

JRP/Env./2022-23

Date: 21st May 2022

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'2021 – March'2022 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: Chormari-Degarhat Limestone Mine (A unit of Jaiprakash Associates Limited) ML area-102.983ha. Mining Capacity 0.5 MTPA, Located at Village Chormari & Degarhat, Tehshil: Kotar, Distt. Satna (M.P)

Project Code:

Clearance Letter No.: MoEF vide Letter No. J-11015/578/2007-IA.II (M) Dated. 23-03-2009 & Amendment letter dated-17/09/2010

Period of Compliance Report: October'2021 – March'2022

A. Specific conditions

Cond. No.	Conditions	Status
i	The project proponent shall obtain Consent to Establish from the Madhya Pradesh Pollution Control Board and effectively implement all the conditions stipulated therein	Consent to establish has been obtained vide letter no. 2466/TS/MINE/MPPCB/2011 dtd.14.03.2011 from MPPCB Bhopal.
ii	The environmental clearance is subject to approval of the State Land use Department, Government of Madhya Pradesh for diversion of 26.098 ha agricultural land for non-agricultural use.	Land has already been sanctioned for mining by the Government of Madhya Pradesh vide letter no F-16/2003/12/2 Bhopal dated 21/02/2006 for mining lease area of 102.983 ha.
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.	Being complied.
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 Forest and the 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. NOC for drawl of ground water received from Central Ground Water Authority (CGWA) vide ref. no. CGWA/NOC/MIN/ORIG/2021/13586 dated 01.11.2021. This is valid up to 31.10.2023.
v	The project proponent shall ensure that no natural watercourse and/or water resources are obstructed due to any mining operations. Adequate measures shall be taken while diverting the first order streams & the seasonal nallahs passing through the mining lease area during the course of mining operation.	No natural water course/ water resources will be obstructed due to mining activities.
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.	Top soil will be stored temporarily at earmarked site & will be utilized for land reclamation and plantation.
vii	The over burden 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 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.	Generated OB during mining operation is being carried out in earmark backfill area.

	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 bases.	
viii	The void left unfilled in an area of 33 ha shall be converted into water body. The higher benches of excavated void /mining pt shall be terraced and plantations 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.	Shall be complied with at the end of mining operation.
ix	<p>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, and 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.</p> <p>Garland drains, setting 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, and 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 setting 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 shall be constructed around working pit and around the waste dump area, Soil, mineral & temporary OB dumps will be maintained accordingly. Water collected will be used for water spraying on haul roads & green belt development etc.</p> <p>Garland drains, settling tanks, check dams, of appropriate size will be constructed. Adequate sump capacity will be provided to take care of safety margin.</p>
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.	Shall be complied.
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 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.	Shall be complied.
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	Regular water spraying is carried out on haul road, loading, unloading points & transfer points. Regular monitoring is carried out to confirm CPCB norms.

	unloading point and 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 Boards, the State Pollution Control Board and the Central Pollution Control Board.	Regular monitoring of water quality in upstream and downstream of Dehi nallah will be carried out and submitted to MoEF, CPCB, CGWA & CGWB and MPPCB.
xiv	The project authority shall implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, Central Water Board.	Suitable conservation measures will be implemented to augment ground water resources in the area in consultation with Regional Director CGWB.
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 Boards. 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.	Regular monitoring of ground water level and quality is being done regularly and reports are submitted periodically to Regional office CGWB.
xvi	Suitable rainwater harvesting measures on long term basis shall be planned and implemented in consultation with the Regional Director, Central Ground Water Board.	Suitable measures for rain water harvesting will be adopted in consultation with 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.	All mitigative measures will be taken to prevent pollution of Karihari river in consultation with the State Pollution Control Board.
xviii	Prior permission from the competent authority shall be obtained for drawl of ground water, (surface water and ground water, if any), required for the project.	No Ground water is used for mine operation. Water is sourced from existing Naubasta mine reservoir and later on it will be sourced from mine sump developed in lease area. NOC for drawl of ground water received from Central Ground Water Authority (CGWA) vide ref. no. CGWA/NOC/MIN/ORIG/2021/13586 dated 01.11.2021. This is valid up to 31.10.2023.
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.	No Mineral handling is proposed at the site.
xx	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 mineral transportation shall be carried out through	All measures as stipulated are adopted to control the vehicular emission during transportation.

	the covered trucks 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.	Controlled blasting is carried out to minimize the ground vibrations and fly rock. Blasting is done only during the day time.
xxii	The project proponent shall take all mitigative measures during the mining operation to ensure that the building / structures in the near by areas shall not be affected due to the blasting.	Latest technology are used in blasting to minimize the ground vibration and not affected and nearby structures.
xxiii	Drills shall either be operated with dust extractors or equipped with water injection system.	All the drill machines are 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.	Consent to operate has already been granted by MPPCB vide letter No. 4570/TS/Mine/MPPCB/2013 Dtd. 24.06.2013 and 4568/TS/Mine/MPPCB/2013 Dtd. 24.06.2013 and subsequently renewed.
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.	1200 KLD Sewage treatment plant already exists in township of Jaypee Rewa Cement Plant. The centralized Auto workshop is established at our plant site equipped with oil & grease trap for treatment of waste water.
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.	Comprehensive Rural Development Programme (C.R.D.P.) has been set up by Jaypee Group under Jaiprakash Seva Sansthan, a 'not for profit' trust to uplift the social & living standard of surrounding villages.
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.	Shall be complied with.
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).	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).
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.	As there is no requirement of any construction activity within mine area and there will be no requirement of any construction of labour houses. However a separate residential labour camp will be developed with infrastructure and facilities.
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.	Shall be complied.
xxxi	"The critical parameters such as RSPM (Particulate matter with size less than 10 micron i.e., PM ₁₀) and NO _x in the ambient air within the impact zone shall be monitored periodically. Further, quality of discharged water shall 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	Regular monitoring carried out of Ambient Air quality of Core zone as well as buffer zone six monthly average monitoring report are given under General Condition, Point No. -IV.

	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 Forest, which is available on the website of the Ministry www.envfor.nic.in , shall also be referred in this regard for its compliance”.	
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B. General Conditions

S. No	Details of 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	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.	Shall be complied in consultation with the local forest and wild life department.																																																																						
iv	At least four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for RSPM, SPM, SO ₂ & 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.	Regular monitoring carried out of Ambient Air quality of Core zone as well as buffer zone six monthly average monitoring report for period October'2021 – March '2022 given below: Core Zone: <table border="1" data-bbox="812 1008 1445 1281"> <thead> <tr> <th rowspan="2">Location</th> <th colspan="5">Parameters (µg/m³)</th> </tr> <tr> <th>PM₁₀</th> <th>PM_{2.5}</th> <th>SO₂</th> <th>NO_x</th> <th>CO</th> </tr> </thead> <tbody> <tr> <td>Near Drilling Site</td> <td>48-50</td> <td>36-38</td> <td>11-12</td> <td>23-24</td> <td>187-196</td> </tr> <tr> <td>Location: Near L / S Loading Site</td> <td>48-50</td> <td>36-38</td> <td>12-12</td> <td>17-21</td> <td>180-191</td> </tr> <tr> <td>Near L / S Unloading Site</td> <td>48-49</td> <td>35-36</td> <td>10-10</td> <td>21-21</td> <td>147-171</td> </tr> <tr> <td>Near Haulage Road</td> <td>48-52</td> <td>37-39</td> <td>11-12</td> <td>23-24</td> <td>177-203</td> </tr> </tbody> </table> Buffer Zone: <table border="1" data-bbox="812 1312 1445 1512"> <thead> <tr> <th rowspan="2">Location</th> <th colspan="5">Parameters (µg/m³)</th> </tr> <tr> <th>PM₁₀</th> <th>PM_{2.5}</th> <th>SO₂</th> <th>NO_x</th> <th>CO</th> </tr> </thead> <tbody> <tr> <td>Near Turki</td> <td>36-38</td> <td>23-26</td> <td>10-11</td> <td>18-18</td> <td>143-159</td> </tr> <tr> <td>Near Degrahat</td> <td>21-29</td> <td>35-41</td> <td>8-10</td> <td>13-17</td> <td>113-166</td> </tr> <tr> <td>Near Chormari</td> <td>35-35</td> <td>23-23</td> <td>9-9</td> <td>17-18</td> <td>150-166</td> </tr> <tr> <td>Near Daldal</td> <td>37-39</td> <td>23-25</td> <td>9-11</td> <td>17-18</td> <td>136-164</td> </tr> </tbody> </table>	Location	Parameters (µg/m ³)					PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	Near Drilling Site	48-50	36-38	11-12	23-24	187-196	Location: Near L / S Loading Site	48-50	36-38	12-12	17-21	180-191	Near L / S Unloading Site	48-49	35-36	10-10	21-21	147-171	Near Haulage Road	48-52	37-39	11-12	23-24	177-203	Location	Parameters (µg/m ³)					PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	Near Turki	36-38	23-26	10-11	18-18	143-159	Near Degrahat	21-29	35-41	8-10	13-17	113-166	Near Chormari	35-35	23-23	9-9	17-18	150-166	Near Daldal	37-39	23-25	9-11	17-18	136-164
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v	Data on ambient air quality (RSPM, SPM, SO ₂ & 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.	Data on ambient air quality is being carried out & submitted regularly to the Board in every six months. The last report Submitted to SPCB / CPCB vide our letter no. JRP/Env./2021-22 Date: 23 rd Nov 2021.																																																																						
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.	All protection measures to control the fugitive dust emission are adopted and Regular water sprinkling is being done on haul roads, loading and unloading areas.																																																																						
viii	Industrial waste water (Workshop and waste water from the mine) should be properly collected, treated so as to conform to the standers prescribed under GSR 422 (E) dated 19 th May, 1993 and 31 st	No waste water is generated during the mine processes.																																																																						

	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 corrective measures, taken if needed.	Adequate PPE's and training on occupational health are provided to all workmen.
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.	Will be informed accordingly.
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.	A well equipped separate environment cell with qualified personnel has already been set up for looking after environment studies and monitoring.
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.	Separate fund is kept for environmental protection measures.
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.	Noted and Agreed.
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 Forest, Bhopal.	Noted and Agreed.
xv	A copy of clearance letter will be marked to concerned Panchayat / local NGO, if any, from whom suggestion / representation, if any, was received while processing the proposal.	Copy of EC letter was submitted to concerned Panchayat and receipt was taken.
xvi	State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industry Centre and Collector's Office/Tehsildar's Office for 30 days.	Complied.
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	Advertised in two local newspapers i.e. The Dainik Navbharat and The Dainik Deshbandhu dtd. 04.04.2009 regarding the grant of Environmental Clearance by the MoEF Government of India New Delhi.

	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.	
xviii	“The environmental statement for each financial year ending 31 st 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 Forest ,Bhopal by e-mail”.	Environment Statement is submitted to PCB every year before 30 th September.
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 provision of Environment (Protection) Act, 1986.	Noted and agreed.
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 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.