

## Chettinad Cement Corporation Private Limited

(Cement Plant , Waste Heat Recovery Boiler and Captive Power Plant)

Pedagarlpadu & Kesanupalli Villages, Dachepalli Mandal, Guntur District, Andhra Pradesh

### EC granted vide letter F.No. J-11011/421/2011-IA.II (I) dated 24<sup>th</sup> Feb 2015

( Cement Plant with a capacity of 3.5 million tons per annum , Waste Heat Recovery Boiler and Turbo- Generator with a capacity of 8 mw of Power Generation using Kiln Hot Gases in & Captive Power Plant with a capacity of 2 x 50 mw )

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

#### (Land Development Work Commenced)

#### 11. Specific Conditions

S No	Specific Condition	Compliance Status/ Action Plan
i.	The expansion project shall comply with the new MOEF Standards vide GSR 612 (E) dated 25.08.2014 with respect to Particulate Matter, SO <sub>2</sub> , NO <sub>x</sub> for Cement Sector.	The latest standards prescribed by the Ministry of Environment, Forest & Climate Change (MoEFCC) for Particulate Matter, SO <sub>2</sub> , NO <sub>x</sub> for Cement Sector will be complied with.
ii.	Continuous stack monitoring facilities to monitor gaseous emissions from the process stacks shall be provided. After expansion, limit of PM shall be controlled to meet prescribed standards by installing adequate air pollution control system. Electrostatic Precipitators to Clinker Cooler, Bag House to Raw Mill Kiln and Bag Filters to Coal Mill and Cement Mill, Low NO <sub>x</sub> burners shall be provided to control NO <sub>x</sub> emissions. Regular calibration of the instruments must be ensured.	<p>Continuous stack monitoring facilities to monitor gaseous emissions from the process stacks will be provided.</p> <p>This is a greenfield project. For this new project and for future expansion programme, whenever it is taken up, adequate air pollution control system will be provided to control PM and meet prescribed standards.</p> <p>Electrostatic Precipitators to Clinker Cooler, Bag House to Raw Mill Kiln, Coal Mill and Cement Mill will be provided.</p> <p>Low NO<sub>x</sub> burners will be provided to control NO<sub>x</sub> emissions.</p> <p>Regular calibration of the instruments will be ensured.</p>

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iii.	All the pollution control devices/equipment in Raw Mill Kiln, Kiln Feeding System, Clinker Cooler, Coal Mill, Cement Mill and Cement Silo, shall be interlocked so that in the event of the pollution control devices/systems not working, the respective units shut down automatically.	All the pollution control devices/equipment in Raw Mill Kiln, Kiln Feeding System, Clinker Cooler, Coal Mill, Cement Mill, and Cement Silo will be interlocked so that in the event of the pollution control devices/systems not working, the respective unit gets shut automatically.
iv.	Proper and full utilization of gases generated from the Kiln in Waste Heat Recovery Boiler (WHRB) and a feasibility report shall be prepared and implemented as part of the Integrated project.	<p>The possibility of utilizing the hot gases from the Kiln to generate power using Waste Heat Recovery Boiler (WHRB) and Turbo-Generator has already been established in our recently commissioned greenfield project of Integrated Cement Plant at Kallur, Gulbarga District, Karnataka.</p> <p>As similar type of process and equipment will be used in this proposed greenfield project at Andhra Pradesh, the proposal submitted for EC, includes a Waste Heat Recovery Boiler and other Accessory Equipment with a capacity to generate 8 mw Power from the hot gases from the Kiln.</p> <p>The Environmental Clearance accorded includes 8 mw Power Generation using hot gases from the Kiln through Waste Heat Recovery Boiler and other Accessory equipment and the same will be provided as proposed.</p>
v.	The proponent shall provide an interlocking system to ensure that whenever the ESP is not in operation,	An interlocking system will be provided to ensure that the raw material feeder automatically stops whenever the ESP is not in

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	the raw material feeder will automatically stop and restart only with the restart of ESP.	operation and restarts only with the restart of ESP.
vi.	Secondary fugitive emissions shall be controlled and shall be within the prescribed limits and regularly monitored. Guidelines / Code of Practice issued by the CPCB in this regard shall be followed.	<p>Secondary fugitive emissions will be controlled by adopting the following measures in accordance with Guidelines / Code of Practice issued by the CPCB to ensure that the fugitive emissions are within the prescribed limits.,</p> <ul style="list-style-type: none"> <li>• Paved/concrete roads for truck movement</li> <li>• Use of closed trucks/bulkers/covering materials with tarpaulin before commencing transport</li> <li>• Ensuring Speed control</li> <li>• Avoiding overloading</li> <li>• Providing closed storage for Gypsum, Coal etc.,</li> <li>• Closed Silos for Raw Meal, Clinker, Fly Ash &amp; Cement</li> <li>• Water Sprinkling arrangement</li> <li>• Bag Filters at Transfer Points</li> <li>• Maintaining the equipment in good condition.</li> <li>• Greenbelt along the boundary of the Plant premises</li> </ul> <p>The monitoring of fugitive emissions will also be regularly monitored.</p>
vii.	Arsenic and Mercury shall be monitored periodically in emissions, ambient air and water.	Emissions, Ambient Air Quality and Water Quality will be periodically monitored for all applicable parameters.
viii.	The coal storage yard shall be lined and covered.	The coal storage yard will be lined and covered.

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ix.	<p>Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land. All the raw materials including fly ash shall be transported in the closed containers only and shall not be overloaded. The company shall have separate truck parking area. Vehicular emissions shall be regularly monitored.</p>	<p>All the efforts viz., covering the materials with tarpaulin, ensuring speed control, avoiding over loading, ensuring good condition of the trucks using road sweeping/cleaning machine, paving of roads and maintenance of the roads, will be ensured to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land.</p> <p>All the raw materials will be transported in closed trucks or after covering the materials with tarpaulin. The Fly Ash will be transported in bulkers only. The vehicles will not be overloaded. The awareness programme will be conducted to drivers to ensure that over-speeding &amp; over - loading are avoided.</p> <p>A separate truck parking area will be provided.</p> <p>Vehicular emissions will also be regularly monitored by insisting on PUC Certificate for all the vehicles entering the Plant premises.</p>
x.	<p>Total fresh water requirement after the proposed expansion of the Cement and Captive Power Plant shall not exceed 2000 m<sup>3</sup>/day to be sourced from the groundwater and River Krishna. Prior permission shall be obtained from the Competent Authority for water drawl. A five year water management plan shall be made so as to achieve</p>	<p>This is a greenfield project and the total fresh water requirement of the Cement &amp; Captive Power Plants and Captive Limestone Mine will not exceed 2000 m<sup>3</sup>/day and will be sourced from the groundwater and River Krishna. Prior permission has already been obtained from the Ground Water Department, Government of Andhra Pradesh for a drawl of 1800 KLD of Water. It has been recommended by the Ground Water</p>

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	reduction in ground water withdrawal.	<p>Department that the balance 200 KLD of water can be drawn from surface sources.</p> <p>The proposed water management plan, which includes use of mine pit water for the plant, to achieve reduction in ground water withdrawal has already been submitted to MoEF &amp; CC as part of EIA Report (under Hydro-geology Study Report) and the same will be implemented.</p>
xi.	Efforts shall be made to further reduce water consumption by using air cooled condensers. All the treated wastewater shall be recycled and reused in the process and/or for dust suppression and green belt development and other plant related activities etc., No process wastewater shall be discharged outside the factory premises and 'zero' discharge shall be adopted.	<p>Air cooled condensers will be provided for the exit steam cooling in the Captive Power Plant to reduce water consumption.</p> <p>All the treated wastewater will be recycled and reused for dust suppression and greenbelt development and other plant related activities etc.,</p> <p>No process wastewater will be discharged outside the factory premises and 'zero' discharge will be adopted.</p>
xii.	Efforts shall be made to make use of rainwater harvested. If needed, capacity of the reservoir shall be enhanced to meet the maximum water requirement. Only balance water requirement shall be met from other sources.	<p>The details of proposed collection and utilisation of rain water has been submitted as part of EIA Report (under Hydro-geology Study Report).</p> <p>If needed, capacity of the reservoir will be enhanced to meet the maximum water requirement. Only balance water requirement will be met from other sources.</p>
xiii.	Regular monitoring of influent and effluent surface, sub-surface and ground water shall be ensured and	Regular monitoring of soil and ground water will be ensured.

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	<p>treated wastewater shall meet the norms prescribed by the State Pollution Control Board or described under the Environment (Protection) Act, 1986 whichever are more stringent. Leachate study for the effluent generated and analysis shall also be regularly carried out and report submitted to the Ministry's Regional Office at Chennai, SPCB and CPCB.</p>	<p>The treated wastewater will meet the norms prescribed by the Andhra Pradesh Pollution Control Board or described under the Environment (Protection) Act, 1986 whichever are more stringent.</p> <p>The effluents from Plant (Cooling Tower, RO/DM treatment, Boiler Blow Down) do not contain any toxic substance. Hence, the Leachate study is not applicable.</p> <p>The monitoring reports will be submitted regularly to the Ministry's Regional Office at Chennai,APPCB and CPCB.</p>
xiv.	<p>All the Bag Filter dust, Raw Mill dust, Coal dust, Clinker dust and Cement dust from pollution control devices shall be recycled and reused in the process and used for cement manufacturing. Spent oil and batteries shall be sold to authorized recyclers / re-processors only.</p>	<p>All the Bag Filter dust, Raw Mill dust, Coal dust, Clinker dust and Cement dust from pollution control devices will be recycled and reused in the process/ cement manufacturing.</p> <p>Spent Oil and batteries will be sold to authorized recyclers / re-processors only.</p>
xv.	<p>All the fly ash shall be utilized as per Fly ash Notification, 1999 subsequently amended in 2003 and 2008. Efforts shall be made to use fly ash maximum in making Pozzolana Portland Cement (PPC).</p> <p>A detailed study on chemical composition of coal used particularly heavy metal and radio activity contents</p>	<p>All the Fly Ash will be utilized as per Fly ash Notification 1999, subsequently amended in 2003 and 2008. Efforts will be made to use maximum Fly Ash in making Pozzolana Portland Cement (PPC).</p> <p>A detailed study on chemical composition of coal used, particularly heavy metal and radio activity contents will be carried out through a reputed</p>

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	shall be carried out through a reputed institute and report shall be submitted to Regional Office of the Ministry at Chennai. Only after ascertaining its radioactive level shall fly ash be supplied for utilization in cement manufacturing.	institute and report will be submitted to Regional Office of the Ministry at Chennai. Only after ascertaining its radioactive level, fly ash from the proposed Captive Power Plant will be used in cement manufacturing.
xvi.	Efforts shall be made to use low-grade lime, more fly ash and solid waste in the cement manufacturing.	Efforts will be made to use low-grade Limestone, more Fly Ash and solid waste in the Cement manufacturing.
xvii.	The proposed Cement Plant Kiln shall be provided with a flexible fuel feeding system to enable use of hazardous wastes such as oil sludge, cut tyres, etc.	The proposed Cement Plant Kiln will be provided with a flexible fuel feeding system to enable use of oil sludge, cut tyres, etc.
xviii.	The proponent shall examine and prepare a plan for utilisation of high calorific wastes such as chemical wastes, distillation residues, refuse derived fuels, etc as alternate fuels based on availability and composition. For this, the proponent shall identify suitable industries with such wastes and enter into an MOU for long-term utilisation of such wastes as per the E(P) A Rules, 1986 and with necessary approvals.	Industries with high calorific wastes will be identified to enter into an MOU for long-term utilisation of such wastes as per the E(P)A Rules, 1986 and with necessary approvals.  Based on the availability & composition and after examination , a plan for utilisation of high calorific wastes such as chemical wastes, distillation residues, refuse derived fuels, etc as alternate fuels will be prepared.
xix.	As proposed, greenbelt over 33 % of the total project area shall be developed within plant premises with at least 10 meter wide green belt on all sides along the periphery of the project area, in downward direction	As proposed, greenbelt over an area of 33 % of the total project area will be developed within plant and colony premises with at least 10 meter wide greenbelt on all sides along the periphery of the project area, in downward direction and along road sides etc. Selection of plant species

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	and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with DFO.	will be done as per the CPCB guidelines in consultation with the DFO.
xx.	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Cement Plants shall be implemented.	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Cement plants will be implemented.
xxi.	All the commitments made to the public during the Public Hearing / Public Consultation meeting held on 5.3.2014 shall be satisfactorily implemented and a separate budget for implementing the same shall be allocated and information submitted to the Ministry's Regional Office at Bangalore.	All the commitments made to the public during the Public Hearing / Public Consultation meeting held on 5 <sup>th</sup> Mar 2014 will be satisfactorily implemented. The commitments to meet the demands of the Public made during the Public Hearing and the budget for implementing the same are shown in Annexure 1.
xxii.	<p>The proponent shall prepare a detailed CSR Plan for every next 5 years for the existing-cum- expansion project, which includes village-wise, sector-wise (Health, Education, Sanitation, Health, Skill Development and infrastructure requirements such as strengthening of village roads, avenue plantation, etc) activities in consultation with the local communities and administration.</p> <p>The CSR Plan will include the amount of 2% of annual profits as provided for in Clause 135 of the Companies Act, 2013 which provides for 2% of the average net profits of previous 3 years towards CSR activities for life of the</p>	<p>A detailed CSR Plan for 5 years for this project, incorporating sector-wise (Health, Education, Sanitation, Skill Development and infrastructure requirements such as strengthening of village roads, avenue plantation, etc) activities in consultation with the local communities and administration will be prepared.</p> <p>2% of the average net profits of previous 3 years will be earmarked for CSR activities for the life of the project as provided for in Clause 135 of the Companies Act, 2013.</p> <p>A separate budget head will be created and the annual capital and revenue expenditure on</p>



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	<p>project. A separate budget head shall be created and the annual capital and revenue expenditure on various activities of the Plan shall be submitted as part of the Compliance Report to RO, Bangalore. The details of the CSR Plan shall also be uploaded on the company website and shall also be provided in the Annual Report of the company.</p>	<p>various activities of the plan will be submitted as part of the Compliance Report to RO, MoEF&amp; CC, Chennai. The details of the CSR Plan will be uploaded on the company website and will also be provided in the Annual Report of the company.</p>
xxiii.	<p>Risk Assessment and Disaster Management Plan with focus on Disaster Prevention and Safety shall be prepared and a copy submitted to the Ministry's Regional Office at Bangalore, SPCB and CPCB within 3 months of issue of environment clearance letter.</p>	<p>A detailed Risk Assessment and Disaster Management Plan has been included in the EIA Report under Additional Studies. The soft copy of the Final EIA Report in a CD has already been submitted to Ministry's Regional Office at Chennai , APPCB and CPCB</p>
xxiv.	<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, 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>Provision will be made for the housing of construction labour within the site with all necessary infrastructure and other required facilities.</p> <p>The housing will be in the form of temporary structures so that they can be removed after the completion of the project.</p>

## **A. General Conditions**

<b>S No</b>	<b>General Condition</b>	<b>Compliance Status/Action Plan</b>
i.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	No further expansion or modifications in the plant will be carried out without prior approval of the Ministry of Environment, Forests and Climate Change
ii.	At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NO <sub>x</sub> are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Bangalore and the SPCB/CPCB once in six months	At least four ambient air quality monitoring stations will be established in the downward direction as well as at the location where maximum ground level concentration of PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NO <sub>x</sub> are anticipated, in consultation with the SPCB.  Data on ambient air quality and stack emission will be regularly submitted to this Ministry including its Regional Office at Chennai and APPCB/CPCB once in six months.
iii.	Industrial wastewater shall 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. The treated wastewater shall be utilized for plantation purpose.	Industrial wastewater will 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. The treated wastewater will be utilized for various purposes within the plant premises.
iv.	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should	The overall noise levels in and around the plant area will be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. for all the sources of noise generation and ensuring good maintenance of Equipment & Machinery.

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	conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).	The ambient noise levels will conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
v.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Occupational health surveillance of the workers will be done on a regular basis and records will be maintained as per the Factories Act.
vi.	The company shall develop surface water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	The company will develop surface water harvesting structures as detailed in the EIA Report (under Hydro-geology Study Report) to harvest the rain water for utilization in the lean season besides recharging the ground water table.
vii.	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP Report. Further, the company must undertake socioeconomic development activities in the surrounding villages like community development programme, educational programme, drinking water supply and health care etc.	All the environmental protection measures and safeguards recommended in the EIA/EMP report will be provided. Further, the socio-economic development activities in the surrounding villages like community development programme, educational programme, drinking water supply and health care etc. will be undertaken.
viii.	Requisite amount shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment and Forests as well as the	Requisite amount will be earmarked towards capital cost and recurring cost for environment pollution control measures to implement the conditions stipulated by the MoEF & CC as well as the State Government. The funds so provided will not be diverted for

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	<p>State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Bangalore. The funds so provided shall not be diverted for any other purpose.</p>	<p>any other purpose.</p> <p>All the conditions indicated in the EC granted by MoEF &amp; CC will be implemented as committed against each in this compliance report. All the pollution control measures will be in place before commissioning of the Plant.</p>
ix.	<p>A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zillah Parishad, 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 web site of the company by the proponent.</p>	<p>A copy of clearance letter sent to concerned Pedagarlapdu Village Panchayat, Kesanupalli Village Panchayat, Dachepalli Mandal, District Collector, Guntur and 2 NGOs.</p> <p>The Environmental Clearance letter has been put on the web site of the company.</p>
x.	<p>The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically.</p> <p>It shall simultaneously be sent to the Regional Office of the MoEF at Bangalore. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral</p>	<p>The status of compliance of the stipulated environment clearance conditions is being be uploaded periodically in the company website and is also being sent to the Regional Office of the MoEF, &amp; CC ,Chennai, Zonal Office of CPCB, Bangalore and APPCB.</p> <p>The monitoring of Ambient Air Quality, Stack Emissions, Ground/Surface Water Quality, Treated Effluent Quality and Noise Level will be taken up on commissioning the production facilities. The criteria pollutant levels namely, PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub> (in ambient air &amp; PM, SO<sub>2</sub>, NO<sub>x</sub> (in stack</p>

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	parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	emissions) will be monitored and displayed at a convenient location near the main gate of the company in the public domain. The monitored data will also be submitted to the Regional Office of the MoEF, & CC ,Chennai, Zonal Office of CPCB, Bangalore and APPCB
xi.	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Bangalore/ CPCB / SPCB shall monitor the stipulated conditions.	Six monthly report on the status of the compliance of the stipulated environmental conditions (both in hard copies as well as by e-mail) is being sent to the Regional Office of MoEF &CC ,Chennai, Zonal Office of CPCB,Bangalore and APPCB.  The monitoring of Ambient Air Quality, Stack Emissions, Ground/Surface Water Quality, Treated Effluent Quality and Noise Level will be taken up on commissioning the production facilities. The monitored data will also be submitted to the Regional Office of the MoEF, & CC ,Chennai, Zonal Office of CPCB, Bangalore and APPCB.
xii.	The environmental statement for each financial year ending 31 <sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall	The environmental statement for each financial year ending 31 <sup>st</sup> March in Form-V will be submitted to the APPCB as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and will also be put on the website of the company along with the status of compliance of environmental conditions. It will also be sent to the Regional Office of the MoEF & CC at Chennai by e-mail.

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	also be sent to the respective Regional Office of the MOEF at Bangalore by e-mail.	
xiii.	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB 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> . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional office at Bangalore.	The public have been informed about the grant of environmental clearance accorded by the Ministry and the availability of copy of the clearance letter with the APPCB and in the Website of the Ministry of Environment and Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a> through advertisement in "THE HINDU " dated 06.03.15 (English) and E-Nadu dated 06.03.15 (Telugu).  The copies of advertisements have been submitted to Regional Office of MoEF at Chennai.
xiv.	Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	As the project will be executed from the internally accrued funds, the financial closure is not applicable. The date of commencing the land development work will be intimated.

Other Conditions

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12.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted.
13.	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Guidelines noted and the additional conditions stipulated will also be implemented.
14.	The above conditions shall be enforced, <i>inter-alia</i> 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, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.	Noted.

for Chettinad Cement Corporation Private Limited



S Sundar Raj  
Assistant Vice president (EHS)

## Chettinad Cement Corporation Private Limited

Pedagarlapadu & Kesanupalli Villages, Dacheipalli Mandal, Guntur District, Andhra Pradesh

### Demands Raised by Public during Public Hearing and Chettinad Cement Commitment with Budget

S.No	Demand made by Public	Chettinad Cement Commitment	Proposed Budget
<b>CSR Related</b>			
1.	Various demands related to Educational, Health and infrastructural requirements made by the nearby villagers	<p>As a part of CSR activities, Chettinad Cement will provide the infrastructure, education and health facilities to the nearby villages in consultation with District Administration which will include road repair, medical camps, free medicines, drinking water supply, schloarships to students, free supply of books/notes to students, adult education, coaching centres etc.,</p> <p>The needs of nearby villages around the Plant &amp; Mine will be prioritized for implementation in consultatiion with lacial panchayat /village commitete and implementation will be done under the supervision of District Administration.</p>	<ul style="list-style-type: none"> <li>• For Education Related Welfare Measures Rs 15 lakhs</li> <li>• For Health Related Welfare Measures Rs 15 lakhs</li> <li>• For Infrastructure Development Rs 70 lakhs</li> </ul>
<b>Pollution Related</b>			
2.	Air	Air Pollution Control Measures (ESP, Bag Filters, Water Sprinkling, Greenbelt Development ) will ensure emissions are within permissible limits.	<ul style="list-style-type: none"> <li>• For Environmental Protection Measures Rs 4000 lakhs</li> </ul>
3.	Water	<p>Adoption of Zero Discharge System, treating and reusing treated waste water within the premises, will ensure that there will not be any significant impact on water</p> <p>Rainwater Harvesting Structures provided to enhance groundwater recharging</p>	
<b>Pollution Related</b>			
4.	Noise	By providing acoustic barriers, silencers, controlled blasting will ensure that ambient noise level is within permissible limits. Blasting operation is carried out in compliance with the applicable rules. Controlled blasting carried out by the company will ensure noise/vibration are within limits.	<ul style="list-style-type: none"> <li>• For Environmental Protection Measures Rs 4000 lakhs</li> </ul>



S.No	Demand made by Public	Chettinad Cement Commitment	Proposed Budget
5.	Solid Waste	All the wastes generated are handled and disposed as stipulated by the regulatory authorities. Fly Ash will be used for Cement Manufacturing and Bottom Ash as bed material for CPP Boiler, as sand for construction purpose and for , road laying purposes. It is proposed to use impotred coal along with indigenou coal to bring down the fly ash generation.	
<b>Others</b>			
6.	Tree Plantation	33% of plant area will be developed with green belt as per MoEF / CPCB norms. Saplings will be distributed to the local people and awareness among the local villagers on need to plant trees will be created through campaigns. Greenbelt is being developed along the boundary of Mining Lease Area. The safety barriers will also be provided with greenbelt. Apart from this, plantation in the nearby villages will also be taken up.	<ul style="list-style-type: none"> <li>For Tree Plantation Rs 5 lakhs</li> </ul>
7.	Impact on Health/Agriculture due to pollution	Ambient Air Quality and Ambient Noise Levels are within permitted limits. Adoption of Zero Discharge ensures no contamination of ground water/surface water. Utilisation of solid wastes ensures no accumulation of watses. Hence, the health of the employees as well as the nearby community will not be affected.	<ul style="list-style-type: none"> <li>For Environmental Protection Measures Rs 4000 lakhs</li> </ul>
<b>Others</b>			
8.	Establishment of College, School, Hospital, Library, Laying of Roads between two towns	Under CSR, the activities like road repair, medical camps, free medicines, drinking water supply, schloarships to students, free supply of books/notes to students, adult education, coaching centres etc.,will be taken in the nearby villages.	<ul style="list-style-type: none"> <li>For Education Related Welfare Measures Rs 15 lakhs</li> <li>For Health Related Welfare Measures Rs 15 lakhs</li> <li>For Infrastructure Development Rs 70 lakhs</li> </ul>