

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

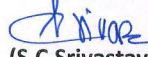
Subject: Majhigawan Limestone Mining Project of M/S Jaiprakash Associates Limited for Status of Compliance to Environmental Clearance granted by Ministry of Environment & Forest vide letter No.-J-11015/257/2007-IA. II(M) dated 15.12.2008.

Dear Sir,

- 1 We have been granted Environmental Clearance (EC) vide your above referred letter, dated 15.12.2008.
- 2 In compliance to clause XIII of General conditions, six monthly compliance reports 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, IIIrd 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 Environmental Clearance(EC) granted by MoEF vide letter No.J-11015/257/2007-IA.II(M) dated 15.12.2008 to Majhigawan Limestone Mining Project (ML Area - 362.68 ha) of M/S Jaiprakash Associates Ltd. located in village Majhigawan, Patna, Sarda, Kariyajhar, Piprav, Malgaon, Dhorahra, Tehsil- Rampur, Naikin, Distt- Sidhi (M.P.)







**Jaypee Sidhi Cement Plant
(A Unit of Jaiprakash Associates Ltd.)
Bhagwar, Sidhi – 486776 (M.P)
www.jalindia.com**



A. Specific conditions

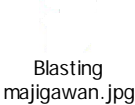



No.	Conditions	Status of Compliance
i	The project proponent shall obtain Consent to Establish from the Madhya Pradesh Pollution Control Board and effectively implement all the conditions stipulated therein.	Consent to Establish (Water & Air Act) was granted by MPPCB Bhopal vide letter no. 909/TS/Mine/MPPCB/09 dated 30.01.09 (Copy already submitted). Subsequently Consent to Operate (Water & Air Act) has been obtained from MPPCB and valid upto-28.02.2016. Consent copy is attached as Annexure-I .
ii	The environmental clearance is subject to approval of the State Land use Department, Government of Madhya Pradesh for diversion of 322.49ha agricultural land for non-agricultural use.	Land has already been diverted for mining by the Government of Madhya Pradesh. (Copy of mining lease has already been submitted).
iii	The project proponent shall effectively implement all the conditions stipulated by the Chief Wildlife Warden in their NOC dated 13.08.2008.	All the condition stipulated by the Chief wildlife warden will be implemented. The present status of the 'Wild Life Clearance' conditions has already been submitted to the Principal Chief Conservator of Forest(WL), Bhopal (M.P.) Our vide letter no- JAL/JSCP/438/2012 dt. 14.07.2012. Copy of the same are enclosed as Annexure-II  REPLY OF NWBL.pdf
iv	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 st order streams during the course of mining operation.	No natural water course/water resources are obstructed due to mining activities. The 1 st order streams, which are small in nature, are diverted by provided suitable drains during the course of mining operation.



		<p>Photograph of garland drain is attached as Annexure-III</p>  <p>GARLAND DRAIN.docx</p>
v	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.	The top soil generated so far has been used for plantation.
vi	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 6 th year onwards and there shall be no external over burden dump after the 10 th year. The backfilled area of 182.258ha 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	<p>Over burden is being stacked at earmarked dump site temporarily. Backfilling will be undertaken after sixth years onwards as stipulated in the mining plan. The back filling area will be reclaimed and rehabilitated by tree plantation. The rehabilitated area will be monitored & managed till the plantation become self sustaining.</p> <p>Compliance status is submitted to MoEF on six monthly basis.</p>
vii	The void left unfilled in an area of 20 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.	At the end of mining operation, the left out area of 20 ha will be converted into water body. Plantation will be carried out terraced mined pit. The slopes of higher benches will be made suitable for easy accessibility by the local people to use the water bodies. The peripheral fencing will be carried along the mining lease or excavated area.
viii	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, Bansagar Canal and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt	Catch drains & siltation ponds have been provided around the working pit, top soil, mineral and temporary OB dumps to prevent run off of water and flow of sediments directly into the seasonal nallahs, Bansagar Canal and other water bodies .The collected water is being utilized as suggested for watering the mine area, haulage roads, green belt development etc. Garland drains,

	<p>development etc. The drains should be regularly desilted particularly after the 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 seasonal nallahs, 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>settling tanks and check dams of appropriate size, gradient and length are being constructed both around the mine pit and temporary over burden dumps as per guidance.</p> <p>Following silt control methods are followed in mine measures are attached as Annexure IV.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  SILT CONTROL MEASURES.docx </div> <div style="text-align: center;">  GARLAND DRAIN.docx </div> </div>
Ix	<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 has been constructed based on rain fall data.</p> <p>Photograph is attached as Annexure as V.</p>
x	<p>Plantation shall be raised in an area of 286.102 ha including a 7.5m wide green belt in the safety zone around the mining lease in an area of 10ha 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.</p>	<p>Plantation program was started by planting of 4584 nos. of trees in 2.5 ha. Area up to 30.03.2013. Plantation & green belt in an area of 286.102 ha. Including a 7.5m wide green belt in the safety zone around the mining lease, in area of 10 ha. Around ML area, backfilled and reclaimed area, around water body and benches of the excavated pit roads etc are being taken up in consultation with Forest Department as suggested Local & native species will be selected for the plantation.</p> <p>Plantation details are attached as Annexure as VI.</p> <div style="text-align: center;">  PLANTATION DETAILS.docx </div>
xi	<p>Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and</p>	<p>Effective safeguards measures such as dust containment and suppression by water sprinkling through tankers are being taken</p>

	<p>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.</p>	<p>for control of air emissions at haul road, loading and unloading point and transfer points. Ambient Air Quality is monitored for RSPM, SO₂, NO_x & CO and the data conforms to the stipulated standards. Reports are attached as Annexure as VII.</p> <p> Ambient data.xlsx</p>
Xii	<p>Regular monitoring of water quality upstream and downstream of Bansagar Canal and seasonal streams passing through the mine lease 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.</p>	<p>Regular monitoring of water quality(Upstream and downstream) of Bansagar Canal and seasonal streams passing through the mine lease are being carried out and record of monitoring data are maintained. The data is submitted on monthly basis. Report is attached as Annexure as VIII.</p> <p> Bansagar Canal.xlsx</p>
xiii	<p>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.</p>	<p>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.</p>
xiv	<p>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</p>	<p>Ground water level monitoring & quality analysis are being carried out as suggested. The data are provided at Annexure-X. Reports are sent regularly to all concerned Authority.</p>


	that the groundwater table is getting depleted due to the mining activity; necessary corrective measures shall be carried out.	
xv	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.  Sidhi RWH Report.doc
xvi	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 regularly monitored in up-stream and downstream. Silt control measures & Analysis report is attached Annexure-XI .  Son River.xlsx
xvii	Prior permission from the competent authority shall be obtained for drawl of ground water, if any, required for the project.	In the mining activities, water requirement for water sprinkling is met by rain water harvesting storage pond.
xviii	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.	The limestone handling area is provided by water sprinkling in the loading & unloading area, haul roads and transfer points.
xix	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.	Regular maintenance of mining equipment is being carried out. Vehicular emission is being kept under control. For transportation of the Raw material the vehicles are not overloaded and covered with tarpaulin.
xx	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




		<p>vibration by central institute of mining & fuel research, Dhanbad, Jharkhand. Report is attached as Annexure-XII</p> <p></p>
xxi	Drills shall either be operated with dust extractors or equipped with water injection system.	Wet drilling is used to control dust emissions.
xxii	Consent to operate shall be obtained from the State Pollution Control Board prior to start of production from the mine.	Consent to operate was obtained from MPPCB and valid up to 28.02.2016
xxiii	Sewage treatment plant shall be installed for the colony. ETP shall also be provided for the workshop and wastewater generated during the mining operation.	<p>800 KLD STP has been installed in colony. Oil & grease trap has been provided for the Auto workshop. The waste water generated during mining operation is being treated by settling. The treated effluent water is used for water sprinkling for dust suppression and watering of plants</p> <p> </p> <p>Oil & grease.docx STP.xlsx</p>
Xxiv	Digital processing of the entire lease area using remote sensing technique should be done regularly once in three (3) years for monitoring land use pattern and report submitted to the Ministry of Environment and Forests and its Regional Office Bhopal.	<p>Digital processing of entire lease area using Remote Sensing technique is done as per condition of after 3 years of operation i.e. after 2012 and report is already submitted to the Ministry of Environment and Forests and its Regional Office Bhopal vide our letter no. JAL/JSCP/EC/2013/164 dated 26.04.13.</p> <p></p> <p>Cover Page of DIP.jpg</p>
xxv	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.	Noted and agreed


xxvi	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 is being carried out and records are maintained. Regular health check up of the worker is also carried out as per the Mines Act.
xxvii	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 oustees and land losers/affected peoples have been compensated as per guidelines. No houses/settlement has been affected.
xxviii	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 such housing facilities are required because the workers engaged in the mining activities are from nearby villages and, therefore, prefer to reside in their villages.
xxix	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.	<p>Wild life conservation plan has been prepared and got approved. The unit has already been granted wild life clearance from NBWL on 10/5/2011.Compliance report has been submitted to NBWL 14/07/2012</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>NBWL NOC COPY.doc</p> </div> <div style="text-align: center;">  <p>REPLY OF NBWL.pdf</p> </div> </div>

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.	Noted and agreed-
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B. General Conditions

No.	Conditions	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	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.	Ambient air quality monitoring is being carried out once in a month at four place in core zone as well as in buffer zone for RSPM,SO ₂ & NO _x , monitoring. Monitoring data provided at Annexure-XIII  Ambient data.xlsx
iv	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.	Ambient air Quality monitoring data are 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 have been- taken for fugitive dust emission control by dust containment and suppression. Water spraying arrangement has been provided on haul roads, loading and unloading and at transfer points.  WATER SPRINKLING.JPG
vi	Measures should be taken for control of noise levels below 85 dB(A)in the work environment. Workers engaged in operations of HEMM, etc should be provided with ear plugs/muffs.	Measures have been taken up for controlling the noise level below 85 dB (A) in the work zone area. Operators of HEMM have been provided with ear plug/muffs. Ambient noise is attached  NOISE PLANT & MINES 2012.docx
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 th May, 1993 and 31 st December, 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluents.	Oil and grease trap have been installed for Auto workshop waste water. The waste water generated during mining operation is being treated by settling. The treated effluent water is used for water sprinkling for dust suppression.  Oil & grease.docx
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 have been provided with protective respiratory devices and have been imparted adequate training and information on safety and health aspects. Periodic health surveillance program has been 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.	The mine was commissioned on 13.03.2009 .
x	A separate environmental management cell with suitable qualified personnel should be set-up under the control of a	An Environment Management Cell has been constituted. Organization chart of the Environment Management Cell is attached

	Senior Executive, who will report directly to the Head of the Organization.	as Annexure-XIV  Environment Presentation.pptx
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 funds have been earmarked for environment protection measures. Details of the capital & recurring expenditures incurred during 2012-2013 on the pollution control and environment management are attached as Annexure-XV!
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.	Six monthly compliance reports are submitted regularly.
xiv	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 has already been marked to Panchayat (Copy already submitted). A marked copy of panchayat is attached as Annexure-XVI
xv	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 and agreed-
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 http://envfor.nic.in and a copy of the same should	Grant of EC letter was published in Dainik Jagran and Navbharat Newspapers. (Copies already submitted to the concerned authorities.) . A copy enclosed as Annexure-XVII

	be forwarded to the Regional Office of this Ministry located Bhopal.	
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 Act, 1997.	Noted and agreed