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F. No. J-11011/51/2007- IA II (I)
Government of India
Ministry of Environment and Forests
(I.A. Division)

Paryavaran Bhawan
CGO Complex, Lodhi Road
New Delhi - 110 003

E-mail : pb.rastogi@nic.in
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Dated 9th August, 2007

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To,
M/s Jaiprakash Associates Ltd.
Jaypee Vihar, Majhgawn
Rampur Naikin, Sidhi, M. P.

E-mail : vs.bajaj@jalindia.co.in ; Fax No. : 07802-280212

Subject : Cement Plant (2.0 MTPA), Clinker Plant (1.5 MTPA) and Captive Power Plant (35 MW) at Majhgawn, Rampur Naikin, Sidhi, M.P. by M/s Jaiprakash Associates Ltd. - Environmental clearance reg.

Sir,
Kindly refer your letter no. JAL/JSCP/2006-7 dated 15th March, 2007 alongwith project documents including Application in Schedule II, Questionnaire, EIA/EMP seeking environmental clearance under the EIA Notification, 1994 and subsequent clarifications furnished vide communications dated 16th April, 2007 and 5th May, 2007 regarding above mentioned cement project.

2.0 The Ministry of Environment and Forests has examined your application. It is noted that the proposal is for Cement Plant (2.0 MTPA), Clinker Plant (1.5 MTPA) and Captive Power Plant (35 MW) at Majhgawan, Sidhi, M. P. by M/s Jaiprakash Associates Limited. No national park, wildlife sanctuaries are located within 10 km. radius of the project site. Govindgarh Reserve forest is located at 0.2 km. distance in NW direction. No R & R and forest land is involved. Total 120.6 ha land is acquired. Total cost of the project is Rs. 550 Crores and a sum of Rs. 72.81 Crores is allocated for environmental protection measures.

3.0 Limestone (2,50,000 TPA) will be sourced from Captive mine and have applied for the environmental clearance. Clay (25,500 TPA) and Laterite (10,350 TPA) will be sourced from nearby areas. Coal (50,000 TPA) for cement plant and Captive Power Plant (CPP) will be sourced from Central Coal fields. Gypsum (4,380 TPA) will be sourced from nearby areas. Fly ash (32,700 TPA) generated by CPP will be used for manufacturing Pozzolona Portland Cement (PPC).

4.0 Public hearing meeting was held on 1st April, 2007.

5.0 The Ministry of Environment and Forests hereby accords environmental clearance to the above project under the provisions of EIA Notification dated 14th September, 2006 subject to strict compliance to the following specific and general conditions:

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A. SPECIFIC CONDITIONS :

- i. Continuous monitoring system to monitor gaseous emissions shall be provided and limit of SPM shall be controlled within 50 mg/Nm^3 by installing adequate air pollution control system. On-line monitoring data shall be submitted to the MPPCB and CPCB regularly.
- ii. Electrostatic precipitator (ESP) to Captive Power Plant (CPP) and clinker cooler ; Bag house to kiln/raw mill and coal mill; air jet type bag filters at transfer points and bag filters to raw mill hopper, crushing plant, blending silo, cement silo and clinker storage shall be provided.
- iii. Secondary fugitive emissions shall be controlled as per the CPCB guidelines.
- iv. Total water requirement from Bansagar Canal shall not exceed $4,506 \text{ m}^3/\text{day}$ as per the permission accorded by the Water Resource Department, Govt. of M.P. vide letter dated 8th March, 2007. The wastewater from CPP and domestic effluent shall not exceed $897 \text{ m}^3/\text{day}$ and $555 \text{ m}^3/\text{day}$ and all the treated wastewater shall be recycled and reused in green belt development, dust suppression in raw material area, coal yard and for ash quenching. 'Zero' discharge shall be strictly adopted and no effluent from the process shall be discharged outside the premises. Domestic effluent shall be properly treated and used for green belt development and dust suppression.
- v. The fly ash shall be stored in fly ash silo and 100% utilized in cement plant to manufacture PPC. Bottom ash shall be used for back filling of mines. The dust generated shall be properly recycled and reutilized in the cement plant itself. STP sludge shall be utilized as manure for green belt development within the premises. Used oil and grease shall be sold to the authorized recyclers/ reprocessors.
- vi. As proposed in EIA/EMP, green belt shall be developed in 40 ha. (33 %) out of total 120.626 ha. as per the CPCB guidelines to mitigate the effects of the gaseous emissions.
- vii. All the recommendations of the Corporate Responsibility or Environmental Protection (CREP) shall be strictly followed and SPM concentrations below 50 mg/Nm^3 shall be maintained in kiln, coal mill, cement mill and clinker cooler.
- viii. A provision shall be made for the use of high calorific value waste in the cement kiln.
- ix. Prior permission from the State Forest Department regarding impact of the proposed cement plant on the Govindgarh Reserve Forest shall be obtained and compliance to all the recommendations shall be ensured.

B. GENERAL CONDITIONS :

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

- iii. The gaseous and particulate matter emissions from various units shall conform to the standards prescribed by the MPPCB. At no time, particulate emissions from the cement plant including kiln, coal mill, cement mill, cooler shall exceed beyond the permissible limit. 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.
- iv. At least four ambient air quality monitoring stations shall be established in the down wind direction as well as where maximum ground level concentration of SPM, SO₂ and NO_x are anticipated in consultation with the MPPCB. 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 MPPCB and data on ambient air quality and stack emissions shall be regularly submitted to this Ministry including its Regional Office at Bhopal, MPPCB and CPCB once in six months. The instruments used for ambient air quality monitoring shall be calibrated time to time.
- v. The company shall install adequate dust collection and extraction system to control fugitive dust emissions at material transfer points by concreting/asphalting the roads, providing water spray system, covered stock pile for clinker storage and gypsum, storage of fly ash in silo, water sprinkling at limestone and coal handling area. Storage of other raw materials shall be in closed roof sheds. Covered conveyer belts shall be used to reduce fugitive emissions within permissible limit.
- vi. Industrial wastewater shall be properly collected and treated 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. The treated wastewater shall be utilized for plantation purpose.
- vii. 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).
- viii. Proper housekeeping and adequate occupational health programmes shall be taken up. Occupational Health Surveillance programme shall be done on a regular basis and records maintained properly for at least 30-40 years. The programme shall include lung function and sputum analysis tests once in six months. Sufficient preventive measures shall be adopted to avoid direct exposure to dust etc.
- ix. The company shall 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.
- x. The company shall undertake eco-development measures including community welfare measures in the project area.
- xi. The project proponent shall also comply with all the environmental protection *measures and safeguards recommended in the EIA / EMP.*

- xii. A separate environmental management cell with full fledged laboratory facilities to carry out various management and monitoring functions shall be set up under the control of Senior Executive.
- xiii. As mentioned in the EIA/EMP, Rs. 72.81 Cr. and Rs. 2.43 Crores earmarked towards the capital cost and recurring cost/annum for environment pollution control measures shall be used exclusively to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. Time bound implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Ministry. The funds so provided shall not be diverted for any other purpose.
- xiv. The Regional Office of this Ministry at Bhopal / CPCB / MPPCB shall monitor the stipulated conditions. A six monthly compliance report and the monitored data alongwith statistical interpretation shall be submitted to them regularly.
- xv. 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.
- xvi. 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 M.P. Pollution Control Board / Committee and may also be seen at Website of the Ministry of Environment and Forests at <http://envfor.nic.in>. This shall 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 Bhopal.

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 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)
Additional Director

Copy to:

1. The Secretary, Department of Environment, Govt. of Madhya Pradesh, Bhopal, M.P.
- ✓ 2. The Chief Conservator of Forests (Central), Ministry of Environment & Forests, Regional Office, Link Road No.3, E - 5, Arera Colony, Bhopal - 462 016, M.P.
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. The Chairman, Madhya Pradesh Pollution Control Board, Paryavaran Parisar, Arera Colony, Bhopal - 462 016, M.P.
5. Adviser (IA) 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. Guard File.
8. Monitoring File.
9. Record File.

P. B. Rastogi
9/8/07

(Dr. P. B. Rastogi)
Additional Director