

(40)

No. J-11015/578/2007-IA.II (M)

Government of India
Ministry of Environment and Forests

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

Dated the 23rd March, 2009

To

M/s Jaiprakash Associates Limited
Jaypee Sidhi Cement Plant,
Jaypee Vihar, P.O. Bharatpur,
District Sidhi,
Madhya Pradesh- 486776
E-mail: Jscp.mines@jalindia.com
Ds.deepak@jalindia.com
ajaytewari@jalindia.co.in

Subject: Chormari-Degarhat Limestone Mining Project of M/s Jaiprakash Associates Limited, located in Village(s) Chormari and Degarhat, Tehsil Rampur-Baghelan, District Satna, Madhya Pradesh -environmental clearance regarding.

Sir,

This has reference to your letter No. JAL/CO-ORD/2008-09 dated 05.12.2008 and subsequent letters dated 12.01.2009, 23.01.2009 and 16.02.2009 on the subject mentioned above. The Ministry of Environment and Forests had earlier prescribed additional terms of reference (TORs) to the project on 10.12.2007 for including in the already prepared EIA report. The proposal is for opening of a new mine for production of 0.5 million tonnes per annum (million TPA) of limestone for their captive use in the cement plant. The total mine lease area of the project is 102.983ha, out of which 26.098ha is an agricultural land and 76.885ha is wasteland. No forestland is involved. Area proposed for mining is 82ha, an area of 0.25ha is kept for infrastructure, 0.5ha for roads, 5ha for green belt and 15.233ha is others (undistributed area). There is a first order stream passing through the mine lease area. The Karihari River is flowing in the buffer zone of the mine at a distance of 1.5km (E) from the mine lease boundary. In addition, the Dehi nallah, the Dila nallah, the Nir Nadi and the Nakata nallah are flowing in the buffer zone of the mine at distance of 1.6km (NE), 6.9km (WNW), 8.2km (SW) and 8.4km (N) respectively from the mine lease boundary. It has been reported that there is a canal in the ENE and SSE direction of the lease area. Pre-mining surface drainage pattern has been submitted and it has been reported that the first order stream passing through the mine lease will be suitably diverted. No ecologically sensitive area such as national park/wildlife sanctuary/biosphere reserve/tiger reserve/ elephant reserve etc. is reported to be located in the core and buffer zone of the mine and that the area does not report to form

..2/-

corridor for schedule I fauna. In support of this, a letter dated 15.02.2009 along with an authenticated map has been provided through the Divisional Forest Officer, Satna, Madhya Pradesh. The Sathari Reserve Forest is reported to be located in the buffer zone of the mine at a distance of 3.1km from the mine lease boundary. The mine working will be opencast by mechanized method involving drilling and blasting. The targetted production capacity of the mine is 5,00,000TPA(0.5million TPA) of limestone and the life of mine is 21years. Approximately 1667TPD of mineral will be transported through the road. The topography of the area is flat at an elevation above mean sea level ranging from 301m -313m. The ultimate working depth of mine will be 275m RL. The ground water table in the core zone reported to vary from 266m RL (pre-monsoon) to 271m RL (post-monsoon). The mine working will not intersect the groundwater table. The peak water requirement for the project is estimated as 149m³ per day, which will be met from the existing Naubasta mine reservoir. It has been reported that four households from the Degarhat Village comprising a population of 16 people are in the core zone of the mine. Alternate land will be provided to the owners of the four houses getting shifted from the mine lease area as per the National R&R policy. Approximately 15,000m³ per month of solid waste comprising 2500m³ per month of top soil (silty clay , clayey loam) and 12,500m³ per month of over burden (upper magnesian shale) will be generated. It is estimated that 3.6million m³ of over burden will be generated during the life of the mine, which will be temporarily dumped externally for the initial one year. Backfilling will commence from the 2nd year onwards and there will be no external OB dump after the 3rd year of operation. Out of the total excavated area of 82ha, an area of 46ha will be backfilled, 33ha of area will be developed as water body and 3ha area will be put for public use after afforestation during the post mining stage. Plantation will be raised in an area of 51ha at the end of the mine life. The public hearing of the project was held on 29.06.2008 as per the EIA Notification, 2006 for production of 0.5million TPA of limestone for lease area of 102.983ha. The Indian Bureau of Mines had approved mining plan along with the progressive mine closure plan of the project on 27.11.2006 for mining lease area of 102.983. The capital cost of the project is Rs.1000Lakhs and the capital cost for the environmental protection measures is proposed as Rs.49.4Lakhs. The annual recurring cost towards the environmental protection measures is proposed as Rs.33.55Lakhs.

2. The Ministry of Environment and Forests has examined the application in accordance with the EIA Notification 2006 and hereby accords environmental clearance under the provisions thereof to the above mentioned Chormari-Degarhat Limestone Mining Project of M/s Jaiprakash Associates Limited for an annual production capacity of 5,00,000tonnes(0.5million tonnes) of limestone by opencast mechanised method involving total mining lease area of 102.983ha, subject to implementation of the following conditions and environmental safeguards.

3/-

A. Specific conditions

- (i) The project proponent shall obtain Consent to Establish from the Madhya Pradesh Pollution Control Board and effectively implement all the conditions stipulated therein.
- (ii) The environmental clearance is subject to approval of the State Landuse Department, Government of Madhya Pradesh for diversion of 322.49ha agricultural land for non-agricultural use.
- (iii) The project proponent shall effectively address the concerns raised by the locals in the public hearing as well as during consideration of this project, while implementing this project.
- (iv) The mining operations shall be restricted to above ground water table and it should not intersect the groundwater table. In case of working below ground water table, prior approval of the Ministry of Environment and Forests and the Central Ground Water Authority shall be obtained, for which a detailed hydro-geological study shall be carried out.
- (v) The project proponent shall ensure that no natural watercourse and/or water resources shall be obstructed due to any mining operations. Adequate measures shall be taken while diverting all the first order streams and the seasonal nallahs passing through the mining lease area during the course of mining operation.
- (vi) The top soil shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for a long. The topsoil shall be used for land reclamation and plantation.
- (vii) The over burden generated during the initial first year due to mining operation shall temporarily be stacked at earmarked dump site(s) only and thereafter concurrently backfilled. Backfilling shall commence from the 2nd year onwards and there shall be no external over burden dump after the 3rd year. The backfilled area of 46ha shall be reclaimed and rehabilitated by plantation. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment & Forests and its Regional Office located at Bhopal on six monthly basis.
- (viii) The void left unfilled in an area of 33ha shall be converted into water body. The higher benches of excavated void/mining pit shall be terraced and plantation done to stabilize the slopes. The slope of higher benches shall be made gentler for easy accessibility by local people to use the water body. Peripheral fencing shall be carried out along the excavated area.

PA
4/-

- (ix) Catch drains and siltation ponds of appropriate size shall be constructed around the working pit, soil, mineral and temporary OB dumps to prevent run off of water and flow of sediments directly into the Karihari River, the Dehi nallah, the Dila nallah, the Nir Nadi, the Nakata nallah, the canal and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains should be regularly desilted particularly after the monsoon and maintained properly.

Garland drains, settling tanks and check dams of appropriate size, gradient and length shall be constructed both around the mine pit and temporary over burden dumps to prevent run off of water and flow of sediments directly into the Karihari River, the Dehi nallah, the Dila nallah, the Nir Nadi, the Nakata nallah, the canal and other water bodies and sump capacity should be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt material. Sedimentation pits should be constructed at the corners of the garland drains and desilted at regular intervals.

- (x) Dimension of the retaining wall at the toe of the temporary dumps and the OB benches within the mine to check run-off and siltation should be based on the rain fall data.
- (xi) Plantation shall be raised in an area of 51ha including a 7.5m wide green belt in the safety zone around the mining lease by planting the native species around ML area, backfilled and reclaimed area, roads etc. in consultation with the local DFO/Agriculture Department. In addition, plantation shall also be raised around the water body and benches of the excavated pit. The density of the trees should be around 2000 plants per ha.
- (xii) Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of SPM and RSPM such as haul road, loading and unloading point and all transfer points. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.
- (xiii) Regular monitoring of water quality upstream and downstream of Dehi nallah shall be carried out and record of monitoring data should be maintained and submitted to the Ministry of Environment and Forests, its Regional Office, Bhopal, the Central Groundwater Authority, the Regional Director, Central Ground Water Board, the State Pollution Control Board and the Central Pollution Control Board.

QA
70
5/-

- (xiv) The project authority shall implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board.
- (xv) Regular monitoring of ground water level and quality should be carried out in and around the mine lease by establishing a network of existing wells and constructing new piezometers during the mining operation. The monitoring should be carried out four times in a year, pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the data thus collected may be sent regularly to the Ministry of Environment and Forests and its Regional Office Bhopal, the Central Ground Water Authority and the Regional Director, Central Ground Water Board. If at any stage, it is observed that the groundwater table is getting depleted due to the mining activity, necessary corrective measures shall be carried out.
- (xvi) Suitable rainwater harvesting measures on long term basis shall be planned and implemented in consultation with the Regional Director, Central Ground Water Board.
- (xvii) Appropriate mitigative measures should be taken to prevent pollution of the Karihari River in consultation with the State Pollution Control Board.
- (xviii) Prior Permission from the competent authority shall be obtained for drawal of water (surface water and ground water, if any), required for the project.
- (xix) Minerals handling area shall be provided with adequate number of high efficiency dust extraction system. Loading and unloading areas including all the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated.
- (xx) Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The mineral transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded.
- (xxi) Blasting operation shall be carried out only during the daytime. Controlled blasting should be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.
- (xxii) The project proponent shall take all mitigative measures during the mining operation to ensure that the buildings/ structures in the nearby areas shall not be affected due to blasting.

6/-

- (xxiii) Drills shall either be operated with dust extractors or equipped with water injection system.
- (xxiv) Consent to operate shall be obtained from the State Pollution Control Board prior to start of production from the mine.
- (xxv) Sewage treatment plant shall be installed for the colony. ETP shall also be provided for the workshop and wastewater generated during the mining operation.
- (xxvi) The project authorities shall undertake sample survey to generate data on pre-project community health status within a radius of 1 km from proposed mine.
- (xxvii) Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly.
- (xxviii) Land oustees and land losers/affected people shall be compensated and rehabilitated as per the National Policy on Resettlement and Rehabilitation of project Affected Families (NPRR).
- (xxix) 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.
- (xxx) A Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval.

B. General conditions

- (i) No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment & Forests.
- (ii) No change in the calendar plan including excavation, quantum of mineral limestone and waste should be made.
- (iii) Conservation measures for protection of flora and fauna in the core & buffer zone should be drawn up in consultation with the local forest and wildlife department.

- (iv) Atleast four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for RSPM, SPM, SO₂ & NO_x monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board.
- (v) Data on ambient air quality (RSPM, SPM, SO₂ & NO_x) should be regularly submitted to the Ministry including its Regional office located at Bhopal and the State Pollution Control Board / Central Pollution Control Board once in six months.
- (vi) Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.
- (vii) Measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc should be provided with ear plugs / muffs.
- (viii) Industrial waste water (workshop and waste water from the mine) should be properly collected, 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. Oil and grease trap should be installed before discharge of workshop effluents.
- (ix) Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.
- (x) The project authorities should inform to the Regional Office located at Bhopal regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.
- (xi) A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.
- (xii) The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry and its Regional Office located at Bhopal.

9/8/-

- (xiii) The Regional Office of this Ministry located at Bhopal 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.
- (xiv) The project proponent shall submit six monthly report on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forests, its Regional Office, Bhopal, Central Pollution Control Board and State Pollution Control Board. The project proponent shall upload the status of compliance of the environment clearance conditions on their website and update the same periodically and simultaneously send the same by e-mail to the Regional Office, Ministry of Environment and Forests, Bhopal.
- (xv) A copy of clearance letter will be marked to concerned Panchayat / local NGO, if any, from whom suggestion / representation has been received while processing the proposal. The clearance letter shall also be put on the web site of the company.
- (xvi) The State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and the Collector's office/ Tehsildar's Office for 30 days.
- (xvii) The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue 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 also at web site of the Ministry of Environment and Forests at <http://envfor.nic.in> and a copy of the same should be forwarded to the Regional Office of this Ministry located Bhopal.

3. The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.

4. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.

5. The above conditions will 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 and the Public Liability Insurance Act, 1991 along with their amendments and rules made thereunder and also any other orders passed by the Hon'ble Supreme Court of India/ High Court of Madhya Pradesh and any other Court of Law relating to the subject matter.

9/-

6. 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 Authority Act, 1997.



(SATISH C. GARKOTI)
Additional Director (S)

Copy to:

- (i) The Secretary, Ministry of Mines, Government of India, Shastri Bhavan, New Delhi.
- (ii) The Secretary, Department of Mines & Geology, Government of Madhya Pradesh, Secretariat, Bhopal.
- (iii) The Secretary, Department of Environment, Government of Madhya Pradesh, Secretariat, Bhopal.
- (iv) The Chief Conservator of Forests, Regional Office (WZ), Ministry of Environment & Forests, Kendriya Paryavaran Bhawan, Link Road No.3, Ravi Shankar Nagar, Bhopal -462 016
- (v) The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office complex, East Arjun Nagar, New Delhi-1100032.
- (vi) The Member Secretary, Central Ground Water Authority, A-2, W3, Curzon Road Barracks, K.G. Marg, New Delhi-110001.
- (vii) The Chairman, Madhya Pradesh State Pollution Control Board, Paryavaran Parisar, E-5, Arera Colony, Bhopal - 462016
- (viii) The Controller General, Indian Bureau of Mines, Indira Bhavan, Civil Lines, Nagpur-440 001.
- (ix) The District Collector, Satna District, Madhya Pradesh.
- (x) EI Division, Ministry of Environment and Forests, Paryavaran Bhavan, C. G. O. Complex, Lodi Road, New Delhi-110 003.
- (xi) Monitoring File.
- (xii) Guard File.
- (xiii) Record File.

No. J-11015/578/2007-IA.II (M)
Government of India
Ministry of Environment and Forests

19/9/10
Paryavaran Bhawan
CGO Complex, Lodi Road,
New Delhi-110 003

Dated the 17th September, 2010

To

✓
M/s Jaiprakash Associates Ltd.
P.O. Jaypee Nagar,
District Rewa,
Madhya Pradesh-486450
E-mail- pankaj.verma@jalindia.co.in

Subject: Chormari-Degarhat Limestone Mining Project of M/s Jaiprakash Associates Limited, located in Village(s) Chormari and Degarhat, Tehsil Rampur-Baghelan, District Satna, Madhya Pradesh - environmental clearance regarding.

Sir,

This has reference to your letter No. JAL/COORD/MINES/2009-10 dated 07.01.2010 regarding above mentioned project requesting for correction in the environmental clearance letter with regard to (i) address and (ii) Specific Condition no. (ii).

2. It has been mentioned that the above said project was earlier accorded environmental clearance by the Ministry vide its letter of even number dated 23.03.2009 for production of 0.5million TPA of limestone for captive use in their cement plants involving mine lease area of 102.983ha subject to various conditions and environmental safeguards.

3. The Ministry of Environment and Forests has examined your request. In partial modification to this Ministry's letter of even number dated 23.03.2009, the following changes are incorporated in the environmental clearance letter.

| S.NO. | FOR | READ |
|-------|---|--|
| 1. | ADDRESS Page-1 "M/s Jaiprakash Associates Limited, Jaypee Sidhi Cement Plant, Jaypee Vihar, P.O. Bharatpur, District Sidhi, Madhya Pradesh- 486776, E-mail: Jscp.mines@jalindia.com , Ds.deepak@jalindia.com , ajaytewari@jalindia.co.in " | ADDRESS Page-1 "M/s Jaiprakash Associates Ltd., P.O. Jaypee Nagar, District Rewa, Madhya Pradesh-486450, E-mail- pankaj.verma@jalindia.co.in " |
| 2. | A. Specific Condition Page-3. "(ii)The environmental clearance is | A. Specific Condition Page-3. "(ii)The environmental clearance is |

| | |
|--|--|
| subject to approval of the State Landuse Department, Government of Madhya Pradesh for diversion of 322.49ha agricultural land for non-agricultural use". | subject to approval of the State Landuse Department, Government of Madhya Pradesh for diversion of 26.098ha agricultural land for non-agricultural use". |
|--|--|

4. In addition, Ministry has decided to stipulate following environmental safeguards to be included in the environmental clearance earlier accorded to this project vide letter of even number dated 23.03.2009.

A. Specific Condition

"The critical parameters such as such as RSPM (Particulate matter with size less than 10micron i.e., PM₁₀) and NO_x in the ambient air within the impact zone shall be monitored periodically. Further, quality of discharged water shall also be monitored [(TDS, DO, PH and Total Suspended Solids (TSS)]. The monitored data shall be uploaded on the website of the company as well as displayed on a display board at the project site at a suitable location near the main gate of the Company in public domain. The Circular No. J-20012/1/2006-IA.II(M) dated 27.05.2009 issued by Ministry of Environment and Forests, which is available on the website of the Ministry www.envfor.nic.in shall also be referred in this regard for its compliance".

B. General Conditions

"The environmental statement for each financial year ending 31st 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 along with the status of compliance of environmental clearance conditions and shall also be sent to the Regional Office of the Ministry of Environment and Forests, Bhopal by e-mail".

5. All other conditions as stipulated by the Ministry in its clearances of even number dated 23.03.2009 shall remain unchanged.


(SATISH.C.GARKOTI)
SCIENTIST 'E'

Copy to:

- (i) The Secretary, Ministry of Mines, Government of India, Shastri Bhavan, New Delhi.
- (ii) The Secretary, Department of Mines & Geology, Government of Madhya Pradesh, Secretariat, Bhopal.
- (iii) The Secretary, Department of Environment, Government of Madhya Pradesh, Secretariat, Bhopal.

- (iv) The Chief Conservator of Forests, Regional Office (WZ), Ministry of Environment & Forests, Kendriya Paryavaran Bhawan, Link Road No.3, Ravi Shankar Nagar, Bhopal -462 016
- (v) The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office complex, East Arjun Nagar, New Delhi-1100032.
- (vi) The Member Secretary, Central Ground Water Authority, A-2, W3, Curzon Road Barracks, K.G. Marg, New Delhi-110001.
- (vii) The Chairman, Madhya Pradesh State Pollution Control Board, Paryavaran Parisar, E-5, Arera Colony, Bhopal - 462016
- (viii) The Controller General, Indian Bureau of Mines, Indira Bhavan, Civil Lines, Nagpur-440 001.
- (ix) The District Collector, Satna District, Madhya Pradesh.
- (x) EI Division, Ministry of Environment and Forests, Paryavaran Bhavan, C. G. O. Complex, Lodi Road, New Delhi-110 003.
- (xi) Monitoring File.
- (xii) Guard File.
- (xiii) Record File.