rail and road. a. For the transportation of coal by railways, railway siding facility has been set up inside the plant premises for unloading of coal. b. For the transportation of coal through road, the coal is received in tarpaulin-covered trucks.