

**CERTIFIED COPY OF THE COMPLIANCE REPORT.**

**Subject:** Budawada Limestone (ML area 160 Ha and Production capacity 1.1 MTPA) at Village Budawada, Mandal Jaggayyapet, District Krishna, Andhra Pradesh By Madras Cements Limited.

**Reference:** MoEF & CC Letter No: J-11015/150/2008-IA-II (M) dated 10.12.2009

**Present Status of the mine:**


The mining operations were commenced on 01.02.2014 after obtaining Forest Clearance vide letter No. 8-56/2005-FC dated 22.12.2011. No mining activity was observed during the day of the visit on 03.02.2016 due to poor market demand. They have started the developmental activities in the mine pit, made haul roads and other service roads. One site office is made. Boundary pillar demarcation has been made around the mining lease area. One bore well with hand pump is also dug adjacent to the mine pit for drinking water purpose. They have obtained CFO from PCB and valid up to 31.01.2017. The project authority informed that the full-fledged mining activity would be started properly from March 2016 onwards. Now they are planning to go for an expansion of the mine from 1.1 to 2.5 MTPA.

Since, only the developmental activity of the mine was started and the mining activities are not in full swing, the project authorities have agreed to comply the conditions after commencement of full/entire mining activity except monitoring of AAQ, Noise, Surface and Ground water quality.

Date of monitoring: 03.02.2016

**A. Specific Conditions:**

S. No.	Specific Condition	Detailed Compliance Status
i.	Environmental Clearance is subject to obtaining Forest Clearance under Forests (Conservation) Act, 1980 from the Competent Authority before start of work at mine	Complied. Forest Clearance was obtained vide letter No. 8-56/2005-FC date 22.12.2011 and Mining activities started on 01.02.2014.
ii.	Wild life conservation plan shall be prepared in consultation with the office of the Chief Wild Life Warden and implemented within six months. The plan shall comprise of in-built monitoring mechanism with special emphasis to protection of Schedule- I species. The status of implementation shall be submitted to the Ministry	Refer below. Project Authorities informed that wild life conservation plan has not been prepared because there is no schedule -1 species in the project area as per the DFO, Krishna Division, Vijayawada through his letter No. Rc. No.712/95-V6 dated 29.08.2008.
iii.	Hydro-geological study of the area shall be reviewed annually and results submitted to the Ministry and concerned agency in the State Govt. In case adverse impact on ground water quality and quantity is observed, mining shall be immediately stopped and resumed only after mitigating steps to contain any adverse impact on ground water is implemented	Agreed to comply. The hydrogeological study was carried out during the EIA/EMP preparations. After that no study was conducted because the mining activity was not commenced. The same study was carried out through external agency for preparation of EIA/EMP which is required for expansion of this mine. The mining activity was commenced on 01.02.2014 and have agreed to conduct the study and review the results annually.



S. No.	Specific Condition	Detailed Compliance Status
iv.	A 50 m barrier of no mining zone on the side(s) of the nallahs / streams flowing in or adjacent the lease (if any) shall be demarcated and the barrier shall be thickly vegetated with native species of trees and shrubs	Refer below. There is no nallah or stream is flowing in or adjacent to the mining lease area.
v.	The company shall ensure that no silt originating due to mining activity is transported in the surface water course (if any) flowing in the area	Refer below. The project authority assured that no silt will be originating due to mining activity and there is no surface water course flowing in the mining lease area also.
vi.	Shelter belt i.e., Wind Break consisting of adequate tiers of plantations around lease facing the human habitation, school / agricultural fields etc., (if any in the vicinity) shall be raised	Refer below. The entire mining lease area is forest land. No human habitation / school / agricultural fields are existing within the vicinity of the mining lease area.
vii.	Occupational Health Cell shall be created at the company under the charge of an officer of adequate seniority who is a qualified person in occupational health	Complied. A full-fledged occupational health centre (OHC) has been established with a dedicated occupational health specialist in their colony premises. The OHC is equipped with the facilities like X-ray, ECG, lung function, audiometry and blood test, etc. They have agreed to conduct OHS by using the existing OHS facilities and maintain the record.
viii.	Personnel exposure monitoring for dust shall be carried out for the workers	Mine opened on 01.02.2014. Personnel monitoring for dust concentration of work persons was done during developmental stage and agreed to monitor during full-fledged mining operation also.
ix.	Land-use pattern of the nearby villages shall be studied, including common property resources available for conversion into productive land. Action plan for abatement and compensation for damage to agricultural land / common property land (if any) in the nearby villages, due to mining activity shall be submitted to the Ministry within six months	Refer below. The project authority informed that land-use pattern of the nearby villages (10 km radius) was studied during the EIA/EMP prepared for this mine expansion project and agreed to implement the same. Also agreed to submit a copy to RO.
x.	Need based assessment for the nearby villages shall be conducted to study economic measures with action plan which can help in upliftment of poor section of society. Income generating projects consistent with the traditional skills of the people besides development of fodder farm, fruit bearing orchards, vocational training etc., can form a part of such programme. Company shall provide separate budget for community development activities and income generating programmes. This will be in addition to vocational training for	Agreed to comply. The project authority stated that need based assessment study was carried out as a part of CSR activities along with the EIA/EMP carried out for this mine expansion project. Further, it was informed that an amount of Rs. 54 lakh has been spent during 2014-15 towards socio-economic activities for the surrounding villages based on the local needs of the people and it is continuing. They have informed that training on Income generating projects consisting with the traditional skills of the people besides development



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	individuals imparted to take up self employment and jobs	of fodder farm, fruit bearing orchards, vocational training etc will be given once the project is in full swing.
xi.	Fugitive dust generation shall be controlled. Fugitive dust emission shall be regularly monitored at locations of nearest human habitation (including schools and other public amenities located nearest to sources of dust generation as applicable) and records submitted to the Ministry	Complied. Water spraying was carried out for fugitive dust control and the fugitive dust emission levels were monitored through an external agency and monitored data was submitted to the MoEF&CC, RO during the developmental activities. There is no human habitations (including schools and other public amenities) located nearest to sources of dust generation. i.e nearer to the mine.
xii.	Cumulative impacts of the proposed mine and other mines including mine of M/s Jaypee Cement on the Ambient Air shall be assessed and data submitted to the Ministry within six months	Complied. As informed by the Project authority a report on cumulative impacts of Budawada mine along with neighboring mine of M/s Jaypee Balaji Cements was submitted to the Ministry vide Lr. No. TRCL/MoEF/3323/2013 dated 11.11.2013.
xiii.	Rain water harvesting shall be undertaken to recharge the ground water source. Status of implementation shall be submitted to the Ministry within six months	Agreed comply. As stated above the mining activity was commenced on 01.02.2014 and they have agreed to develop rain water harvesting facilities once the mining activities are full swing.
xiv.	Monitoring of ground and surface water quality shall be regularly conducted and records maintained and data submitted to the Ministry regularly. Further, monitoring points shall be located between the mine and drainage in the direction of flow of ground water and records maintained. Monitoring for Arsenic in ground water shall be undertaken	Complied. Ground water quality in the core zone and surface water quality in the buffer zone is monitored through approved external agency and analysis reports of the ground water as well as surface water samples (buffer zone) are submitted to the MoEF&CC, RO regularly. Arsenic concentration in the ground water is Below Detectable Limit (<0.01 mg/L) as per the report. There is no surface water in the core zone.
xv.	Measures for prevention and control of soil erosion and management of slit shall be undertaken. Protection of dumps against erosion shall be carried out with geo textile matting or other suitable material and thick plantations of native trees and shrubs shall be carried out at the dump slopes. Dumps shall be protected by retaining walls	Agreed to comply. The mine is under development stages and they have agreed to take up the control measures for soil erosion and siltation including using geotextiles materials and plantation. Also have agreed to provide retaining walls around the dumps.
xvi.	Provision shall be made for the housing the labourers 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	Agreed to comply. They have agreed to provide necessary housing with the other facilities such as fuel for cooking, toilets along with septic tank and sock pits, safe drinking water, medical health care, etc. when the mine is working in full swing to the contract workers. Further informed that the housing would be of temporary structure. For other



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		people the above said facilities are existing in their colony and it would be extended.
xvii.	Trenches / garland drains shall be constructed at foot of dumps and coco filters installed at regular intervals to arrest silt from being carried to water bodies. Adequate number of Check Dams and Gully Plugs shall be constructed across seasonal / perennial nallahs (if any) flowing through the ML area and silts arrested. De-silting at regular intervals shall be carried out	Agreed to comply. The mine is not full swing of operation and so far no dump is established. They have agreed to develop adequate number of check dams and gully plugs including garland drains in the mining lease area. Also they have agreed to carry out de-silting regularly. There are no seasonal or perennial nallahs / streams flowing through the ML area.
xviii.	Occupational health and Safety measures for the workers including identification of work related health hazards, training on malaria eradication, HIV, and health effects on exposure to mineral dust etc. shall be carried out. The company shall engage a full time qualified doctor who is trained in occupational health. Periodic monitoring for exposure to respirable mineral dust on the workers shall be conducted and records maintained including health records of the workers. Awareness programme for workers on impact of mining on their health and precautionary measures like use of personal equipments etc. shall be carried out periodically. Review of impact of various health measures undertaken (at interval of five years or less) shall be conducted followed by follow up action wherever required	Agreed to comply. They have agreed to conduct Occupational health survey regularly and maintain records. Further they have a dedicated OHS Centre with a specialized doctor along with supporting staffs and facilities in their cement plant and they have agreed to extend the same facilities to the people those who work in this mine also.
xix.	Greenbelt development and selection of plant species shall be as per CPCB guidelines. Herbs and shrubs shall also form a part of afforestation programme besides tree plantation. Details of year wise afforestation programme including rehabilitation of mined out area shall be submitted to the Ministry within six months	Agreed to comply. They have agreed to develop green belt after the commencement of mining activity in full swing.
xx.	Top soil / solid waste shall be stacked properly with proper slope and adequate safeguards and shall be utilized for backfilling (wherever applicable) for reclamation and rehabilitation of mined out area. Top soil shall be separately stacked for utilization later for reclamation and shall not be stacked along with over burden	Agreed to comply. They have stacked little quantity of top soil which was removed so far and have agreed to use for green bent development activities.
xxi.	Over burden (OB) shall be stacked at earmarked dump site(s) only and shall	Agreed to comply. No OB dump is established as on today and have



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	not be kept active for long period. The maximum height of the dump shall not exceed 30 m, each stage shall preferably be of 10 m and overall slope of the dump shall not exceed 28°. The OB dump shall be backfilled. The OB dumps shall be scientifically vegetated with suitable native species to prevent erosion and surface run off. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliances status shall be submitted to the Ministry of Environment & Forests on six monthly basis	agreed to comply.
xxii.	Slope of the mining bench and ultimate pit limit shall be as per the mining scheme approved by Indian Bureau of Mines	Agreed to comply
xxiii.	The waste water from the mine shall be treated to conform to the prescribe standards before discharging into the natural stream. The discharged water from the Tailing Dam (if any) shall be regularly monitored and report submitted to the Ministry of Environment & Forests, Central Pollution Control Board and the State Pollution Control Board	Agreed to comply
xxiv.	Action plan with respect to suggestions / improvements and recommendations made during public consultation / hearing shall be submitted to the Ministry and the State Govt. within six months	Complied. Action plan with respect to suggestions / improvements and recommendations made during public consultation / hearing has been submitted to the MoEF&CC, RO on 25.10.2014.
xxv.	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	Agreed to comply
xxvi.	Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transportation of ores and others shall have valid permissions as prescribed under Central Motor Vehicle Rules, 1989 and its amendments. Transportation of ore shall be done only during day time. The vehicles transporting ores shall be covered with a tarpaulin or other suitable enclosures so that no dust particles / fine matters escape during the course of transportation. No overloading of ores for transportation shall be committed	Agreed to comply
Xxvii.	The Environmental Clearance is subject to the condition, if any, stipulated by the	Agreed to comply



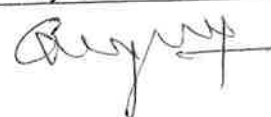
S. No.	Specific Condition	Detailed Compliance Status
	IBM on the mining scheme submitted by the project proponent for its approval	
xxviii.	Adequate buffer zone shall be maintained between two consecutive mineral bearing deposits	Refer below. There is no two consecutive mineral bearing deposits as the mining lease consists only one mineral bearing area and also only one pit.

#### B. General Conditions:

S. No.	General Condition	Detailed Compliance Status
i.	No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment & Forests	Agreed to comply. They informed that there would not be any change in mining technology and scope of working. Agreed to approach the Ministry for approval if there would be a change.
ii.	No change in the calendar plan including excavation, quantum of mineral and waste shall be made	Agreed to comply.
iii.	Fugitive dust emissions from all the sources shall be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points shall be provided and properly maintained	Agreed to comply.
iv.	Four ambient air quality monitoring(AAQ) stations shall be established in the core zone as well as in the buffer zone for RSPM, PM <sub>10</sub> / PM <sub>2.5</sub> , SO <sub>2</sub> , NO <sub>x</sub> monitoring. Location of the stations should be decided based on the meteorological data, topographical feature and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board	Complied. AAQ is monitored at four locations (in the core zone as well as in the buffer zone) in consultation with APPCB based on the meteorological data, topographical feature around the mining lease area through an external approved agency. The parameters are within the limit.
v.	Data on ambient air quality (RSPM, PM <sub>10</sub> / PM <sub>2.5</sub> , SO <sub>2</sub> , NO <sub>x</sub> ) should be made regularly submitted to the Ministry including its Regional office located at Bangalore and the State Pollution Control Board / Central Pollution Control Board once in six months. The monitored data of criteria pollutants mentioned above shall be regularly uploaded on the company's website and also displayed at project site	Complied. The Ambient air quality (RSPM, PM <sub>10</sub> / PM <sub>2.5</sub> , SO <sub>2</sub> , NO <sub>x</sub> ) data has been regularly submitted to the Ministry's Regional office, Bangalore once in six months and to the State Pollution Control Board once in month. The monitored data of criteria pollutants mentioned above are regularly uploaded on the company's website and agreed to display at project site after commencement of the mining activity in full swing.
vi.	Measure shall be taken for control of noise levels below 85 dB(A) in the work environment. Workers engaged in operations of HEMM, etc. shall be provided with ear plugs / muffs	Workers engaged in operations of HEMM are provided with ear plugs / muffs. Ambient noise levels are being monitored at regular intervals at designated locations and the noise levels are within the permissible limits.



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 shall be installed before discharge of workshop effluents	Agreed to comply.
viii.	Personnel working in dusting areas shall be provided with protective respiratory devices and they shall also be imparted adequate training and information on safety and health aspects	Agreed to comply. They have agreed to provide personnel protective equipment's to the workers including training on safety and health aspects.
ix.	Provision shall be made for the housing the labourers 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	Agreed to comply. They have agreed to provide necessary housing with the other facilities such as fuel for cooking, toilets along with septic tank and sock pits, safe drinking water, medical health care, etc. when the mine is working in full swing to the contract workers. Further informed that the housing would be of temporary structure. For other people the above said facilities are existing in their colony and it would be extended.
x.	A separate Environmental Management Cell with suitable qualified personnel shall be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization	Complied. A separate Environmental Management Cell has been set up and is reporting to Senior Executive of the company.
xi.	The project authorities shall inform to the Regional Office of the Ministry located at Bangalore regarding date of financial closures and final approval of the projects by the concerned authorities and the date of start of land development work	Project authority has informed that the date of financial closure for this project is not required as total funding for this project is from own funds. The date of start of land development work was informed through their six monthly compliance report on 26.05.2014.
xii.	The funds earmarked for environment protection measures shall be kept in separate account and shall not be diverted for other purpose. Year wise expenditure shall be reported to the Ministry and its Regional Office located at Bangalore	They have allocated an amount of Rs. 13.5 Lac as a capital cost and amount of Rs. 16 Lacs towards recurring cost. Out of this so far they have spent Rs.10.5 lacs towards capital and Rs.6.25 has towards recurring cost. Year wise expenditure is being reported to the Ministry's Regional Office, Bangalore along with 6 monthly compliance report. They have agreed to inform RO Chennai in future.
xiii.	The project authorities shall inform the Regional Office located at Bangalore regarding date of financial closures and final approval of the projects by the concerned authorities and the date of start of land development work	PAs informed that the date of financial closure for this project is not required as total funding for this project is from own funds. They have informed the date of start of land development work to RO
xiv.	The Regional Office of the Ministry located	Complied. They have extend full



	at Bangalore shall monitor compliances of the stipulated condition. The project authorities shall extend full cooperation to the officer(s) of the Regional Office by furnishing the requisite data / information / monitoring reports	cooperation to the under signed during the visit.
xv.	The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment & Forests, its Regional office, Bangalore, Central Pollution Control Board and State Pollution Control Board. The project proponent shall upload the status compliances of the environment of the environmental 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 Forests, Bangalore	Complied. They are submitting six monthly compliance reports regularly to the MoEF&CC, RO. The six monthly compliance reports are being uploaded and updated on the company's website.
xvi.	The project proponent shall advertise in at least two local newspapers widely circulated in the region around the project, one which shall be in the vernacular language of the locality, / office of Municipal Corporation / Gram Panchayat concerned on the company's website within seven days from the date of this clearance letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the State Pollution Control Board / Committee and may also be seen at website of the Ministry of Environment and Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a>	Complied. They had given an advertisement in two local newspapers namely Saakshi in Telugu daily and Deccan Chronicle in English daily on 12.12.2009 and submitted the copies of the same to RO.
xvii.	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 be also put on the website of the company	Reportedly complied. They have informed that a copy of clearance letter was sent to/ marked to the concerned Panchayat. And also the clearance letter was uploaded on the company's website
xviii.	State Pollution Control Board shall display a copy of the clearance letter at the Regional office, District Industries Centre and Collector's Office / Tehsildar's Office for 30 days	Reportedly complied.
xix.	The Environmental Statement for each financial year ending 31 <sup>st</sup> March in Form - V as is mandated shall be submitted to the State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and shall also be put on the website of the company along with the status of compliance of environmental	Environment statement for each financial year ending 31 <sup>st</sup> March in Form - V is submitted to the SPCB every year regularly and the Environment statement is uploaded on their company's website regularly. The same is also sent to the Regional Office of Ministry by e-mail





	clearance conditions. The same shall also be sent to the Regional Office of Ministry by e-mail	
4	The Ministry or any other competent authority may stipulate any further condition(s) on receiving reports from the project authorities. The above conditions will be monitored by the Regional Office of this Ministry located at Bangalore.	Agreed to comply.
5	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Agreed to comply.
6	Any other conditions (or) alteration in the above conditions shall have to be implemented by the project authorities in a time bound manner.	Agreed to comply.
7	Any appeal against this environmental clearance shall lie with the National Environmental Appellate Authority, if preferred within a period of 30 days as prescribed under Section 11 of the National Environmental Appellate Act, 1997.	Refer below. They have informed that no appeal was made against this environmental clearance.
8	The above conditions will be enforced, inter-alia under the provisions of The Water (Prevention and Control of Pollution) Act, 1974, The Air (Prevention and Control of Pollution) Act, 1981, The Environment (Protection) Act, 1986 and The Public Liability (Insurance) Act, 1991 along with their amendments and rules.	Consent For Operation (CFO) issued by the APPCB is valid up to 31.01.2017. Project authority informed that the Public Liability (Insurance) Act, 1991 is not applicable to this project.

This has been approved by the competent authority vide diary no 183 dtd 09.02.2016

  
**Dr.C. Kaliyaperumal**  
**Director (s)**

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