

Ambuja Cement

ACL/GP-IV/8/EC(Mine)/2022-23/1044

Date: 28.07.2022

To,

**Regional Office, Western Region
Ministry of Environment, Forest & Climate Change
Kendriya Paryavaran Bhawan, Link Road No. 3
E-5, Ravi Shankar Nagar, Bhopal (M.P.)**

Sub: Submission of six monthly EC Compliance Report for the period of Jan 2022 to June 2022 w.r.t. Gare Palma IV/8 Coal Mine of Ambuja Cements Limited reg.

Ref: EC No J-11015/352/2006-IA.II(M) dated 22.12.2008
EC Corrigendum No J-11015/352/2006-IA.II(M) dated 26.10.2010
EC Transfer: J-11015/352/2006-IA.II(M) dated 10.06.2015

Dear Sir,

The MoEF&CC issued to Environmental Clearance for opencast mining 0.7 MTPA and underground mining 0.5 MTPA located in Gare Palma IV/8 coal mine on 22.12.2008 in name of M/s Jaiswal Neco Ltd. (prior allottee). Later on Environmental Clearance was transferred from M/s Jaiswal Neco Ltd. (prior allottee) to M/s Ambuja Cements Limited vide J-11015/352/2006-IA.II(M) dated 10.06.2015.

With reference to subject, enclosed herewith six monthly EC Compliance Report for the period of Jan 2022 to June 2022 w.r.t. Gare Palma IV/8 Coal Mine of Ambuja Cements Limited.

This is for your kind information please.

Thanking You

Yours Faithfully

For, **Ambuja Cements Limited**


**Sharanappa Kambalii
Authorized Signatory
(Coal Block- Gare Palma IV/8)**

Encl: Six monthly EC compliance report for coal mining.

Copy To:

1. The Central Pollution Control Board, Paryavaran Parisar, E-5, Arera Colony, Bhopal, (M.P.).
2. The Scientist "C", Integrated Regional Office, MOEF&CC, Aranya Bhawan, North Block, Sector-19, Atal Nagar, Raipur (C.G.)
3. The Member Secretary, CECB, Sector-19, Atal Nagar Raipur (C.G.).
4. The Regional Office, CECB, TV Tower Road, Raigarh (C.G.)

AMBUJA CEMENTS LIMITED

Gare Palma IV/8 Coal Mine

SITE OFFICE : Village - Karwahi, Post. - Saraitola, Tahsil - Tamnar, Dist. - Raigarh (C.G.) 496 107

www.ambujacement.com, E-mail : unit-head-garepalma@ambujacement.com

Regd. Off. : PO. Ambujanagar, Taluka - Kodinar, Dist. Gir Somnath, Gujrat

CIN : L26942GJ1981PLC004717

**HALF YEARLY
ENVIRONMENT CLEARANCE COMPLIANCE REPORT**

**For the Period of
Jan-2022 to June-2022**

BY

AMBUJA CEMENTS LTD.

**Village- Khamaria and Karwahi, Tehsil- Ghardhoda,
District- Raigarh, Chhattisgarh**

W.R.T.

**E.C. No. J-11015/76/2010-IA.II (M) dated: 10.06.2013
EC TRANSFER J-11015/76/2010-IA.II (M) dated: 01.04.2019
EC Extension J-11015/76/2010-IA.II (M) dated: 30.09.2020**

1.0 INTRODUCTION

Ministry of Coal, Govt. of India through Nominated Authority conducted 2nd phase of e-auction of coal blocks during February, 2015 in which Ambuja Cements Limited (ACL) emerged as a successful bidder for Gare Palma IV/8 Coal Block with an extractable reserves of 45.85 MT & approved Mixed (Both underground & opencast) Mine plan capacity of 1.2 MTPA was listed under schedule III of the Coal Mines (Special Provision) Act, 2015 earmarked for un-regulated sector. Subsequently Coal Mine Development & production agreement was signed between ACL and Nominated Authority on 16th March, 2015 followed by issuance of Vesting Order by Nominated Authority on 22nd April, 2015 & corrigendum no. 1 to the vesting order with co-ordinate dated 14th December, 2015. The mining lease execution and registration of the lease agreement has been completed for an area of 474.703 Ha on 31st December, 2015. We have got the **Bhu-Prabesh** on 06/06/2018

The development operations started in the open cast coal mine Gare Palma IV/8 (Scheduled coal production capacity 0.70 MTPA from opencast) since 2nd April, 2018, it has been intimated to the CECB – Naya Raipur vide our letter no. ACL/GP-IV*8/Coal Mine/CTO-Develop/CECB/Raipur/01, Date: 27/03/2018. We have obtained the Consent To Operate for Coal Production vide letter no. **5670/TS/CECB/ 2018** dated on 15/10/ 2018 from Chhattisgarh Environment Conservation Board. We have started the Coal Production from opencast mine from **22nd Oct' 2018**.

The Ministry of Environment, forest and climate change has transferred the EC of pit head captive wet coal washery of 1.8 MTPA in the area of 10.336 Ha located in Gare Palma IV/8 Coal mine to M/s Ambuja Cements Ltd on 1st April 2019.

Pit Head Wet Coal Washery EC has been extended for 3 years vide letter no. J-11015/76/2010-IA-II(M) dated 30.09.2020 by MoEF&CC.

However we have clear intention of putting up washery after obtaining Consent to Establish from CECB.

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Ravi Singh Tadaun
30. Officer Env.

2.0 POINT WISE COMPLIANCE REPORT FOR THE ENVIRONMENT CLEARANCE CONDITION

| S. No. | CONDITIONS | COMPLIANCE |
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| EC Validity Extension: J-11015/76/2010-IA.II (M) dated: 30.09.2020 | | |
| i | The project proponent shall obtain Consent to Establish/Operate from State Pollution Control Board for the proposed peak capacity of 1.8 MTPA (peak) prior to commencement of the production. | Agreed. We will obtain CTE and subsequently CTO from Chhattisgarh Environment Conservation Board. |
| ii | Permission for ground water withdrawal shall be obtained from Central Ground Water Authority (CGWA), if applicable. | Agreed. |
| iii | 100 % water requirement for washery shall be met with mine water. No other source shall be used for washery operation. | Agree to use only mine water for coal washery. |
| iv | The washing technology so chosen should confirm to "Zero Liquid Discharge" | Agreed. |
| v | Continuous monitoring of occupational safety and other health hazards, and the corrective actions needs to be ensured. | As per DGMS initial medical examination in form-O has been complied for all employees. Health check-up for occupational diseases from NIOH, shall be complied. We will also agree for coal washery. |
| vi | For proper baseline air quality assessment, adequate monitoring stations in the downwind areas based on wind rose pattern of the area, shall be set up for collection of air quality data and air quality modeling. | Will be complied after permission obtaining Consent to Establish & Operate. |
| vii | Disposal of washery rejects shall only be in proposed CPP of the project proponent. | Agreed. We are agree to use in CPP of cement or opt to sell for TPP around coal mine with permission of CCO/along with intimation to MoEF&CC, if permitted & follow the guidelines as per the reject & middling handling policy of MOC dated 27.05.2021. |
| viii | Thick green belt of 20 meters width to be provided around the washery to mitigate/check the dust developed along vacant areas, storage yards, loading/transfer points, and also along internal roads/main approach roads. | Agreed. |
| ix | All other conditions stipulated in the environmental clearance letter dated 10 th June 2013 and 1 st April 2019, shall also apply. | Agreed. |

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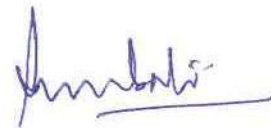
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| S. No. | CONDITIONS | COMPLIANCE |
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| TRANSFER OF ENVIRONMENT CLEARANCE J-11015/76/2010-IA.II (M) dated: 01.04.2019 | | |
| i | Any change in scope of work will attract provisions of the Environment (Protection) Act, 1986 and the EIA Notification, 2006 and subsequent amendments therein. | Agreed |
| ii | All conditions stipulated in the environment clearance dated June 10, 2013, shall remain unchanged. | Agreed |
| iii | The allottee shall be liable for any act of violation of the Environment (Protection) Act, 1986 and the EIA Notification, 2006, subsequent amendments and circulars which it has inherited during the revalidation/ transfer. | Agreed |
| iv | The allottee shall be liable for compliance of all court directions, if any. | Agreed |

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| A. Special conditions | | |
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| S. No. | Conditions | Compliance |
| (i) | As large numbers of existing and proposed neighbouring mines and industries in the area, the Cumulative Impact Assessment study of entire coal mining area should be carried out by proponent. | Agreed to conduct the comprehensive study once the OC reaches its full capacity and UG mine start production and before start of the washery. |
| (ii) | The entire water of the area is acidic due to presence of Pyrites. People use carbonate to increase alkalinity. Proponent shall take measures to reduce the acid in water. | Agreed, RCC sedimentation tank is constructed of size 40 m X 20 m X 3 m, on settling, water is treated through the RO plant and water of RO is used for dust suppression and plantation. |
| (iii) | Recharging of groundwater is required. | Total 3 nos. settling pond/ pond of size 120 m X 90 m X 4.5 m, 30 m X 25 m X 2 m, & 35 m X 25 m X 4.5 m 20 m X 10 m X 4.5 m, combined capacity is 55,912m ³ . The capacity of settling pond is adequate to arrest silt and sediment flows from soil of OB Dump. This will also help to recharge ground water. |
| (iv) | Schedule-I Fauna- Peacock, Sloth bear and Elephant reported in area. Proponent should contribute on proportionate basis in Wild Life Conservation Plan prepared by state Govt, for conservation of flora and fauna. | Rs 1.0 Cr was deposited by erstwhile allottee /prior allottee under CAMPA as per the wildlife management plan approved by CCF (WL) CG on 16/6/2012 If any additional plan is prepared by State government, we agree to contribute proportionately. |
| (v) | Thick green belt of 50 mts should be provided all around the plant area with native species as watery is polluting the area. | Agreed to comply upon completion of construction. |
| (vi) | The coal washery plant and area should be completely covered. | Agreed, covers as preferable as possible to prevent the airborne dust spreading. |
| (vii) | One season (non-monsoon) primary base-line data on Environment quality (PM10 & PM2.5) should be done. | Agreed, At present monitoring of Ambient Air Quality is being carried out by NABL accredited laboratory. CAAQMS has been installed within mine premises and connected to CECB server. |
| (viii) | All the internal roads within washery should be made of concrete. | Agreed. |
| (ix) | Electrical equipment should be dust proof and properly protected. | Agreed |
| (x) | Transportation of Coal to Bhupdeopur (60km) by road should be by mechanically covered trucks and later on by rail upto Raipur. | Ministry of Coal, Govt. of India through Nominated Authority conducted 2 nd phase of e-auction of coal blocks during February, 2015 in which Ambuja Cements Limited (ACL) emerged as a successful bidder for Gare Palma IV/8 Coal Block. Environment Clearance was transferred from prior allottee M/s Jaiswal Neco Industries to Ambuja Cements Limited vide EC Transfer letter: J-11015/76/2010-IA.II (M) dated: 01.04.2019. Now the coal is being transported to EUP of Ambuja Cements Limited through covered tarpaulin trucks. We have implemented cctv's |

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| | | cameras to comply the same. |
| (xi) | The transportation of coal from the coalmine/washery till Bhupdeopur railway siding will be by road until the railway siding comes in that area. Once the railway siding is established the entire transportation of coal will be done through railways from the mine head/washery. | Environment Clearance was transferred from prior allottee M/s Jaiswal Neco Industries to Ambuja Cements Limited vide EC Transfer letter: J-11015/76/2010-IA.II (M) dated: 01.04.2019. Now the coal is being transported to EUP of Ambuja Cements Limited through covered tarpaulin trucks. We have implemented cctv's cameras to comply the same. |
| (xii) | CSR 1% of the cost of project i.e. Rs. 44.50 lakhs for upliftment of surrounding villages be provided by the proponent. | CSR activities being carried out by CSR department. |
| (xiii) | Coal washing shall be operated in closed water circuit. Water after coal washing shall be taken to treatment plant. After separating the coal fines from the water shall be reused for coal washing. No waste water will be discharge from the coal washery premises. Thus, Kelo river and Sajara nala will not get polluted. | Applicable during project operation. Agree to comply. |
| (xiv) | The raw coal, washed coal and coal wastes (rejects) shall be stacked properly at earmarked site(s) within stockyards fitted with wind breakers/shields. Adequate measure shall be taken to ensure that the stored minerals do not catch fire. | Applicable during project operation. Agree to comply. |
| A(xv) | Hoppers of the coal crushing unit and washery unit shall be fitted with high efficiency bag filters and mist spray water sprinkling system shall be installed and operated effectively at all times of operation to check fugitive emissions from crushing operations, transfer points of closed belt conveyor systems and from transportation roads. | Applicable during project operation. Agree to comply. |
| (xvi) | The report titled 'Flora and fauna and conservation plan for endangered species of GareIV/8 coal B block" approved by the PCCF (wildlife) of Chhattisgarh dated 22.11.2011 states that there is no national park, tiger reserve eco-sensitive zones within 15 km radius. It was informed that this area is neither affected by elephant nor any elephant corridor exists. However, there are occasional presence of elephants and other wild lives. | Noted. |
| (xvii) | A Wildlife Conservation Plan for conservation and protection of wildlife in the study area has been approved at a cost of Rs 1 crore and shall be implemented by the proponent in consultation with Departments of Forest and Wildlife, Govt. of Chhattisgarh. The WLCP shall comprise of components of habitat improvement and conservation of biodiversity, provision of water holes, and augmenting water bodies, nursery and plantation of species of natural food and fodder found in the natural habitat, salt licks, measures for protection against forest fires and poaching, awareness campaign of villagers in the study area | Agreed. Rs 1 Cr was deposited by prior allottee in CAMPA on 16/6/2012. |

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| | and compensation in case of man-animal conflicts. The status of implementation of the WL Conservation Plan including budgetary provisions of various activities and status of expenditure shall be regularly uploaded on the website of the Forest and Wildlife Departments of Govt. of Chhattisgarh and of the project proponent and the status shall be regularly reported to this Ministry and the MoEF Regional Office, as part of the compliance report. | |
| (xviii) | As per the approved plan of the 'Flora and fauna and conservation plan for endangered species of Gare IV/4 coal Block' and recommended by the PCCF (Wild Life), Rs one crore be deposited, at one time, with the Department of Forest and Wildlife, Govt. of Chhattisgarh for implementation of the plan. | Prior allottee has already deposited with Govt of CG & IV/4 Coal mine is not with Ambuja Cements Ltd, Prior allottee was Jayaswal Neco Ltd. |
| (xix) | 'The project authorities shall also participate in a Regional Action Plan of the State Government for conservation of flora and fauna found within the study area, in addition to the above funds shall also contribute financially for implementation of the RWLCP. Habitat development such as grasslands/conservation measures along the migratory route/habitats of elephants found/visiting the area shall form a part of the Regional Action Plan. | Agreed to comply. |
| (xx) | It will be used for growing plants along the fringes of the site roads and reclamation of external dump and backfilled area. The top soil stockpiles will be low height not exceeding 6 m and will be made use for concurrent filling without keeping the topsoil for a long period. | Agreed. |
| (xxi) | The coal transportation will be by road. JNIL developed dedicated road from Gare IV/4 (Banjikhoh) to Milupara (2 km). JNIL developed 2.2 km dedicated road from Gare IV/4(Bankheta) to Dongamouha JNIL along with Monnet developed dedicated road from Millupara to Hukradipa passing through Gare IV/8 (8.8 km). Thereafter, BOOT road is used till Raigarh (approx. 50 km). Coal movement done by 35 T dumpers. Trained drivers used. | Agreed to transport coal by Road. Now GP IV/8 Coal mine is only with Ambuja Cements Ltd and coal trucks will directly ply from GP IV/8 through PWD road up to Hukradeepa & then reach the BOOT road till Raigarh. Further a railway track is likely to establish for pelma Coal block by CERC- Chhattisgarh, then road movement will be very less. |
| (xxii) | All approach roads shall be black topped and internal roads shall be concreted. The roads shall be regularly cleaned with 8 mechanical sweepers. | Agreed |
| (xxiii) | Coal rejects with an ash content of 76% or less shall be fully utilised for power generation in linked TPP. | Agreed |
| (xxiv) | The proponent shall maintain proper records of the ash content of raw (ROM) coal, clean coal, middling and coal rejects along with quantum of raw coal obtained and washed and dispatched every month and the same shall be uploaded on the company website every month. | Agreed |
| (xxv) | Green belt shall be developed all along the periphery of the site, along the areas such as the washery unit, crushing unit, and stockyard. A 3-tier avenue | Agreed |

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| | plantation would be developed along vacant areas, near washery, storage yards, loading points and transfer points and along internal roads and main approach roads and on the 2-km road upto the railway siding and at the siding. | |
| (xxvi) | Trucks engaged for mineral transportation outside the washery upto the railway siding covering a distance of 2km shall be optimally loaded and covered with tarpaulin with no spillage <i>en route</i> . The trucks shall be properly maintained, and emissions shall be below notified limits. Facilities for parking of trucks carrying raw coal from the linked coal mines shall be created within the Unit. | Agreed |
| (xxvii) | The 16580 TPD wash coal from the washery will be taken to steel plant at Siltara, Raipur, 3850 TPD middling will be taken to 600 MW TPD at Hamirpur, Raigarh. | This condition is applicable for prior allottee but now EC had been transferred to Ambuja Cements Limited. Now due to change in the allottee, washed coal could be taken to EUP at Bhatapara and middlings to CPP or TPP around through open selling. Other plants of EUP as per the Diversion Notice-II submitted to MOC |
| (xxviii) | All internal roads shall be concreted or black topped and the approach roads and roads used for transportation/nearby roads not owned by the company but used for the project shall be blacked topped. Facilities for parking of trucks carrying raw coal from the linked coal mines shall be created within the Unit. | Agreed |
| (xxix) | The roads (internal/approach/and roads used for the project) shall be regularly cleaned with mechanical sweepers and with water sprinklers. A 3-tier avenue plantation using native species shall be developed along the roads. | Agreed |
| (xxx) | Hoppers of the coal crushing unit at the crushing shed and washery unit shall be fitted with high efficiency bag filters/Mist extractors and mist spray water sprinkling system shall be installed and operated effectively at all times of operation to check fugitive emissions from crushing operations, transfer points of belt conveyor systems which shall be closed and from transportation roads. | Agreed |
| (xxxi) | Proper housekeeping practices shall be followed and all the raw materials including sludge and waste oil shall be stored separately in designated places only. | Agreed |
| (xxxii) | Industrial wastewater (workshop and wastewater from the washery-cum Re-Rolling Unit) shall be properly collected, treated in an ETP so as to conform to the standards prescribed under GSR 422 (E) dated 19th May 1993 and 31st December 1993 or as amended from time to time. Oil and grease trap shall be installed for treatment of workshop effluents. No wastewater shall be discharged from the washery into the drains/natural water courses. Storm water shall be let out through separate storm water drains and shall be tested for pH, TDS, etc and the water shall be treated to prescribe limits before | Agreed |

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| | discharge from the premises. | |
| (xxxiii) | Socio-economic and welfare measures for the local communities for the village Bhelata and other adjoining villages shall be implemented under CSR and shall be not less than Rs. 1 crore per annum. Details of village-wise activities under CSR and the status of its implementation along with expenditure thereon shall be uploaded on the company website. | Agreed |
| (xxxiv) | Records of quantum and ash content of raw coal being washed, and clean coal and coal rejects produced from every batch of washing shall be maintained and details thereof uploaded on the company website. | Agreed |
| (xxxv) | The Washery unit shall be a zero-discharge facility and no wastewater shall be discharged from the washery into the drains/natural watercourses. Recycled water shall be used for development and no additional groundwater shall be used for the Plant Operations. Any additional water requirement envisaged shall be obtained by recycle/reuse to the maximum extent and from rainwater harvesting measures. | Agreed. |
| (xxxvi) | Socio-economic and welfare measures for the local communities for the adjoining villages shall be implemented under CSR. Activities under CSR activities to be undertaken for the adjoining villages shall be identified in consultation with the local authorities, the details of status of implementation of CSR and expenditure thereon which should be annually updated on the company website. | Agreed |
| (xxxvii) | Heavy metal content in raw coal, and washed coal shall be analysed once in a year and records maintained thereof. | Agreed |
| B. General conditions | | |
| (i) | No change in process technology and scope of working including quantum of mineral coal washed shall be made without prior approval of the Ministry of Environment and Forests. | Agreed. |
| (ii) | Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring PM ₁₀ , PM _{2.5} , SO ₂ and NO. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, in SPM and RSPM etc. shall be carried out at least one in six months. | Presently regular monitoring is being carried out at four location by NABL accredited laboratory. |
| (iii) | Data on ambient air quality (PM ₁₀ , PM _{2.5} , SO ₂ and NO, and heavy metals such as Hg, As, Ni, Cr, etc) shall be regularly submitted to the Ministry including its Regional Office at Bhopal and to the State Pollution Control Board and the Central Pollution Control Board once in six months. Random verification of samples through analysis from independent laboratories recognised under the | Ambient Air Quality is being regular monitoring by NABL accredited laboratory. Data of AAQ is being submitted with six monthly EC compliance report. |

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| | EP Rules, 1986 shall be furnished as part of the compliance report. | |
| (iv) | Adequate measures shall be taken for control of noise levels below 85 dBA in the work environment, Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with ear plugs/muffs. | Agreed. |
| (v) | Monitoring of environmental quality parameters shall be carried out through establishment of adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board and data got analyzed through a laboratory recognized under EP Rules, 1986. | Monitoring Reports describe in <i>Annexure-1</i> |
| (vi) | Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health Agreed aspects. Occupational health surveillance program of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if needed. | Agreed & in the existing mine operation all PPE, is provided to all workmen & other personal |
| (vii) | A separate environmental management cell with suitable qualified personnel shall be setup under the control of a Senior Executive, who will report directly to the Head of the company. The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose, Year-wise expenditure shall be reported to this Ministry and its Regional Office at Bhopal. | Agreed |
| (viii) | The Project authorities shall advertise at least in two local newspapers widely circulated around the project, one of which shall be in the vernacular language of the locality concerned within seven days of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution control Board and may also be seen at the website of the ministry of Environment & Forests at http://envfor.nic.in . | Advertised by prior allottee. |
| B(ix) | A copy of the environmental clearance letter shall be marked to concerned Panchayat/ Zilla Parishad/Municipal Corporation or Urban Local Body/ local NGO, if any, from whom any suggestion/representation has been received while processing the proposal. A copy of the clearance letter shall also be displayed on the company's website. | Complied by Prior allottee. |
| (x) | Copy of the clearance letter shall be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industry Centre and Collector's Office/Tehsildar's Office for 30 days. | Complied by prior allottee. |
| (xi) | The project proponent shall submit six monthly reports on the status of compliance of the stipulated | Complied |

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| | environmental clearance conditions (both in hard copy and in e-mail) to the respective Regional Office of the MOE, the respective Zonal offices of CPCB and the SPCB. The compliance status of the stipulated EC conditions shall also be uploaded by the project authorities on their website and updated at least once every six months so as to bring the same in the public domain. The monitoring data of environmental quality parameters (air, water, noise and soil) shall also be displayed at the entrance of the project premises and mines office and in corporate office and on the company's website. | |
| (xii) | The Regional Office of this Ministry located at Bhopal shall monitor compliance of the stipulated conditions. The Project authorities shall extend full cooperation to the office(s) of the Regional Office by furnishing the requisite data/ information/monitoring reports. | Agreed to extend full support. |
| (xiii) | The environmental statement for each financial year ending 31st March in Form-V is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently. The same shall also be uploaded on the company's website along with the status of compliance of EC conditions and shall be sent to the respective Regional Offices of the MoEF by E-mail. | Agreed. |

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3.0 AMBIENT AIR QUALITY

3.1 GENERAL

To assess the ambient air quality in & around Gare Palma IV/8 Coal mine lease of M/s Ambuja Cements Ltd at village-Khamaria, Dist. Raigarh (C.G.), total five number of ambient air quality monitoring locations were selected. Different air pollution parameters like PM₁₀, PM_{2.5}, SO₂, NO_x, CO and heavy metals were identified as related to the mining activities. All the sampling stations were identified in & around the mine. Descriptive listing of the air quality monitoring stations is given in **Table – 3.1** and **Figure 4**.

TABLE – 3.1: DESCRIPTION OF AMBIENT AIR QUALITY (AAQ) MONITORING STATIONS

| S.N | Sampling Stations | Station Code | Distance from Mine Lease | Direction from Mine Lease |
|-----|----------------------------|--------------|--------------------------|---------------------------|
| 1. | At Site Office | AAQ-1 | Within | Within |
| 2. | At Banjari Temple | AAQ-2 | 0.3 km | North |
| 3. | Khamaria village | AAQ-3 | 0.5 km | NW |
| 4. | Nr School, Rampura village | AAQ-4 | 0.4 km | East |
| 5. | At Durga House | AAQ-5 | 0.3 km | South |

3.2 OBSERVATIONS

The results of Ambient Air Quality monitoring with regard to the parameters are given below in **Table – 3.2, 3.3, 3.4, 3.5 and 3.6**. The **National Ambient Air Quality Standards** are given in **Table – 3.7**.

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**TABLE – 3.2: RESULTS OF AMBIENT AIR QUALITY MONITORING
FOR PARTICULATE MATTER (<10 µm)**

| Code | Stations | JAN-22 | FEB-22 | MAR-22 | APRIL-22 | MAY-22 | JUNE-22 | NAAQM STANDARD |
|-------|-------------------------------|--------|--------|--------|----------|--------|---------|----------------|
| AAQ-1 | At Site Office | 57.9 | 59.1 | 69.5 | 90.8 | 92.7 | 88.4 | 100 |
| AAQ-2 | At Banjari Temple | 56.5 | 57.8 | 60.3 | 78.8 | 81.6 | 75.4 | 100 |
| AAQ-3 | Khamaria village | 55.9 | 57.1 | 66.7 | 76.9 | 78.2 | 72.0 | 100 |
| AAQ-4 | Nr School, Rampura village | 57.3 | 55.6 | 62.6 | 81.4 | 83.7 | 78.7 | 100 |
| AAQ-5 | At Durga House | 56.1 | 58.4 | 59.1 | 70.0 | 72.7 | 71.9 | 100 |

*Values are in µg/m³

**TABLE – 3.3: RESULTS OF AMBIENT AIR QUALITY MONITORING
FOR PARTICULATE MATTER (<2.5 µm)**

| Code | Stations | JAN-22 | FEB-22 | MAR-22 | APRIL-22 | MAY-22 | JUNE-22 | NAAQM STANDARD |
|-------|-------------------------------|--------|--------|--------|----------|--------|---------|----------------|
| AAQ-1 | At Site Office | 17.2 | 18.8 | 34.5 | 38.0 | 39.8 | 35.7 | 60 |
| AAQ-2 | At Banjari Temple | 17.6 | 16.7 | 27.4 | 34.0 | 37.3 | 31.4 | 60 |
| AAQ-3 | Khamaria village | 16.4 | 17.3 | 30.5 | 39.1 | 40.3 | 34.8 | 60 |
| AAQ-4 | Nr School, Rampura village | 13.9 | 17.2 | 30.8 | 36.7 | 37.5 | 33.2 | 60 |
| AAQ-5 | At Durga House | 13.2 | 17.7 | 16.5 | 30.6 | 33.0 | 30.5 | 60 |

*Values are in µg/m³

**TABLE – 3.4: RESULTS OF AMBIENT AIR QUALITY MONITORING
FOR SULPHUR DIOXIDE (SO₂)**

| Code | Stations | JAN-22 | FEB-22 | MAR-22 | APRIL-22 | MAY-22 | JUNE-22 | NAAQM STANDARD |
|-------|-------------------------------|--------|--------|--------|----------|--------|---------|----------------|
| AAQ-1 | At Site Office | 15.3 | 13.0 | 24.0 | 20.0 | 22.8 | 18.5 | 80 |
| AAQ-2 | At Banjari Temple | 14.3 | 12.2 | 14.8 | 17.2 | 19.2 | 16.5 | 80 |
| AAQ-3 | Khamaria village | 14.1 | 12.9 | 16.7 | 17.8 | 18.4 | 15.4 | 80 |
| AAQ-4 | Nr School, Rampura village | 13.9 | 12.1 | 19.9 | 16.5 | 16.8 | 15.2 | 80 |
| AAQ-5 | At Durga House | 13.2 | 12.6 | 17.8 | 18.0 | 19.1 | 17.8 | 80 |

*Values are in µg/m³

**TABLE – 3.5: RESULTS OF AMBIENT AIR QUALITY MONITORING
FOR OXIDES OF NITROGEN (NO_x)**

| Code | Stations | JAN-22 | FEB-22 | MAR-22 | APRIL-22 | MAY-22 | JUNE-22 | NAAQM STANDARD |
|-------|-------------------------------|--------|--------|--------|----------|--------|---------|----------------|
| AAQ-1 | At Site Office | 19.0 | 16.6 | 20.4 | 26.5 | 28.1 | 22.0 | 80 |
| AAQ-2 | At Banjari Temple | 18.6 | 16.0 | 19.0 | 22.5 | 23.4 | 20.0 | 80 |
| AAQ-3 | Khamaria village | 20.5 | 17.8 | 19.4 | 24.2 | 26.5 | 19.0 | 80 |
| AAQ-4 | Nr School, Rampura village | 18.5 | 15.8 | 23.4 | 22.9 | 23.9 | 19.9 | 80 |
| AAQ-5 | At Durga House | 20.8 | 15.5 | 17.2 | 22.9 | 23.8 | 20.4 | 80 |

*Values are in µg/m³

Rod

[Signature]

TABLE – 3.6: RESULTS OF AMBIENT AIR QUALITY MONITORING

FOR CARBON MONOXIDE (CO)

| Code | Stations | JAN-22 | FEB-22 | MAR-22 | APRIL-22 | MAY-22 | JUNE-22 | NAAQM STANDARD |
|-------|-------------------------------|--------|--------|--------|----------|--------|---------|-------------------|
| AAQ-1 | At Site Office | 450.0 | 475.0 | 560.0 | 610.0 | 584.3 | 550.0 | 4000 |
| AAQ-2 | At Banjari Temple | 440.0 | 480.0 | 504.0 | 555.0 | 563.1 | 590.0 | 4000 |
| AAQ-3 | Khamaria village | 478.0 | 455.0 | 515.0 | 560.0 | 571.6 | 580.2 | 4000 |
| AAQ-4 | Nr School, Rampura village | 480.0 | 492.0 | 603.0 | 595.0 | 607.1 | 614.0 | 4000 |
| AAQ-5 | At Durga House | 455.0 | 460.0 | 548.0 | 610.0 | 617.5 | 620.0 | 4000 |

*Values are in $\mu\text{g}/\text{m}^3$

HEAVY METALS-

Heavy metals (i.e. Pb, As, Ni, Hg) have been monitored & analyzed simultaneously, however, every time concentrations of heavy metals are observed as BDL (below detectable level).

R. S.

TABLE – 3.7: NATIONAL AMBIENT AIR QUALITY STANDARDS (NAAQMS) (REVISED-2009)

| S.N. | Pollutant | Unit | Area | Concentration in Ambient Air | |
|------|--|-------------------|------------|------------------------------|----------|
| | | | | Annual Average | 24 Hours |
| 1. | Sulphur Dioxide (SO ₂) | µg/m ³ | Industrial | 50.0 | 80.0 |
| 2. | Nitrogen Dioxide (NO _x) | µg/m ³ | Industrial | 40.0 | 80.0 |
| 3. | Particulate Matter PM ₁₀ | µg/m ³ | Industrial | 60.0 | 100.0 |
| 4. | Particulate Matter PM _{2.5} | µg/m ³ | Industrial | 40.0 | 60.0 |
| 5. | Ozone (O ₃) | µg/m ³ | Industrial | 100.0 | 180.0 |
| 6. | Lead (Pb) | µg/m ³ | Industrial | 0.50 | 1.2 |
| 7. | Carbon Monoxide(CO) mg/m ³ | mg/m ³ | Industrial | 2.0 | 4.0 |
| 8. | Ammonia (NH ₃) | µg/m ³ | Industrial | 100.0 | 400.0 |
| 9. | Benzene (C ₆ H ₆) µg/m ³ | µg/m ³ | Industrial | 05.0 | 05.0 |
| 10. | Benzo(α) Pyrene, | µg/m ³ | Industrial | 01.0 | 01.0 |
| 11. | Arsenic (As) µg/m ³ | µg/m ³ | Industrial | 6.0 | 6.0 |
| 12. | Nickel (Ni) µg/m ³ | µg/m ³ | Industrial | 20.0 | 20.0 |

- Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice in a week 24 hourly at uniform intervals.
- 24 hourly or 08 hourly or 01 hourly monitored values as applicable shall be complied with 98% of the time in a year 2% of the time, then may exceed the limits but not on two consecutive days of monitoring.

3.3 RESULTS AND DISCUSSION

On the basis of above observations, the parameter-wise results have been discussed below.

3.3.1 PARTICULATE MATTER<10 µ (PM₁₀)

All monitored stations have PM₁₀ concentrations well within stipulated 24 hour limit, 100 µg/m³ as prescribed for residential, rural and other areas in longstanding NAAQ Standards of CPCB.

3.3.2 PARTICULATE MATTER<2.5 µ (PM_{2.5})

All monitored stations have PM_{2.5} concentrations well within stipulated 24 hour limit, 60µg/m³ prescribed for industrial, residential, rural and other areas in revised NAAQ Standards from CPCB.

3.3.3 SULPHUR DIOXIDE (SO₂)

Ros

Shubhi

Average Sulphur Dioxide (SO₂) concentrations at all five sampling stations are µg/m³ respectively and well within the stipulated 24 hour limit, 80 µg/m³ recommended for industrial, residential, rural and other areas in revised NAAQ Standards of CPCB.

OXIDES OF NITROGEN (NO_x)

Average Oxides of Nitrogen (NO_x) concentrations at all sampling stations are also well within the stipulated 24 hour limit, 80 µg/m³ recommended for industrial, residential, rural and other areas in revised NAAQ Standards of CPCB.

3.3.4 CARBON MONOXIDE (CO)

Average Carbon Monoxide (CO) concentrations at all sampling stations are well within stipulated 8 hours limit, 2000 µg/m³ recommended for industrial, residential, rural and other areas in revised NAAQ Standards.

R₀₅₀

4.0 AMBIENT NOISE LEVEL

4.1 LOCATIONS OF NOISE LEVEL MEASUREMENT

Noise Levels have measured at following **Eight Stations** coded as NL – 1, NL – 2, NL – 3, NL – 4, NL – 5, NL – 6, NL – 7 and NL – 8. Details of Noise level measurement stations have described below in **Table – 4.1** and **Figure -10**.

TABLE – 4.1: DETAILS OF NOISE LEVEL MEASUREMENT STATIONS

| S.N | Sampling Stations | Station Code | Zone | Stations |
|-----|----------------------------|--------------|-------------|----------|
| 1. | Nr Main Gate | NL – 1 | Core zone | Ambient |
| 2. | At Site Office | NL – 2 | Core zone | Ambient |
| 3. | Nr Weigh Bridge | NL – 3 | Core zone | Ambient |
| 4. | Nr Parking | NL – 4 | Core zone | Ambient |
| 5. | Nr Khamaria village | NL – 5 | Buffer zone | Ambient |
| 6. | Nr School, Rampura village | NL – 6 | Buffer zone | Ambient |
| 7. | At Durga House | NL – 7 | Buffer zone | Ambient |
| 8. | At Banjari Temple | NL – 8 | Buffer zone | Ambient |

4.3 OBSERVATIONS

The observations for noise level measurement were taken randomly in day and night hours. Measured noise levels are given below in **Table – 4.2** and Graphical presentation in **Figure 12**.

Rod

Yambati

TABLE – 4.2: RESULTS OF AMBIENT NOISE LEVEL MEASUREMENT

NOISE LEVEL (DAY HOURS)

| Code | Stations | Unit | Jan -22 | Feb-22 | Mar-22 | April-22 | May-22 | June-22 | MIN | MAX | AVG |
|------|----------------------------|-------|---------|--------|--------|----------|--------|---------|------|------|-------|
| NL-1 | Nr Main Gate | dB(A) | 57.3 | 58.0 | 55.2 | 52.6 | 55.2 | 52.8 | 52.6 | 58.0 | 55.18 |
| NL-2 | At Site Office | | 55.0 | 57.2 | 59.5 | 54.3 | 54.5 | 55.0 | 54.3 | 59.5 | 55.92 |
| NL-3 | Nr Weigh Bridge | | 66.2 | 67.9 | 62.3 | 64.4 | 63.9 | 64.0 | 62.3 | 67.9 | 64.78 |
| NL-4 | Nr Parking | | 58.6 | 59.5 | 60.1 | 59.3 | 60.7 | 62.0 | 58.6 | 62.0 | 60.03 |
| NL-5 | Nr Khamaria village | | 55.4 | 57.0 | 59.9 | 55.1 | 55.7 | 59.3 | 55.1 | 59.3 | 57.07 |
| NL-6 | Nr School, Rampura village | | 57.3 | 58.8 | 60.3 | 51.2 | 52.1 | 56.8 | 51.2 | 60.3 | 56.08 |
| NL-7 | At Durga House | | 60.2 | 59.2 | 53.7 | 62.7 | 63.3 | 60.2 | 53.7 | 63.3 | 59.88 |
| NL-8 | At Banjari Temple | | 48.6 | 50.4 | 52.9 | 62.8 | 63.8 | 61.9 | 48.6 | 63.8 | 56.73 |

NOISE LEVEL (NIGHT HOURS)

| Code | Stations | Unit | Jan -22 | Feb-22 | Mar-22 | April-22 | May-22 | June-22 | MIN | MAX | AVG |
|------|----------------------------|-------|---------|--------|--------|----------|--------|---------|------|------|-------|
| NL-1 | Nr Main Gate | dB(A) | 39.9 | 38.6 | 35.1 | 33.0 | 34.2 | 36.0 | 33.0 | 39.9 | 36.13 |
| NL-2 | At Site Office | | 36.7 | 37.7 | 38.3 | 34.8 | 35.1 | 37.2 | 34.8 | 38.3 | 36.63 |
| NL-3 | Nr Weigh Bridge | | 43.4 | 41.0 | 43.4 | 42.0 | 39.8 | 40.4 | 39.8 | 43.4 | 41.67 |
| NL-4 | Nr Parking | | 40.8 | 39.3 | 40.0 | 39.8 | 39.6 | 42.5 | 39.3 | 42.5 | 40.33 |
| NL-5 | Nr Khamaria village | | 36.7 | 37.3 | 37.9 | 36.0 | 36.3 | 34.2 | 34.2 | 37.3 | 36.40 |
| NL-6 | Nr School, Rampura village | | 34.2 | 35.6 | 36.6 | 32.5 | 32.9 | 34.0 | 32.5 | 36.6 | 34.30 |
| NL-7 | At Durga House | | 40.2 | 38.9 | 32.4 | 39.0 | 38.7 | 38.7 | 32.4 | 40.2 | 37.98 |
| NL-8 | At Banjari Temple | | 30.1 | 36.0 | 35.5 | 40.1 | 39.5 | 39.9 | 30.1 | 40.1 | 36.85 |

Note: All values are in dB(A)

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4.4 AMBIENT NOISE LEVEL STANDARDS

Ambient Air Quality standards in respect of noise have been notified by the Ministry of Environment & Forests vide **Gazette Notification Dated 26th June 1989**. It is based on a weighted equivalent noise level (Leq). National Ambient Noise Level Standards are given below in **Table – 4.3**.

TABLE –4.3: NATIONAL AMBIENT NOISE LEVEL STANDARDS

| Area Code | Category of Area | Limits in dB(A) Leq | |
|-----------|------------------|---------------------|------------|
| | | Day time | Night time |
| A | Industrial Area | 75 | 70 |
| B | Commercial Area | 65 | 55 |
| C | Residential Area | 55 | 45 |
| D | Silence Zone** | 50 | 40 |

** Silence zone is defined as area up to 100 meters around premises of hospitals, educational institutions and courts. Use of vehicle horns, loud speakers and bursting of crackers are banned in these zones.

4.5.1 RESULTS AND DISCUSSION

Recorded Noise Levels in & around the mine lease, well within the prescribed standards.

Rod



5.0 FUGITIVE EMISSION

5.1 GENERAL

To assess the fugitive emission quality, total two number of sampling sites have been selected. To check the detailed emissions, PM₁₀ and PM_{2.5} along with heavy metals (i.e. Pb, As, Ni, Hg) were identified as related to the lease activities. Descriptive listing of the Fugitive Emissions monitoring stations are given in Table – 5.1.

TABLE – 5.1: DESCRIPTION OF FUGITIVE EMISSION MONITORING STATIONS

| S.N | Sampling Stations | Station Code |
|-----|--------------------------------------|--------------|
| 1. | Near Parking | FE – 1 |
| 2. | Near Weigh Bridge/Near Cap Lamp Area | FE – 2 |

5.2 OBSERVATIONS

The results of Fugitive emissions monitoring with regard to the parameters are given in Table – 5.2.

TABLE – 5.2: RESULTS OF FUGITIVE EMISSION MONITORING

| Code | Sampling Stations | Unit | Jan -22 | Feb-22 | Mar-22 | April-22 | May-22 | June-22 |
|-------|-------------------|-------------------|---------|--------|--------|----------|--------|---------|
| FE- 1 | PM ₁₀ | µg/m ³ | 76.7 | 84.5 | 76.4 | 88.5 | 87.6 | 76.0 |
| | PM _{2.5} | | 22.1 | 25.4 | 30.5 | 39.1 | 38.4 | 32.5 |
| FE- 2 | PM ₁₀ | | 81.5 | 88.4 | 65.5 | 78.2 | 79.5 | 88.4 |
| | PM _{2.5} | | 24.4 | 26.1 | 24.9 | 30.5 | 32.3 | 45.1 |

Heavy metals (i.e. Pb, As, Ni, Hg) have been monitored & analyzed simultaneously, however, every time concentrations of heavy metals are observed as below detectable level.

5.3 RESULTS AND DISCUSSION

From the above result the given parameter are found to be well within the conditions mentioned in the Environment Clearance.

6.0 WATER QUALITY ANALYSIS



| Sr. No. | Parameters | Ref. Method | January_2022 | | Feb_2022 | | March_2022 | | April_2022 | | May_2022 | | June | |
|---------|-----------------------------|------------------------|--------------|------------|----------------------|------------|----------------------|--------------------|-------------------------|----------------------|-------------------------|----------------|----------------|----------------------|
| | | | Mine Water | ETP Outlet | Well Water Khamhriya | Mine Water | Well Water Khamhriya | Mine Seepage Water | Undergro und Mine Water | Mine Discharge Water | Undergro und Mine Water | Borewell Water | Mine Pit Water | Mine Discharge Water |
| 1 | pH at 25°C | IS:3025 (part 11)-1983 | 7.51 | 7.73 | 7.13 | 7.56 | 7.26 | 8.08 | 7.1 | 8.11 | 7.58 | 6.53 | 7.22 | 8.04 |
| 2 | TDS | IS:3025 (part 16)-1984 | 214 | 186 | 528 | 348 | 188 | 211 | 320 | 244 | 337 | 194 | 345 | 232 |
| 3 | TSS | IS:3025 (part 16)-1984 | 12 | 6 | - | 35 | - | 21 | 40.6 | 34 | 29.3 | - | 75 | 30 |
| 4 | Chloride as Cl | IS:3025 (part 32)-1988 | 10.5 | 12 | 115 | 27.4 | 16.1 | 17.1 | 75 | 89 | 84 | 28.9 | 80.1 | 66 |
| 5 | Sulphate as SO ₄ | IS:3025 (part 24)-1986 | 42 | 92 | - | 47.1 | - | 20.2 | 65 | 75.4 | 63 | 28.7 | 72.7 | 55.3 |
| 6 | COD | IS:3025 (part 58)-2006 | 8 | 28 | 12 | 984 | 8 | 104 | 108 | 52 | 104 | - | 112 | 64 |
| 7 | BOD | IS:3025 (part 44)-1993 | <3.0 | 7 | <3.0 | 32 | <3.0 | 24 | 36 | 18 | 32 | - | 22 | 10 |
| 8 | Oil & Grease | IS:3025 (part 39)-1991 | <1.0 | 0.3 | - | 0.25 | - | 0.38 | 0.4 | 0.25 | 0.38 | - | 0.36 | 0.16 |

6.2 OBSERVATIONS

The observed values for waste water are within the permissible limits prescribed by CPCB.

→ RSD

[Signature]

7.0 DUST FALL

7.1 GENERAL

To assess the Dust Fall in area, one monitoring location was selected at site office in core zone. Dust fall measurement was done regularly and total dust was observed in the area. Monthly observations are given in Table –7.1.

TABLE – 7.1: RESULT OF DUST FALL MONITORING

| Sampling Station | Unit | Jan-22 | Feb-22 | Mar-22 | April-22 | May-22 |
|------------------|----------------------------|--------|--------|--------|----------|--------|
| At Site Office | ton/km ² /month | 4.32 | 4.54 | 6.12 | 6.56 | 6.92 |

7.2 OBSERVATIONS

The observed values of Dust fall monitoring are very less, however, there is no limit has prescribed from CPCB.

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R²²/

Six Monthly Compliance Report for Gare Palma IV/8 Coal Mine at Village-Khamaria and Karwahi, P.O- Tanmar, Dist.- Raigarh (C.G.)

[Period-Jan 2022 to June 2022]

Annexure -1

Forest Clearance

F. No. 8-75-2007-FC
Government of India
Ministry of Environment & Forests
(FC Division)

Paryavaran Bhawan, C.G.O Complex,
Lodhi Road, New Delhi - 110510.
Dated: 01st January, 2013

To

The Principal Secretary (Forests),
Government of Chhattisgarh,
Raipur.

Sub: Diversion of 224.22 ha of forest land for coal mining in IV/8 sub block of Gare-Palma Block in favour of M/s Jayaswal NECO Limited in Raigarh Forest Division of Raigarh district of Chhattisgarh - reg.

Sir,

I am directed to refer to the State Government's letter no. F5-47/07/10-2 dated 14.08.2007 on the above subject seeking prior approval of the Central Government under section 2 of the Forest (Conservation) Act, 1980. After careful consideration of the proposal by the Forest Advisory Committee constituted under section-3 of the said Act, 'in-principle' approval was granted vide this Ministry's letter of even number dated 27.02.2009 subject to fulfillment of certain conditions prescribed therein. The State Government has furnished compliance report in respect of the conditions stipulated in the 'in-principle' approval and has requested the Central Government to grant final approval.

In this connection, I am directed to say that on the basis of the compliance report furnished by the State Government, vide letter no. *Bhoo Prabandh/ Khani/331-41/2403* dated 16.12.2011, 07.02.2012 and 16.11.2012, final approval of the Central Government is hereby granted under section-2 of the Forest (Conservation) Act, 1980 for diversion of 224.22 ha of forest land for coal mining in IV/8 sub block of Gare-Palma Block in favour of M/s Jayaswal NECO Limited in Raigarh Forest Division of Raigarh district of Chhattisgarh subject to fulfillment of the following conditions:

1. Legal status of the diverted forest land shall remain unchanged;
2. The compensatory afforestation over the orange forest land double in extent to the area to be diverted (56.89 ha) shall be raised and maintained by the State Forest Department at the project cost;
3. The orange forest land identified for raising Compensatory Afforestation shall be notified by the State Government as RF under Section-4 or PF under Section-29 of the Indian Forest Act, 1927 or under the relevant Section(s) of the local Forest Act, as the case may be, within a period of six months;
4. Wherever possible and technically feasible, the User Agency shall undertake by involving local community, the afforestation measures in the blanks within the lease area, as well as along the roads outside the lease area diverted under this approval, in consultation with the State Forest Department at the project cost;
5. The period of diversion under this approval shall be twenty (20) years subject to possession of valid lease by User Agency under the MMDR Act, 1957;

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[Signature]

Recd

Six Monthly Compliance Report for Gare Palma IV/8 Coal Mine at Village-Khamaria and Karwahi, P.O- Tanmar, Dist.- Raigarh (C.G.)

[Period-Jan 2022 to June 2022]

6. The User Agency shall pay the additional NPV, if so determined as per the final decision of Hon'ble Supreme Court of India;
7. No labour camp shall be established on the forest land;
8. The layout plan of the proposal shall not be changed without the prior approval of the Central Government;
9. The forest land shall not be used for any purpose other than that specified in the proposal;
10. The forest land proposed to be diverted shall under no circumstances be transferred to any other agency, department or person without prior approval of the Central Government;
11. No damage to the flora and fauna of the adjoining area shall be caused;
12. Any tree felling shall be done only when it is unavoidable and that too under strict supervision of the State Forest Department.
13. The user agency shall submit the annual self compliance report in respect of the above conditions to the State Government and to the concerned Regional Office of the Ministry regularly.
14. Any other condition that the concerned Regional Office of this Ministry may stipulate, from time to time, in the interest of conservation, protection and development of forests and wildlife; and
15. The User Agency and the State Government shall ensure compliance to provisions of the all Acts, Rules, Regulations and Guidelines, for the time being in force, as applicable to the project.

Yours faithfully,

(Shiv Pal Singh)

Sr. Assistant Inspector General of Forests

Copy to:-

1. The Principal Chief Conservator of Forests, Government of Chhattisgarh, Raipur.
2. The Addl. PCCF (Central), Regional Office, MoEF, Bhopal.
3. The Nodal Officer (FCA), O/o the PCCF, Government of Chhattisgarh, Raipur.
4. User Agency.
5. Monitoring Cell, FC Division, MoEF, New Delhi.
6. Guard File.

Shiv Pal Singh
(Shiv Pal Singh)

Sr. Assistant Inspector General of Forests

R.D.

Ambarish

**Six Monthly Compliance Report for Gare Palma IV/8 Coal Mine at Village-
Khamaria and Karwahi, P.O- Tanmar, Dist.- Raigarh (C.G.)**

[Period-Jan 2022 to June 2022]

Annexure-2

CTO Copy:



CHHATTISGARH ENVIRONMENT CONSERVATION BOARD

Paryavas Bhawan, North Block, Sector - 19,
Nava Raipur Atal Nagar, District - Raipur (C.G.)
e-mail - hocceb@gmail.com

No. 9640/TS/CECB/2022

Nava Raipur Atal Nagar, Raipur, Dated 31/03/2022

To,

M/s Ambuja Cements Limited,
Gare Palma IV/8 Coal Mine,
Villages – Khamaria, Karwahi,
Lamdarha and Milupara,
Tehsil – Gharghoda,
District – Raigarh (C.G.)

Sub: - Renewal of the consent of the Board 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. Transfer of Environmental Clearance issued vide letter no. J-11015/352/2006-IA-II.(M), dated 10/06/2015 by MoEF&CC, Govt. of India from M/s Jayswal Neco Industries Limited to M/s Ambuja Cements Limited.
 2. Transfer of lease by Ministry of Environment and Climate Change vide letter no. F.No.8-75/2007-FC dated 10/06/2015 from M/s Jayswal Neco Industries Limited to M/s Ambuja Cements Limited.
 3. Transfer of the consent granted to establish Gare Palma IV/8, Coal Mining Project of Capacity-1.2 MTPA by Chhattisgarh Environment Conservation Board from M/s Jayswal Neco Industries Limited to M/s Ambuja Cements Limited issued vide letter no. 1895/TS/CECB/2015, Raipur, dated: 23/07/2015.
 4. Consent of the Board issued under section 25 of the Water (Prevention and Control of Pollution) Act, 1974 vide letter no. 4348/TS/CECB/2017, dated: 13/11/2017 and under section 21 of the Air (Prevention and Control of Pollution) Act, 1981 vide letter no. 4350/TS/CECB/2017, dated: 13/11/2017 for Mining of Coal- 1.2 MTPA (Open Cast-0.7 MTPA and Underground-0.5 MTPA).
 5. Consent of the Board issued under section 25 of the Water (Prevention and Control of Pollution) Act, 1974 vide letter no. 5670/TS/CECB/2018, dated: 15/10/2018 and under section 21 of the Air (Prevention and Control of Pollution) Act, 1981 vide letter no. 5672/TS/CECB/2018, dated: 15/10/2018 for Mining of Coal- (By Open Cast Method) - 0.7 MTPA.

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[Period-Jan 2022 to June 2022]

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This renewal of consent is valid for production capacity of: -

| Product | Production Capacity |
|---|---|
| Mining of Coal (By Open Cast Method) | 0.70 MTPA (Zero Point Seven Zero Million Tonnes Per Annum) |
| Mining of Coal (By Underground Method) | 0.50 MTPA (Zero Point Five Zero Million Tonnes Per Annum) |
| Total | 1.2 MTPA |

A. Water (Prevention and Control of Pollution) Act, 1974

1. Mine Management shall operate and maintain effluent treatment system regularly to meet prescribed standards all the time. No effluent shall be discharged outside of the Mine premises in any circumstances; hence zero discharge condition outside of the Mine Premises promises shall be maintained all the time.
2. Mine management shall execute the works such as contraction of setting tanks, pucca roads, utilization of fly ash in stowing & mine back filling etc.

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**Six Monthly Compliance Report for Gare Palma IV/8 Coal Mine at Village-
Khamaria and Karwahi, P.O- Tanmar, Dist.- Raigarh (C.G.)**
[Period-Jan 2022 to June 2022]

Annexure-3

EC Validity Extension:

**Six Monthly Environment Clearance Compliance Status Report from January -21
to June -21 for Gare Palma IV/8 Coal Mines located at Villages- Khamaria,
Lamdharha, Milupara&Karwahi, Tehsil: Tamnar Dist. Raigarh (C.G.)**

Annexure-A



No. J-11015/76/2010-1A-11 (M) Government of India
Ministry of Environment, Forest and Climate Change
Impact Assessment Division

Indira Paryavaran Bhawan,
Jorbagh Road, N Delhi - 3

Dated: 30th September, 2020

To

The Managing Director
M/S Ambuja Cements Limited
PO Ambuja Nagar, Taluka Kodinar
District Gir Somnath - 362715 (Gujarat)

Sub: Pit head captive wet coal washery of 1.8 MTPA in an area of 10.336 ha located
in Gare Pelma-IV/8 Coal Mine in Tehsil Garghora, District Raigarh
(Chhattisgarh)- Extension of Environmental Clearance - reg.

Sir,

This is with reference to your online application No. IA/CG/CMIN/153935/2020 dated 22 May 2020, submitted to this Ministry for grant of Extension in Environmental Clearance (EC) in terms of the provisions of the Environment Impact Assessment (EIA) Notification, 2006 under the Environment (Protection) Act, 1986 for pit head captive wet coal washery of 1.8 MTPA in an area of 10.336 ha located in Gare Pelma-IV/8 Coal Mine in Tehsil Garghora, District Raigarh (Chhattisgarh) in favour of M/s Jayaswal Neco Limited vide letter dated 10th June, 2013 subject to compliance of terms and conditions stipulated therein.

The project/activity is covered under category 'A' of item 1 (a) 'Mining of Minerals' the Schedule to the EIA Notification, 2006

2. In pursuance of the judgment and order of Hon'ble Supreme Court and in accordance with the provisions of the Coal Mines (Special Provisions) Second Ordinance, 2014 and the Coal Mines (Special Provisions) Rules, 2014, Ministry of Coal, vide vesting order No. 104/28/2015/NA dated 22nd April, 2015 under clause (b) of sub-rule (2) of rule 7 and sub-rule (1) of rule 13, has allotted Gare Palma-IV/8 Coal Mine of 1.2 MTPA in an area of 491 ha located in villages Khamaria and Karwahi, Tehsil Garghora, District Raigarh (Chhattisgarh) in favour of M/S Ambuja Cements Limited as the successful bidder. Further, Ministry of Coal, vide Addendum No. I dated 19th June, 2018 to the above said vesting order dated 22nd April, 2015, has allotted the pit head captive wet coal washery of 1.8 MTPA in an area of 10.336 ha located in Gare Pelma-IV/8 Coal Mine in Tehsil Garghora, District Raigarh (Chhattisgarh) in favour of M/S Ambuja Cements Limited.

[Signature]

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**Six Monthly Compliance Report for Gare Palma IV/8 Coal Mine at Village-
Khamaria and Karwahi, P.O- Tanmar, Dist.- Raigarh (C.G.)**
[Period-Jan 2022 to June 2022]

**Six Monthly Environment Clearance Compliance Status Report from January -21
to June -21 for Gare Palma IV/8 Coal Mines located at Villages- Khamharia,
Lamdharha, Milupara&Karwahi, Tehsil: Tamnar Dist. Raigarh (C.G.)**

3. In view of the Addendum No.1 dated 19th June, 2018 to the vesting order dated 22nd April, 2015 issued by Nominated Authority in the Ministry of Coal, and the provisions contained in the EIA Notification, 2006, the environmental clearance dated 10th June, 2013 granted by the Ministry

of

in favour of M/s Jayaswal Neco Ltd to pit head captive wet coal washery of 1.8 MTPA in an area of 10.336 ha located in Gare Palma-IV/8 Coal Mine in Tehsil Garghoda, District Raigarh (Chhattisgarh) was transferred to M/S Ambuja Cements Limited subject to the following conditions:-

- (i) Any change in scope of work will attract provisions of the Environment (Protection) Act, 1986 and the EIA Notification, 2006 and subsequent amendments therein.
- (ii) All conditions stipulated in the environmental clearance dated 10th June, 2013 shall remain unchanged.
- (iii) The allottee shall be liable for any act of violation of the EP Act, 1986/EIA Notification 2006/subsequent amendments and circulars which it has inherited during the revalidation/transfer.
- (iv) The allottee shall be liable for compliance of all court directions, if any.

4. Now, Project proponent has submitted that project could not be implemented due to delay in land acquisition. Now that all the cases related to land disputes have been disposed off on 8th April, 2019 by the Bilaspur High Court passing the final order for the compensation. The disbursement of approx. 94% of compensation has been done by SDM, Gharghoda (Raigarh) till 1st July, 2019.

5. The proposal was considered by the sectoral Expert Appraisal Committee in its 1st meeting held on 17-18 August, 2020 through video conferencing wherein the Committee recommended to grant of extension/amendment of Environment Clearance dated 10th June, 2013 for a further period of 3 years from the date of issue of letter. Based on recommendations of the EAC, Ministry of Environment, Forest and Climate Change hereby accords approval for the extension of validity of Environmental Clearance (EC) dated 10th June, 2013 for a period of three years to Pit head captive wet coal washery (1.8 MTPA in an area of 10.336 ha) Gare Palma IV/8 Coal mine M/S Ambuja Cement Limited located at Tehsil Tamnar District Raigarh, (Chhattisgarh), under the provisions of Environment Impact Assessment Notification, 2006 and subsequent amendments/circulars thereto subject to the compliance of the following terms & conditions / specific conditions:-

M/s Ambuja Cements Ltd, Raigarh (C.G.)

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**Six Monthly Compliance Report for Gare Palma IV/8 Coal Mine at Village-
Khamaria and Karwahi, P.O- Tanmar, Dist.- Raigarh (C.G.)**
[Period-Jan 2022 to June 2022]

**Six Monthly Environment Clearance Compliance Status Report from January -21
to June -21 for Gare Palma IV/8 Coal Mines located at Villages- Khamharia,
Lamdharha, Milupara&Karwahi, Tehsil: Tamnar Dist. Raigarh (C.G.)**

- (i) The project proponent shall obtain Consent to Establish/Operate from the State Pollution Control Board for the proposed peak capacity of 1.8 MTPA (Peak) prior to commencement of the production
- (ii) Permission for ground water withdrawal shall be obtained from Central Ground Water Authority (CGWA), if applicable.
- (iii) 100% water requirement for washery shall be met with mine water. No other source of water shall be used for washery operations
- (iv) The washing technology so chosen should conform to 'Zero Liquid Discharge'.
- (v) Continuous monitoring of occupational safety and other health hazards, and the corrective actions need to be ensured.
- (vi) For proper baseline air quality assessment, adequate monitoring stations in the downwind areas based on wind rose pattern of the area, shall be set up for collection of air quality data and air quality modelling.
- (vii) Disposal of washery rejects shall only be in proposed CPP of the project proponent.
- (viii) Thick green belt of 20 mts width to be provided around the washery to mitigate/check the dust pollution. A 3-tier avenue plantation should also be developed along vacant areas, storage yards, loading/transfer points, and also along internal roads/main approach roads.
- (ix) Peripheral and inside road shall be made of Rigid Pavement.

6. All other conditions stipulated in the environmental clearance letter dated 10th June, 2013 and 1st April, 2019 shall also apply.

(Lalit Bokolia)
D

Director Copy to:

1. The Secretary, Ministry of Coal, Shastri Bhawan, New Delhi
2. The APCCF, Ministry of Environment Forest and Climate Change, Regional Office (Western Central Zone), Ground Floor, East Wing, New Secretariat Building Civil Lines, Nagpur -1
3. The Secretary, Deptt of Environment & Forests, Govt of Chhattisgarh, Secretariat, Raipur
4. The Member-Secretary, Central Ground Water Authority, Ministry of Water Resources, Curzon Road Barracks, A-2, W-3 Kasturba Gandhi Marg, New Delhi


Recd



**Six Monthly Compliance Report for Gare Palma IV/8 Coal Mine at Village-
Khamaria and Karwahi, P.O- Tanmar, Dist.- Raigarh (C.G.)**
[Period-Jan 2022 to June 2022]

**Six Monthly Environment Clearance Compliance Status Report from January -21
to June -21 for Gare Palma IV/8 Coal Mines located at Villages- Khamharia,
Lamdarha, Milupara&Karwahi, Tehsil: Tamnar Dist. Raigarh (C.G.)**

5. The Chairman, Chhattisgarh Environment Conservation Board, Commercial Complex,
C.G.
Housing Board Colony, Kabir Nagar, Raipur (Chhattisgarh) - 492 099
6. The District Collector, Raigarh, Government of Chhattisgarh
7. Guard File 8. Record File.9. PARIVESH Portal


(Lalit Bokolia) Director

Ra-2

[Signature]

**Six Monthly Compliance Report for Gare Palma IV/8 Coal Mine at Village-
Khamaria and Karwahi, P.O- Tanmar, Dist.- Raigarh (C.G.)**
[Period-Jan 2022 to June 2022]

Annexure-4

Green Belt Photos:



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Handwritten signature/initials

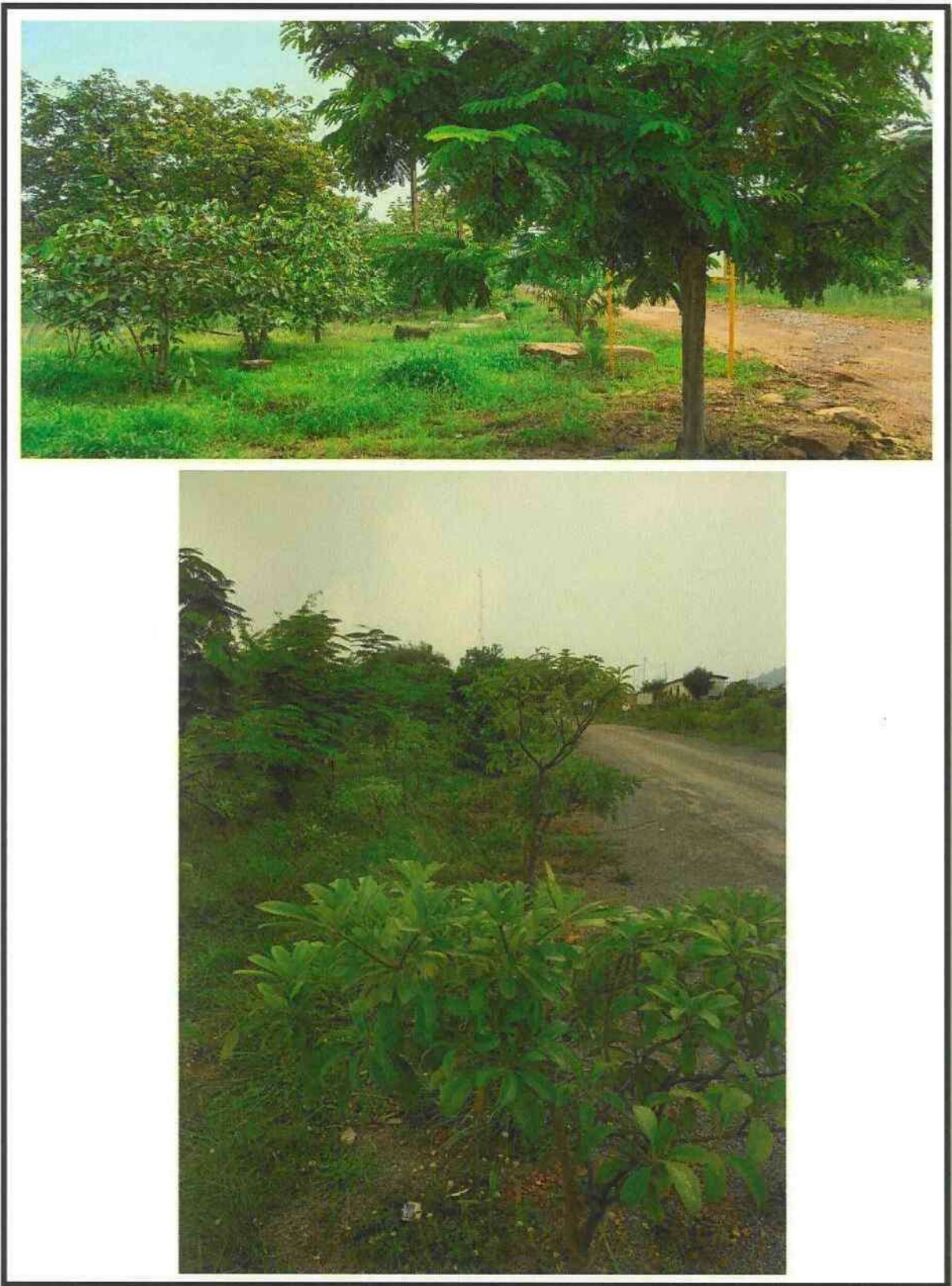
**Six Monthly Compliance Report for Gare Palma IV/8 Coal Mine at Village-
Khamaria and Karwahi, P.O- Tanmar, Dist.- Raigarh (C.G.)**
[Period-Jan 2022 to June 2022]



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Six Monthly Compliance Report for Gare Palma IV/8 Coal Mine at Village-
Khamaria and Karwahi, P.O- Tanmar, Dist.- Raigarh (C.G.)
[Period-Jan 2022 to June 2022]



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[Signature]

**Six Monthly Compliance Report for Gare Palma IV/8 Coal Mine at Village-
Khamaria and Karwahi, P.O- Tanmar, Dist.- Raigarh (C.G.)**
[Period-Jan 2022 to June 2022]

Annexure-5

Photograph of Piezometers:



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[Signature]

**Six Monthly Compliance Report for Gare Palma IV/8 Coal Mine at Village-
Khamaria and Karwahi, P.O- Tanmar, Dist.- Raigarh (C.G.)**
[Period-Jan 2022 to June 2022]

Annexure -6

Approved Mine Closure Plan

File No.34011/19/2016-CPAM

No.34011/19/2016-CPAM
Government of India
Ministry of Coal

Shastri Bhawan, New Delhi
the 15-05-2017

To,
✓ M/s Ambuja Cements Limited
306-307, 3rd Floor,
Ambuja City Centre Mall
Vidhan Sabha Road, Saddu
Raipur, Chhattisgarh-492007
e-mail: c.bansal@ambujacement.com

Subject : Mine Closure Plan for Gare Palma IV/8 of M/s Ambuja Cements Ltd.

Sir,

I am directed to refer to your letter No. ACL/GP/IV-8/MCP/2015-16/71 dated 15-03-2016 for approval of Mine Closure Plan for Gare Palma IV/8 Coal Mine, Raigarh, Chhattisgarh allocated to M/s. Ambuja Cements Limited for approval of the Central Government and to state that the Mine Closure Plan of Mine Closure Plan for Gare Palma IV/8 Coal Mine (March 2017) located in Raigarh, Chhattisgarh of M/s. Ambuja Cements Ltd to be read alongwith company's letter No. ACL/GP/IV-8/MCP/2016-17/08 dated 25/04/2016 and letter no ACL/GP/IV-8/MCP/2016-17/81 dated 18/01/2017 incorporating clarifications has been considered and the approval of the Central Government thereon is hereby conveyed under Section 5(2)(b) of the Mines & Minerals (Development & Regulation) Act, 1957 subject to the following conditions:-

1. The Mining Company will come up with revised Mining Plan in case of unfavorable result of the subsidence study for the block.
2. The Mining company shall take all necessary precautions regarding safety of mineworkings and persons deployed therein.
3. Mining lease of this block shall not encroach into any other adjacent block.
4. The cost of abandonment for carrying out the closure activities envisaged in the Mine closure plan is indicative, the actual cost for carrying out the activities at the time of final closure may be higher. The actual cost of abandonment will have to be borne by the project proponent for carrying out the closure activities.
5. The approval of the mine closure plan is without prejudice to the requirement of approvals from competent /prescribed authority under the relevant rules/ regulations etc.

R. D.

[Signature]

**Six Monthly Compliance Report for Gare Palma IV/8 Coal Mine at Village-
Khamaria and Karwahi, P.O- Tanmar, Dist.- Raigarh (C.G.)**
[Period-Jan 2022 to June 2022]

File No.34011/19/2016-CPAM

Two copies of the approved mine closure plan duly signed by the competent authority are returned herewith with the request that a copy of the approved mine closure plan may be submitted to the concerned State Government for necessary action and also a photocopy of the approved mine closure plan may be sent to the Coal Controller for monitoring the block.

Yours Faithfully

Signature valid

Digitally signed by ANANDA KUMAR
MANDAL
Date: 2017.06.15 12:28:29 IST
Reason: Approved

(A.K. Mandal)

Under Secretary to the Govt. of India(CPAM)

Encl. As Above

Copy to:

1. Under Secretary (CA-III Section) along with one copy of approved Mine Closure Plan.
2. Section Officer (Nominated Authority)

Roz

Ambedkar

**Six Monthly Compliance Report for Gare Palma IV/8 Coal Mine at Village-
Khamaria and Karwahi, P.O- Tanmar, Dist.- Raigarh (C.G.)**
[Period-Jan 2022 to June 2022]

Annexure- 7

Photo graph of CAAQMS:



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M/s Ambuja Cements Ltd, Raigarh (C.G.)

Ambuja

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**Six Monthly Compliance Report for Gare Palma IV/8 Coal Mine at Village-
Khamaria and Karwahi, P.O- Tanmar, Dist.- Raigarh (C.G.)**
[Period-Jan 2022 to June 2022]

Annexure-8

CAAQMS login credentials submitted to CECB:

**Ambuja
Cement**

ACL/GP-IV-8/ENV/22-23/916

Date: 20.05.2022

To,

The Regional Officer
Chhattisgarh Environment Conservation Board
T.V. Tower Road, Raigarh
Dist: Raigarh (C.G.)

Sub: Intimation letter regarding commissioning of CAAQMS in Gare Palma IV/8 Coal Mine of Ambuja Cements Limited, village- Khamaria and Karwahi, Tehsil- Tamnar, District- Raigarh (C.G.)

Dear Sir,

In respect of subject matter, we have installed One Continuous Ambient Air Quality Monitoring Station w.r.t. to Gare Palma IV/8 Coal Mine of Ambuja Cements Limited, village- Khamaria and Karwahi, Tehsil- Tamnar, District- Raigarh (C.G.). Now the real time data of CAAQMS can be seen vide below mentioned login credentials:

Website: cecb.glensserver.com
User ID: ACLT
Password: Act@123

This is for your kind information please.
Thanking You

For, Ambuja Cements Limited

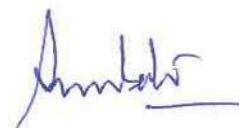

Authorized Signatory
(Gare Palma IV/8 Coal Mine)
Email: unit-head-garepalma@ambujacement.com
Mo.: 7225054477



C.C.: The Member Secretary, Chhattisgarh Environment Conservation Board, Paryavash Bhawan, Sector-19, Atal Nagar, District- Raipur Chhattisgarh.

AMBUJA CEMENTS LIMITED
Gare Palma IV/8 Coal Mine

SITE OFFICE : Village - Karwahi, Post - Saraitola, Tahsil - Tamnar, Dist. - Raigarh (C.G.) 496 107
www.ambujacement.com, E-mail : unit-head-garepalma@ambujacement.com
Regd. Off. : PO. Ambujanagar, Taluka - Kodinar, Dist. Gir Somnath, Gujarat
CIN : L26942GJ1981PLC004717





**Six Monthly Compliance Report for Gare Palma IV/8 Coal Mine at Village-
Khamaria and Karwahi, P.O- Tanmar, Dist.- Raigarh (C.G.)**
[Period-Jan 2022 to June 2022]

Annexure- 9

Monitoring Photos:



R.D.

Ambr