



JAL/JSCP/EC/2012-13

Date-27.05.2013

**The Regional Director**  
Ministry of Environment & Forest  
Regional Office(WZ)  
Kendriya Parayavaran Bhawan,  
E-5,Arera Colony,Link Road No-5,  
Ravi Shanker Nagar,Bhopal (M.P.) 462010

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**Subject: Budgawana Limestone Mining Project of M/S Jaiprakash Associates Limited for Status of Compliance to Environmental Clearance granted by Ministry of Environment & Forest vide letter No.-J-11015/248/2007-IA. II(M) dated 13.05.2009.**

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Dear Sir,

1. We have been granted Environmental Clearance (EC) vide your above referred letter, dated 13.05.2009.
2. In compliance to clause XIII of General conditions, Six monthly compliance report for the period, **October, 2012 to March, 2013** to the conditions specified in the Environmental Clearance, is hereby submitted for your kind information please.

Thanking you  
Yours faithfully

  
(S.C.Srivastava)

Sr. Vice President (Technical)  
Jaypee Sidhi Cement Plant  
(A Unit of Jaiprakash Associates Ltd)


Encl- As above **JAYPEE SIDHI CEMENT PLANT**  
(A Unit of Jaiprakash Associates Ltd.)  
**Jaypee Vihar, Distt. Sidhi (M.P.)**  
Copy to : **Phones-07802-276703,276704**


1. The Zonal Officer, Central Pollution Control Board, III<sup>rd</sup> floor, Shakar Bhawan, North T.T. Nagar, Bhopal(M.P.)462003
2. The Member Secretary, Parayavaran Bhawan , M.P. Pollution Control Board E-5, Arera Colony, Bhopal (M.P.)462016
3. The Regional Officer, M.P. Pollution Control Board, MIG-190/191,Nehru Nagar, Rewa(M.P.)486001



**Status of Compliance (Period: October 2012 to March 2013) to the conditions stipulated in the Environment Clearance granted by MoEF vide letter No.- J-11015/248/2007-IA.I(M) dated May 13, 2009 for 0.27 MTPA Budgawana Limestone Mine ( ML Area - 60.67 ha) of M/s Jaiprakash Associates Limited, Located at Village Budgawana, Baghwar & Gorhatola , Tehsil Rampur Naikin Distt. Sidhi (M.P)**

**A. Specific conditions**

No.	Conditions	Status of compliance
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 (Water & Air Act) has been granted by MPPCB Bhopal vide letter no. 414/TS/Mine/MPPCB/2013 dated 15.01.13 Copy enclosed as <b>Annexure-I</b> . Subsequently Consent to Operate (Water & Air Act) has been obtained vide MPPCB letter No-1103/TS/Mine/MPPCB/2013, dated-08.02.2013
ii	Prior approval from the Standing Committee of National Board for wildlife shall be obtained due to location of the Crocodile Sanctuary within 10 km of the mine lease, before starting any activity relating to the project at site. All the Conditions stipulated by the standing committee shall be effectively implemented in the project.	Approval from National Board of Wild life had received vide letter no, F.No.6-43/2007 WL-I (XIII) MoEF, Wildlife Division CGO Complex, Lodi Road, New Delhi dated 10.05.2011. Copy of the letter is enclosed as <b>Annexure –II</b> .  NBWL NOC COPY.doc  The present status of the 'Wild Life Clearance' conditions has already been submitted to the Principal Chief Conservator of Forest(WL), Bhopal (M.P.) Vide our letter no-JAL/JSCP/438/2012 dt. 14.07.2012. copy of the same are enclosed as <b>Annexure-III</b>

		 REPLY OF NWBL.pdf
iii	The environmental clearance is subject to approval of the State Landuse Department, Government of Madhya Pradesh for diversion of 322.49 ha agricultural land for non-agricultural use.	Land has already been diverted for mining by the Government of Madhya Pradesh. (Copy of mining lease is already submitted) The area for diversion from agriculture land to non agriculture is 46.11ha. Instead of 322.49 ha. In this regards a request letter was submitted to ministry of Environment & Forest, New Delhi for correction in the area as 46.11ha vide letter no. JAL: JSCP: MINES: 2009 DTD 20-05-09. Copy of the enclosed as <b>Annexure-IV</b>
iv	Environmental Clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs Union of India in Writ Petition (Civil) No. 460 of 2004, as may be applicable to this project.,	Noted and Agreed
v	The Project proponent shall effectively implement all the conditions stipulated by the Chief Wildlife Warden in their NOC dated 13.08.2008 issued to this project.	All the conditions stipulated by the Chief Wildlife Warden are implemented. The status of compliance to the conditions stipulated in the NOC is provided at <b>Annexure-V</b> .
vi	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 1 <sup>st</sup> order streams if any, during the course of mining operation.	No natural course will be obstructed due to mining activities. The 1 <sup>st</sup> order streams, which are small in nature, will be suitably diverted by providing storm water drain during the course of mining operation.
vii	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 shall be stacked properly at earmarked site. The top soil will be used for land reclamation and plantation only.

viii	<p>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 commence from the 6<sup>th</sup> year onwards and there shall be no external over burden dump after the 7<sup>th</sup> year. The backfilled area of 36.75 ha. 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 &amp; Forests and its Regional Office located at Bhopal on six monthly basis</p>	<p>Over burden will be stacked at earmarked dump site. Backfilling will be undertaken after six years onwards as stipulated. The back filling area will be reclaimed and rehabilitated by tree plantation. The rehabilitated area will be monitored &amp; managed till the plantation will become self sustaining. Compliance status is submitted to MoEF on six monthly basis</p>
ix	<p>The void left unfilled in an area of 8 ha shall be converted into water body. The higher benches of excavated void /mining pit 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.</p>	<p>At the end of mining operation, the left out area will be converted into water body. The peripheral plantation will be done with fencing of mine pit.</p>
x	<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 seasonal Nallahs, Ponds, the Bansagar 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 seasonal Nallahs, the Bansagar 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 &amp; siltation ponds is being provided as per the guidelines around the working pit, The mitigation measures will be taken to prevent soil, mineral and temporary OB dumps run off water and flow of sediments directly into the seasonal nallahs, Bansagar Canal and other water bodies .The collected water will be utilized as suggested for watering the mine area, roads, green belt development. Garland drains, setting tanks and check dams of appropriate size, gradient and length will be constructed around the mine pit and temporary over burden dumps as per the guidelines.</p>
xi	<p>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.</p>	<p>Retaining wall at the toe of the temporary dumps and the OB benches will b-e constructed based on rain fall data.</p>

xii	Plantation shall be raised in an area of 62.65 ha 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, around water body and benches of the excavated pit, roads etc. in consultation with the local DFO/Agriculture Department. The density of the trees should be around 2000 plants per ha.	Plantation and green belt development in an area of 62.65 ha 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, around water body and benches of the excavated pit, roads etc will be taken up in consultation with Forest Department. Local & native species will be selected for the plantation.
xiii	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 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.	Effective safeguards measures such as dust containment and suppression by water sprinkling will be taken for control of air emissions at haul road, loading and unloading point and transfer points. Ambient Air Quality will be monitored for SPM and RSPM and the data conforms to the stipulated standards after the commencement of mining operations
xiv	Regular monitoring of water quality upstream and downstream of Bansagar Canal 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 upstream and downstream of Ban Sagar Canal and seasonal streams passing through the mine lease are being carried out and record of monitoring data are maintained. The data are provided at <b>Annexure-VI</b> . The data is regularly submitted to the concerned authority periodically.
xv	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	Suitable water conservation measures such as rain water harvesting and water shed management will be taken to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board .
xvi	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	Ground water level monitoring & quality analysis are being carried out as suggested. The data are provided at <b>Annexure-VII</b> . Reports are being sent to all concerned authority.

	due to the mining activity, necessary corrective measures shall be carried out	
xvii	Suitable rainwater harvesting measures on long term basis shall be planned and implemented in consultation with the Regional Director, Central Ground Water Board.	Rain water harvesting proposal has been prepared and will be implemented in consultation with the Regional Director, Central Ground Water Board.
xviii	Appropriate mitigative measures should be taken to prevent pollution of the Son River in consultation with the State Pollution Control Board.	All necessary measures are being taken up to prevent pollution in the Sone river. The water quality of the river is also being regularly monitored in up-stream and down-stream. Silt control measures & analysis report is attached <b>Annexure-VIII</b> .
xix	Prior permission from the competent authority shall be obtained for drawl of water (Surface water and ground water), if any, required for the project.	In the mining activities, water requirement for water sprinkling will be met by rain water harvesting . Prior permission from the competent authority will be obtained for drawl of water(surface water and ground water) if any, required for the project.
xx	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.	Mineral handling operation will be provided with adequate bag filter & water sprinkling arrangement. Loading & unloading area and the transfer points will be maintained dust free by adopting efficient dust control arrangements.
xxi	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 minerals transportation shall be carried out through the covered trucks only and the vehicles carrying the minerals shall not be overloaded.	Regular maintenance of mining equipment will be carried out & Vehicular emissions will be Kept under controlled and valid PUC will be kept all the time.
xxii	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.	Blasting operation is carried out only during day time. Controlled blasting is carried out to minimize the ground vibrations and the mitigate measures will be taken to control of ground vibration & arrest fly rocks. Optimization of blast design was carried to control ground vibration by central institute of mining & fuel research, Dhanbad, Jharkhand
xxiii	Drills shall either be operated with dust extractors or equipped with water injection system.	All drill machines will be used with wet drilling system to control dust emissions.

xxiv	Consent to operate shall be obtained from the State Pollution Control Board prior to start of production from the mine.	Consent to Operate (Water & Air Act) has been obtained vide MPPCB letter No-1103/TS/Mine/MPPCB/2013, dated-08.02.2013(Water Act)1105/TS/Mine/MPPCB/2013,dated-08.02.2013(Air Act) for one year.
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.	STP of 800 KLD has been installed for the colony. ETP (Oil & grease trap) has been provided for the Auto workshop.
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.	Pre project health survey of community has been started.
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.	Pre-placement medical examination will be carried out and records are maintained .Regular health check up of the worker will also carried out as per the mines act.
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).	The land outees and land losers / affected peoples have been compensated as per guidelines. No house/settlement has been affected.
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.	No housing facilities are required because the workers engaged in the mining activities are from nearby villages
xxx	The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna such as python, peacock 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. A copy of action plan shall be submitted to the Ministry of Environment and Forests and its Regional Office, Bhopal.	All precautionary measures are being taken up for the protection of endangered fauna species like python & peacock etc. Action plan for conservation of flora & fauna has already been prepared and submitted to Principal Chief Conservator of forest (Wildlife) Bhopal, vide our letter No.DM/4232/Bhopal Dated 13.08.2008. Allocation of the funds has been made as per the proposed plan. Copy of letter is enclosed as <b>Annexure - IX</b>
xxxi	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.	Noted and agreed-



## B. General Conditions

No.	<i>Conditions</i>	Status of compliance
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	Atleast four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for RSPM, SPM, SO <sub>2</sub> & NO <sub>x</sub> 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.	Ambient air quality monitoring shall be carried out once in a month at four place in core zone as well as in buffer zone for RSPM,SO <sub>2</sub> & NO <sub>x</sub> .
iv	Data on ambient air quality (RSPM, SPM, SO <sub>2</sub> & NO <sub>x</sub> ) 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.	Ambient air Quality monitoring data shall be submitted regularly to the Ministry including its Regional office located at Bhopal and the State Pollution Control Board / Central Pollution Control Board on six monthly basis.
v	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.	Measures will be taken for fugitive dust emission control by dust containment and suppression. Water spraying arrangement will be provided on haul roads, loading and unloading and at transfer points.
vi	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.	Measures will be taken up for controlling the noise level below 85 dB(A) in the work zone area. Operators of HEMM will be provided with ear plug/muffs.
vii	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 19 <sup>th</sup> May, 1993 and 31 <sup>st</sup> December, 1993 or as amended from time to time. Oil and grease trap	Oil and grease trap have been installed for Auto workshop waste water. Effluent discharge conforms to the stipulated

	should be installed before discharge of workshop effluents.	standards.
viii	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.	Mine workers working near dust prone area will be provided with protective respiratory devices and will be imparted —adequate training and information on safety and health aspects. Periodic health surveillance program will be taken up as stipulated.
ix	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.	Noted and agreed-
x	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.	An Environment Management Cell has been constituted. Organization chart of the Environment Management Cell is attached as <b>Annexure- X.</b>
xi	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 fund earmarked for environmental work will be kept in separate account and year wise expenditure will be submitted to MoEF
xii	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
xiii	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 proponent shall upload the status of compliance of environmental clearance conditions on their website, display at project location and update the same periodically and simultaneously send the same by e-mail to the Regional Office of the Ministry of Environment and Forests, at Bhopal.	Six monthly reports will be submitted accordingly
xiv	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.	Copy of EC has already been marked to Panchayat (Copy already submitted). A marked copy of panchayat is attached as <b>Annexure-XI</b>

xv	The 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.	Noted.
xvi	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 <a href="http://envfor.nic.in">http://envfor.nic.in</a> and a copy of the same should be forwarded to the Regional Office of this Ministry located Bhopal.	Grant of EC was published in <b>Dainik Jagran</b> and <b>Navbharat</b> Newspapers. (Copies already submitted to the concerned authorities.). A copy of letter enclosed as <b>Annexure-XII</b>
xvii	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
xviii	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
xix	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
xx	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.	Noted and agreed