

JAYPEE REWA PLANT

JAYPRAKASH
ASSOCIATES LIMITED

JRP/Env./2021-22/

Date: 20th May 2021
Cement Division

The Director,
Ministry of Environment Forest & Climate Change
Govt. of India, Kendriya Paryavaran Bhawan
Link Road No. 3, E-5 Ravi Shankar Nagar
Bhopal – 462016 (MP)

**Sub: Submission of Half Yearly Environmental Clearance Compliance Report for the Period
October 2020 - March 2021 of M/s Jaiprakash Associates Ltd.**

Dear Sir,

Please find enclosed herewith the Half Yearly Environmental Clearance Compliance report, in hard and soft copy, of below mentioned Mines of M/s Jaiprakash Associates Ltd.:

- **Degrahat Devmau Daldal Lime Stone Mine (ML area - 816.519 ha):** EC Reference No. - J-11015/354/2006 – IA.II (M) Dated May 28, 2008.
- **Bela Devmau Daldal Lime Stone Mine (ML area - 355.51 ha):** EC Reference No. - J-11015/353/2006 – IA.II (M) Dated May 28, 2008.
- **Chormari Degrahat Lime Stone Mine (ML area - 102.983 ha):** EC Reference No. - J-11015/578/2007-IA.II (M) Dated. 23-03-2009 & Amendment letter dated- 17/09/2010.

Thanking You

Yours Faithfully
For Jaiprakash Associates Limited



(Authorized Signatory)

CC to:

- 1) **Zonal Officer** - For information please.
Central Pollution Control Board
Shankar Bhawan, 3rd Floor
North T.T Nagar, Bhopal – (M.P.) 462016
- 2) **Member Secretary** - For information please.
Madhya Pradesh pollution Control Board
Paryavaran Parisar, E – 5, Arera Colony
Bhopal (M.P.) 462016
- 3) **Regional Officer** - For information please.
Madhya Pradesh Pollution Control Board
Rewa Road Near Maiher Bypass , Behind Kargil Dhaba, Satna (M.P.)



Name of the Project: Bela-Devmaudaldal Limestone Mine of M/s Jaiprakash Associates Limited for mining Lease area of 355.51 ha. at village Bela & Devmaudaldal, Tehsil: Kotar, District: Satna (M.P.)

Project Code:

Clearance Letter No.: MoEF vide letter no. J-11015/353/2006 – IA.II (M) Dated May 28, 2008

Period of Compliance Report: October'2020 – March' 2021

A. Specific conditions

Cond. No.	Conditions	Status
(i)	The project proponent shall obtain consent to establish from the Madhya Pradesh Control Board and effectively implement all the conditions stipulated therein.	Consent to establish has already been obtained vide letter No. 6996/TS/Mine/MPPCB/ 2008 dtd. 21.08.2008 from MPPCB.
(ii)	The environmental clearance is subject to approval of the State Land use Department, Govt. of Madhya Pradesh for diversion of agricultural land for non agricultural use.	Land has already been approved for mining activities by the State Government of Madhya Pradesh for mine lease area of 355.51 ha.
(iii)	The mining operations shall be restricted to above ground water table and should not intersect groundwater table. In case of working below ground water table, prior approval of the Ministry of Environment and Forests and Central Ground Water Authority shall be obtained, for which a detailed hydro-geological study shall be carried out.	The mine operation will intercept ground water aquifer and inflow of ground water into mine pit will start. This will be pumped out and treated for use in mining operation, dust suppression and irrigation. An application to obtain CGWA permission for working below ground water table and for pumping of ground water has already been submitted vide ref. No. 21-4/589/MP/MIN/ 2017 dtd. 28.12.2017.
(iv)	The project proponent shall ensure that no natural watercourse and/or water resources shall be obstructed due to any mining operations.	No natural water course/resources will be obstructed due to mining activities.
(v)	The top soil shall temporarily be stored at ear marked site(s) only and it should not be kept unutilized for a period more than 3 years. The top soil shall be used for land reclamation and plantation.	Top soil temporarily stored at earmarked site & will be used for land reclamation and plantation.
(vi)	The overburden generated during the initial years due to mining operation shall temporarily be stacked at earmarked dump site(s) only and thereafter concurrently backfilled. Backfilling shall start from the 3 rd year onwards and there shall be no external over burden dump after the 10 th year. The backfilled area of 224.8 ha shall be reclaimed and rehabilitated by plantation. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status should be submitted to the Ministry of Environment & Forests and its Regional Office located at Bhopal on six monthly basis.	OB is stored temporarily at earmarked dump site. Backfilling will be started from 3 rd year onwards after mining activity started.

(vii)	<p>The void left unfilled in an area of 70 ha 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.</p>	<p>70 ha. Land shall be converted into water body. The reclamation and rehabilitation of the abandoned mine pit have been carried out in line with progressive mine closure plan</p>
(viii)	<p>Catch drains and siltation ponds of appropriate size shall be constructed along the working pit, soil, mineral and temporary OB dumps to prevent run off of water and flow of sediments directly into the river and 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 monsoon and maintained properly.</p> <p>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 river and 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.</p>	<p>Catch drains & siltation ponds have been constructed & maintained accordingly. Water collected is used for water spraying on roads, green belt development and for plant purpose.</p> <p>Garland drains, settling tanks, check dams of appropriate size have been constructed. Sump capacity with adequate retention period has been provided to allow proper settling of silt material.</p>
(ix)	<p>Dimensions of the retaining wall at the toe of temporary dumps and OB benches within the mine to check run-off and siltation should be based on the rain fall data.</p>	<p>Temporary dump of OB shall be within the mine lease area with toe bund and garland drain.</p>
(x)	<p>Plantation shall be raised in an area of 234.6 ha including a 7.5 m wide green belt in the safety zone around the mining lease in an area of 9.8 ha by planting the native species around ML area, backfilled and reclaimed area, around water body, roads etc. in consultation with the local DFO/agriculture Department. The density of the trees should be around 2000 plants per ha.</p>	<p>Plantation in reclaimed area will be carried out in consultation with the local DFO/agriculture Department.</p>
(xi)	<p>The project proponent shall develop fodder plots in the non-mineralized area in lieu of use of grazing land.</p>	<p>Noted and Agreed to develop as per the need of villagers</p>
(xii)	<p>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 RPM such as haul road, loading and unloading point and transfer points. It should be ensured that the Ambient Air Quality parameters conform to</p>	<p>Regular water sprinkling is being done on haulage road. Mine development as well as haulage road preparation under progress.</p>

	the norms prescribed by the central Pollution Control Board in this regard.	
(xiii)	The project authority should implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board.	Suitable conservation measures will be implemented to augment ground water resources in the area.
(xiv)	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 Ministry of Environment and Forests and its Regional Office, Bhopal, Central Ground Water Authority and Regional Director, Central Ground Water Board.	Regular monitoring of ground water level & quality is being done.
(xv)	Suitable rainwater harvesting measures on long term basis shall be planned and implemented in consultation with Regional Director, Central Ground Water Board.	Suitable measures of Rain water harvesting shall be implemented in consultation with Regional Director, Central Ground Water Board.
(xvi)	Appropriate mitigative measures should be taken to prevent pollution of Tamas River and Simrawal Nadi in consultation with the State Pollution Control Board.	Appropriate mitigative measures are being taken to prevent pollution of Tamas River and Simrawal Nadi in consultation with the State Pollution Control Board.
(xvii)	Mineral handling plant should 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.	No mineral handling is proposed at the site.
(xviii)	Vehicular emissions should 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 vehicles should be covered with a tarpaulin and shall not be overloaded.	All measures as stipulated are being adopted to control the vehicular emission during transportation.
(xix)	Blasting operation should 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.	Controlled blasting is being carried out to minimize the ground vibrations and to arrest fly rock. Blasting is being carried out only during day time.
(xx)	Drill shall either be operated with dust extractors or equipped with water injection system.	All drill machines are equipped with water injection system.
(xxi)	Consent to operate should be obtained from the State Pollution Control Board prior to start of production from the mine.	Consent to operate has already been granted by MPPCB vide letter No. 3028/TS/Mine/MPPCB/2009 Dtd. 09.04.2009 & 3026/TS/Mine/MPPCB/2009 Dtd. 09.04.2009 and subsequently renewed.
(xxii)	Sewage treatment plant should be installed for the colony. ETP should also be provided	Sewage treatment plant already exists in township of Jaypee Rewa Cement Plant. A centralized Auto workshop

	for workshop and wastewater generated during mining operation.	is established at our exiting plant site equipped with oil & grease trap for treatment of waste water.
(xxiii)	Digital Processing of the entire lease area using remote sensing technique should be done regularly once in three years for monitoring land use pattern and report submitted to Ministry of Environment and Forests and its Regional Office, Bhopal.	Study has been carried out by external agency and report is already submitted to the MoEF, CPCB & MPPCB vide our letter no. JAL/EC/MoEF/2013 – 14 /5108 dated 20.05.2013.
(xxiv)	The project authorities should undertake sample survey to generate data on pre-project community health status within a radius of 1 km from proposed mine.	Noted and Agreed.
(xxv)	Land oustees and land losers/affected people should be compensated and rehabilitated as per the National Policy on Resettlement and Rehabilitation of project affected families (NPRR), 2003.	Land oustees and land losers/affected people are being compensated and rehabilitated as per the National Policy on Resettlement and Rehabilitation of project affected families (NPRR).
(xxvi)	The project proponent should take all precautionary measures during mining operation for conservation and protection of endangered fauna namely common peafowl etc. spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and Wildlife Department. Necessary allocation of funds for implementation of the conservation plan shall be made and the funds so allocated shall be included in the project cost. Copy of action plan may be submitted to the Ministry and its Regional Office within 3 months.	Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and Wildlife Department.
(xxvii)	A final Mine Closure Plan along with details of Corpus Funds should be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval.	Shall be submitted 5 years in advance of final mine closure.

B. General Conditions

Con d. No.	Conditions	Status																	
(i)	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment & Forests.	Noted and Agreed.																	
(ii)	No change in the calendar plan including excavation, quantum of mineral limestone and waste should be made.	Noted and Agreed.																	
(iii)	Periodic monitoring of ambient air quality should be carried out for RPM, SPM, SO ₂ and NO _x . Location of the monitoring 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	Regular monitoring carried out of Ambient Air quality of Core zone as well as buffer zone six monthly average monitoring reports for the Period October'2020 – March' 2021 Core Zone:																	
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	Pollution Control Board. The data so collected should be regularly submitted to the Ministry including its Regional Office located at Bhopal and State Pollution Control Board/Central Pollution Control Board once in six months.	<table border="1"> <tr> <td>Location: Near L / S Loading Site</td> <td>31-37</td> <td>49-56</td> <td>8-11</td> <td>14-20</td> <td>132-169</td> </tr> <tr> <td>Near L / S Unloading Site</td> <td>33-38</td> <td>51-55</td> <td>8-11</td> <td>14-19</td> <td>135-190</td> </tr> <tr> <td>Near Haulage Road</td> <td>31-37</td> <td>48-55</td> <td>8-11</td> <td>15-20</td> <td>142-186</td> </tr> </table> <p>Buffer Zone:</p> <table border="1"> <thead> <tr> <th rowspan="2">Location</th> <th colspan="5">Parameters ($\mu\text{g}/\text{m}^3$)</th> </tr> <tr> <th>PM_{2.5}</th> <th>PM₁₀</th> <th>SO₂</th> <th>NO_x</th> <th>CO</th> </tr> </thead> <tbody> <tr> <td>Near Majhiyar</td> <td>23-26</td> <td>36-43</td> <td>8-11</td> <td>12-18</td> <td>103-143</td> </tr> <tr> <td>Near Janardanpur</td> <td>21-26</td> <td>36-45</td> <td>8-10</td> <td>12-17</td> <td>104-144</td> </tr> <tr> <td>Near Barti</td> <td>22-26</td> <td>37-45</td> <td>6-9</td> <td>13-16</td> <td>106-142</td> </tr> <tr> <td>Near Daldal</td> <td>22-27</td> <td>35-44</td> <td>7-11</td> <td>14-16</td> <td>107-153</td> </tr> </tbody> </table>	Location: Near L / S Loading Site	31-37	49-56	8-11	14-20	132-169	Near L / S Unloading Site	33-38	51-55	8-11	14-19	135-190	Near Haulage Road	31-37	48-55	8-11	15-20	142-186	Location	Parameters ($\mu\text{g}/\text{m}^3$)					PM _{2.5}	PM ₁₀	SO ₂	NO _x	CO	Near Majhiyar	23-26	36-43	8-11	12-18	103-143	Near Janardanpur	21-26	36-45	8-10	12-17	104-144	Near Barti	22-26	37-45	6-9	13-16	106-142	Near Daldal	22-27	35-44	7-11	14-16	107-153
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(iv)	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.	Adequate measures have been adopted for control of noise levels and is maintained below 85 dB (A) in the work environment. Workman engaged in drilling & blasting operation and operators of HEMM have been provided with ear plugs/muffs.																																																					
(v)	Industrial waste water (workshop and waste water from the mine) should be properly collected, Treated so as to conform to be standards prescribed under GSR-422 (E) dated 19 th May 1993 and 31 st December 1993 or as amended from time to time. Oil and grease traps should be installed before discharge of workshop effluents.	A centralized auto workshop exists at Naubasta Lime Stone Mines workshop, all major HEME are serviced and maintained. An oil & grease trap installed at Naubasta workshop treated water meets the standards and is used for haulage road water spraying.																																																					
(vi)	Personal 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.	All necessary PPEs are provided during Mine development work, under OHS Program all workers are examined periodically & corrective/ necessary measures are being taken.																																																					
(vii)	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.	The mine is in operation since 01.06.2017. We have inform to the regional office at Bhopal vide latter no JRP/Env./2018-19/26 Dtd. 10 th Oct 2018.																																																					
(viii)	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.	A well equipped separate environment cell with qualified personnel has already been set up for looking after environment studies and monitoring.																																																					
(ix)	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.	The expenditure incurred for environmental protection measures from October' 2020 – March' 2021 is Rs 3.40 lacs.																																																					
(x)	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.	Noted and Agreed.																																																					
(xi)	The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment &	Regular reports are been submitted and last report is submitted to MoEF, CPCB & MPPCB vide letter no. JRP/Env./2020-21/48 dated 4 th November 2020																																																					

	Forests, its Regional Office, Bhopal, Central Pollution Control Board and State Pollution Control Board.	
(xii)	A copy of clearance letter will be marked to the concerned panchayat /local NGO, if any, from whom suggestion/representation, if any was received while processing the proposal.	Already complied & submitted to Panchayat and taken the receipt.
(xiii)	State Pollution Control Board should display a copy of the clearance letter at the regional office, District industry Centre and Collector's Office/Tehsildaars's office for 30 days.	Noted and Agreed.
(xiv)	The project authorities should advertise at least in two local news papers 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 website of the Ministry of Environment and Forest at http://envfor.nic.in and a copy of the same should be forwarded to the Regional office of the Ministry located at Bhopal.	Published in Dainik Jagran, Navbharat, Deshbandhu local papers dated 06.06.2008, 08.06.2008, and 08.06.2008.
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.	Noted and Agreed.
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 environment (protection) act, 1986.	Noted and Agreed.
5	The above conditions will 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 made there under 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.	Noted and Agreed.
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 Act, 1997.	Noted and Agreed.