

**GOVERNMENT OF INDIA**

**Ministry of Environment and Forests**

(Regional Office, Chennai)

**MONITORING REPORT**

F. No EP/12.1/19/2012-13/TN

**PART I**

**DATA SHEET**

1	Project Type : River valley/Mining/Industry/Thermal/ Nuclear/Other Specify	Industry
2	Name of the project	Expansion of Cement Grinding Unit (from existing 1 MTPA to 2 MTPA) in SF. Nos 121, 123, 124 Parts in Singhipuram Village, Taluk Valapadi, District Salem in Tamil Nadu by M/s Madras Cement Limited
3	Clearance letter(s)/OM No. and dated	No.J-11011/516/2011-IA-II (I) dated 16 th August 2012
4	Locations	
	a District (s)	Salem
	b State (s)	Tamil Nadu
	c Latitudes	11°38' 03"-11°38' 06" North
	d Longitudes	78° 24' 12"-78°24' 20" East
5	Address of correspondence	
	a Address of concerned project Head (with Pin Code & telephone/telex/fax numbers)	Mr. Madusudan kulkarni, General Manager (Works), The Ramco Cements Limited, Singhipuram, Valapadi Taluk, Salem Dist-636115 Office-07299973001, Mobile:07299974047
6	Salient features	
	a of the project	Covered in EIA/EMP report
	b of the environmental management plans	Submitted during project appraisal
7	Breakup of the project area	
	a Submergence area (forest & non-forests)	
	b Others	34.82 acres
8	Break up of project affected population with enumeration of those losing houses/dwelling units only, agricultural land only, both dwelling units and agricultural land and landless labourers/artisans	NA
	a SC,ST/Adivasis	NA
	b Others	NA
9	Financial Details	
	a Project cost as originally planned and subsequent revised estimates and the years	Rs. 40 crores as per EC

	of price reference	
	b Allocations made for environmental management plans, with item wise and year wise breakup	Existing Plant cost is Rs. 95 Crores and the project cost of expansion is Rs. 83. Capital cost for pollution control measures is Rs.3.0 crores and Rs 5.0 lakhs per anum is the operating cost
	c Benefit cost ratio/internal rate of return and the years of assessment	Nil
	d Whether (c) includes the cost of environmental management as shown in (b) above	Nil
	e Total expenditure on the Project so far	Rs 178 crores. As per project authorities
	f Actual expenditure incurred on the environmental management plans so far	Rs. 2.85 crores as per project authorities
10	Forest land requirement	
	a The status of approval for a diversion of forest land for non-forestry use	NA
	b The status of compensatory afforestation, if any	NA
	c The status of clear felling	NA
	d Comments on the viability and sustainability of compensatory afforestation programme in the light of actual field experience so far	NA
11	The status of clear felling in non-forest area (such as submergence area of reservoir, approach road), if any, with quantitative information	NA
12	Status of construction	
	a Date of commencement	02.02.2013
	b Date of completion (actual and/or planned)	08.10.2013
13	Reasons for the delay if the project is yet to start.	NA
14	Date of site visit	
	a The dates on which the project was monitored by the Regional Office on previous occasions, if any	Nil
	b Date of site visit for this monitoring report	11.07.2014
15	Details of correspondence with project authorities for obtaining action plans, information and status of compliance to safeguards	Nil

  
**(K.S. REDDY, IFS)**  
**Addl. P.C.C.F. (Central)**  
**Ministry of Environment & Forests,**  
**Regional Office, Chennai**



Part –II

Sub: Expansion of Cement Grinding Unit (from existing 1 MTPA to 2 MTPA) in SF. Nos 121, 123, 124 Parts in Singhipuram Village, Taluk Valapadi, District Salem in Tamil Nadu by M/s Madras Cement Limited-regarding Environmental Clearance

Ref: F.No.J-11011/516/2011-IA-II (I) dated 16 th August 2012

Specific Conditions.

Sl. No.	Conditions	Compliance
1	Particulate emissions shall be controlled	Complied
2	The national ambient air quality Standards issued by the Ministry vide GSR no 826(L) dated 16.11.2009 should be followed.	Complied
3	Gaseous emission levels including secondary fugitive emissions	Complied
4	Adequate dust collection and extraction system to control fugitive dust emission.	Complied
5	Asphalting/concreting of roads and water spray to control fugitive emissions.	Complied
6	Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agriculture land.	Complied
7	Total water requirement, necessary permission and 'zero' discharge	Complied
8	rainwater harvesting	Complied
9	recycled and reuse	Complied
10	Green belt	Complied

Sl. No.	Conditions	Compliance
11	Enterprise Social Commitment based on locals need	Complied
12	Housing for construction labor	Complied

**General conditions:**

S. No	Conditions	Compliance
1	Stipulations made by the Tamil Nadu State Pollution Control Board and state Government	Complied
2	No future expansion without prior approval of this Ministry	Complied
3	The gaseous emissions from various process units shall conform to the load / mass based standards notified by this Ministry on 19 <sup>th</sup> May 1993	Complied
4	At least four ambient air quality monitoring stations should be	Complied
5	The overall noise levels in and around the plant area shall be kept well within the standards	Complied
6	Occupational health surveillance of the workers should be done on a regular basis	Complied
7	The company shall develop surface water harvesting structures to harvest the rain water	Complied
8	The project proponent shall also comply the environmental protection measures and safeguards recommended in the EIA/EMP report.	Complied
9	The requisite amount shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures	Complied
10	A copy of clearance letter shall be sent by the proponent to	Complied

	concerned Local body, in the web site of the company etc	
11	Uploading the status of compliance of the stipulated environment clearance conditions including results of monitored.	Complied
12	Six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data	Complied
13	The environmental statement for each financial year ending 31 <sup>st</sup> March in Form V	Complied
14	Paper advertisement	Complied
15	Information about the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work	Complied



(K.S. REDDY, IFS)  
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**Part –III**

**Sub: Expansion of Cement Grinding Unit (from existing 1 MTPA to 2 MTPA) in SF. Nos 121, 123, 124 Parts in Singhipuram Village, Taluk Valapadi, District Salem in Tamil Nadu by M/s Madras Cement Limited-regarding Environmental Clearence**

Ref: F.No.J-11011/516/2011-IA-II (I) dated 16 th August 2012

**Specific conditions.**

<b>Sl. No.</b>	<b>Conditions</b>	<b>Compliance</b>
1	Particulate emissions shall be controlled within 50mg/Nm <sup>3</sup> by installing adequate air pollution control system viz Bag filters and stacks of adequate height etc. Data on ambient air, fugitive and stack emissions shall be submitted to the ministry Regional office at Bangalore SPCB and CPCB regularly	As per the MOEF norms, Online Monitoring is in being done. Efficient bag filters installed to control particulate emission within 50mg/Nm <sup>3</sup> . Existing particulate emissions are well within the limits prescribed by TNPCB. Agreed to submit the Actual Data for the expansion once these bag filters are put in operation, after CTO is obtained.
2	The national ambient air quality Standards issued by the Ministry vide GSR no 826(L) dated 16.11.2009 should be followed.	6 no of ambient air quality stations for existing operation are installed around the unit. Reports are periodically sent to the Regional Office, MoEF.
3	Gaseous emission levels including secondary fugitive emissions from all the sources shall be controlled within the permissible limits issued by the Ministry and regularly monitored Guidelines/Code of practice issued by the CPCB should be followed.	As this is a stand-alone grinding unit, they don't have any gaseous emissions. Secondary fugitive emissions from all the sources are almost nil and well within the limits.
4	The company shall install adequate dust collection and extraction system to control fugitive dust emission at various transfer points, raw mill handling (unloading, Conveying, Transporting, Stacking). Vehicular movement, bagging and packing areas etc. All conveyers should be covered with GI sheets Covered sheds for storage of raw materials and fully covered conveyers for	They installed dust collection and extraction system to control dust at all transfer points of the materials. Raw materials transportation is done in closed conveyors covered with GI sheets. Clinker and fly ash stored in closed silos only.  Gypsum also is stored in closed shed. For dust collection, they have installed Bag filters  They are using pneumatic system for pumping fly ash to silo and mechanical dosing for adding fly ash to cement mill



Sl. No.	Conditions	Compliance
	transportation of materials shall be provided besides cement. Fly ash and clinker shall be stored in silos. Pneumatic system shall be used for fly ash handling.	
5	Asphalting/concreting of roads and water spray all around the stockyard and loading/unloading areas in the cement plant shall be carried out to control fugitive emissions. Regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of SPM and RSPM such as haul road, loading and unloading points, transfer points and other vulnerable areas. It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.	<p>The total length of concrete road laid in the plant is 1.7 Km. Mechanized Road sweeping machine is used regularly for cleaning the roads to avoid fugitive dust emissions.</p> <p>Regular Water sprinkling system is implemented to arrest fugitive emission. Apart from provision of concrete, asphalt road and pavements.</p> <p>AAQ Parameters shall be complied with, to conform to the CPCB Norms.</p>
6	Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agriculture land. All the raw materials including fly ash should be transported in the closed containers only and should not be overloaded. Vehicular emissions should be regularly monitored.	<p>All raw material transportation is under covered conveying system.</p> <p>The fly ash is received in closed containers and unloaded pneumatically.</p> <p>Raw material receipt qty for the period 01.10.2013 to 31.03.2014 for the existing cement mill operation is given below.</p> <p>Clinker - 203526.50 MT Gypsum-14189.58 MT Fly ash- 63560.74 MT</p> <p>Vehicles with valid Exhaust emission certificates are only allowed inside the plant.</p>
7	Total water requirement shall not exceed 95m <sup>3</sup> /day and necessary permission for the drawl shall be obtained. All the treated wastewater should be recycled and reuse in the process and/or for dust suppression and green belt development and other plant	<p>Permission for 95 m<sup>3</sup>/ day is obtained from the Central Ground Water Authority (CGWA) on 01.02.2012 and the domestic treated sewage water shall be used for green belt areas.</p> <p>Cement Grinding process does not generate any waste water and hence zero discharge.</p>

Sl. No.	Conditions	Compliance
	related activities etc. No process waste water shall be discharged outside the factory premises and 'zero' discharge should be adopted.	
8	Efforts shall be made to make use of rain water 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.	Two rainwater harvesting ponds are provided for recharge.  Pond I of 4200 m <sup>3</sup> (40m*35m*3m) capacity and Pond II of 3675 m <sup>3</sup> (35m*30m*3m) capacity are in place.
9	All the bag filter dust, raw meal dust, clinker dust and cement dust from pollution control devices should be recycled and reuse in the process used for cement manufacturing. Spent Oil and batteries should be sold to authorized recyclers/reprocesses only	They do not have raw meal dust as our plant is only a cement grinding plant.  For clinker and cement dust they have air pollution control equipments & reused the same.  They obtained authorization for used oil disposal vide Authorization No. 3614 /dated: 08.02.2010.
10	Green belt shall be developed in at least 33% area in and around the cement plant as per the CPCB guidelines to mitigate the effects of air emissions in consultation with local DFO.	The total plant area is 34.82 acres out of that 33% comes as 11.49 acres. They have developed 14.40 acres of green belt in and around the plant.
11	At least 5% of the total cost of the project shall be earmarked towards the Enterprise Social Commitment based on locals need and item wise details along with time bound action plan should be prepared and submitted to the Ministry's Regional Office at Bangalore Implementation of such program should be ensured accordingly in a time bound manner.	The total amount spent on CSR activities during the period of Oct 13 to Mar14 is 5.45 lakhs.



