

~~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: Hinauti 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-11015/700/2007-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 **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, M.P. Pollution Control Board, Parayavaran Bhawan ,E-5, Arera Colony, Bhopal (M.P.)462016
3. The Regional Officer, M.P. Pollution Control Board, H.No.-318,Gali No.-5, Dhawari Satna(M.P.)485001

Status of Compliance (Period: October 2012 to March 2013) to the conditions specified in the Environment Clearance by MoEF vide letter No.- J-11015/700/2007-IA.II(M) dated June 04, 2009 for 0.5 MTPA Hinauti Extension Limestone Mine (A Unit of Jaiprakash Associates Limited) Located at Village Hinauti, Dengraha, Biharganj & Jurmani, Tehsil Ramnagar, Distt. Satna (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 from the Madhya Pradesh Pollution Control Board will be applied after getting Forestry Clearance under the Forest (Conservation) Act, 1980 of an area of 258.867 ha..
ii	Prior environmental clearance from the Standing Committee of National Board for wildlife shall be obtained due to the location of the crocodile sanctuary within 10 km of mining lease, before starting any activities relating to the project at site. All the Conditions stipulated by the standing committee 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 of the letter is enclosed as Annexure –I .
iii	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 and Agreed
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 with certain condition. All the conditions stipulated by the Chief Wildlife Warden will be implemented.
v	Necessary Forestry Clearance under the Forest (Conservation) Act, 1980 of an area of 258.867 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.	Ist Stage Forestry Clearance under the Forest (Conservation) Act, 1980 of an area of 258.867 ha. is obtained vide letter no.F.No-8-80/2008-FC,MoEF New Delhi,dt29/05/2013. Copy of the letter is enclosed as Annexure –II .

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 will be implemented. The status of compliance to the conditions stipulated in the NOC is provided at Annexure-III .
vii	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.	Noted and Agreed
viii	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 water course will be obstructed due to mining activities. The 1 st order and 2 nd order streams will be diverted by providing suitable garland drain and check dam during the course of mining operation.
ix	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.
x	The over burden generated during the initial years of mining operation shall temporarily be stacked at earmarked dump site(s) only and it should not be kept active for a long period of time and its phase-wise stabilization shall be carried out. Backfilling shall commence from the 6 th year onwards and there shall be only one external over burden dump. Proper terracing of OB dump shall be carried so that the overall slope shall not exceed 28°. The overburden dump shall be suitably vegetated with suitable native species to prevent erosion and surface run off. 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	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 & managed till the plantation will become self sustaining. Compliance status is submitted to MoEF on six monthly basis.
xi	The void left unfilled in an area of 30ha 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.	The water body will be developed in an area of 30 ha at the end of mine life with fencing all around the water body.
xii	Catch drains and siltation ponds of appropriate size shall be constructed around the	Catch drains & siltation ponds will be provided as

	<p>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>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, settling 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>
xiii	Dimension of the retaining wall at the toe of the over burden (OB) dumps (s) and the OB benches within the mine to check run-off and siltation shall be based on the rain fall data.	Retaining wall at the toe of the temporary dumps and the OB benches will be provided based on rain fall data.
xiv	Plantation shall be raised in an area of 159.867ha 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, OB dump.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 shall be development in an area of 159.867ha 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.
xv	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 PM 2.5 and RSPM and the data conforms to the stipulated standards
xvi	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 Ground Water Board .
xvii	Regular monitoring of ground water level and quality shall 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-IV . Reports are being sent to all concerned Authority. GW Hinauti ext.jpg
xviii	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. Reports are being sent to all concerned authority.
xix	Appropriate mitigative measures shall 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 Annexure-V .
xx	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 of the competent authority will be obtained for drawl of surface water from the Bansagar canal, if required for the project .
xxi	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.	Water sprinkling will be provided. Loading and unloading areas and the transfer point will be maintained dust free by adopting efficient dust control arrangement.
xxii	Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and	Regular maintenance of mining equipment will be carried out & Vehicular emissions will be kept

	in transportation of mineral. The minerals transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded.	under control. While transportation of the raw material the vehicles are not overloaded.
xxiii	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. Report is attached as Annexure VI Hinauti Mines.jpg
xxiv	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 during the mining operation in the nearby areas will be adopted.
xxv	Drills shall either be operated with dust extractors or equipped with water injection system.	Wet drilling will be used to control dust emissions.
xxvi	Consent to operate shall be obtained from State pollution Control Board prior to start of production from the mine	Application for Consent to operate will be applied to the MPPCB, Bhopal after Consent to establish.
xxvii	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 has been installed for the colony. Oil & grease trap has been provided for the Auto workshop. The waste water generated during mining operation will be treated by settling pond.  STP FLOWCHART.docx
xxviii	Digital processing of the entire lease area using remote sensing technique shall be carried out regularly once in three years for monitoring land use pattern and report submitted to the Ministry of Environment and Forests and its Regional Office,	Noted and Agreed

	Bhopal.	
xxix	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
xxx	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 be carried out as per the schedule drawn.
xxxii	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..
xxxiii	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 of funds for implementation of the conservation plan shall be made and to this project site shall be effectively implemented. Necessary allocation 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 have been prepared and submitted 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 Annexure – VII
xxxiiii	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 PM 2.5, 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 uploaded on company's website and also on display board at project site.
xxxv	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.	Will be complied.

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 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 PM 2.5, RSPM,SO ₂ & NO _x monitoring
iv	Data on ambient air quality (RSPM, SPM, and 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 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 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 has been installed for Auto workshop waste water. Effluent discharge conforms to the stipulated 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	Mine workers working near dust prone area will be provided with protective

	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.	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 Annexure-VIII
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.	Full cooperation shall be extended to the visiting officials.
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 concerned authorities and Status of compliance condition will be uploaded on the Company's website.
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).. A marked copy of Panchayat is attached as Annexure-IX
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.	Already Complied by SPCB.
xvi	The project authorities should advertise at least in two local newspapers. Widely	Already complied. Matter was published

	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.	in Nav Bharat, Dainik Kirti Kranti and Swadesh Newspapers. (Copy already submitted). A copy of letter enclosed as Annexures-X
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.