

Chettinad Cement Corporation Private Limited
Kallur Limestone Mine
Kallur Village, Chincholi Taluk , Kalaburagi District, Karnataka

Environmental Clearance (EC) Compliance Report (Apr '17 – Sep '17)
(Mine Expansion)

*(EC granted vide letter F. No. J-II015/29/2011-IA.II (M) dated 8th Mar 2016
for Expansion of Mining Capacity from 4 to 10 million tons per annum & Mining Lease Area of 422.94 ha)*

(Expansion Programme not yet implemented)

A. Specific Conditions

S.No	Specific Condition	Compliance status
i	The water table is dropping In the area as indicated by the data from November 2014 – March 2015. Therefore the additional conservation measures shall be taken to protect/conservate the ground water table.	Steps will be taken to improve the rain water harvesting structures by providing additional catch drains, garland drains to divert the rainwater from the Mine Area to the Rainwater Harvesting Ponds. The water harvested will help to improve the ground water table. Also, to the maximum extent possible, the harvested rain water will be used to reduce the dependency on ground water drawl.
ii	The bund constructed for protection of nallah shall not Interfere with the natural drainage of the area.	Required precautions will be taken to prevent disturbance to the natural drainage of the area while constructing the bund for protection of nallah.
iii	In order to protect the water stream, a 50 m non-mining safety barriers on both side of nallah to protect from any siltation is proposed. Protective measures like gully plugs shall be erected across the water	50 m non-mining safety barriers will be provided on both side of nallah to protect from any siltation. Also, protective measures like gully plugs will be erected across the water course to enable settling of

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	course to enable settling of any silt. Grass species and leguminous plants shall be cultivated for binding the loose soil and improve the soil fertility.	silt. Grass species and leguminous plants will be cultivated on the slopes of the bunds formed for binding the loose soil and improve the soil fertility.
iv	Environmental Clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court of Karnataka and any other Court of Law, if any, as may be applicable to this project.	Noted and agreed.
v	Environmental clearance is subject to obtaining NBWL clearance from Standing Committee of NBWL.	Guidelines noted.
vi	No mining activities will be allowed in forest area, if any, for which the Forest Clearance is not available	There is no forest land involved within the Mining Lease. Hence, this condition is not applicable.
vii	Proponent shall appoint an occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and records maintained; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smokers, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted; All the old age people of the surrounding villages may be provided medical facilities.	A qualified Medical Officer is available. Regular and Periodical medical examination are being conducted for the workers of the existing Mine and records are also maintained. Also, Occupational Health Check-ups are conducted for the workers once in a year. Necessary remedial/preventive measures will be taken, if required. Health care facilities under CSR initiative, are extended to the surrounding villages, which will cover the old age people also. The above mentioned practices will be continued for the proposed expansion also.

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		Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers will also be adopted.
viii	The project proponent shall obtain Consent to Establish and Consent to Operate from the Karnataka State Pollution Control Board and effectively implement all the conditions stipulated therein.	Consent to Establish has been obtained (Consent Order No : CTE-301659 Date : 16th Dec 2016). Consent to Operate from the Karnataka State Pollution Control Board will be obtained and the conditions stipulated in the Consent Orders will be effectively implemented.
ix	The prior permission from CGWA shall be obtained before intersecting the groundwater table.	The application has been submitted to Karnataka Ground Water Authority, for getting the permission for the additional ground water drawl and for the intersection of ground water.(Karnataka is one of the States, authorized to deal with regulation of ground water and management as notified by the Central Ground Water Authority).
x	To avoid adverse impact of mining operations on habitations/villages, the Proponent shall comply with conditions provided In OM no. Z-11013/57/2014-IA.II(M) dated 29.10.2014 on Impact of mining activities on Habitations Issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area.	There are no habitations and villages within the proposed Mining Lease Area. The nearest habitation is at Kallur and Sangam Villages. The control measures detailed in the EMP will be implemented to minimize the impact of mining operations.

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xi	<p>The loose solids should be kept separately from flowing water and flow of effluents to nearby areas outside the leasehold shall be prevented. The paved drains along with arrangements for Over Burden Dumps and their drainage may be clearly depicted on a contoured map of the mining area.</p>	<p>The loose solids are being separated from flowing water by constructing garland drains/catch drains with gully plugs and sumps in the existing Mine. There is no generation of industrial effluent from the existing mining operations and the domestic waste water is being treated in septic tank followed by dispersion trench. Hence, there will not be any flow of effluents to nearby areas outside the leasehold.</p> <p>There is no over burden and hence there will not be any need to provide paved drains and depicting the same on the contour-map of Mining Lease area.</p> <p>In the existing Mine, the top soil (Black Cotton Soil- BCS) removed is being used for formation of bunds along the boundary of ML area and safety barriers. The top soil is also being used for greenbelt development also.</p> <p>These above practices will be continued for the proposed expansion also.</p> <p>The balance BCS, after using for bund formation and greenbelt development, will be stacked at the designated location. The maximum height of the top soil stack will be 10 m. The slope of the BCS Stack will be 38°.</p>

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		<p>The BCS Stack will be provided with retention wall and garland drain with gully plugs. The run-off will be diverted to a sump to separate solid particles. The slope of the BCS will be dosed with plant nutrients and soil stabilizers. This will improve the fertility of the soil. The grass will be developed on the slope of BCS Stack.</p>
xii	<p>The project proponent shall ensure that no natural watercourse and/or water resources shall be obstructed due to any mining operations. Adequate measures shall be taken for conservation and protection of the 1st and 2nd order streams, emanating or passing through the mine lease during the course of mining operation.</p>	<p>No natural watercourse or water resource will be obstructed due to any mining operations. Adequate measures like 50 m safety barriers and greenbelt will be provided to conserve and protect water stream passing through the Mining Lease Area.</p>
xiii	<p>The top soil, if any shall temporarily be stored at earmarked site (s) only and it should not be kept unutilized for long. The top soil shall be used for land reclamation and plantation.</p>	<p>In the existing Mine, the top soil (Black Cotton Soil) removed is being used for formation of bunds along the boundary of ML area and safety barriers. The top soil is also being used for greenbelt development also. These above practices will be continued for the proposed expansion also.</p> <p>The balance BCS, after using for bund formation and greenbelt development, will be stacked at the designated location. The maximum height of the top soil stack will be 10 m. The slope of the BCS Stack will be 38°. The BCS Stack will be provided with retention wall and garland drain with gully plugs. The run-off will be diverted to a sump</p>

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		to separate solid particles. The slope of the BCS will be dosed with plant nutrients and soil stabilizers. This will improve the fertility of the soil. The grass will be developed on the slope of BCS Stack.
xiv	Appropriate safeguard measures shall be taken to ensure stability and drainage of dump so that no solid waste/debris flows into the nallah.	The balance BCS, after using for bund formation and greenbelt development, will be stacked at the designated location. The maximum height of the top soil stack will be 10 m. The slope of the BCS Stack will be 38°. The BCS Stack will be provided with retention wall and garland drain with gully plugs. The run-off will be diverted to a sump to separate solid particles. The slope of the BCS will be dosed with plant nutrients and soil stabilizers. This will improve the fertility of the soil. The grass will be developed on the slope of BCS Stack.
xv	The over burden (OB) generated during the mining operation shall be stacked at earmarked dump site(s) only and it should not be kept active for a long period of time and their phase-wise stabilization shall be carried out. Proper terracing of OB dump(s) shall be carried out. The over burden dump(s) shall be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas, use of geo textiles shall be undertaken for stabilization of the dumps. Monitoring and management of rehabilitated areas	As there is no overburden, this condition is not applicable.

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	<p>should continue until the vegetation becomes self-sustaining. Compliance status should be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office, Bangalore on six monthly basis.</p>	
xvi	<p>Catch drains and siltation ponds of appropriate size shall be constructed for the working pit, temporary OB and mineral dumps to arrest flow of silt and sediment directly into the adjoining River 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>In the existing Mine, catch drains with gully plugs and siltation ponds of appropriate size have been constructed for the working pit. The water collected is being utilized for watering the mine area, roads, greenbelt development etc. The drains are being regularly desilted particularly after the monsoon and maintained properly.</p> <p>The same practices will be continued for the proposed expansion also.</p> <p>The BCS Stack will be provided with retention wall and garland drain with gully plugs. The run-off will be diverted to a pond to separate solid particles to arrest flow of silt and prevent sediment from reaching the adjoining River and other water bodies. There is no over burden.</p>
xvii	<p>Dimension of the retaining wall at the toe of the OB dump(s) and the OB benches within the mine to check run-off and siltation should be based on the rain fall data.</p>	<p>As there is no overburden, this condition is not applicable.</p>

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xviii	<p>Plantation shall be raised in the specified area, Including a 7.5m wide greenbelt in the safety zone around the mining lease, OB dump(s), along the roads, etc. by planting the native species in consultation with the local DFO/Agriculture Department. In addition, plantation shall also be raised in the back filled and reclaimed area and around water body. The density of the trees should be around 1500 plants per ha.</p>	<p>In the existing Mine, 7.5 m wide greenbelt along the boundary of the ML Area, along the roads, safety barrier, etc., is being developed by planting the native species in consultation with the local DFO/Agriculture Department. So far, the greenbelt has been developed over an area of 20.68 ha by planting 39,812 saplings in the Mine area, following the guidelines of CPCB.</p> <p>There is no over burden.</p> <p>In addition, plantation will be raised on the back filled and reclaimed area and around water body. The current density of the trees is 1925 plants per ha.</p>
xix	<p>Effective safeguard measures, such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as around crushing and screening plant, loading and unloading point and all transfer points. Extensive water sprinkling shall be carried out on haul roads. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board In this regard.</p>	<p>In the existing Mine, regular water sprinkling is being carried out in areas prone to air pollution such as mining area, loading and unloading points. Extensive water sprinkling is being carried out on haul roads. It will be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board In this regard.</p> <p>The same practices will be continued for the proposed expansion also.</p> <p>There are no crushing and screening plant and no conveyors/transfer points within the ML Area.</p>

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xx	Regular monitoring of water quality upstream and downstream of perennial nallahs falling in the impact zone shall be carried out and record of monitoring data should be maintained and submitted to Ministry of Environment, Forest and Climate Change, Its Regional Office, Bangalore, Central Groundwater Authority, Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board.	Regular monitoring of water quality upstream and downstream of seasonal nallahs falling in the impact zone is being carried out and the record of monitoring data is being submitted to Ministry of Environment, Forest and Climate Change, Its Regional Office, Bengaluru, Central Groundwater Authority, Regional Director, Central Ground Water Board, Karnataka State Pollution Control Board and Central Pollution Control Board.
xxi	Appropriate measures shall be taken for treatment of the upper catchment of the mine lease area.	In the existing Mine, the solid particles are getting separated from the water flow by the gully plugs provided in the garland drains & catch drains and the pond. The same practices will be continued for the proposed expansion also.
xxii	The project authority should implement suitable conservation measures to augment ground water resources in the area In consultation with the Regional Director, Central Ground Water Board.	In the existing Mine, the rainwater harvesting structures like garland/catch drains and rainwater harvesting ponds provided already are serving the purpose of groundwater recharge as well as ensuring water availability for use during lean season. Additional catch drains, garland drains to divert the rainwater from the Mine Area to the Rainwater Harvesting Ponds, will be provided In consultation with the concerned Authority to further improve the effectiveness of ground recharging and provide water for various purposes.

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xxiii	<p>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 Installing 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, Forest and Climate Change and its Regional Office Bangalore, the Central Ground Water Authority and the Regional Director, Central Ground Water Board. 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.</p>	<p>Regular monitoring of ground water level and quality is being carried out in and around the existing mine lease area four times in a year, once in each season. Two piezometers have been installed for continuous monitoring of water levels.</p> <p>The data collected are being sent to the Regional Office of MoEF & CC, Bengaluru and the Regional Director, Central Ground Water Board.</p> <p>If at any stage, it is observed that the groundwater table is getting depleted due to the mining activity, necessary corrective measures will be carried out.</p> <p>The same practices will be continued for the proposed expansion also.</p>
xxiv	<p>The project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of water, required for the project. Suitable rainwater harvesting measures on long term basis shall be planned and implemented in</p>	<p>The permission from the competent authorities will be obtained for the additional water requirement for the expansion as well as for the intersection of ground water.</p> <p>In the existing Mine, the rainwater harvesting structures like garland/catch</p>

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	consultation with the Regional Director, Central Ground Water Board.	drains and rainwater harvesting ponds have already been provided. Additional catch drains, garland drains to divert the rainwater from the Mine Area to the Rainwater Harvesting Ponds, will be provided in consultation with the concerned Authority to further improve the effectiveness of ground recharging and provide water for various purposes.
xxv	Suitable rain water harvesting measures on long term basis shall be planned and implemented in consultation with the Regional Director, Central Ground water Board.	Rainwater harvesting structures like garland/catch drains and rainwater harvesting ponds have already been provided in the existing Mine. Additional catch drains, garland drains to divert the rainwater from the Mine Area to the Rainwater Harvesting Ponds, will be provided in consultation with the concerned Authority to further improve the effectiveness of ground recharging and provide water for various purposes.
xxvi	Appropriate mitigative measures should be taken to prevent pollution of nearby River in consultation with the State Pollution Control Board.	From the present mining operations, no industrial effluent is getting generated and there is no discharge of effluent to the nearby river as Zero Discharge Concept is adopted. The dust is controlled by regularly spraying the areas, likely to generate dust, with water to prevent the dust reaching nearby water sources. Greenbelt development is done along the boundary of the ML Area, safety barriers etc., The rainwater is harvested and stored in the ponds for using the same for various

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		<p>purposes within the Plant & Mine area.</p> <p>Thus , appropriate mitigative measures have been taken to prevent pollution of nearby River.</p> <p>The same practices will be continued for the proposed expansion also.</p>
xxvii	<p>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 mineral transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded.</p>	<p>In the existing Mine, the vehicles are being checked for PUC certificate at the mine entry point to ensure that emissions are kept under control. Regular maintenance of vehicles used in mining operations and in transportation of mineral are being ensured. The mineral transportation is carried out after covering the same with tarpaulin. No overloading of trucks is allowed.</p> <p>The same practices will be continued for the proposed expansion also.</p>
xxviii	<p>Controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.</p>	<p>In the existing Mine, the controlled blasting techniques are being followed to control of ground vibrations and to arrest fly rocks and boulders as detailed hereunder.</p> <ul style="list-style-type: none"> • Carrying out blasting operations with low density explosives to have a heaving effect than an explosion • Using Noiseless Trunk Delay to allow only one hole, with charge per hole, which is a a fraction of the total

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		<p>explosives to blast at a point of time and ensure each hole will have one delay to minimize boulder generation, frequent toe occurrence, fly rock generation</p> <ul style="list-style-type: none"> • Ensuring that stemming column is more than burden to avoid blown out shots • Providing stemming column with deck loading to reduce the noise levels & fly rock generation <p>The same practices will be continued for the proposed expansion also.</p>
xxix	Drills shall either be operated with dust extractors or equipped with water injection system.	<p>In the existing Mine, the wet drilling is being adopted.</p> <p>The same practice will be continued for the proposed expansion also.</p>
xxx	Mineral handling area shall be provided with the 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.	<p>The mining area and the loading & unloading points are being sprayed with water to suppress dust in the existing Mine .</p> <p>The same practice will be continued for the proposed expansion also.</p> <p>There are no conveyors and transfer points in the ML Area.</p>
xxxii	Sewage treatment plant shall be Installed for the colony. ETP shall also be provided for the workshop and wastewater generated during the mining operation.	Sewage treatment plant has been Installed for the colony.

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		<p>The vehicles and the mining machinery used for the existing mining operation are maintained by the mining contractor at the workshop in Chincholi. Hence, there is no waste water generation at the Mine.</p> <p>The domestic waste water is being treated in septic tank followed by dispersion trench. There will not be any discharge of effluents from the mine premises. Hence, the need for ETP at Mine does not arise.</p> <p>The same practices will be continued for the proposed expansion also.</p> <p>However, a Common Workshop will be provided with oil & grease trap in the Factory premises, adjacent to the Mining Lease Area and the same workshop will cater to the requirement of Mine also.</p>
xxxii	<p>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.</p>	<p>In the existing Mine, pre-placement medical examination and periodical medical examination of the workers are being carried out and records are also maintained. For this purpose, the schedule of health examination of the workers is being drawn and followed accordingly. The same practices will be continued for the proposed expansion also.</p>

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xxxiii	<p>Regular monitoring of free silica in the dust will be carried out and records maintained. It shall be ensured that the levels of silica do not exceed the prescribed limit. The workers will be provided with personal protective measures to guard against inhaling silica dust.</p>	<p>The workers employed in the exiting Mine are provided with personal protective measures to guard against inhaling silica dust.</p> <p>The same practice will be continued for the proposed expansion also.</p> <p>Regular monitoring of free silica in the dust is being carried out once in 6 months and records are also being maintained. It will be ensured that the levels of silica do not exceed the prescribed limit.</p>
xxxiv	<p>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, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.</p>	<p>As the proposal is for mining activity, no major construction work is envisaged. Toilet is already available. Only Office Shed will be constructed, which do not require any staying facilities for the construction labourers. Hence, this condition is not applicable.</p>
xxxv	<p>The project proponent should take all precautionary measures during mining operation for conservation and protection of endangered flora as well as endangered fauna in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented In consultation with the State Forest and Wildlife Department. Necessary allocation of funds for</p>	<p>The conservation plan has been prepared and submitted to the Chief Conservator of Forests, Gulbarga , Karnataka along with the application for getting the clearance form NBWL. The Conservation Plan has been incorporated in the EIA Report and a copy of the EIA Report (including the Conservation Plan) has already been submitted to the Regional Office of MoEF& CC , Bengaluru.</p>

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	<p>implementation of the conservation plan shall be made and the funds so allocated shall be included in the project cost. Copy of action plan may be submitted to the Ministry and its Regional Office at Bangalore within 3 months.</p>	<p>Allocation of funds as indicated in the conservation plan will be made and the funds so allocated will be included in the project cost.</p> <p>The detailed action plan for implementing the conservation measures to protect endangered flora as well as endangered fauna in the study area will be prepared and implemented by Forest Department. The funds committed will be released by the project proponent.</p>
xxxvi	<p>The critical parameters such as RSPM (Particulate matter with size less than 10 micron i.e., PM₁₀) and NO_x 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 also 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 a display board at the project site at a suitable location near the main gate of the Company In public domain. The Circular No. J-20012/1/2006-IA.II(M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change, which is available on the website of the Ministry</p>	<p>In the existing Mine, the critical parameters such as RSPM (Particulate matter with size less than 10 micron i.e., PM₁₀) and NO_x in the ambient air within the impact zone are being monitored periodically.</p> <p>There is no generation of industrial effluent from the mining operations and the domestic waste water is being treated in septic tank followed by dispersion trench. There will not be any discharge of effluents from the mine premises.</p> <p>The same practices will be continued for the proposed expansion also.</p> <p>The need to monitor the effluent quality and uploading of the same in the company website do not arise as there will be no</p>

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	<p>www.envfor.nic.in shall also be referred in this regard for its compliance</p>	<p>discharge effluent from the Mine Area.</p> <p>As the nearest habitation from the present Mine working location is Kallur Village and is 1500 m away , there will be no adverse effect due to blasting in the mine and therefore peak particle velocities are not being monitored. However, when the mine workings reaches 500 m to the boundary, the monitoring of peak particle velocity will be commenced . As per the numerical estimation done, the peak particle velocity calculated at a distance of 500 m is only 2.5 to 3.0 mm/sec, which is within the permissible limits prescribed by DGMS as 10 mm/sec.</p> <p>The monitored data are being uploaded on the website of the company and are also being displayed on a board near the Mine entrance.</p>
xxxvii	<p>A Final Mine Closure Plan along with details of Corpus Fund should be submitted to the Ministry of Environment, Forest and Climate Change, 5 years in advance of final mine closure for approval.</p>	<p>Final Mine Closure Plan along with details of Corpus Fund will be submitted to the Ministry of Environment, Forest and Climate Change , 5 years in advance of final mine closure for approval.</p>
xxxviii	<p>The project proponent shall undertake all the commitments made during the public hearing and effectively address the concerns raised by the locals In the public hearing as well as during consideration of the project, while implementing the project</p>	<p>All the commitments made during the public hearing and the concerns raised by the locals in the public hearing as well as during consideration of the project, will be fulfilled effectively, while implementing the project.</p>

B. General conditions

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i	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment, Forest and Climate Change.	No change in mining technology and scope of working will be made without prior approval of the Ministry of Environment, Forest and Climate Change.
ii	No change in the calendar plan including excavation, quantum of mineral Limestone and waste should be made.	No change in the calendar plan including excavation, quantum of mineral Limestone and waste will be made.
iii	Four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for RSPM (Particulate Matter with size less than 10micron i.e., PM10) and NOx 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.	7 Ambient Air Quality-Monitoring Stations provided in the core zone as well as in the buffer zone for RSPM (Particulate Matter with size less than 10 micron i.e., PM ₁₀) and NOx monitoring , considering the meteorological data, topographical features and environmentally and ecologically sensitive targets. The frequency of monitoring has been decided in consultation with the Karnataka State Pollution Control Board.
iv	Data on ambient air quality RSPM (Particulate Matter with size less than 10 micron i.e., PM ₁₀) & NOx should be regularly submitted to the Ministry of Environment, Forest and Climate Change including Its Regional office located at Bangalore and the State Pollution Control Board / Central Pollution Control Board once In six months.	For the existing Mine, the data on RSPM (Particulate Matter with size less than 10 micron i.e., PM ₁₀) & NOx are being regularly submitted to the Ministry of Environment, Forest and Climate Change including Its Regional office located at Bengaluru, Zonal Office of Central Pollution Control Board, Bengaluru and the Karnataka State Pollution Control Board once In six months. The same practice will be continued for the proposed expansion also.

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v	<p>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.</p>	<p>In the existing Mine, the fugitive dust emissions are being controlled by regularly water spraying on haul roads, loading and unloading points.</p> <p>The same practice will be continued for the proposed expansion also.</p> <p>There are no conveyors in the ML Area. Hence, no transfer points are available.</p>
vi	<p>Measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs / muffs.</p>	<p>Adequate control measures like acoustic enclosures, silencers, controlled blasting and good maintenance of Mining Machinery & Vehicles are being ensured in the existing Mine for controlling noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. are provided with ear plugs / muffs.</p> <p>The same practices will be continued for the proposed expansion also.</p>
vii	<p>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 19th May,1993 and 31st December, 1993 or as amended from time to time. Oil and grease trap should be Installed before discharge of workshop effluents.</p>	<p>No waste water is getting generated from the existing Mine. The vehicles and the mining machinery used for the existing mining operation are maintained by the mining contractor at the workshop in Chincholi. However, a Common Workshop will be provided with oil & grease trap in the Plant premises, adjacent to the Mining Lease Area and the same workshop will cater to the requirement of Mine also. There will be no</p>

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		generation of industrial effluent from the mining operations on expansion and the need for Oil & Grease trap and the ETP are not envisaged for the Mine.
viii	Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.	In the existing Mine, personnel working in dusty areas are provided with protective respiratory devices and the use of the same by them are also being ensured. The workers are given adequate training and information on safety and health aspects. Occupational health surveillance program for the workers is carried out periodically to find out whether any impact due to exposure to dust is there .Corrective measures, if needed, will be taken. The same practices will be continued for the proposed expansion also.
ix	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.	A separate environmental management cell with suitable qualified personnel has already been set-up under the control of a Senior Executive, who is reporting directly to the Head of the Organization.
x	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 of Environment, Forest and Climate Change and Its Regional Office located at Bangalore.	For the existing mine, the funds earmarked for environmental protection measures proposed for the expansion is kept in separate account and is getting diverted for other purpose. Year wise expenditure is being reported to the Ministry of Environment, Forest and Climate Change and Its Regional Office located at Bengaluru.

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		<p>The same practices will be continued for the proposed expansion also.</p> <p>The expenditure incurred for environmental protection and monitoring for the year 2017 -18 upto Sep '17 was Rs 17.91 lakhs.</p>
xi	<p>The project authorities should inform 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.</p>	<p>As internally accrued funds will be used for this proposed expansion, the need to communicate the date of financial closure and final approval of the expansion project is not envisaged. The date of commencement of developmental work will be informed to the Regional office of MoEF & CC, Bengaluru as soon as the same is taken up.</p>
xii	<p>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.</p>	<p>Full cooperation is being extended to the Officer (s) of the Regional Office of the MoEF & CC located at Bengaluru by furnishing the requisite data / Information / monitoring reports pertaining to existing Mine.</p> <p>The same practice will be continued for the proposed expansion also.</p>
xiii	<p>The project proponent shall submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the Ministry of Environment, Forest and Climate Change, its Regional Office</p>	<p>The six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data are being submitted (both in hard copies as well as by e-mail) to the Ministry of Environment, Forest and Climate Change, Regional Office of MoEF & CC, Bengaluru, the Zonal Office of Central</p>

S. No	General Condition	Compliance Status
	<p>Bangalore, the respective Zonal Office of Central Pollution Control Board the State Pollution Control Board. The proponent shall upload the status of compliance of the Environmental Clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the Ministry of Environment, Forest and Climate Change, Bangalore, the respective Zonal Office of Central Pollution Control Board and the State Pollution Control Board.</p>	<p>Pollution Control Board, Bengaluru and Karnataka State Pollution Control Board and also being uploaded in the company website.</p> <p>The same practice will be continued for the proposed expansion also.</p>
xiv	<p>A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad/ Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.</p>	<p>Environmental Clearance copy sent to Gram Panchayat of Miryan and Anwar and two NGOs.</p> <p>The Environmental Clearance letter has also been put up in the website of our company.</p>
xv	<p>The State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industry Centre and the Collector's Office/ Tehsildar's Office for 30 days.</p>	<p>This is the responsibility of Karnataka Pollution Control Board.</p>
xvi	<p>The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned</p>	<p>The environmental statement for each financial year ending 31st March in Form-V as is mandated is being submitted for the existing Mine to the Karnataka State</p>

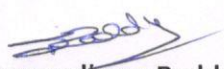
S. No	General Condition	Compliance Status
	State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall be put on the website of the company along with the status of compliance of Environmental Clearance conditions and shall also be sent to the Regional Office of the Ministry of Environment, Forest and Climate Change, Bangalore by e-mail.	Pollution Control Board and the Regional Office of the Ministry of Environment, Forest and Climate Change, Bengaluru as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently in hard copy as well as by e-mail and also put in the website of the company along with the status of compliance of Environmental Clearance conditions. For the proposed expansion of Mine also, the same practices will be continued.
xvii	The project authorities should advertise at least in two local newspapers of the District or State widely circulated in which the project is located and 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, Forest and Climate Change at http://envfor.nic.in and a copy of the same should be forwarded to the Regional Office of this Ministry located at Bangalore.	Advertisement in Samyuktha Karnataka & New Indian Express published on 13.03.2016 informing the public that the project has been accorded environmental clearance and a copy of the clearance letter is available with Karnataka State Pollution Control Board. Copies of the advertisement submitted to MoEF & CC Regional Office, Bengaluru vide our letter CHETTINAD /KW/EC/2016-1 dated 14.03.2016.

Other Conditions

S No	Other Condition	Compliance Status
12	The Ministry or any other Competent Authority may alter/modify the above conditions or stipulate any further	Guidelines noted and the additional condition stipulated will also be complied with.

S No	Other Condition	Compliance Status
	condition in the interest of environment protection.	
13	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Guidelines noted.
14	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 thereunder and also any other orders passed by the Hon'ble Supreme Court of India/High Court of Andhra Pradesh and any other Court of Law relating to the subject matter.	Guidelines noted.
15	Any appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Guidelines noted.

for Chettinad Cement Corporation Private Limited


C Janaradhana Reddy,
Joint President (Works)

