Chettinad Cement Corporation Private Limited (Puliyur Works)

Puliyur Village, Karur District, Tamilnadu

Environmental Clearance (EC) Compliance Report (Apr '17 to Sep '17)

(EC granted by MoEF vide letter F.NO. J - 11011/186/2008 - IA II (I) dated 25.08.2008)

A. Specific Conditions

S.No	Specific Condition	Compliance Status		
i	The stack emission from all the source shall	The air pollution control devices		
	not exceed 50 mg/Nm ³ . Electrostatic	viz., Electrostatic Precipitator (ESP) for the		
	precipitator (ESP) to Cooler, Bag house to	Cooler, Bag House to for Kiln/Raw Mill, Coal Mill		
	Kiln/Raw mill , Bag Filter to Coal Mill, Bag	& Cement Mill and Bag Filters for Clinker Silo,		
	Filter to Cement Mill etc shall be provided	Ash Silo and Transfer Points are in place to		
	to control air emissions < 50mg/Nm ³ .	control emissions within the prescribed norms.		
	Monitoring of ambient air quality and stack			
	emissions shall be carried out regularly in	Monitoring of Ambient Air Quality and Stack		
	consultation with TNPCB and data	Emissions are carried out regularly and the		
	submitted to the Ministry's Regional Office	monitored data are being submitted to the		
	at Bangalore , CPCB and Tamil Nadu	Ministry's Regional Office at Chennai, CPCB and		
	Pollution Control Board (TNPCB) regularly.	Tamilnadu Pollution Control Board (TNPCB).		
ii	The fugitive emission during loading and	Dust collection/extraction systems available to		
	unloading shall be suitably controlled. The	control fugitive emission are detailed below.		
	company shall install adequate dust			
	collection and extraction system to control	Activity Control Measure		
	fugitive dust emissions. Fugitive emissions	Unloading of Water Sprinkling		
	from raw material handling areas, loading	Raw Materials		
	/unloading points, transfer points, hoppers			
	, storage silos , weigh feeders, grinding mill	Stacking Closed Storage with water		
	and packing machines shall be controlled	Sprinkling System for Coal,		
	by providing silos and covered sheds for	Gypsum ,Limestone		
	storage of raw materials, fully covered			

S.No	Specific Condition	Co	mpliance Status
	conveyors for transportation of materials	Activity	Control Measure
	etc. Water sprinklers shall also be provided to control fugitive emissions.		Silos with Bag Filters for Raw Meal, Clinker, Fly Ash & Cement
		Conveying Fly Ash from ESP Hopper to Fly Ash Silo	
			Closed Conveyors and transfer points with Bag Filters.
		Conveying of Fly Ash from Silo to Cement Mill & Cement to Silo	
		Transporting, Vehicular Movement	 Paved Roads Allowing only vehicles with Pollution Under Control Certificate inside the premises Tarpaulin Cover for the materials No Overloading Speed Control
		Bagging and Packing	Electronic Packers with Ba Filters

	Specific Condition	Compliance Status
S.No	Ambient Air Quality Monitoring Stations (AAQM) shall be set up as per statutory requirement in consultation with the	6 Ambient Air Quality Monitoring Stations (AAQM) have been set up in consultation with the TNPCB and the monitored data is being submitted to the Regional Office of
	Regional Office at Bangalore, CPCB and TNPCB.	MoEF & CC, Chennai, CPCB and TNPCB.
	exceed 1200 m³/day. The liquid effluent from the existing Captive Power Plant (CPP),viz., Boiler Blow Down Cooling Tower Blow Down and Reverse Osmosis (RO) Plant Rejects shall be neutralized and treated and used for dust suppression and green belt development .No liquid effluent shall be generated and 'Zero' discharge shall be followed. Domestic effluent shell be	
		Domestic effluent is treated in Sewage Treatment Plant (STP) and utilized for greenbelt development and dust suppression.
V	Permission for the drawl of 1200 KLD from the State Ground Water Board /Centra Ground Water Authority shall be obtained.	
vi	Bag House, Bag Filters etc) Shall be properly recycled and reutilized in the process itse	the Air Pollution Control Equipment (ESP, Bag y House, Bag Filters etc) are being recycled and If reutilized in the respective process.
	for Cement manufacturing. As proposed Effluent Treatment Plant (ETP) sludge from 8 CETPs in Karur area shall be used Cement Plant. No solid waste shall be	our Kiln commenced. Continuing the continuing of this sludge depends on the

S.No	Specific Condition	Compliance Status	from our
	disposed off out side the	quality of Limestone received	
	The solid waste from Sewage Treatment	Captive Limestone Mines and the	quality of
	Plant (STP) shall be composted and used as	CETP Sludge received from Textile I	ndustry, as
	manure for green belt. Waste oil shall be	variations have been observed in	the quality
	collected, stored and sold to authorized		
	recyclers/ preprocessors for further		the factory
		premises. The solid waste fro	
		Treatment Plant (STP) is being used	as manure
		for greenbelt.	
		Used/Spent Oil is being collected,	stored and
		sold to authorized recyclers/ pr	
		for further treatment and disposal.	
vii	As proposed, out of total 31 ha green belt	So far 24,184 saplings have been p	olanted.
VII	shall be developed in 11.6 ha (37.4%) to		31.0 ha
	mitigate the effects of air emissions as per	Proposed Greenbelt Developed	11.6 ha
	the CPCB per the CPCB guidelines in a time		11.4 ha
			0.2 ha
	bound manner.	Balance Area to be developed with GB	0.2110
		Saplings to be planted	400
		Completion of plantation by	Mar'18
viii	All the recommendations mentioned the	Commente Dechancibility for	the Charter Environment
	Corporate Responsibility for Environmental	Protection (CREP) for the Cement	
	Protection CREP shall be followed and	been complied with except for the	
	complied.	power using hot gases from the Ki	
		gases from the kiln are used for	
		moisture from the raw materials in	
		the insufficient heat energy availab	
		gases cannot be used for power ge	
		Waste Heat Recovery Boiler.	

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S.No	Specific Condition	Compliance Status
ix	Other necessary statutory clearance from	Consent to Establishment and Consent for
	the concerned departments including 'No	Operations have been obtained from
	Objection Certificate ' from the Tamilnadu	Tamilnadu Pollution Control Board prior to
	Pollution Control Board shall be obtained	commencement of construction and
	prior to commencement of construction	operation respectively.
	and/ or operation.	

B. General Conditions

S.No	General Condition	Compliance Status
i	stipulations made by Tamilnadu Pollution	The stipulations made by Tamilnadu Pollution Control Board (TNPCB) and State Government are being complied with.
	Government.	
ii	No further expansion or modification of the	No further expansion or modification of the
	plant shall be carried out without prior approval of this Ministry.	plant will be carried out without prior approval of this Ministry.
iii	The gaseous and particulate matter	The air pollution control devices like ESP,
	emissions from various units shall	Bag House/ Water Sprinkling and Low NOx
	conform to the standards prescribed by	Burner etc., are in place to control the
	the T.N. Pollution Control Board.	gaseous and particulate matter emissions
	Continuous online monitors for particulate	within norms.
	emissions shall be installed in stack.	
	Interlock facility shall be provided in the	Continuous online monitors for Particulate
	pollution control equipment so that in	Matter installed in the Stacks attached to Raw
	the event of the pollution control	Mill & Kiln, Coal Mill, Cooler ESP & Cement
	equipment not working, the respective	Mill.
	unit(s) is shut down automatically.	
		Interlock facility available in the pollution
		control equipment so that when the
		pollution control equipment is not working,
		the respective production unit gets shut
		down automatically.

S.No	General Condition	Compliance Status
iv	Cement grinding shall be carried out in	Bag House is available for the Cement
	closed system and will have a highly	Grinding Mill where the grinding of Clinker
	efficient bag filters to control air emissions	takes place. The emissions from the Cement
	from Cement Grinding Mill below 50	Grinding Mill are below 30 mg/Nm ³ .
	mg/Nm^3 .	
V	Ambient Air Quality including Ambient	Ambient Air Quality and Ambient Noise
	Noise Levels shall not exceed the	Levels are not exceeding the standards
	standards stipulated under EPA or by the	stipulated under EPA and the State
	State Authorities. Monitoring of Ambient	Authorities.
	Air Quality and shall be carried out	
	regularly in consultation with TNPCB and	Monitoring of Ambient Air Quality is being
	data submitted to the CPCB and TNPCB	carried out regularly and monitored data is
	regularly. The instruments used for	being submitted to the CPCB and TNPCB.
	Ambient Air Quality Monitoring shall be	
	calibrated time to time.	The instruments used for Ambient Air
		Quality Monitoring are being calibrated
		from time to time.
vi	The overall noise levels in and around	The overall noise levels in the plant area is
	the plant area shall be kept well within	kept well within the standards (85 dBA) by
	the standards (85 dBA) by providing noise	providing appropriate noise control measures
	control measures including acoustic hoods,	like acoustic hoods, silencers, enclosures etc.
	silencers, enclosures etc. on all sources of	for the sources of noise generation and
	noise generation. The Ambient Noise	ensuring good maintenance of Equipment &
	Levels shall conform to the Standards	Machinery.
	prescribed under environmental	
	(Protection)Act 1986, Rules 1989 viz.	The Ambient Noise Levels are conforming
	75dBA (day time) and 70 dBA (night	to the Standards prescribed under
	time)	environmental (Protection)Act 1986, Rules
		1989 viz. 75 dBA (day time) and 70 dBA
		(night time).

S.No	General Condition	Compliance Status
vii	Rainwater harvesting measures shall be	Rainwater harvesting measures like rooftop
	adonted The company must harvest the	collection facility, storm water collection
	rainwater from the rooftops and storm	facility and sump are available to harvest
	water drains to recharge the ground water	1: 1 below to rocharge the
	Water didilis to reclidibe circ b.	ground water, ensure availability of harvested
	and use the same water for the various	water for meeting various requirements of
	activities of the project to conserve fresh	water for meeting various requirements of
	water.	the Plant and also conserve fresh water.
viii	The Company silan arrange	
	(ICVCIODITION)	harvesting campaigns, free-supply of saplings
	community welfare measures in the project	to the nearby community etc., are being
		carried out.
	area.	
		The community welfare measures, which
		include various Education, Health an
		Infrastructure Development initiatives that
		are being carried out.
ix	TODCI HOUSE.	Good House Keeping is maintained in Plan
	occupational health programmes shall be	Area. Occupational Health Programme like
	taken up.	Pre-employment and periodical health che
		up for the employees, health awarene
		programme, ensuring use of person
		protective equipment by the employee
		maintaining clean and safe work environme
		etc., are being ensured.
X	A separate environmental managemen	
	cell to carry out various managemen	under the control of Senior Executive to ca
	and monitoring functions shall be set u	p out various environment related activit
	under the control of Senior Executive.	is available.
		The regular environmental monitoring
		being carried by third party.

S.No	General Condition	Compliance Status
xi		Funds earmarked for capital cost and
	towards total capital cost and recurring	recurring cost/annum for environmental
	cost/annum for environmental pollution	pollution control measures have been used
	control measures and used to	to implement the conditions stipulated by
	implement the conditions stipulated by	the Ministry of Environment and Forests as
	the Ministry of Environment and Forests	well as the State Government.
	as well as the State Government. The	
	funds so provided shall not be diverted	The funds so provided are not being
	for any other purpose.	diverted for any other purpose.
xii	The Regional Office of this Ministry at	Six monthly EC compliance report and the
	Bangalore/CPCB/TNPCB/shall monitor the	
	stipulated conditions. A six monthly	Regional Office of MoEF & CC at
	compliance report and the monitored data	Chennai/CPCB/TNPCB regularly.
	along with statistical interpretation shall be	
	submitted to them regularly.	
xiii	The Project Authorities shall inform the	As internally accrued funds have been
	Regional Office as well as the Ministry,	invested for the expansion activities, this
	the date of financial closure and final	portion of the condition is not applicable to
	approval of the project by the concerned	us. The expansion activity did not involve any
	authorities and the date of commencing	land development work, as few facilities in the
	the land development work.	plants have been upgraded/replaced.
xiv	The Project Proponent shall inform the	Advertisement in Indian Express (in English) &
	public that the project has been	Dhinamani (in Tamil) published on 30.08.2008
	accorded environmental clearance by	informing the public that the proposed
	the Ministry and copies of the clearance	expansion programme has been accorded
	letter are available with the T.N.	environmental clearance and a copy of the
	Pollution Control Board/Committee and	clearance letter is available with its Tamilnadu
	may also be seen at Website of the	Pollution Control Board and also can be seen
	Ministry of Environment and Forests at	at Website of the Ministry of Environment
	http:/envfor.nic.in. This should be	and Forests at http:/envfor.nic.in.
	advertised within seven days from the	
	date of issue of the clearance letter at	Copies of the advertisement submitted to
	least in two local newspapers that are	MoEF Regional Office, Bangalore vide our

S.No	General Condition	Compliance Status		
	widely circulated in the region of which	letter	CCCLP/PROD/2008/1653	dated
	one shall be in the vernacular language	30.08.20	008.	
	of the locality concerned and a copy of			
	the same shall be forwarded to the			
	Regional office at Bangalore.			

Other Conditions

S No	Other Condition	Compliance Status
5.0	The ministry or any other competent authority may stipulate any further condition(s) on receiving reports from the project authorities. The above conditions shall be monitored by the Regional Office of this Ministry located at Bangalore.	conditions will also be implemented.
6.0	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions, is not satisfactory.	
7.0	Any other conditions or alteration in the above said conditions shall have to be implemented by the project authorities in a time bound manner.	
8.0	Any appeal against this Environmental Clearance shall lie with the National Environment Appellate Authority, if preferred, within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Act, 1997.	

S No	Other Condition	Compliance Status
9.0	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, and the Public Liability Insurance Act, 1991 along with their amendments and rules.	

for Chettinad Cement Corporation Private Limited

A . Amalraj

Senior Vice President (Works)

