

F. No. J-11011/823/2008- IA II (I)  
**Government of India**  
**Ministry of Environment and Forests**  
**(I.A. Division)**

**Paryavaran Bhawan**  
**CGO Complex, Lodhi Road**  
**New Delhi – 110 003**

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Dated 1<sup>st</sup> January, 2009

To, ✓  
Shri R.K. Singh, Managing Director  
M/s Bokaro Jaypee Cement Ltd.  
64/4, Site-IV, Sahibabad Industrial Area  
Sahibabad – 201010, Ghaziabad, Uttar Pradesh.

E-mail : [rk.singh@jalindia.co.in](mailto:rk.singh@jalindia.co.in) ; Fax No. : 020-2896725

**Subject : Cement Grinding Plant (2.10 MTPA) at Village Kanari, Tehsil, Char, District Bokaro, Jharkhand by M/s Bokaro Jaypee Cement Ltd.-reg.**

**Ref. : Your letter no. BOJCL/EIA/MOEF/Cor TOR-01 dated 13<sup>th</sup> September, 2008.**

Sir,

This has reference to your letter no. BOJCL/EIA/MOEF/Cor TOR-01 dated 13<sup>th</sup> September, 2008 alongwith Form I, Pre-feasibility Report and draft Terms of References and subsequent clarifications furnished by you vide your letters dated 2<sup>nd</sup> and 3<sup>rd</sup> December, 2008 for environmental clearance on the above mentioned project.

2.0 The Ministry of Environment and Forests has examined the application. It is noted that proposal is for the Cement Grinding Plant (2.10 MTPA) at Village Kanari, Tehsil Char, District Bokaro, Jharkhand by M/s Bokaro Jaypee Cement Ltd. The proposed plant is a joint venture between Jai Prakash Associates Ltd (JAL) and Steel Authority of India Ltd. (SAIL). Total project area is 20.2 ha (50 acres) which is under lease agreement with SAIL, Bokaro. Although raw material and end products will be transported by existing road and railway network, railway siding is also proposed as part of the project. No National Park/Wild life sanctuary/Reserve Forest is located within 10 km radius of the project site. Protected Forests (PF) near Tuvyo Village (4.6 km NNW), PF near Barkibera Village (7.7 km NNW), PF near Mungo Village (8.6 km N) and PF near Chirudih (6 km NNE) are located within 10 km study area. Total cost of the project is Rs. 405.00 Crores.

3.0 Two Vertical Roller Mills (2x170 TPH), Hot air generator (Coal grinding mill, 1x6 TPH), Clinker (25,000 T), Silo for cement (20,000 T) and DG set (10 MW) will be installed. The Portland slag cement (PSC) using Clinker (1.0 MTPA) from JAL's Rewa, Sidhi, M.P. or U.P. based plants; Slag (1.0 MTPA) from adjoining 'Bokaro Steel Plant'; Coal (0.04 MTPA) from Eastern Coal Fields and gypsum (0.10 MTPA) from mines in Rajasthan / Paradeep (Orissa) will be sourced to produce Portland Slag Cement (PSC) at Bokaro. The project is environment friendly as it will consume Slag (1.0 MTPA) from adjoining Bokaro Steel Plant.

4.0 Bag house to cement mill, bag filters cement mill and jet pulse bag filters at all the transfer points will be provided to control air emissions within  $50 \text{ mg/Nm}^3$ . Total water requirement from Tenu Ghat Canal will be  $750 \text{ m}^3/\text{day}$ . All the treated wastewater will be used for green belt development, dust suppression etc. and 'zero' discharge will be adopted. 'Zero' discharge will be adopted. No solid waste will be generated from the process. Scrap and waste oil will be provided to authorized recyclers.

5.0 After considering the facts mentioned above and with due diligence, the Ministry of Environment and Forests hereby categorizes the project in category B-2 requiring no EIA/EMP and Public Hearing/Consultation and accords environmental clearance under the provisions of EIA Notification, 2006 subject to strict compliance to the following specific and general conditions :

**A. SPECIFIC CONDITIONS :**

- i. Necessary statutory clearances from other concerned Departments including 'No Objection Certificate' from the Jharkhand State Pollution Control Board (JSPCB) shall be obtained prior to commencement of construction and/or operation.
- ii. The stack emissions from various sources including cement mill and packing plant shall not exceed  $50 \text{ mg/Nm}^3$  by installing bag filters. Cement grinding shall be carried out in closed clinker and highly efficient bag filters to raw mill and bag house to cement mill to control gaseous emissions within  $50 \text{ mg/Nm}^3$ . On-line stack monitoring and continuous ambient air monitoring facilities to monitor particulate emissions shall be installed. The gaseous and particulate matter emissions from various units shall conform to the standards prescribed by the JSPCB. At no time, the stack emissions from various sources shall exceed  $50 \text{ mg/Nm}^3$ . Interlocking facility shall be provided in the pollution control equipment so that in the event of the pollution control equipment not working, the respective unit (s) is shut down automatically and reports submitted to the Ministry's Regional Office at Bhubaneswar, CPCB and JSPCB regularly.
- iii. Ambient air quality monitoring stations (AAQMS) shall be set up as per statutory requirement in consultation with the Jharkhand PCB. Continuous monitoring for ambient air in nearby villagers shall also be carried out. Ambient air quality including ambient noise levels shall not exceed the standards stipulated under EPA or by the State authorities. Monitoring of ambient air quality and shall be carried out regularly in consultation with JSPCB and on-line data shall be submitted to the Ministry's Regional Office at Bhubaneswar, CPCB and JSPCB regularly. The instruments used for ambient air quality monitoring shall be calibrated time to time.
- iv. The fugitive emissions during loading and unloading shall be suitably controlled. The fugitive emissions during loading and unloading shall be suitably controlled. The company shall install adequate dust collection and extraction system to control fugitive dust emissions from hoppers, loading points, vehicular movement etc. Jet pulse bag filters shall be provided at all the transfer points to control fugitive emissions. Storage of raw material shall be in closed roof sheds. Water sprinkling arrangement shall be made in the raw material stock yard and cement bag loading areas.

- v. Secondary fugitive emissions shall be controlled and shall be within the prescribed limits and regularly monitored. Guidelines / Code of Practice issued by the CPCB in this regard shall be followed.
- vi. Total water requirement Tenu Ghat Canal shall not exceed 750 m<sup>3</sup>/day. No effluent shall be discharged from the process outside the premises and all the treated effluent shall be utilized for green belt development and other plant related activities. 'Zero' discharge shall be strictly adopted. Domestic wastewater shall be treated in septic tanks followed by soak pit system.
- vii. 'Permission' for the drawl of 750 m<sup>3</sup>/day from Tenu Ghat Canal shall be obtained. No ground water should be sourced from bore wells without prior permission from the Central Ground Water Authority/State Ground Water Board (CGWA.SGWB). A copy of the 'permission' letter from the concerned department shall be submitted to the Ministry and its Regional Office at Bhubaneswar/CPCB/JSPCB within 3 months of issue of this letter.
- viii. All the solid waste viz. fly ash and dust etc. shall be properly recycled and reutilized in the process itself. No solid waste shall be discharged from the process. The solid waste collected in different collection systems shall be recycled and reutilized in the cement plant itself. Scrap, waste oil and grease shall be sold to the authorized recyclers/reprocessors. Domestic sludge shall be used as manure for green belt development.
- ix. As proposed, green belt shall be developed in 18 acres (34 %) out of total 50 acres to mitigate the impacts of fugitive emissions within and around the site to mitigate the impact of air emissions as per the CPCB guidelines.
- x. Observations of the State Forest Department regarding likely impact due to proposed plant on the surrounding Protected Forests (PF) near Tuvyo Village (4.6 km NNW), PF near Barkibera Village (7.7 km NNW), PF near Mungo Village (8.6 km N) and PF near Chirudih (6 km NNE) shall be obtained and implementation of recommendations, if any, shall be ensured.
- xi. All the recommendations mentioned in the Corporate Responsibility or Environmental Protection (CREP) shall be strictly followed.
- xii. The company shall provide housing for 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.

**B. GENERAL CONDITIONS :**

- i. The project authority shall adhere to the stipulations made by Jharkhand State Pollution Control Board (JSPCB) and State Government.
- ii. No further expansion or modification of the plant shall be carried out without prior approval of this Ministry.

- iii. The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environmental (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- iv. Proper house keeping and adequate occupational health programmes shall be taken up.
- v.  Rain water harvesting water measures shall be adopted for the augmentation of ground water. Besides, company must also harvest the rainwater from the roof tops and storm water drains to recharge the ground water and use the same water for the various activities of the project to conserve fresh water.
- vi. The company shall undertake eco-development measures including community welfare measures in the project area.
- vii. A separate environmental management cell to carry out various management and monitoring functions shall be set up under the control of Senior Executive.
- viii. As proposed, Rs. 30.00 Crores and Rs. 2.50 Crores shall be earmarked towards total capital cost and recurring cost/annum for environmental pollution control measures and used judiciously to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purpose.
- ix. The Regional Office of this Ministry at Bhubaneswar / CPCB / JSPCB shall monitor the stipulated conditions. A six monthly compliance report and the monitored data alongwith statistical interpretation shall be submitted to them regularly.
- x. The Project Authorities 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 and the date of commencing the land development work.
- xi. The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the Jharkhand State Pollution Control Board and may also be seen at Website of the Ministry of Environment and Forests at <http://envfor.nic.in>. This should be advertised within seven days from the date of issue of the clearance letter at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional office at Bhubaneswar.

6.0 The Ministry or any other competent authority may stipulate any further condition(s) on receiving reports from the project authorities. The above conditions shall be monitored by the Regional Office of this Ministry located at Bhopal.

7.0 The Ministry may revoke or suspend the clearance if implementation of any of the above conditions is not satisfactory.

8.0 Any other conditions or alteration in the above conditions shall have to be implemented by the project authorities in a time bound manner.

9.0. Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Act, 1997.

10.0 The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 the Air (Prevention and Control of Pollution) Act, 1981 the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules.



(Dr. P. B. Rastogi)  
Director

Copy to :

1. The Secretary, Department of Environment, Govt. of Jharkhand, Jharkhand.
2. Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
3. Chairman, Jharkhand Pollution Control Board, Jharkhand, Town Administrative Building, H.E.C., Dhruwa, Raanchi - 824004, Jharkhand.
4. The Chief Conservator of Forests (Eastern), Regional Office (EZ), A/3, Chandrasekharpur, Bhubaneswar - 751 023, Orissa.
5. Adviser (IA-II), Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
6. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
7. Monitoring Cell
8. Guard File.
9. Record File.



(Dr. P. B. Rastogi)  
Director

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New Delhi - 110 003

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Telefax : 011: 2436 7668  
Dated 13<sup>th</sup> July, 2009

To. ✓  
The Managing Director  
M/s Bokaro Jaypee Cement Ltd.  
64/4, Site-IV, Sahibabad Industrial Area  
Sahibabad - 201010, Ghaziabad  
Uttar Pradesh.

E-mail : [pk.goel@jalindia.co.in](mailto:pk.goel@jalindia.co.in) ; Fax No. : 020-2896725 ;

Subject : Cement Grinding Plant (2.10 MTPA) at Village Kanari, Tehsil, Char, District Bokaro, Jharkhand by M/s Bokaro Jaypee Cement Ltd.-reg.

Ref. : Your letter no. BoJCL/EIA/MOEF/Let\_2 dated 30<sup>th</sup> April, 2009.

Sir,

Kindly refer above mentioned letter no. BoJCL/EIA/MOEF/Let\_2 dated 30<sup>th</sup> April, 2009 where you have informed to the Ministry that M/s Bokaro Jaypee Cement Ltd. have earlier proposed for the Cement Grinding Plant (2.10 MTPA) at Village Kanari, Tehsil, Char, District Bokaro, Jharkhand inside the campus of the Steel Authority of India Ltd. (SAIL) after signing a proper lease deed but unable to start construction at the proposed project site due to unforeseen reasons and have purchased 66 acre land at a distance of 2 km. in the notified Bokaro Industrial Area Development Authority area (BIADA), P.O. Balidih, District Bokaro, Jharkhand.

2.0 You have also informed to the Ministry that all the information like capacity of the Cement Grinding Plant (2.10 MTPA), project cost, budget allocated for the environment management plans, raw material requirement, air pollution control devices (APCD) proposed, source and quantity of water, green belt development in 33 % area, power requirement from DVC etc. are same and no change is proposed.

3.0 No public hearing/consultation is required due to project being located in Bokaro Industrial Area Development Authority (BIADA) area, P.O. Balidih, District Bokaro, Jharkhand as per Section (iii), Stage (3), Para (i)(b) of EIA Notification 2006.

4.0 The Ministry examined the matter. It is noted that environment clearance to M/s Bokaro Jaypee Cement Ltd. for their Cement Grinding Plant (2.10 MTPA) at Village Kanari, Tehsil, Char, District Bokaro, Jharkhand has already been accorded vide Ministry's letter no. J-11011/823/2008-IA II (I) dated 1<sup>st</sup> January, 2009 and no change is proposed in the proposal earlier submitted as mentioned above except location of the project at notified Bokaro Industrial Area Development Authority (BIADA), P.O. Balidih, District Bokaro, Jharkhand. The Ministry has no objection for installation of Cement Grinding Plant (2.10 MTPA) at new location viz. Bokaro Industrial Area Development Authority (BIADA), P.O. Balidih, District Bokaro, Jharkhand by M/s Bokaro Jaypee Cement Ltd.

5.0 You are requested to submit an 'Affidavit' indicating that all the environment conditions stipulated for the Cement Grinding Plant (2.10 MTPA) at Village Kanari, Tehsil, Char, District Bokaro, Jharkhand shall now be implemented at new location viz. Bokaro Industrial Area

Development Authority (BIADA) area, P.O. Balidih, District Bokaro, Jharkhand by M/s Bokaro Jaypee Cement Ltd.

6.0 This letter should be kept with the original environment clearance letter no. J-11011/823/2008- IA II (I) dated 1<sup>st</sup> January, 2009.

7.0 A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad / Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions / representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.

8.0 The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO<sub>2</sub>, NO<sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.

9.0 The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB.

10.0 The environmental statement for each financial year ending 31<sup>st</sup> March in Form-V as 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, shall also be put on the website of the company alongwith the status of compliance of environmental conditions and shall also be sent to the respective Regional Offices of the MOEF by e-mail

This letter is issued after prior approval from the competent authority in the Ministry

*(Signature)*  
13/1/09  
(Dr. P. B. Rastogi)  
Director

Copy to :

1. The Secretary, Department of Environment, Govt. of Jharkhand, Jharkhand.
2. Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi – 110 032.
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*(Signature)*  
13/1/09  
(Dr. P. B. Rastogi)  
Director