

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 Extension 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-11015/755/2007-IA. II(M) dated 04.06.2009.

Dear Sir,

1. We have been granted Environmental Clearance (EC) vide your above referred letter, dated 04.06.2009.
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 (A Unit of Jaiprakash Associates Ltd.)
Copy to : **Jaypee Vihar, Distt. Sidhi (M.P.)**
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, M.P. Pollution Control Board ,Parayavaran Bhawan ,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.- 11015/755/2007-IA.II(M) dated June 04, 2009 for 0.5 MTPA Majhgawan Extension Limestone Mine ML area- 54.825 ha of M/s Jaiprakash Associates Limited, Located at Village Majhgawan & Sarada, Distt. Sidhi (M.P)



A. Specific conditions

No.	Conditions	Status of compliance
i	The project proponent shall obtain Consent to Establish and consent to operate from the Madhya Pradesh Pollution Control Board and effectively implement all the conditions stipulated therein.	Application for consent to establish has already been submitted to MPPCB vide our letter no- JSCP/MINES/COORD/2009-2010dtd 30.04.2009.and re-submitted vide our letter no JAL/JSCP/MINES/COORD/2013,dtd. 04.03.2013 through online system.
ii	Environment 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.450 of 2004, as may be applicable to the project.	Noted & agreed
iii	Prior approval from the Standing Committee of National Board for wildlife shall be obtained before commencement of work at site due to location of the mine lease within 10 km of the Crocodile Sanctuary. The Conditions / Safeguards as stipulated by the standing committee of the National Board for wildlife shall be effectively implementing 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 is enclosed as Annexure-I .  NBWL NOC COPY.doc
iv	Environment Clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority as may be applicable to this project.	Clearance from National Board of Wild life received. Copy is enclosed as Annexure-II   Majhgawan Extension Enviornmer NOC Wildlife.pdf
v	Necessary Forestry Clearance under the Forest (Conservation) Act, 1980 of	Forest clearance has been received vide letter


	an area of 54.825 ha. Forestland involve in the project shall be obtained before starting mining operation in that area. Environmental Clearance is subject to grant of forestry clearance. No mining shall be undertaken in the forest area without obtaining requisite prior forestry clearance.	No-8-67/2007FC,GOI,MOEF,NewDelhi_____dt.-12.11.2012. Copy of the clearance order is enclosed as Annexure-III  FINAL Forest MAJHIGAWAN.pdf  FINAL Forest MAJHIGAWAN.pdf
vi	The Project proponent shall effectively implement all the conditions stipulated by the additional Principle Chief Conservator of Forests (Wildlife) Madhya Pradesh in their NOC dated 13.08.2008 issued to this project.	All the conditions stipulated by the Chief Wildlife Warden is- being implemented. Status report is enclosed as Annexure IV .  REPLY OF NWBL.pdf <hr/> Copy of NOC is enclosed Annexure-V  NOC Wildlife.pdf
vii	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 and 2 nd order streams emanating from the mine lease during the course of mining operation.	No natural course will be obstructed due to mining activities. The 1 st order and 2 nd order streams, which are small in nature, will be suitably diverted by providing garland drains during the course of mining operation.
viii	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 with proper slope. The top soil will be used for land reclamation and plantation.
ix	The over burden generated during the initial years of 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 7 th year. The backfilled area of 30ha shall be reclaimed and rehabilitated by plantation. Monitoring and management of rehabilitated areas should continue until the	Over burden will be stacked at earmarked dump site. Backfilling will be undertaken after sixth years onwards as stipulated. The back filling area will be reclaimed and rehabilitated by tree plantation. The rehabilitated area will be monitored & managed till the plantation will

	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	become self sustaining. Compliance status is submitted to MoEF on six monthly basis.
x	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 all along the excavated area.	At the end of mining operation, the left out area of 8 ha will be converted into water body. The peripheral plantation will be done with fencing of mine pit.
xi	<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, the Son river, the Govindgarh lake, ponds 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 Son river, the Govindgarh lake, ponds 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 will be provided as per the guidance 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 collected water will be utilized as suggested for watering the mine area, roads, green belt development etc. Garland drains, setting tanks and check dams of appropriate size gradient and length will be constructed both around the mine pit and temporary over burden dumps as per the guidance.</p> <p style="text-align: center;">  Majhigawan Extension mines silt d </p>
xii	Dimension of the retaining wall at the toe of the temporary over berden (OB) dumps (s) and the OB benches within the mine to check run-off and siltation should be based on the rain fall data.	Retaining wall at the toe of the temporary dumps and the OB benches will be constructed based on rain fall data.
xiii	Plantation shall be raised in an area of 41ha 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. The green belt around the mine lease area shall be developed within five years.	Plantation and green belt development in an area of 41ha including a 7.5m wide green belt in the safety zone around the mining lease in an 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 as suggested. Local & native

		species will be selected for the plantation.
xiv	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 RSPM and the data conforms to the stipulated standards.
xv	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 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 Water Board.   Ground water Report RWH for Majhigawan Majhigawan Ext.pdf Extension.pdf
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 periodic monitoring (at least four times in a year) pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January); once in each season) shall be carried out in consultation with the State Ground Water Board / Central Ground Water Authority 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.	Ground water level monitoring & quality analysis are being carried out as suggested. The data are provided at Annexure-VI . Reports are being sent to all concerned authority  Ground water Report Majhigawan Ext. pdf
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 is being planned and will be implemented, as suggested. Study of RWH is already done. Attached as Annexure –VII


		 RWTH for Majhigawan Extension.pdf
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 to prevent pollution in the Sone river is being taken up. The water quality of the river is also be regularly monitored in up-stream and down-stream. Analysis report is attached as Annexure-VII .  Son Data.xlsx
xix	The project proponent shall obtain necessary Prior permission of the competent authority for drawl of requisite quantity of surface water from the Bansagar canal, 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 shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The minerals transportation upto the crusher shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded.	Regular maintenance of mining equipment will be carried out & Vehicular emissions will be kept under control. While transportation of the raw material the vehicles and are not overloaded
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



		<p>ground vibration by Central institute of mining & fuel research, Dhanbad, Jharkhand.</p> <ul style="list-style-type: none"> ● <u>Report is attached as Annexure-VIII</u> <p style="text-align: center;">Blasting majigawan.jpg</p>
xxiii	The project proponent shall take all mitigative measures during the mining operation to ensure that building / structures in the nearby areas shall not be affected due to blasting.	All mitigative measures will be taken during blasting at mine, to ensure no impact on nearby areas.
xxiv	Drills shall either be operated with dust extractors or equipped with water injection system.	Drill machine will be used with wet drilling system to control dust -emissions.
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 (800KLD)has been installed for the colony. Oil & grease trap has been provided at the Auto workshop. No waste water generated during mining operation
xxvi	The project authorities shall undertake sample survey to generate data on pre-project community health status within a radius of 1 km from proposed mine.	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 mine act.
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 prepared shall be implemented in consultation with the State Forest and Wildlife Department. All the safeguard measures brought out in wild life conservation plan so prepared specific to this project site shall be effectively implemented. Necessary allocation of funds for implementation	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 Principal Chief Conservator of forest (Wildlife) Bhopal, vide our letter No.DM/4232/Bhopal Dated 13.08.2008

	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.	. Allocation of the funds has been made as per the proposed plan. Copy is attached as Annexure-IX  wild life conservation.pdf
xxx	The critical parameters such as SPM, RSPM, NOx in the ambient air within the impact zone, peak particle velocity at 300m distance or within the nearest habitation, whichever is closer 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 the display board at the project site at a suitable location in the public domain. The circular no. J-20012/1/2006-IA.II(M) dated 27-05-2009 issued by Ministry of Environment & Forests, which is available on the website of the Ministry www.envfor.nic.in shall also be referred in this regards for its compliance.	All critical parameters such as, RSPM, NOx in the ambient air within the impact zone, peak particle velocity at 300m distance or within the nearest habitation will be monitored periodically and data will be display on board at project site.
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.	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	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 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 will be 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.
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 will 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. Works 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 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 standers 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. Effluent discharge conforms to the stipulated standers
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 surveillace program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and corrective measures, taken 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 surveillace 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 Annexure-X .  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.	Noted and Agreed
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 reports 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 the compliance of 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 & Forest, Bhopal.	Six monthly reports will be submitted to the MPPCB, CPCB, MoEF regional office.
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 website of the company.	Copy of Clearance Already Submitted to Panchayat (Copy already submitted). The Clearance Letter will be put on the website shortly. A marked copy of Panchayat is attached as Annexure-XI  NOC GRAM SABHA MAJH MINE. pdf
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 be forwarded to the Regional Office of this Ministry located Bhopal.	Grant of EC was published in Samay, Dainik Kirti Kranti and Deshbandhu Newspapers. (Copy already submitted) A copy of letter enclosed as Annexures-XII  Paper Cutting of EC. pdf
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	Noted and Agreed

	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.	
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