

Limestone Mines production increase from 5.3 MTPA to 6.7 MTPA. Environmental Clearance by MoEF vide letter No.J-111015/81/2007 – IA.II(M) dated : 06/07/2007

Status as on 26.05.2011

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| 01 | Lime stone mine of M/s Rajashree Cement at Village Malkhed | <ul style="list-style-type: none"> Existing Captive Limestone mine of Rajashree Cement | ----- |
| 02 | <ul style="list-style-type: none"> The proposal to increase is for environmental clearance for increase in limestone production capacity in District Gulbarga in Karnataka over an extent of 733.82 Hectares. | <ul style="list-style-type: none"> 733.82 Hectares is mining lease area of existing captive limestone mine of the cement manufacturing unit. | |
| | <ul style="list-style-type: none"> Proposed to increase limestone production from 5.3 million TPA to 6.7 million TPA. | <ul style="list-style-type: none"> As per IBM approved mining plan proposal, limestone production planning for 2010-11 is 6.73 MTPA | Limestone production for 2010-11 is 5.42 MTPA (Upto March-11) |
| | <ul style="list-style-type: none"> The Mine will be captive to cement plant of 4.7 million TPA capacity of clinker production. The mine is located adjacent to the cement plant. | <ul style="list-style-type: none"> MoEF Clearance F No J-11011/968/2007-IAo1) dated 13.03.2008 | |
| | <ul style="list-style-type: none"> Out of total area of 733.8 ha, the active mine area for production of limestone is about 669.3 ha leaving an area of 64.5 ha for 50m wide bund development all along the mine boundary. | <ul style="list-style-type: none"> Bund (50 m wide) developed upto 10 hectares so far | |
| | <ul style="list-style-type: none"> Topography of the area is flat. Average MSL of the mine area is 440 m. No perennial nallah or stream exists in the ML. However a seasonal nallah during the monsoon joins the Kagina river which flows at a 5 km distance in the North direction. | <ul style="list-style-type: none"> No change in topography and existing nallah. | --- |
| | <ul style="list-style-type: none"> Life of the mine is 80 years. The mine is operated by opencast mechanized method of working. It is proposed to continue to operate by the same method upto the entire depth of the ore body. | <ul style="list-style-type: none"> No change in existing open cast mechanized mining | -- |
| | <ul style="list-style-type: none"> Blasting will be done by using sequential blasting machine. | <ul style="list-style-type: none"> Blasting is being done by using sequential blasting machine and nonel system if initiation. | |
| | <ul style="list-style-type: none"> Present water requirement is about 395 m3/day. Additional water required for handling the additional production of 1.4 MTPA is estimated to be about 25 m3/day | <ul style="list-style-type: none"> Fresh water requirement is maintained well below 395 m3/day | <ul style="list-style-type: none"> For better dust suppression and reduction of fugitive emissions |

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| | which will be met from the mine pit. 5 m ³ /day of water requirement for domestic consumption will be met from the river kagina. | | on roads, mining operation etc., the recycled waste water and mines pit water is used. The total requirement of fresh water, recycled water and mines pit water is in the range of 356 m ³ /day. |
| | <ul style="list-style-type: none"> The total quantity of top soil that is expected to be removed for the life of the mine will be about 13.38 Million m³ which will be used for afforestation in and around the colony, plant, road etc and to form the bund all along the lease boundary to a width of 50m with a height of 10 m for length of 13000m. | <ul style="list-style-type: none"> Top soil is being used for afforestation in and around the colony , plant, road etc., and to form the bund along the lease boundary | |
| | <ul style="list-style-type: none"> Public Hearing of the project was held on 20.03.2007. IBM has approved Mining Scheme including progressive mine closure plan on 17.05.2006. Cost of the project is Rs.150 Lakhs. | <p>---</p> <ul style="list-style-type: none"> Estimate cost of project is Rs.8.00 Lakhs Rs.150 lakhs is estimated expenditure for mines closing plan | --- |
| 3 | The project has been considered in accordance with the para 2.2 {2.2.1(i)(a)} interim operational guidelines of the Ministry issued on 13 th October 2006 by the Ministry of Environment and Forests under para 12 of the EIA Notification 2006 | ---- | ---- |
| 4 | Based on the information submitted by you , the Ministry of Environment and Forests hereby accords environmental clearance to above project under the provisions of EIA Notification dated 14 th September 2006 subject to the compliance of the following Specific and General conditions: | ---- | ----- |
| A | Specific Conditions | | |
| i | Top soil shall be stacked properly with proper slope with adequate safeguards and shall be backfilled for reclamation and rehabilitation of mined out area | <ul style="list-style-type: none"> Top soil is totally used for Bund formation with proper slope with adequate safeguards for | ---- |

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| | | tree plantation | |
| ii | Over burden shall be stacked at earmarked dump site(s) only and shall 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 over all slope of the dump shall not exceed 28°. The OB dump shall be backfilled. In critical areas, use of geotextiles shall be undertaken for stabilization of the dump. 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. Compliance status shall be submitted to the Ministry of Environment & Forests on six monthly basis. | <ul style="list-style-type: none"> No over burden. Top soil of 2-3 m is utilized in bund formation along the lease boundary and used for afforestation . Eucalyptus, native species like casiosiomia, neem etc. are planted in consultation with Forest Department | |
| iii | Garland drains shall be constructed to arrest silt and sediment flows from soil, and mineral dumps. The water so collected shall be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly. Garland drain (size, gradient and length) shall be constructed for both mine pit and for waste dump and sump capacity shall 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 shall also provide adequate retention period to allow proper settling of silt material. Sedimentation pits shall be constructed at the corners of the garland drains and desilted at regular intervals. | <ul style="list-style-type: none"> No mineral dumps existing. Bunds are formed along the lease boundary and afforestation taken up Rain water harvesting activities are taken up to collect water from lease area in mines pit which is at low level. The collected water is used for watering the mine area, roads, green belt development etc. No water goes outside mines. | ---- |
| iv | Slope of the mining bench and ultimate pit limit shall be as per the mining scheme approved by Indian Bureau of Mines | <ul style="list-style-type: none"> Slope of the mining bench and ultimate pit limit is maintained as per scheme approved by the IBM | ---- |
| v | Drilling and blasting shall be by using dust extractors / wet drilling. | <ul style="list-style-type: none"> Wet drilling is used for drilling and blasting | ---- |
| vi | Plantation shall be raised in an area of 6.45 ha | <ul style="list-style-type: none"> Plantation is in progress | Planted more than |

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| | including green belt of adequate width by planting the native species around the ML area, haul roads , OB dump sites etc. in consultation with the local DFO / Agriculture Department. The density of the trees shall be around 2500 plants per ha. The company shall involve local people with the help of self help group for plantation programme. | (planting 15,000 saplings every year) in the bund formed along the lease boundary and other areas of mines in consultation with the local DFO. So far plantation has been raised in the area of 43.26 hectares | 17880 Nos saplings of mixed varieties in 2010-11. |
| vii | The project authority shall implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board | <ul style="list-style-type: none"> No ground water. Rain water harvesting is done in mine lease area. Central ground water Board and Ground water survey unit Zilla Parishad are consulted for necessary guidance. | ----- |
| viii | Regular monitoring of ground water level and quality shall be carried out by establishing a network of existing wells and constructing new piezometers during the mining operation. The monitoring shall 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 MoEF, Central Ground Water Authority and Regional Director Central Ground Water Board. | <ul style="list-style-type: none"> The ground water is deep seated (more than 80-90 m). Piezometer is installed and results are being submitted. | |
| ix | Prior permission from the competent authority shall be obtained for drawl of ground water, if any | <ul style="list-style-type: none"> Ground water is not available. Permission existing for drawing water from Kagina River which flows at a distance of 6-7 Km for domestic and industrial purposes. | |
| x | 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 vehicles shall be covered with a tarpaulin and shall not be overloaded. | <ul style="list-style-type: none"> Vehicles are well maintained. The vehicles are not overloaded Only big boulders (limestone) transported to crusher located within the mine and so tarpaulin is not used for | |

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| | | covering | |
| xi | Trucks / tippers shall be properly with tarpaulin sheets/ leak proof material and shall ply at safe speed. Overloading of transport vehicle shall be avoided. Spillage of ore on the roads shall be cleared immediately on occurrence. | <ul style="list-style-type: none"> Leak proof Dumpers are used for transportation of limestone upto crushers within the mine only (very short distances) . Vehicles ply at safe speed. No spillage is ensured | ----- |
| xii | 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. | <ul style="list-style-type: none"> Noted please | ----- |
| xiii | Location of ambient air quality stations shall be in the downwind direction. | <ul style="list-style-type: none"> Noted please | ---- |
| xiv | Socio economic survey of nearby 3 villages to generate baseline data shall be carried and Socio economic development activities planned accordingly in addition to the on going programmes. | Survey format developed. Selection of 3 villages in process. | <ul style="list-style-type: none"> Presently the activities of Rural Development is in about 10 villages and assisting them in education, health , self help groups, water, sanitation etc. |
| B. | General conditions | | |
| i | No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment & Forests. | Noted please | ---- |
| ii | No change in the calendar plan including excavation, quantum of mineral, limestone and waste shall be made. | There is no change from IBM approved mining plan | ----- |
| iii | Conservation measures for protection of flora and fauna in the core & buffer zone shall be drawn up in consultation with the local forest and wild life department. | Actions initiated in consultation with the local forest department | |
| iv | Four ambient air quality-monitoring stations shall be established in the core zone as well as in the buffer zone for RPM, 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. | RSPM, SPM, SO ₂ , NO _x is monitored as per CPCB Guidelines and reports submitted to State Pollution Control Board. | |

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| v | Data on ambient air quality (RPM, SPM, SO ₂ , NO _x) should be 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. | <ul style="list-style-type: none"> Data is being submitted regularly to KSPCB. | Data is being submitted to Ministry and CPCB . |
| vi | 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. | <ul style="list-style-type: none"> Water spraying arrangement on haul roads, loading and unloading and at transfer points is existing and properly maintained. | |
| vii | Measures shall be taken for control of noise levels below 85dBA in the work environment. Workers engaged in operations of HEMM, etc. shall be provided with ear plugs / muffs. | <ul style="list-style-type: none"> Measures are taken for control of noise levels. Earplugs / muffs are provided. | |
| viii | 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 shall be installed before discharge of workshop effluents. | <ul style="list-style-type: none"> Oil and grease trap is provided for workshop effluents. Effluents are tested once in a while for parameter pH, SS, TDS, Chlorides, Oil & Grease. | |
| ix | Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects. | <ul style="list-style-type: none"> Adequate safety and health trainings are provided and protective devices are provided for concerned. | ---- |
| x | Occupational health surveillance program of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed. | <ul style="list-style-type: none"> Occupational health surveillance program for workers undertaken periodically | ---- |
| xi | 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. | <ul style="list-style-type: none"> Separate environmental management cell with suitable qualified personnel existing under the control of General Manager who directly reports to Unit Head. | ----- |
| xii | The project authorities shall inform to the Regional Office located at Bangalore regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work. | <ul style="list-style-type: none"> Captive limestone mines of cement plant. | |

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| xiii | The funds earmarked for environmental protection measures shall be kept in separate account and should not be diverted for other purpose. Year wise expenditure shall be reported to the Ministry and its Regional Office located at Bangalore. | <ul style="list-style-type: none"> The funds allotted for environmental protection measures are used for the purpose. Additional sanctions are generally taken for further improvement. | |
| xiv | The project authorities shall inform to the Regional Office located at Bangalore regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work. | <ul style="list-style-type: none"> Existing Mines Same as (xii) | --- |
| xv | The Regional Office of this Ministry located at Bangalore 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. | <ul style="list-style-type: none"> Noted please Information of advertising in local news papers submitted to the Regional Office, MoEF at Bangalore. | |
| xvi | 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. | <ul style="list-style-type: none"> A copy of clearance letter submitted to Gram Panchayat, Malkhed | Receipt dt.14 .07.2007 |
| xvii | 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. | <ul style="list-style-type: none"> Copies of clearance letter submitted to KSPCB Office | Letter receipt dt.13.07.2007 |
| xviii | The project authorities should advertise at least in two local news papers 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 shall be forwarded to the Regional Office of this Ministry located Bangalore. | <ul style="list-style-type: none"> Advertised in two local papers viz Samyuktha Karnataka (Kannada) and Deccan Hearld (English) on 14.07.2007. Copy forwarded to the Regional Office, MoEF, Bangalore. | |
| 5 | The Ministry or any other competent authority may alter / modify the above conditions or stipulate any further condition in the interest of environment protection. | <ul style="list-style-type: none"> Noted please | ----- |
| 6 | Failure to comply with any of the conditions mentioned above may result in withdrawal of | <ul style="list-style-type: none"> Noted please | ----- |

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| | this clearance and attract action under the provisions of Environment (Protection) Act, 1986 | | |
| 7 | 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. | <ul style="list-style-type: none"> • Noted please | ----- |