



El: - 22/Raigarh/23

Date: - 13/04 /2023

CHHATTISGARH ENVIRONMENT CONSERVATION BOARD
Paryavas Bhawan, North Block, Sector - 19,
Nava Raipur Atal Nagar, District - Raipur (C.G.)
e-mail - hocecb@gmail.com

No. **186** /TS/CECB/2023 Nava Raipur Atal Nagar, Raipur Dated **13/04 /2023**
To,

M/s Hindalco Industries Limited,
Gare Palma IV/4,
Village-Banjikhola and Bankheta,
Tehsil-Tamnar,
District-Raigarh (C.G.)

Sub.: - Grant of "Consent to Establish cum Consent to Operate" for increase in open cast and decrease in underground coal production without change in total production capacity of mine - 1.0 MTPA under section 25 of the Water (Prevention and Control of Pollution) Act, 1974 and under Section 21 of the Air (Prevention and Control of Pollution) Act, 1981.

- Ref.: - 1. Amendment of Environmental Clearance issued by Ministry of Environment, Forests and Climate Change (Impact Assessment Division), Government of India vide letter no. F.No. J-11015/183/2010-IA-II.(M), dated: 03/04/2023 for Gare Palma IV/4 Coal Block of Capacity 1.0 MTPA {Opencast 0.56 MTPA to 0.84 MTPA (Increase by 0.28 MTPA) & Underground 0.44 MTPA to 0.16 MTPA (Decrease by 0.28 MTPA)} with reduction in mine lease area from 701.512, i.e. 683.272 ha by M/s Hindalco Industries Limited.
2. Your online application No. 12135214, dated: 07/03/2023 and subsequent corresponding ending dated: 13/03/2023.

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With reference to your above application, consents under section 25 of the Water (Prevention and Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention and Control of Pollution) Act, 1981 are hereby granted for period **upto 31/03/2024 from the date of issue of this consent** of the mine, subject to the fulfillment of the terms and conditions annexed hereto as **PART 'A' & 'B'** respectively.

These consents are valid for following products & production capacity :-

Product	Production Capacity
Open Cast Coal Mining	0.84 Million Tonnes per Annum (Zero Point Eight Four Million Tonnes per Annum)
Underground Coal Mining	0.16 Million Tonnes per Annum (Zero Point One Six Million Tonnes per Annum)
Total - 1.0 Million Tonnes per Annum	

Note: - The above production capacity inclusive of existing production capacity of Mining of Coal – 1.0 Million Tonne/Annum for which amendment in consent was granted under section 25 of the Water (Prevention and Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention and Control of Pollution) Act, 1981 vide letter no. 7894/TS/CECB/2019, Raipur, dated: 06/12/2019. The consent issued vide letter no. vide letter no. 7894/TS/CECB/2019, Raipur, dated: 06/12/2019 and subsequent renewals shall be treated as cancelled from the date of issue of this consent.

Please acknowledge the receipt of this letter.

For & on behalf of
Chhattisgarh Environment Conservation Board

Sd/-
Member Secretary
Chhattisgarh Environment Conservation Board
Nava Raipur Atal Nagar, Raipur (C.G.)

Endt. No. **187** /TS/CECB/2023 Nava Raipur Atal Nagar, Raipur Dated **13/04 /2023**

Copy to: -

Regional Officer, Regional Office, Chhattisgarh Environment Conservation Board, Raigarh (C.G.). Please ensure compliance and report, if any condition/conditions are violated by the Mine management.

Sd/-
Member Secretary
Chhattisgarh Environment Conservation Board
Nava Raipur Atal Nagar, Raipur (C.G.)

PART-A

CONSENT LETTER

Sub: Grant of “Consent to Establish cum Consent to Operate” for increase in open cast and decrease in underground coal production without change in total production capacity of mine - 1.0 MTPA under section 25 of the Water (Prevention and Control of Pollution) Act, 1974 and under Section 21 of the Air (Prevention and Control of Pollution) Act, 1981.

Ref: Online application No. 12135214, dated: 07/03/2023 and subsequent corresponding ending dated: 13/03/2023 **M/s Hindalco Industries Limited**.

1. With reference to the above application for consent to discharge effluent into the natural water courses under the Water (Prevention & Control of Pollution) Act, 1974, here-in-after referred to as the Act **M/s Hindalco Industries Limited** is authorized by the State Board to discharge its industrial and other effluents arising out of their premises into the local stream/river/well in accordance with the general and special conditions as mentioned in the Annexure.
2. This consent shall be valid for period upto 31/03/2024 from the date of issue of this consent of the mine.

This consent is valid for following products & production capacity: -

Product	Production Capacity
Open Cast Coal Mining	0.84 Million Tonnes per Annum (Zero Point Eight Four Million Tonnes per Annum)
Underground Coal Mining	0.16 Million Tonnes per Annum (Zero Point One Six Million Tonnes per Annum)
Total - 1.0 Million Tonnes per Annum	

Note: - The above production capacity inclusive of existing production capacity of Mining of Coal – 1.0 Million Tonne/Annum for which amendment in consent was granted under section 25 of the Water (Prevention and Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention and Control of Pollution) Act, 1981 vide letter no. 7894/TS/CECB/2019, Raipur, dated: 06/12/2019. The consent issued vide letter no. vide letter no. 7894/TS/CECB/2019, Raipur, dated: 06/12/2019 and subsequent renewals shall be treated as cancelled from the date of issue of this consent.

For & on behalf of
Chhattisgarh Environment Conservation Board

Sd/-
Member Secretary
Chhattisgarh Environment Conservation Board
Nava Raipur Atal Nagar, Raipur (C.G.)

Seal
Enclosure: Annexure

(I)
ANNEXURE

M/s Hindalco Industries Limited

Location of Factory: Gare Palma IV/4, Village-Banjikhoh and Bankheta,
Tehsil-Tamnar, District-Raigarh (C.G.)

Vide consent no. 22/EI/Raigarh/CECB/2023, Dt 13/04/2023.

A. GENERAL CONDITIONS: -

1. All discharges authorized shall be consistent with terms and conditions of this Consent Facility expansions, production increases or process Modifications which result in new or increased discharges of pollutants must be reported by submission of a new Consent, application or if such new, or increased discharge does not violate the effluent limitations specified in the Consent, by submission to the Board details of such new or increased discharges of pollutants in which case the consent may be modified to specify effluent limitations for any pollutants not identified and limited here in the discharge of any pollutant more frequently than or at a level in excess of that identified and authorized by the Consent shall constitute a violation of the terms and conditions of the Consent.
2. After notice and opportunity for the hearing, this consent may be modified, suspended or revoked by the Board in whole or in part during its term for cause including, but not limited to the following: -
 - (a) Violation of any terms and conditions of this Consent.
 - (b) Obtaining this Consent by misrepresentation or failure to disclose fully all relevant facts.
 - (c) A change in any condition that requires temporary or permanent reduction or elimination of the authorized discharge.
3. Notwithstanding para(2) above, if a toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established for a toxic pollutant which is present in the discharge authorized here in and such standard or prohibition is more stringent than any limitation upon such pollutant in this Consent the Consent shall be revised or modified in accordance with the toxic effluent standard or prohibition that the Board may consider and the applicant shall be so notified.
4. The applicant shall allow the staff of Chhattisgarh Environment Conservation Board and/or their authorized representative, upon the Presentation of credentials:

- (a) To enter upon the applicant's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this Consent.
 - (b) To have access to and copy at reasonable time any records required to be kept under the terms and conditions of this Consent.
 - (c) To inspect at reasonable time any monitoring equipment or monitoring method required in this Consent; or
 - (d) To sample at reasonable time any discharge of pollutants.
5. The applicant shall at all times maintain in good working order and operate as efficiently as possible all treatment or control facilities of system installed or used by him to achieve compliance with the terms and conditions of this Consent.
6. The issuance of this Consent does not convey any property rights in either real or personal property or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Central, State or local laws or regulation.
7. The Consent does not authorize or approve the construction of any physical structures or facilities or the undertaking of any work in any water course.
8. The specific effluent limitations and other pollution controls applicable to the discharge permitted here in are set forth below as specific conditions. Also set forth below are self-monitoring and reporting requirements. Unless otherwise specified, the applicant shall submit duplicate original copies of all reports to the Chhattisgarh Environment Conservation Board. Except for data determined to be confidential all such reports shall be available for public inspection at the office of the Chhattisgarh Environment Conservation Board. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provide for in section 42 of the Act.

B. SPECIAL CONDITIONS: -

1. Initial Effluent limitation during the period beginning on the effective date of this consent and lasting until one calendar year discharge from outfalls shall be limited and monitored by the applicant as specified below: -
- (a) The following shall be limited by the applicant as specified.

S.No.	Effluent Characteristics	Discharge Limitation				Monitoring Requirements	
		Average		Maximum		Frequency of Measurement	Type of Sample
		Mg/l	Kg/Day	Mg/l	Kg/Day		

Daily/Weekly/Monthly/Tri-monthly.

Grab/ 24 Hours Composite

In Addition to above discharge shall be limited and monitored as specified below:

S.No.	Effluent Characteristics	Discharge Limitation				Monitoring Requirements	
		Average		Maximum		Frequency of Measurement*	Type of Sample †
		Mg/l	Kg/Day	Mg/l	Kg/Day		

Daily/Weekly/Monthly/Tri-monthly.

Grab/ 24 Hours Composite

For the purpose of this sub-section, the daily average discharge is the total discharge by weight during the calendar month divided by the number of days in month the production or commercial facility was operating for the purpose of the sub-section the daily maximum discharge means the total discharge by weight during any calendar day.

(b) The pH shall not be less than 5.5 or greater than 9.0

2. Final effluent Limitation: - During the period beginning from 1st day of month of commissioning of the plant with expanded capacity and lasting until the date of expiration of this Consent, discharge from the outfalls shall be limited and monitored by the applicant as specified below:-

(a) The following shall be limited and monitored by the applicant as specified.

S. No.	Effluent Characteristics	Discharge Limitation				Monitoring Requirements	
		Average		Maximum		Frequency of Measurement*	Type of Sample †
		Mg/l	Kg/Day	Mg/l	Kg/Day		
1	B.O.D.	--	--	30	Monthly	24 hours Composite
2	C.O.D.	--	--	250		
3	S.S.	--	--	100		
	pH 5.5 to 9.0 Flow : Cum/Day (Industrial and Domestic)					Daily	Grab

* Daily/Weekly/Monthly/Tri-monthly.

† Grab/ 24 Hours Composite

Additional, outfalls shall be monitored as follows:

- (i) Flow, Temperature and Total solids: One per month
- (ii) Grab Samples Maximum discharge temperature above upstream receiving water shall be in accordance with the standard of ISI at 40°C.
- (iii) Uniform as per ISI 2490 at 40°C.

The temperature shall be monitored once per month of each outfall. For the purpose of the sub-section the daily average is the total discharge by weight during calendar month divided by the number of days in month that the production or commercial facility was operating for the purpose of this sub-section, the daily maximum discharge means the total discharge by weight during any calendar day.

- (b) The pH shall not be less than 5.5 or greater than 9.0 for outfalls. The samples are taken as monthly, grab samples.

3. Schedule of Compliance for effluent Limitation:-The applicant shall achieve compliance with the effluent limitation: specified above for discharge from outfalls in accordance with the following schedule:

- (i) Report of Progress : Monthly
- (ii) Completion of final plans by
- (iii) Award of contract of other commitment of financing
- (iv) Commencement of construction by
- (v) Report of construction progress
- (vi) Completion of construction by
- (vii) Attainment of operational level by

(b) The applicant shall submit to the Consent issuing Authority the required report of progress or where a specific action is required in (a) above to be taken by a certain date a written notice of compliance or non-compliance with each of the above scheduled dates, post marked not later than 14 days following each elapsed date. Each notice of compliance shall include the following: -

- (1) A short description of the non-compliance.

- (2) A description of any action taken or proposed by the applicant to comply with the elapsed scheduled requirement without further delay.
- (3) An estimate of any factor which tend to explain or mitigate the non-compliance, and
- (4) An estimate of the date, the applicant will comply with the elapsed scheduled requirement and assessment of the possibility that the applicant will meet the next scheduled requirement time.

4. Compilation of monitoring Data

- (a) Samples and measurements taken to meet the monitoring requirements specified above shall be representative of the volume and nature of monitored discharge.
- (b) Following promulgation of guidelines establishing test procedures for the analysis of pollutants, all sampling and analytical methods used to meet monitoring requirements specified above shall conform to such guidelines. Unless otherwise specified sampling and analytical methods shall conform to the latest edition of the Indian Standard specifications and where it is not specified the guidelines as per standard methods for the examination of Water & Waste Water 13th Edition of the American Public Health Association, New York U.S.A. shall be used.
- (c) The applicant shall take samples and measurement to meet the monthly requirements specified above at the location indicated below:

POINT OF SAMPLING

- (i) Outfalls of waste.
- (ii) 100 meters from point of confluence, down stream to river or lake.

5. Recording of Monitoring activities and Results:

- (a) The applicant shall make and maintain records of all information resulting from monitoring activities by this Consent.
- (b) The applicant shall record for each measurement of sample taken pursuant to the requirements of this Consent the following information:
 - (1) The date, exact place and time of sampling
 - (2) The dates on which analysis was performed.
 - (3) Who performed the analysis?
 - (4) The analytical techniques or methods used and

- (5) The result of all required analysis.
- (c) If applicant monitors any pollutant more frequently as is required by this Consent he shall include the results of such monitoring in the calculation and reporting of values required in the discharge monitoring reports which may be prescribed by the Board, such increased frequency shall be indicated on the Discharge Monitoring Report form.
- (d) The applicant shall retain for a minimum of 3 years all records of monitoring activities and result including all records of calibration and maintenance of instrumentation and original strip chart regarding continuous monitoring instrumentation. The period of retention shall be the extent during the course of any unresolved litigation regarding the discharge of pollutants by the applicant or when requested by the Central or State Board.
6. Reporting of Monitoring Results:
- (a) Monitoring information required by this Consent shall be summarized and reported by submitting a Discharge Monitoring Report form duly filled in and signed, to the Board's office at the following address:
CHHATTISGARH ENVIRONMENT CONSERVATION BOARD
Paryavas Bhawan, North Block, Sector - 19,
Nava Raipur Atal Nagar, District - Raipur (C.G.)
- (b) Each submitted Discharge Monitoring Report shall be signed as follows:
- (i) If submitted by Corporation by a Principal Executive Officer of at least the level of Vice-President or his duly authorized representative, if such representative is responsible for the overall operation of the facility from which the discharge described in the discharge Monitoring Report originates,
- (ii) If submitted by a partnership firm, by a general partner.
- (iii) If submitted by a sole proprietor, the proprietor,
- (iv) If submitted by a Municipal, State or Central Government or other public enterprises, by a Principal Executive Officer, ranking elected official commanding officer, or other duly authorized employee.
- (c) All information submitted on the Discharge Monitoring Form shall be based upon measurements and sampling carried out during the three previous calendar months. The first Discharge Monitoring Report shall be submitted for a period ending 60 days from issuance. Thereafter reporting period shall end on the last date of each month. The applicant shall submit a Discharge Monitoring Report post marked no later than 28th day of the month following each completed reporting period.
7. Limitation of Discharge of Oil Hazardous Substance in harmful quantities: The applicant shall not discharge oil in quantities defined

as harmful in regulations. In addition the applicant shall not discharge hazardous substance into natural water course in quantities defined as harmful in regulations promulgated by the Board. Nothing in this Consent shall be deemed to preclude the institution of any legal action nor relieve the applicant from any responsibilities, liabilities, or penalties to which the applicant is or may be subject to clauses.

8. Limitation of visible Floating Solids and Foam: During the period beginning date of issuance and lasting until the date of expiration of this Consent the applicant shall not discharge floating solids or visible foam.
9. Disposal of Collected Solids:
 - a) Intake Water Treatment: Solid Sludge's, dirt, silt or other pollutant separated from or resulting from treatment of intake or supply waters prior to use by the applicant shall be disposed off in such a manner as to prevent any pollutant from such materials from entering any such water Any live fish or other animals collected or trapped as a result of intake water screening or treatment may be returned to water,
 - b) Waste water Treatment, Solid sludge's, filter backwash or other pollutant removed from or resulting from treatment or control of waste water shall be disposed of in such a manner as to prevent any pollutants from such materials from entering natural water.
10. Non-compliance with Effluent Limitations:
 - (a) If for any reason the applicant does not comply with or will be unable to comply with or will be unable to comply with any daily maximum effluent limitations specified in this Consent the applicant shall immediately notify the Consent issuing authority or his designee by telephone No. 0771-2443923/2443934 and provide the Consent issuing Authority with the following information in writing within 5 days of such notification:
 - i) Cause of non-compliance.
 - ii) A description of the non-complying discharge including its impact upon the receiving water.
 - iii) Anticipated time, of non compliance is expected to continue or if such condition has been corrected, the duration of non-compliance.
 - iv) Steps taken by the applicant to reduce and eliminate the non-complying discharge and;
 - v) Steps to be taken by the applicant to prevent recurrence of conditions of non compliance.
 - (b) The applicant shall take all responsible steps to minimize any adverse impact to natural waters resulting from non-compliance with any effluent limitation specified in this

Consent including such accelerated or additional monitoring as necessary to determine the nature and impact of the non-complying discharge.

- (c) Nothing in this Consent shall be construed to relieve the applicant from civil or criminal penalties for non-compliance, whether or not such non-compliance is due to factors beyond his control such as equipment break down electric power failure, accident or natural disaster.

Limitation of Batch Discharge.

SPECIAL CONDITIONS

- 11. Provision for Electric Power Failure: The applicant shall either-
 - (a) No later than certify in writing to the consent issuing authority that applicant has installed or provided for an alternative electric power source sufficient to operate all facilities utilized by the applicant to maintain compliance with the terms and conditions of the Consent or.
 - (b) No later than 30 days after the effective date of his Consent, certify in writing to the consent issuing authority that upon the reduction, loss, or failure of one or more of the primary sources of electric power to any facilities utilized by the applicant to maintain compliance with the terms and conditions of his consent, the applicant shall halt, reduce or otherwise Control production and/or all discharges in order to maintain compliance with the terms & conditions of this Consent.

- 12. Prohibition of By pass of Treatment Facilities: The diversion or by-pass of any discharge from facility utilized by the applicant to maintain compliance with the terms and conditions of this Consent is prohibited except:
 - (i) Where unavoidable to prevent loss of life severe property damage, or
 - (ii) Where excessive storm drainage or run off would damage any facilities necessary for compliance with the terms and conditions of this Consent. The applicant shall immediately notify the consent issuing authorities in writing of each such diversion or by-pass in accordance with the procedure specified above for reporting non-compliance.

- 13. Spill Prevention and Containment Plan: Within 90 days of the effective date of the Consent the applicant shall prepare and submit to the consent issuing authority; a Spill Prevention; Containment and Countermeasure Plan for the facility covered by this Consent. Such plan shall include the following information and procedures relating to the prevention of spills and unauthorized discharges or oil and hazardous substances;
 - (a) A description of a reporting system to be used to notify immediately persons responsible for management of a facility and appropriate State and Central authorities;

- (b) A description of equipment or facilities (including overall facility) for the prevention, containment of spills and unauthorized discharge;
- (c) A list of all oil and hazardous materials used processed or stored at the facility including the normal quantity maintained on the premises for each listed material;
- (d) A brief description of any spills or unauthorized discharge which occurred during the 36 months period preceding the effective date of this Consent and subsequent measures taken by the applicant or reduce the possibility of further spills or unauthorized discharges; and.
- (e) An implementation schedule for additional equipment or facilities which might be required for sub para (b) above but which are not yet operational.

SPECIAL CONDITIONS

1. The mine management shall comply with all the terms and conditions of Environmental Clearance issued by Ministry of Environment, Forests and Climate Change (Impact Assessment Division), Government of India vide letter no. F.No. J-11015/183/2010-IA-II.(M), dated: 03/04/2023.
2. The total mining lease area shall not exceed 683.272 hectares.
3. Mine Management shall comply with all the recommendation of Carrying Capacity Study as per NGT order dated 15/02/2022 in Original Application No. 104/2018 in the matter of Shivpal Bhagat & Ors vs UIO.
4. Mine Management shall ensure Coal transportation by rail or closed conveyor belt only. Coal transportation is permitted for one year through road as per NGT order dated 15/02/2022 in Original Application No. 104/2018 in the matter of Shivpal Bhagat & Ors vs UIO.
5. Mine Management shall transport the coal through mechanically covered vehicles on or before 12/07/2023. Mean while transportation of coal shall be carried out through vehicles safely and securely covered with tarpaulin or any other suitable materials.
6. Mine Management shall submit the renewal of CGWA NOC in order to smooth continuation of Mines within six months.
7. Mine Management shall install separate digital meter for measurement of ground & surface water used.
8. Mine Management shall ensure maximum reuse of non-potable water.
9. Mine management shall provide water digital metering arrangement for the measurement of water utilized and effluent generated.
10. Mine management shall comply the provisions of notification dated 31/12/2021(As amended up to date) issued by MoEF & CC regarding utilization of fly ash in mixing with over burden back filling of mine.
11. Mine management shall have to comply that when coal is sold to TPP there is the agreement to sell that at least 25% fly ash of the coal sold, should be accepted by the coal company (seller) from TPP (Purchaser) failing which coal company shall be liable for civil action and other legal measures as per NGT order dated 15/02/2022 in Original Application No. 104/2018 in the matter of Shivpal Bhagat & Ors vs UIO.
12. Mine management shall construct coal sludge settling tank with garland drain and wind breaking screen all around coal stack yard and workshop area.
13. Mine management shall ensure the continuous, proper and efficient working of effluent treatment plant, sewage treatment plant, and other facilities for industrial and domestic effluent generated due to mining activities. Mine management shall ensure that the treated effluent quality meet the standards prescribed by Board published in Gazette Notification dated 25/03/88. Mine management shall ensure proper arrangement of suitable drains/pipe networks to ensure adequate flow for full utilization of treated effluent generated inside the premises due to proposed expansion.

Treated effluent shall be utilized either in process or for land application as far as possible. No effluent shall be discharged outside of the mine premises in any circumstance. Chhattisgarh Environment Conservation Board may further stipulate stringent limit depending upon environmental conditions.

14. Mine management shall provide suitable arrangement of drains/pipe networks to ensure adequate flow for utilization of treated effluent inside the mining lease area. The mine discharge water/domestic effluent after proper treatment shall be utilized in plantation, dust suppression, sprinkling on roads or other useful purposes.
15. Mine Management shall install effluent quality monitoring system at outlet of ETP within six months. Calibration and data validation shall be carried out off all EQMS and availability of real time data shall be ensured in CECB sever.
16. All the solid waste industrial and domestic shall be disposed off in environment friendly manner as per rule.
17. All the internal roads shall be maintained pucca. Roads shall be cleaned regularly. Dust, muck and sludge collected from roads shall be disposed properly.
18. Mine Management shall provide safe and scientific arrangement for handling, collection, storage, transportation and disposal of all solid wastes and over burden etc. Mine management shall obtain letter of authorization under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 from the Board. Appropriate arrangement shall be provided as per law for collection/treatment/storage/ transportation/ disposal of hazardous wastes. Mine management shall comply with rule.
19. No village road shall be used for transportation of coal and no road transport route shall be adopted, which is passing through any sensitive location such as schools, hospitals etc. Mine Management shall take legal undertaking from its consumers accordingly.
20. Mine Management shall ensure that the blasting and other mining operations shall not cause any damages to nearby settlements. Controlled blasting shall be practiced. The mitigation measures for control of ground vibrations and to arrest fly rocks and boulders shall be implemented. Industry shall take due precaution and appropriate measures to arrest and minimize vibration and noise effects during mining activities.
21. All the slope of external dumps shall be maintained at a maximum of 28 degrees. Top soil shall be stacked properly in a dump with proper slope at earmarked site(s) with adequate measures and should be used for reclamation and rehabilitation of mined out area and for green belt development.
22. External over burden should be stacked at earmarked dump site(s) only and should not be kept active for long period. Monitoring of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status should be submitted on yearly basis.
23. Regular monitoring of ground water level and quality shall be carried out by establishing a network of existing wells and constructing new piezometers

at suitable locations at the proponent's cost in and around mine area. Regular monitoring of surface and ground water quality shall be carried out by establishing a network of stations at suitable locations in mine area/adjacent to mine area. The frequency of monitoring (quality and quantity) shall be four times a year - pre-monsoon (April/May), monsoon (August), post-monsoon (November) and winter (January) seasons. Data generated from groundwater regime monitoring will be submitted to Board on an annual basis.

24. Extensive tree plantation with local plant species in and around mine lease area, coal handling plant, roads, over burden dump sites etc. and in the open areas available within the premises shall be carried out. Adequate wide green belt of broad leaf local plant species shall be developed along the mine lease area especially towards residential area/villages. At least 2500 plants species per hectare shall be planted. Mine management shall develop Sal nursery with the minimum plant capacity of 25,000 within 5 ha of project area. Further, Sal tree shall be planted as much as possible while reclaiming during mine closure activity. Mine management shall abide by the decisions taken by Ministry of Environment and Forests, Government of India / Central Pollution Control Board/ State Government /Chhattisgarh Environment Conservation Board from time to time in this regard.
25. Mine management shall construct rain water harvesting structure for recharge of ground water. Mine management shall develop roof water and rainwater harvesting structures to harvest the rain water for utilization in the lean season as well as to recharge the ground water table before onset of monsoon.
26. Mine management shall use fly ash brick, fly ash block and fly ash based products in the construction/repairing activities. Mine management shall also use fly ash/bottom ash for filling low lying areas within premises and mined out areas.
27. Mine Management shall establish an environmental management cell to carryout function relating to environmental management under the supervision of senior executive who will directly report to the head of organization.
28. Necessary fund shall be provided for implementation above conditions for environmental safeguards. The funds earmarked for environmental protection measures shall be kept in separate account and not diverted for any other purpose.
29. Mine management shall obtain statutory clearances/licenses from concerned Central/State Government Departments, Boards, Bodies and Corporations etc. Mine management shall follow direction issued by Central/ State Government, Central Pollution Control Board/Chhattisgarh Environment Conservation Board from time to time regarding control of water & air pollution and for environmental conservation.
30. The issuance of 'Consent to Establish cum Consent to Operate' does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Central, State or local laws or regulations.

31. Any change in product, production/mining capacity, process, raw materials used, project profile (mining technology and scope of working) etc. shall be intimated to the Board and prior permission of the Board shall be obtained for the same.
32. Board may amend/cancel any of the conditions and add new conditions to be incorporated in the permission to establish and consent to operate and further stringent the emission/effluent limit as and when deemed necessary in the interest of environmental protection, change in the project profile or non-satisfactory implementation of the stipulated conditions etc.

This consent is valid for the stated period and has to be renewed every year. Online application with annual license fee in this regard shall reach the office 02 months before the expiry of this consent.

For & on behalf of
Chhattisgarh Environment Conservation Board

sd/-
Member Secretary
Chhattisgarh Environment Conservation Board
Nava Raipur Atal Nagar, Raipur (C.G.)

Part-B

CONSENT LETTER

Sub: Grant of “Consent to Establish cum Consent to Operate” for increase in open cast and decrease in underground coal production without change in total production capacity of mine - 1.0 MTPA under section 25 of the Water (Prevention and Control of Pollution) Act, 1974 and under Section 21 of the Air (Prevention and Control of Pollution) Act, 1981.

Ref: Online application No. 12135214, dated: 07/03/2023 and subsequent corresponding ending dated: 13/03/2023 **M/s Hindalco Industries Limited.**

With reference to the above application, consent under the Air (Prevention & Control of Pollution) Act, 1981 to **M/s Hindalco Industries Limited** is hereby granted by the State Board in accordance with the terms and conditions as mentioned below.

This consent shall be valid for period upto 31/03/2024 from the date of issue of this consent of the mine.

This consent is valid for following products & production capacity : -

Product	Production Capacity
Open Cast Coal Mining	0.84 Million Tonnes per Annum (Zero Point Eight Four Million Tonnes per Annum)
Underground Coal Mining	0.16 Million Tonnes per Annum (Zero Point One Six Million Tonnes per Annum)
Total - 1.0 Million Tonnes per Annum	

Note: - The above production capacity inclusive of existing production capacity of Mining of Coal – 1.0 Million Tonne/Annum for which amendment in consent was granted under section 25 of the Water (Prevention and Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention and Control of Pollution) Act, 1981 vide letter no. 7894/TS/CECB/2019, Raipur, dated: 06/12/2019. The consent issued vide letter no. vide letter no. 7894/TS/CECB/2019, Raipur, dated: 06/12/2019 and subsequent renewals shall be treated as cancelled from the date of issue of this consent.

Terms & Conditions: -

1. The mine management shall comply with all the terms and conditions of Environmental Clearance issued by Ministry of Environment, Forests and Climate Change (Impact Assessment Division), Government of India vide letter no. F.No. J-11015/183/2010-IA-II.(M), dated: 03/04/2023.
2. The total mining lease area shall not exceed 683.272 hectares.

3. Mine Management shall comply with all the recommendation of Carrying Capacity Study as per NGT order dated 15/02/2022 in Original Application No. 104/2018 in the matter of Shivpal Bhagat & Ors vs UIO.
4. Mine Management shall ensure Coal transportation by rail of closed conveyor belt only. Coal transportation is permitted for one year though road as per NGT order dated 15/02/2022 in Original Application No. 104/2018 in the matter of Shivpal Bhagat & Ors vs UIO.
5. Mine Management shall transport the coal through mechanically covered vehicles on or before 12/07/2023. Mean while transportation of coal shall be carried out through vehicles safely and securely covered with tarpaulin or any other suitable materials.
6. Mine Management shall install one CAAQMS in the core zone of mine lease area and the data to display on the website as well as on the main entry gate of the organization.
7. Celebration and data validation shall be carried out off all CAAQMS and availability of real time data shall be ensured in CECB sever.
8. Mine management shall provide fog canon and movable long range canon.
9. Effective steps shall be taken to avoid fugitive emissions during excavation, handling and transportation etc. of coal and other waste materials. Adequate water spraying arrangements such as sprinklers, fog cannon, water tankers etc shall be made during handling and transportation of coal and other waste materials on haul road.
10. Mine Management shall provide adequate air pollution control arrangement such as bag filter, water spraying arrangement at all point of emission. Emission of particulate matter from point sources shall not exceed 30 mg/Nm³. (if any) Effective steps shall also be taken to avoid fugitive emission during excavation, handling and transportation etc. of coal and other waste materials. All transfer points/junction points and conveying system shall be covered. Coal handling plant (if any) shall be provided with adequate number of high efficiency dust extraction or suppression system. Loading and unloading areas including all the transfer points/junction points shall also have efficient dust control arrangements. Adequate Control arrangements shall be provided to control fugitive emission during handling, transportation etc. activities. The coal shall not be transported in open vehicles to avoid dust emission. Adequate water Spraying arrangement on haul roads, loading point etc. shall be provided and properly maintained. Use of long range fogging machined and mechanized sweeping machine shall be insured.
11. Ambient air quality within the mine area shall not exceed the standards prescribed by the Board. Mine management shall ensure the concentration of pollutants in ambient air within standards prescribed for residential, rural areas in the nearby residential/rural areas. Mine management shall follow provisions of notification issued by Ministry of Environment & Forests, Government of India in this regard from time to time.
12. Mine Management shall establish ambient air quality monitoring stations in the core zone as well as buffer zone for PM₁₀, PM_{2.5}, NO_x and SO₂. Location and number of the ambient air quality stations shall be decided based on meteorological data, topographical features, environmentally and

ecologically sensitive targets and the frequency of monitoring shall be undertaken in consultation with the Board. Regular monitoring of air quality shall be carried out in and around the mine lease area and records be maintained.

13. All the internal roads shall be maintained pucca. Roads shall be cleaned regularly. Dust, muck and sludge collected from roads shall be disposed properly. Water spraying arrangements shall be made during transportation of coal and other waste materials on haul roads. Good house keeping practices shall be adopted by the management.
14. All the solid waste industrial and domestic shall be disposed off in environment friendly manner as per rule.
15. Mine Management shall provide safe and scientific arrangement for handling, collection, storage, transportation and disposal of all solid wastes and over burden etc. Mine management shall obtain letter of authorization under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 from the Board. Appropriate arrangement shall be provided as per law for collection/treatment/storage/ transportation/ disposal of hazardous wastes. Mine management shall comply with rule.
16. Mine management shall comply the provisions of notification dated 31/12/2021 (As amended up to date) issued by MoEF & CC regarding utilization of fly ash in mixing with over burden back filling of mine.
17. Mine management shall have to comply that when coal is sold to TPP there is the agreement to sell that at least 25% fly ash of the coal sold, should be accepted by the coal company (seller) from TPP (Purchaser) failing which coal company shall be liable for civil action and other legal measures as per NGT order dated 15/02/2022 in Original Application No. 104/2018 in the matter of Shivpal Bhagat & Ors vs UIO.
33. No village road shall be used for transportation of coal and no road transport route shall be adopted, which is passing through any sensitive location such as schools, hospitals etc. Mine Management shall take legal undertaking from its consumers accordingly.
18. Mine Management shall ensure that the blasting and other mining operations shall not cause any damages to nearby settlements. Controlled blasting shall be practiced. The mitigation measures for control of ground vibrations and to arrest fly rocks and boulders shall be implemented. Industry shall take due precaution and appropriate measures to arrest and minimize vibration and noise effects during mining activities.
19. Mine Management shall take due precaution and appropriate measures to arrest and minimize vibration and noise effects during mining activities. Mine management shall provide proper arrangement to control the noise pollution. Mine management shall install appropriate noise barriers/ control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation to control the noise. Workers engaged in blasting and drilling operations, operations of heavy earth moving machinery (HEMM) etc. shall be provided with ear plugs/muffs. The ambient noise level shall be maintained 75 dB (A) during day time and 70 dB (A) during night time within premises. Adequate measures shall be taken for control of noise levels below 85 dB (A) in the work environment.

Occupational exposure limit of noise specified by Director General of Mines Safety (DGMS) shall be complied.

20. All the slope of external dumps shall be maintained at a maximum of 28 degrees. Top soil shall be stacked properly in a dump with proper slope at earmarked site(s) with adequate measures and should be used for reclamation and rehabilitation of mined out area and for green belt development.
21. Extensive tree plantation with local plant species in and around mine lease area, coal handling plant, roads, over burden dump sites etc. and in the open areas available within the premises shall be carried out. Adequate wide green belt of broad leaf local plant species shall be developed along the mine lease area especially towards residential area/villages. At least 2500 plants species per hectare shall be planted. Mine management shall develop Sal nursery with the minimum plant capacity of 25,000 within 5 ha of project area. Further, Sal tree shall be planted as much as possible while reclaiming during mine closure activity. Mine management shall abide by the decisions taken by Ministry of Environment and Forests, Government of India / Central Pollution Control Board/ State Government /Chhattisgarh Environment Conservation Board from time to time in this regard.
22. Mine Management shall use fly ash brick, fly ash block and fly ash based products in the construction/repairing activities. Mine management shall also use fly ash/bottom ash for filling low lying areas within premises and mined out areas as per notification/guideline/direction of Ministry of Environment and Forests, Government of India/ Central Government/ Central Pollution Control Board/State Government/ Chhattisgarh Environment Conservation Board. Mine management shall ensure transportation of fly ash for back filling / beneficial uses by covered vehicles to prevent emission during transportation.
23. Mine Management shall establish an environmental management cell to carryout function relating to environmental management under the supervision of senior executive who will directly report to the head of organization.
24. Necessary fund shall be provided for implementation above conditions for environmental safeguards. The funds earmarked for environmental protection measures shall be kept in separate account and not diverted for any other purpose.
25. Mine Management shall obtain statutory clearances/licenses from concerned Central/State Government Departments, Boards, Bodies and Corporations etc. Mine management shall follow direction issued by Central/ State Government, Central Pollution Control Board/Chhattisgarh Environment Conservation Board from time to time regarding control of water & air pollution and for environmental conservation.

26. The issuance of 'Consent to Establish cum Consent to Operate' does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Central, State or local laws or regulations.
27. Any change in product, production/mining capacity, process, raw materials used, project profile (mining technology and scope of working) etc. shall be intimated to the Board and prior permission of the Board shall be obtained for the same.
28. Board may amend/cancel any of the conditions and add new conditions to be incorporated in the permission to establish and consent to operate and further stringent the emission/effluent limit as and when deemed necessary in the interest of environmental protection, change in the project profile or non-satisfactory implementation of the stipulated conditions etc.

This consent is valid for the stated period and has to be renewed every year. Online application with annual license fee in this regard shall reach the office 02 months before the expiry of this consent.

For & on behalf of
Chhattisgarh Environment Conservation Board

Sd/-
Member Secretary
Chhattisgarh Environment Conservation Board
Nava Raipur Atal Nagar, Raipur (C.G.)