

**State Level Environment Impact Assessment Authority, Jharkhand.**

Nursery Complex, Near Dhurwa Bus Stand, Dhurwa, Ranchi. Jharkhand-834 004.

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Letter No.-EC/SEIAA/2018-19/2138/2019/

Ranchi, Date:

To: **Mr. Mukesh Kumar Garg,**  
**M/s Dalmia Cement (Bharat) Limited,**  
**Plot No. – IV/A-7(P), Bokaro Industrial Area (BIADA)**  
**Balidih, Bokaro Steel City,**  
**Jharkhand – 827014.**

**Sub.:** Environmental Clearance for the project “Upgradation of technology at existing standalone Cement Grinding Unit of M/s Dalmia Cement (Bharat) Ltd. at Bokaro Industrial Area, Balidih, Bokaro, Jharkhand from 3.0 MTPA to 3.7 MTPA” (Proposal No. : SIA/JH/IND/105812/2017).

**Ref:** Your application no. Nil dated 03.07.2019.

Sir,

It is in reference to the project “Upgradation of technology at existing standalone Cement Grinding Unit of M/s Dalmia Cement (Bharat) Ltd. at Bokaro Industrial Area, Balidih, Bokaro, Jharkhand”, Jharkhand submitted by you for seeking prior Environmental Clearances (EC).

The EC was issued by SEIAA on the basis of recommendation of SEAC to the favour of M/s Dalmia Cement (Bharat) Ltd vide Letter no-EC/SEIAA/2016-17/1997/2017/295 Ranchi dated-18.012.2018.

The standalone grinding unit remain engaged in converting solid waste from steel plant and power plant i.e. slag & fly ash to usable product cement. The Existing capacity is 3.0 MTPA PSC/PPC/PCC. About 60 to 65% of the raw material is solid waste of other industries located in nearby such as BF slag from Bokaro Steel Limited, fly ash from nearby power plant etc. The existing grinding unit (VRM) having older electrical motor (5500kW) and has lived it useful life and needs replacement. DCBL management has decided to replace the old motor with new energy efficient electrical motor (6500kW) available in the market. The change in electrical energy efficient motor will allow us to optimize the production of our standalone grinding units upto 3.7 MTPA from existing 3,0 MTPA without changing any structure or facilities as per the earlier EC.

The existing plant site is located at Plot No. IV/A-7 (P), Bokaro Industrial Area, P.O.: Balidih, District Bokaro in Jharkhand. Its geographical co-ordinates are Latitude 23°42'1.24"N and Longitude 86° 3'46.69"E with mean sea level (MSL) of 231.6 m (760 ft). The existing plant, occupying total area of 28.0 ha (69.19 acres). There is no change land area from earlier EC issued by SEIAA dated 08.12.2018. Total project cost for enhancement from 3.0 MTPA to 3.7 MTPA cement grinding unit is Rs. 10 Crores.

M/s Dalmia Cement Bharat limited (DCBL), formerly known as Bokaro Jaypee Cement ltd., is operating a 3.0 MTPA standalone cement grinding unit. This grinding unit is converting waste

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material from other industries such as BF slag (from adjoining steel plant) and fly ash from power plants into useful products cement. The unit is in operation and an existing at the location of Balidih Industrial area of Bokaro(Jharkhand).

The grinding unit mainly comprise of two no of VRM Mills produce 3.0 MTPA cement annually and having matching packaging unit. The existing VRM units driven by old outdated energy consuming electrical motors (5500kW) and lived its useful life and need replacement. Therefore, DCBL management decided to seek permission from SEIAA/SEAC under Environmental clearance(EC) under para 7(ii) of Notification S.O.3518 (E) dated 23<sup>rd</sup> November 2016 as this replacement of old electrical motors with new age innovative energy efficient electrical motors(6500kW) will simultaneously help us to produce more cement and will optimize upto 3.70 MTPA through this upgradation in technology. DCBL management is also committed to reduce the existing level of air emission (key Pollutant PM) by about 30% from existing level (28mg/Nm<sup>3</sup>) to about 21-22mg/Nm<sup>3</sup> by using new innovative solutions in bag filter technology attached with VRM Mills. Management is also committed to zero liquid discharge principle along with reduction in water consumption by about 5% of existing consumption (325 KLD) used both in domestic and industrial cooling. The present status of solid waste management practices is 100% recycling as cement dust is the product of grinding unit and hence cannot afford to wastage. Therefore this change certainly will bring net positive impact on over all surrounding and shall humbly request for according permission for replacing motors in existing VRM Mills.

The plant site is located in the industrial area of the Bokaro city under the district of Bokaro. The most important river in the area is River Damodar which is at a distance of around 5.0 in northern side with respect to the project site. Garga Dam is situated at a nearest distance of 7.0 Km towards the south from the project site. Bokaro Steel city is located about 9.0 Km distance in the south-east direction w.r.t. the project site.

#### Executive Summary of the Proposal

Sl. No.	Unit configuration as per EC Accorded	Proposed changes Requested	Final Status
1.	Existing available land	No change	No change
2.	Existing Plant Location	No Change	No Change
3.	Existing 2 no VRM	No change in structure	No change
	VRM: Equipped with Old electrical motors of 5500kW with existing gear box	The old motors will be replaced by energy efficient electrical motors of 6500kW with slight setting in Bevel pinion setting	The new motors will be new age innovative technology-based energy efficient electrical motors of 6500kW with gearbox internal setting
4.	Existing Cement Silo for storage of cement	No change	No change
5.	Existing raw material handling facilities	No change	No change
6.	Raw material as per existing requirement	Throughput quantity shall change	Throughput quantity shall change
7.	Storage facilities for raw material and product	No change envisaged	No change Envisaged

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8.	Air Pollution Control for dust emission (28 mg/Nm <sup>3</sup> )	Air Pollution Control for dust emission (30% reduction due to refurbishing of bag filters)	There will be 30% over all reduction in air emission from current level of 28 mg/Nm <sup>3</sup> due to increase in NO of bags and new generation bag materials
	Water Consumption at @315 KLD at present level	Water consumption shall be reduced to 5% from existing level by stoppage of leakage etc	5% reduction in water consumption expected
	Water Pollution Control in existing plant as unit follow zero Liquid discharge	Water is used in close circuit for indirect cooling and there is no contamination expected. Zero liquid discharge shall continue	Return water get recycled through cooling tower. Zero liquid discharge.
	Solid waste management in existing plant through 100% recycle of dust captured through bag filters	The existing practice shall continue	The existing practice shall continue

### PROJECT SCENARIO

Unit	Capacity (in MTPA)	Product
Existing Project :		
Cement Grinding Unit (Vertical Roller Mill)	3.0	PSC / PPC / PCC
Production Optimization due to change in energy efficient electrical motors:		
Capacity optimization/increase in the existing cement grinding unit	0.7	PSC / PPC / PCC
Total Capacity	3.7	PSC / PPC / PCC
<ul style="list-style-type: none"> <li>➤ There shall be no change in product mix or any other physical infrastructure as was allowed by EC issued earlier Where,</li> <li>➤ PSC - Portland Slag Cement</li> <li>➤ PPC - Portland Pozzolana Cement</li> <li>➤ PCC - Portland Composite Cement</li> </ul>		

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RAW MATERIAL REQUIRMENT (For 37,00,000 TPA Portland Slag Cement (PSC))				
Sl. No	Raw Material	% of raw material	Raw material requirement for 3.0 MTPA	Raw material requirements TPA for 3.70 MTPA
i	Clinker	36.5	1095000.00	1350500.00
ii	Slag	60.0	1800000.00	2220000.00
iii	Gypsum	3.5	105000.00	129500.00
iv	Coal	2.2	66000.00	81400.00

RAW MATERIAL REQUIRMENT (For 37,00,000 TPA Portland Pozzolana Cement (PPC))				
Sl. No	Raw Material	% of raw material	Raw material requirement TPA for 3.0 MTPA	Raw material requirement TPA for 3.70 MTPA
i	Clinker	62.5	1875000.00	2312500.00
ii	Fly Ash	35.0	1050000.00	1295000.00
iii	Gypsum	2.5	75000.00	92500.00
iv	Coal	2.0	60000.00	74000.00

RAW MATERIAL REQUIRMENT (For 37,00,000 TPA Portland Composite Cement (PCC))				
Sl. No	Raw Material	% of raw material	Raw material requirement TPA for 3.0 MTPA	Raw material requirement TPA for 3.70 MTPA
i	Clinker	32.5	975000.00	1202500.0
ii	Fly Ash	25.0	750000.00	925000.0
iii	Slag	40.0	1200000.00	1480000.0
iii	Gypsum	2.5	75000.00	92500.0

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iv	Coal	2.2	66000.00	81400.0
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### Water Pollution Control

The plant management practices zero liquid discharge and also practice water economy in operations. The sewage sludge, which is an excellent fertilizer, is being utilized as fertilizer.

The plant management has further committed to reduce water consumption by 5% from existing level of 315 KLD.

### Solid Waste Management

- The solid waste, which is generated in the form of dust from all the air pollution control equipment of cement plant will be 100% recycled in the process.
- Used oil & waste oil generating due to maintenance will be sold to authorized dealers of CPCB.

### Noise Pollution Control

Noisy equipment has been placed on vibration isolators or housed in a separate enclosure or surrounded by baffles covered with noise absorbing material. As the operator is stationed in the control room, there is minimum chance of exposure to high noise levels. However, personnel working in high noise zones are provided with personal noise protection equipment (e.g. earmuffs, earplugs) and their duty hours are regulated to control noise exposure levels. We have been provided acoustic enclosure to D.G. Set.

### Green Belt Development Plan

A well planned/designed green belt has been developed which covers an area of more than 33% of the project site. Best management practices are being followed for maintaining this green belt. Out of the total plant area of 28 hectares (69.19 acres), around 9.24 hectares (22.83 acres) shall be covered under green belt to maintain 33% greenbelt in the project area.

### Environmental Monitoring

Routine monitoring of stack emission, ambient air quality, work zone air quality, noise level, wastewater and surface water stream are being carried out. The monitored data are being recorded and are renewed periodically to ensure compliance of Statutory Regulations. The same practice shall continue.

### Water Requirement

#### Daily Water Requirement :

315 cu.m/day (Total) – no change expected. Further Plant management is committed to reduce it by 5% from current level by leakage detection and economy of water shall be perused.

#### Source:

Garga Dam (Permission from the Concerned Authority is available. Agreement made with BIADA for drawl of maximum 550 Cu.m/day water ).

### Power Requirement

21 MVA (Existing) no change in power requirement due to energy efficient electrical motors consume less energy for higher input material = 21 MVA (Total).

Source: Damodar Valley Corporation (DVC)

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## Manpower Requirement

Existing manpower, to the tune of 824 persons including executives & non-executives are utilized during operational phase of project.

The proposal was appraised by State Level Expert Appraisal Committee (SEAC) and recommended for grant of Environmental Clearance in its meeting held on 10<sup>th</sup>, 11<sup>th</sup> & 12<sup>th</sup> July, 2019.

State Level Environment Impact Assessment Authority (SEIAA), Jharkhand in its meeting held on 19<sup>th</sup> September, 2019 discussed the project proposal along with recommendations made by SEAC and decided to grant EC to the project.

Following the decision of SEIAA, as mentioned above, Environmental Clearance is hereby issued to the **“Upgradation of technology at existing standalone Cement Grinding Unit of M/s Dalmia Cement (Bharat) Ltd. at Bokaro Industrial Area, Balidih, Bokaro, Jharkhand”** alongwith the following conditions as recommended by SEAC.

### I. Specific Conditions :

1. This Environmental Clearance is valid subject to the following condition below –  
That this project has-
  - a. Obtained all legal rights to operate at concerned place.
  - b. Complied with all existing concerned laws of the land and
  - c. Complied with the decisions of SEIAA on the issue of Environmental Clearance till date.

### II. Statutory Compliance :

1. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
2. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
3. The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (in case of the presence of schedule-I species in the study area)
4. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/ Committee.
5. The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water / from the competent authority concerned in case of drawl of surface water required for the project.
6. The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.
7. **No mining/activity shall be undertake in the forest land or deemed forest without obtaining requisite prior forestry clearance.**

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8. This Environmental Clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT, MoEF & CC and any other Court of Law, if any, as may be applicable to this project.
9. Environmental clearance is subject to obtaining prior clearance from forestry and Wildlife angle including clearance from standing committee of NBWL, as may be applicable to this project (in case any fauna occurs / is found in the Project area or if the area involves forest land or Wildlife habitat i.e. core zone of elephant/tiger reserve etc. and or located with in 10 km. of protected area).
10. The project proponent may apply simultaneously for forest and NBWL clearance, in order to complete the formalities without undue delay, which till process on their respective merits, no rights will vest in or accrue to them unless all clearance are obtained.

### III. Air quality monitoring and preservation :

1. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R. no. 612 (E) dated 25 August, 2014 (Cement) and subsequent amendment dated 9<sup>th</sup> May, 2016 (Cement) and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.
2. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognised under Environment (Protection) Act, 1986.
3. The project proponent shall install system carryout to Ambient Air Quality monitoring for common / criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO<sub>2</sub> and NO<sub>x</sub> in reference to SO<sub>2</sub> and NO<sub>x</sub> emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120<sup>o</sup> each), covering upwind and downwind directions. (case to case basis small plants: Manual; Large plants: Continuous)
4. The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality / fugitive emissions to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six- monthly monitoring report.
5. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.
6. The project proponent shall provide leakage detection and mechanised bag cleaning facilities for better maintenance of bags.
7. Pollution control system in the cement plant shall be provided as per the CREP Guidelines of CPCB.

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8. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
9. Ensure covered transportation and conveying of raw material to prevent spillage and dust generation; Use closed bulkers for carrying fly ash.
10. Provide wind shelter fence and chemical spraying on the raw material stock piles; and
11. Have separate truck parking area and monitor vehicular emissions at regular interval.
12. Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land by the use of covered conveyor belts/railways as a mode of transport
13. Ventilation system shall be designed for adequate air changes as per ACGIH Document for all tunnels, motor houses, cement bagging plants

#### **IV. Water quality monitoring and preservation :**

1. The project proponent shall install effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R. No. 612 (E) dated 25<sup>th</sup> August, 2014 (Cement) and subsequent amendment dated 9th May, 2016 (Cement) and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories. (case to case basis small plants: Manual; Large plants: Continuous).
2. The project proponent shall monitor regularly ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognised under Environment (Protection) Act, 1986 and NABL accredited laboratories.
3. The project proponent shall submit monthly summary report of continuous effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
4. Adhere to 'Zero Liquid Discharge'.
5. Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.
6. Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.
7. The project proponent shall practice rainwater harvesting to maximum possible extent.
8. Water meters shall be provided at the inlet to all unit processes in the cement plant.
9. The project proponent shall make efforts to minimise water consumption in the cement plant complex by segregation of used water, practicing cascade use and by recycling treated water

#### **V. Noise monitoring and prevention :**

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1. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
2. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.

#### **VI. Energy Conservations measures:**

1. Provide solar power generation on rooftops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly.
2. Provide the project proponent for LED lights in their offices and residential areas.
3. Maximize utilization of fly ash, slag and sweetener in cement blend as per BIS Standards.

#### **VII. Waste Management:**

1. The waste oil, grease and other hazardous shall be disposed of as per the Hazardous & other waste (Management & Trans boundary Movement) Rules, 2016.
2. Kitchen waste shall be composted or converted to biogas for further use. *(to be decided on case to case basis depending on type and size of plant).*

#### **VIII. Green Belt:**

1. Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant.
2. The project proponent shall prepare GHG emissions inventory for the plant and shall submit the program for reduction of the same including carbon sequestration including plantation.

#### **IX. Public Hearing and Human Health issues:**

1. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
2. The PP shall provide Personal Protection Equipment (PPE) as per the norms of factory Act.
3. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
4. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

#### **X. Corporate Environment Responsibility:**

1. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1<sup>st</sup> May 2018, as applicable, regarding Corporate Environment Responsibility.
2. The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements / deviation / violation of the environmental / forest / wildlife norms / conditions. The company shall have

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defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and/or shareholders/stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.

3. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
4. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.
5. Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.
6. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the cement plants shall be implemented.

#### **XI. Miscellaneous:**

1. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
2. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
3. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
4. The project proponent shall monitor the criteria pollutants level namely; PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
5. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
6. The project proponent shall submit the environmental statement for each financial year in Form- V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.

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7. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
  - i. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
  - ii. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
8. **It shall be mandatory for the project management to submit six (06) monthly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard copies and soft copies to the regulatory authority concerned SEIAA, Regional Office of MoEF & CC at Ranchi, Jharkhand State Pollution Control Board (J.S.P.C.B.), Ranchi, and Central Pollution Control Board (CPCB).**
9. **Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.**
10. **The SEIAA, Jharkhand or any other competent Authority may alter modify the above conditions or stipulate any further condition in the interest of Environment Protection.**
11. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
12. Concealing factual data or submission of false / fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
13. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
14. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
15. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports.
16. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Trans boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
17. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010

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18. This environmental clearance is valid for seven years from the date of issue.


Sd/-  
Member Secretary  
State Level Environment Impact  
Assessment Authority, Jharkhand.

Memo No.-EC/SEIAA/2018-19 /2138/ 2019/474

Dated: 23.09.2019.

Copy to:

1. Additional Chief Secretary, Department of Forests, Environment & Climate Change, Govt. of Jharkhand.
2. Deputy Commissioner, District- Bokaro, Jharkhand.
3. Divisional Forest Officer, Bokaro Division, Bokaro Jharkhand.
4. Director IA Division, Monitoring Cell, MoEF and Climate Change, Indira Paryavaran Bhavan, Jorbag Road, Aliganj, New Delhi – 110003.
5. Ministry of Environment, Forest and Climate Change, Regional Office, Bunglow No. A-2, Shyamli Colony, Ranchi – 834002.
6. District Mining Officer, Bokaro, District-Bokaro, Jharkhand.
7. Member Secretary, Jharkhand State Pollution Control Board, Ranchi.
8. Member Secretary, Jharkhand State Expert Appraisal Committee, Ranchi.
9. Website.
10. Guard file.

  
Member Secretary  
State Level Environment Impact  
Assessment Authority, Jharkhand.  
