

29th November, 2018



Director (SZ)

Ministry of Environment, Forest and Climate Change
Regional Office (SZ)
Kendriya Sadan, 4th Floor, E&F Wings, 17th Main Road
Koramangala II Block
Bangalore – 560034

Sir,

Sub: Submission of Six Monthly Environmental Clearance Compliance Report (Apr '18 – Sept '18) –Chettinad Cement Corporation Private Limited – Proposed expansion of Cement Plant (2.5 to 8.25 million tons per annum) & Waste Heat Recovery Boiler (Power Generation using Kiln hot gases, 7 to 27mw) and Captive Power Plant (30 to 160 mw) at Sangam & Kallur Villages, Chincholi Taluk, Kalaburagi District , Karnataka

Ref: Environmental Clearance issued by Ministry of Environment and Forests vide letter F.N. J -11011/57/2011 -IA.II (I) dated 31st Jan 2017 for the expansion of Cement Plant, Waste Heat Recovery Boiler & Captive Power Plant.

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We enclosed herewith the **Six Monthly Environmental Clearance Compliance Report** pertaining to our proposed expansion of Cement Plant, Waste Heat Recovery Boiler & Captive Power Plant at Sangam & Kallur Villages, Chincholi Taluk ,Kalaburagi District , Karnataka for the period from Apr '18 to Sept '18. The expansion activities have not yet been commenced.

Yours faithfully

for **Chettinad Cement Corporation Private Limited**

C Janaradhana Reddy

Joint President (Works)

Copy to : Director (Industries) MoEF & CC, Delhi
Member Secretary, CPCB, Delhi/Scientist 'E' & In-charge, CPCB, Bangalore
Member Secretary, KSPCB, Bangalore/ Senior Environmental Officer, KSPCB,
Kalaburagi/Environmental Officer,,KSPCB, Kalaburagi

Chettinad Cement Corporation Private Limited

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Chettinad Cement Corporation Private Limited

Sangem & Kallur Villages, Chincholi Taluk, Kalaburagi District, Karnataka

Environmental Clearance (EC) Compliance Report (Apr '18 – Sept '18)

(Plant Expansion)

EC granted by MoEF & CC vide letter F. No. J- 11011/57/2011 IA.II (I) dated 31st Jan 2017

for the Expansion of Cement Plant From 2.5 to 8.25 million tons per annum & Waste Heat recovery Boiler (Power Generation from 7 to 27 mw) and Captive Power Plant (Power Generation from 30 to 160 mw)

(Expansion Activities not yet commenced)

Specific Conditions

S.No	Specific Condition	Compliance Status
i.	Prior clearance from the standing committee of the National Board for wildlife shall be obtained due to location of the plant at a distance of 5.8 km from Chincholi Wildlife Sanctuary (as prior clearance of NBWL is required for a project if it is located in 10 KM of a protected area / sanctuary or Eco Sensitive Zone as per the Hon'ble Supreme Court order dated 04.12.2016 in W.P. 460 / 2004), before commencing any activity relating to the project at site/ All the conditions stipulated by the Standing Committee shall be effectively implemented in the project. It shall be noted that this clearance does not necessarily implies that wildlife clearance shall be granted to the project and that your proposal for wildlife clearance shall be considered by the competent authorities on its merit and decision taken. The investment made in the project, if any based on environmental clearance granted to the project, in anticipation of the clearance from wildlife	<p>The application submitted on 16.01.2014 to Chief Conservator of Forest, Gulbarga for NBWL Clearance is under process.</p> <p>The conditions stipulated by the Standing Committee will be effectively implemented.</p> <p>Other guidelines noted and agreed.</p>

S.No	Specific Condition	Compliance Status
	angle shall be entirely at the cost and risk of the project proponent and Ministry of Environment, Forest and Climate Change shall not be responsible in this regard, in any manner.	
ii.	The project proponent should install 24 x 7 air monitoring devices to monitor air emission, as provided by CPCB and submit report to Ministry and its Regional Office.	Two Continuous Ambient Air Quality Monitoring Stations have already been installed and the monitored online data are being sent on real time basis to Karnataka Pollution Control Board and Central Pollution Control Board.
iii.	The expansion project shall comply with the new MoEF & CC standards vide GSR 612 (E) dated 25.08.2014 with respect to Particulate Matter, SO ₂ , NO _x for Cement Sector.	Applicable standards will be complied with.
iv.	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. Low NO _x burners shall be provided to control NO _x emissions. Regular calibration of the instruments must be ensured.	<p>In the existing Plant adequate air pollution control systems viz., Electrostatic Precipitators to Clinker Cooler, Bag House to Raw Mill / Kiln Coal Mill and Cement Mill have been installed to control the PM within the limit prescribed. Low NO_x burners have been provided for the existing Kiln. Regular calibration of the instruments are being ensured.</p> <p>For the proposed expansion also, similar control measures will be provided to limit the PM within the prescribed standards and low NO_x burners to control NO_x emissions. Regular calibration of the instruments will also be ensured.</p>

S.No	Specific Condition	Compliance Status
v.	All the pollution control devices/equipment in Raw Mill / 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 unit(s) shut down automatically.	<p>In the existing Plant, all the pollution control devices/equipment in Raw Mill / Kiln Feeding System, Clinker Cooler, Coal Mill, Cement Mill and Cement Silo, have been interlocked with the production facility so that in the event of the pollution control devices / systems not working, the respective production unit gets shut down automatically.</p> <p>Similar interlock facilities will be provided for the proposed expansion facilities also.</p>
vi.	Possibilities shall be explored for the proper and full utilization of gases generated from the kiln in Waste Heat Recovery Boiler (WHRB) and a feasibility report shall be prepared and submitted to the Ministry and Regional office at Bangalore within 3 month from the date of issue of the letter.	The feasibility of installing Waste Heat Recovery Boiler (WHRB) to utilize hot waste gases generated from the Kiln and generate power has already been established and the existing Plant has already been provided with WHRB. As similar equipment and processes are proposed to be followed for the expansion programme, the utilization of hot gases from the Kiln for the generation of power will be possible and the same has been included in the expansion proposal. The Environmental Clearance granted for this Expansion Proposal includes WHRB to utilize waste hot gases and generate 20 mw.
vii.	The proponent shall provide an interlocking system to ensure that whenever the ESP is not in operation, the raw material feeder will automatically stop and restart only with the restart of ESP.	Similar to the interlock facilities provided for the ESPs in the existing Plant, the Interlocking system will be provided for the ESPs proposed to be installed during expansion to ensure that whenever the ESP is not in operation, the raw material feeder will automatically stop and restart only with the restart of ESP.

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viii.	The proponent shall monitor the groundwater regime in the study area, by installing piezometers in and around the impact zone of the project site and collected data of ground water level as well characteristics and the same shall be furnished as part of the compliance report to MoEF & CC, RO, Bangalore, in case of declining levels, proper approval shall be obtained from the state Ground Water Board.	<p>The groundwater regime in the study area is being monitored and the collected data of ground water level as well characteristics are being furnished as part of the compliance report to MoEF & CC, RO, Bengaluru.</p> <p>Two piezometers have also been installed to monitor the ground water level continuously.</p> <p>In case of declining levels, proper approval will be obtained from the State Ground Water Board/Karnataka Ground Water Authority,</p>
ix.	The proponent shall obtain prior permission from the State Irrigation Department of Karnataka for use of water from River Mullamarri after undertaking a study of use of the river water by competing users and availability, particularly during season.	The permission from the State Irrigation Department of Karnataka for use of water from River Mullamarri has been obtained.
x.	The proponent shall obtain prior approval of the Karnataka ground Water Authority (KGWA)for drawl of ground water for the expansion project.	<p>The approval from the Central Ground Water Authority has been obtained for 900 m³/day for existing Plant.</p> <p>For the expansion project, the permission for the ground water drawl will be obtained from State Ground Water Board/Karnataka Ground Water Authority.(Karnataka is one of the States authorized to deal with regulation of ground water and management as notified by the Central Ground Water Authority). The application submitted for getting the permission to draw additional ground water is under process.</p>

S.No	Specific Condition	Compliance Status
xi.	The proponent shall create rainwater harvesting structures including creating of 6 ponds of a total combined capacity of 9,02,000 m ³ . The total water requirement for the Cement-cum-Power Plant shall be supplemented by the rainwater collected and from mine pit water, particularly during lean season period.	6 ponds with a total combined capacity of 9,02, 000 m ³ have already been provided to serve as rainwater harvesting structure. The total water requirement for the Cement-cum-Captive Power Plant will be supplemented by the rainwater harvested and from mine pit water, particularly during lean season period.
xii.	The proponent shall not change / modify the natural drainage of the Kulwala Nadhi, Dindi Vagu and Mullmarri River flowing within /close to the plant site.	The natural drainage of the Kulwala Nadhi, Dindi Vagu and Mullmarri River flowing close to the plant site will not be changed / modified.
xiii.	The proponent shall adopt the unit on zero-discharge basis. No effluents shall be discharged outside the premises. The proponent shall adopt water conservation measures including reuse and recycle of water at every stage / process in the plant (cement / power) operations.	Similar to the existing Plant, which is operated on zero-discharge basis, the proposed additional production facilities will also operated on zero discharge basis. No effluents will be discharged outside the premises. Appropriate water conservation measures, including reuse and recycle of treated waste water within the plant premises, will be implemented for the proposed expansion also , as practised in the existing Plant.
xiv.	The proposed Cement Plant Kiln will be provided with a flexible fuel feeding system to enable use of hazardous wastes such as oil sludge, cut tyres etc.,	Similar to the flexible fuel feeding system provided for the Kiln in the existing Plant, the proposed Cement Plant Kiln will also be provided with a flexible fuel feeding system to enable use of hazardous wastes such as oil sludge, cut tyres etc.,

S.No	Specific Condition	Compliance Status
xv.	The proponent shall examine and prepare a plan for utilization of high calorific wastes such as chemical wastes, distillation residues, refuse derived fuels, etc as alternate fuels based on availability and composition. For this purpose, the proponent shall identify suitable industries with such waste and enter into an MOU for long-term utilization of such wastes as per the E (P)A Rules, 1986 and with necessary approvals.	<p>Already few Industries generating high calorific wastes have been identified for utilizing their waste in the Kiln of existing Plant. The high calorific wastes are being co-processed in the existing Kiln, after taking the required approvals from CPCB/KSPCB.</p> <p>For co-processing high calorific value wastes in the Kilns proposed to be installed during expansion, a few more industries generating high calorific value wastes, such as chemical wastes, distillation residues, refuse derived fuels, etc will be identified. Based on the availability and composition of wastes, MoU, for long term utilization of such wastes will be entered. A plan to co-process the same in the proposed Kiln will also be prepared.</p>
xvi.	The proponent shall implement a plan for 100% utilization of the fly ash from the Power Plant in the Cement Plant.	The entire Fly Ash, that is going to be generated from the Captive Power Plants proposed to be installed during expansion, will be used in the Cement manufacturing as practiced currently in the existing Plant.
xvii.	The proponent shall prepare detailed CSR plan for every next 5 years for the existing-cum-expansion project, which includes village-wise (Health, Education, Sanitations, Health, Skill Development and infrastructure requirements such as strengthening of village roads, avenue plantation, etc) activities in consultation with the local communities and administration. The CSR plan will include the amount of 2% retain annual profits as	<p>Details of CSR Activities and the Capital and Recurring Expenditure incurred are being submitted along with this report to all concerned authorities. The amount spent towards CSR Activities for the period Apr '18 – Sept '18 was 9.94 lakhs.</p> <p>The expansion activity is yet to be taken up. A detailed CSR plan will be prepared for every next 5 years for the expansion project, which</p>

S.No	Specific Condition	Compliance Status
	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 project. A separate budget head shall be created and the annual 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>will include Health, Education, Sanitations, 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>2% of the average net profits of previous 3 years will be earmarked towards CSR activities for life of the project . A separate budget head will be created.</p> <p>The details of the CSR activities is being uploaded on the company website and will also be provided in the Annual Report of the company.</p>
xviii.	Landless labour and small farmers also require to be compensated and details of these to be submitted as part of the Compliance report submitted of MoEF & CC RO, Bangalore.	As this proposal is for expansion of production facilities within the existing premises, no additional land is required. Hence, the payment of compensation and the need to report the same to MoEF & CC, RO, Bengaluru are not envisaged.
xix.	The proponent shall implement a Wildlife Conservation Plan prepared in consultation with the Wildlife Department, Government of Karnataka. A separate budget head shall be created and the annual capital and revenue expenditure of the plan shall be submitted as part of the Compliance Report to RO. Bangalore. The details of the WL Conservation Plan shall also be uploaded on the company website and shall also be	A Wildlife Conservation Plan has already been prepared and submitted to the Chief Conservator of Forest, Gulbarga along with the application submitted for getting the clearance from NBWL. A copy of the Conservation Plan has been included in the EIA Report submitted to MoEF & CC and the copy the EIA Report has already been submitted to the Regional Office of MoEF & CC, Bengaluru.

S.No	Specific Condition	Compliance Status
	provided in the Annual Report of the company.	<p>A detailed implementation plan with timeline, prepared by the Forest Department, will be implemented by them and the funds as per Budget, will be released by the project proponent. The details of annual capital and revenue expenditure will be submitted to the Regional Office of MoEF & CC, Bengaluru.</p> <p>The details of the WL Conservation Plan will also be uploaded on the company website.</p> <p>As the Conservation Plan is a very big report, it will not be possible to include the full report in the Annual Report of the company.</p>

General Conditions

S.No	General Condition	Compliance Status
i.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change.	No further expansion or modifications in the plant will be carried out without prior approval of the Ministry of Environment, Forest and Climate Change.
ii.	At least four ambient air quality monitoring stations should be established in the downward directions as well as where maximum ground level conservation of PM ₁₀ , PM ₂₅ , SO ₂ and NO _x 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.	<p>For the existing plant, 7 number of Air Quality Monitoring Stations have already been installed in consultation with KSPCB.</p> <p>The monitored data on Ambient Air Quality and Stack Emissions are being submitted to MoEF &CC , Regional Office of MoEF & CC , Bengaluru, KSPCB and Zonal Office of CPCB at Bengaluru once in six months. The same practice will be continued for the proposed expansion also.</p>

S.No	General Condition	Compliance Status
iii.	Industrial waste water shall be properly collected treated as to conform to the standards prescribed under (GSR 422 (E) dated 19 th May, 1993 and 31 st December, 1993 or amended from time to time. The treated wastewater shall be utilized for plantation purpose.	The industrial waste water generated will be treated to conform to the standards prescribed by MoEF & CC /CPCB/KSPCB and the treated wastewater will be utilized for various purposes within the premises, as practised in the existing Plant operation.
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 conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time)	By providing noise control measures like acoustic enclosures, silencers etc., for the noise generating sources in the existing Plant and ensuring good maintenance of the equipment, the noise level is controlled within the prescribed limits. For the proposed expansion also, similar control measures will be provided to conform to the prescribed norms of Noise Levels within the Plant as well as around the Plant area.
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 is being done on a regular basis and records are also maintained as per the Factories Act , for the existing Plant and the same practice will be continued for the proposed expansion also.
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.	Surface water harvesting structures like storm water drains and rainwater harvesting ponds have already been provided to harvest the rain water for utilization in the lean season besides recharging the ground water table.

S.No	General Condition	Compliance Status
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 socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.	<p>All the environmental protection measures and safeguards recommended in the EIA Report of proposed expansion will be implemented.</p> <p>The socio-economic development activities in the surrounding villages like community development programme, educational programme, drinking water supply and health care etc. will also be undertaken as being carried out now .</p>
viii.	Requisite amount shall be earmarked towards capital cost and recurring cost / annum for environmental pollution control measures to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the 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>Requisite amount will be earmarked towards capital cost and recurring cost / annum for environmental pollution control measures to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government. The funds so provided will not be diverted for any other purpose</p> <p>The conditions stipulated in the Environmental Clearance will be implemented for the proposed expansion as indicated in this compliance report against each condition.</p>
ix.	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zilla prashid / Municipal corporation, Urban local body and the local NGO, if any, from whom suggesting / 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>Environmental Clearance copy sent to Gram Panchayat of Miryan and two NGOs.</p> <p>The Environmental Clearance letter has also been put on the web site of the company.</p>

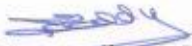
S.No	General Condition	Compliance Status
x.	<p>The project proponent shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional office of the MoEF & CC at Bangalore. the respective zonal office of CPCB and the SPCB. The criteria pollution levels namely, PM₁₀, PM_{2.5}, SO₂, NO_x (ambient levels as well as stack emissions or critical sectoral 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.</p>	<p>The six monthly reports on the status of compliance of stipulated EC conditions including results of monitored data are being submitted to the Regional Office of MoEF & CC, Bengaluru and CPCB, Bengaluru and KSPCB. and also being uploaded on the company website.</p> <p>In the existing Plant, the pollution levels namely, PM₁₀, PM₂, SO₂, NO_x (ambient levels) & Particulate Matter, SO₂, NO_x (stack emission) are being monitored and displayed at a location near the main gate of the company in the public domain. The same practices will be continued for the proposed expansion also.</p>
xi.	<p>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 & CC, the respective zonal office of CPCB and the SPCB. The Regional office of this Ministry at Bangalore / CPCB / SPCB shall monitor the stipulated conditions.</p>	<p>The six monthly reports on the status of compliance of stipulated EC conditions including results of monitored data are being submitted in hard copies as well as by e-mail to Regional Office of MoEF & CC, Bengaluru and CPCB, Bengaluru and KSPCB.</p>
xii.	<p>The environmental statement for each financial year ending 31st March 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</p>	<p>The six monthly EC Compliance Report and environmental statement for each financial year ending 31st March Form-V are being submitted for the existing operations to the Karnataka State Pollution Control Board and the Regional office of the MoEF & CC at Bengaluru in hard copies as well as by e-mail</p>

S.No	General Condition	Compliance Status
	the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional office of the MoEF & CC at Bangalore by e-mail.	and also uploaded in the company website. For the proposed expansion, the copy of the Environmental Statement will be sent to KSPCB and the Regional office of the MoEF & CC at Bengaluru in hard copies as well as by email and will also be put on the website of the company along with the status of compliance of environmental conditions .
xiii.	The project Proponent shall inform the public that the project 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, Forest and Climate Change at http://envfor.nic.in . 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.	Advertisement in Samyuktha Karnataka & New Indian Express published on 14.02.2017 informing the public that the proposed expansion programme has been accorded environmental clearance and a copy of the clearance letter is available with its Karnataka State Pollution Control Board and also can be seen at Website of the Ministry of Environment, Forests & Climate Change at http://envfor.nic.in . Copies of the advertisement submitted to MoEF & CC, Regional Office, Bengaluru vide our letter Chettinad/KW/EC/2017-1 dated 14.02.2017.
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 internally accrued funds will be used for the proposed expansion, the need to communicate the date of final closure and details the final approval of project are not envisaged. The date of commencing the land development work pertaining to the proposed expansion will be communicated as soon as the developmental work is taken up.

Other Conditions

S No	Other Condition	Compliance Status
14	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions, is not satisfactory.	Guidelines noted.
15	The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner to implement these conditions.	Guidelines noted and the additional conditions will also be complied with.
16	The above conditions shall 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, Hazardous Waste (Management Handling, Transboundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.	Guidelines noted.

for Chettinad Cement Corporation Private Limited,


C Janaradhana Reddy,
Joint President (Works)

