



सत्यमेव जयते

भारत सरकार
GOVERNMENT OF INDIA

पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
MINISTRY OF ENVIRONMENT, FORESTS & CLIMATE CHANGE
Regional Office (South Eastern Zone),
1st & 2nd floor, HEPC Building, No.34, Cathedral Garden Road,
Nungambakkam, Chennai - 600034



Dated: 02-02-2015

EP.12.8/MIS-I/ROCHN/2014/3

To,

Shri M. Srinivasan
Sr. Vice President(Mfg)
The Ramco Cements Limited
Auras Corporate Centre, V Floor
98-A, Dr. Radhakrishna Salai, Mylapore,
Chennai-600004

Subject: 1. A New Cement Plant of 1800 TPD capacity at Alathiyur, Trichy District, Tamilnadu.

2. Expansion of Cement plant (1800-6300 TPD) by Madras Cements Limited (MCL) at Village Alathiyur, Disrict Perambalur, Tamilnadu.

Reference: 1. EC Letter No. No. J-11011/10/95 IA.II(I) dated 11.09.1995

2. EC Letter No. J-11011/59/2000 IA.II(I) dated 05.01.2001

3. Your letter dated 10.11.2014

Sir,

With reference to the above mentioned subjects, please find enclosed herewith copies of the certified compliance report.

Yours faithfully

Dr. C. Kaliyaperumal
Director (S)

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CERTIFIED COPY OF THE COMPLIANCE REPORT


Sub: A New Cement Plant of 1800 TPD capacity at Alaythiyur, Trichy District, Tamilnadu.

Ref: MoEF No. J-11011/10/95-IA.II(I) dated 11th Sep-1995

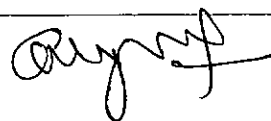
Date of Monitoring : 05.12.2014

| Sl. No. | Condition | Compliance |
|---------|--|---|
| 1 | The Project authority must strictly adhere to the stipulations made by the State Government and the Tamil Nadu Pollution Control Board | Consent to operate for the cement plant has been obtained and regularly got renewed by SPCB. The stipulations made by SPCB are being implemented |
| 2 | Any future expansion of the plant or process modifications having a bearing on pollution potential can be taken up only with the prior approval of this Ministry | As informed that the first expansion 1800 to 3700 TPD has been taken up in Line-1 on 24.5.2006. CFE obtained from TNPCB, as the cost of the project was less than Rs. 50 Crores. hence, EC was not required under EIA Notification, 1994. Second expansion of Line-2 project 6300 TPD has also been carried out with MoEF clearance J/11011/59/2000/IA.II(I) dtd. 5.1.2001 Third subsequent expansion to 6300 to 8200 TPD has also been carried out with TNPCB clearance T6/TNPCB/F-39403/RL-CMI/PLA/A/2006 dated 15.05.2006. |
| 3 | The Project authorities should commission a post expansion comprehensive EIA study within six months of commissioning of the plant covering one year data (4 seasons) and submit the report to this Ministry within 15 months of commissioning of the study. | The project authorities have submitted EIA report to the MoEF. |
| 4 | The project authorities should control fugitive emissions from the plant and keep them within the prescribed limits. | The project authorities have taken up the following measures to control the fugitive emissions: <ul style="list-style-type: none">• Closed sheds are provided for storage of Limestone, Coal, Gypsum, Iron Ore etc. Cement, Fly ash, Clinker and Cement are stored in silos.• Fully closed conveyors are provided for conveying the raw materials.• Number of Bag filters and ESPs has |

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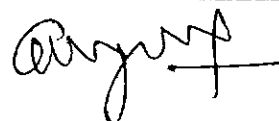
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| | | <p>been installed in main stacks, Kiln/ Raw Mill, Coal Mill & Cement Mill and at all transfer points.</p> <ul style="list-style-type: none"> • Closed circuit grinding is undertaken for raw material grinding, cement grinding, coal/lignite grinding. • Cement roads are constructed within the factory premises. • A concrete platform is provided for lorry parking. Regular cleaning of the areas is being carried out through sweeping machine. • Thick plantation has been taken up around the lime stock yard also water sprinkling is being carried out wherever required. <p>Fugitive emissions are being monitored and found that the levels are within the limit.</p> |
| 5 | <p>Particulate emissions from various units should conform to the standards prescribed by the competent authorities or in the EPA, 1986 or as will be prescribed from time to time. At no time, the emissions of particulates from the stacks should exceed the limit of 50 mg/Nm³.</p> <p>Interlocking arrangement should be provided so that in the event of non-functioning of the pollution control equipment(s), the main plant gets automatically shut down. Also in the event of failure of any pollution control system adopted by the unit, the respective unit should be put out of operation immediately and should not be restarted. Until the control systems are rectified to achieve the desired efficiency.</p> | <p>The particulate emission from various units has been monitored regularly and reports are submitted to MoEF, RO and SPCB. As per the reports the levels are <50 mg/Nm³. In the expansion unit the stack emission level were found to be <50 mg/Nm³ as informed.</p> <p>Interlocking facility has been provided to all Pollution control equipments to trip the main equipments in case of emission level exceeds the stipulated value automatically. Further the project authorities assured that in the event of failure of any pollution control system adopted by the unit, the respective unit would be put out of operation immediately and would not be restarted until the control systems are rectified to achieve the desired efficiency.</p> |
| 6 | <p>The project authority should not change any design of stacks without the permission of the State Pollution Control Board.</p> | <p>No change in the stack design has been made.</p> |



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| 7 | At least three air quality monitoring stations for measuring particulate matters should be set up in the down wind direction, as well as where maximum ground level concentration is anticipated, in consultation with SPCB. Also stack emission should be monitored by setting up automatic stack monitoring units. Air quality and stack emissions should be monitored regularly. Fugitive emission of particulate matters should also be monitored regularly. The data collected should be statistically analysed, interpreted and submitted to the State Pollution Control Board once in three months and this Ministry once every six months. | Eight number of Ambient Air Quality(AAQ) stations has been selected and set up in the down wind direction, as well as where maximum ground level concentration is anticipated, in consultation with SPCB. Online stack monitoring equipment has been installed with data logging system. The AAQ and stack emission are monitored through automatic online ambient air quality monitoring stations(2 Nos.) and also through online stack monitoring equipments. In addition to these automatic equipments manually also monitored through external agency including fugitive emission and the monitored data are submitted to the State Pollution Control Board once in three months and to the Ministry, RO once in six months. |
| 8 | Noise level in the working environment should not exceed the limit of dB(A). | Noise control measures such as acoustic hoods, silencers and enclosures have been provided. Monthly monitoring is carried out for the ambient noise levels in and around the factory during night time and day time and as per the reports the levels are within the limit. |
| 9 | A green belt of adequate width and density should be developed all around the plant on scientific basis using native plant species in consultation with the local DFO. Approx. 2000-2500 trees per ha. Are to be planted in the open areas. | The project authorities have taken up plantations within the factory and township areas. So far about 120000 plants have been planted. Almost the entire vacant area in the factory and colony areas has been brought under green belt development. The works as well as survival are good. The treated sewage is used for green belt development purpose. |
| 10 | Environmental lab should be established with adequate number and type of pollution monitoring (ambient and stack) and analysis equipments in consultation with the State Pollution Control Board. | The laboratory facilities have been established for monitoring ambient air quality and stack emission. In addition to the in house facility through external agency also monitoring has been carried out. |
| 11 | Personnel working in dusty areas should wear protective respiratory devices and they should also be provided adequate training and information on necessary safety and healthy aspects. | Personnel Protective Equipments (PPE) are provided to all the employees and using. |



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| 12 | Occupational health surveillance programme of the workers should be undertaken periodically to observe the contractions due to exposure to dust. | Occupational Health Surveillance (OHS) is done as per the Factory's Act regularly and records are maintained. Supporting staff with a doctor and facilities are available. |
| 13 | A separate environmental management cell with suitably qualified personnel to carry out various functions should be set up under the control of senior executive who will report directly to head of the organization. | A separate Environmental Management Cell (EMC) has been setup under the control of senior executive who will report directly to head of the organization. |
| 14 | The funds earmarked for environmental protection measures should not be diverted for other purposes and Year-wise expenditure should be reported to this Ministry. | The project authorities informed that the funds earmarked for environmental protection measures are not diverted for any other purposes and Year-wise expenditure report is being submitted to the Ministry. |


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CERTIFIED COPY OF COMPLIANCE REPORT


Sub: Expansion of Cement Plant (1800 – 6300 TPD) by Madras Cements Limited (MCL) at Village Alathiyur, District Perambalur, Tamil nadu.

Ref: MoEF Lr.No. J-11011/59/2000-IA.II(I) dated 05.01.2001

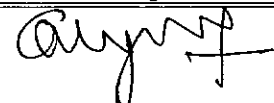
Date of Monitoring : 05.12.2014

| Sl. No. | Specific Condition | Compliance |
|---------|--|---|
| i | <p>The gaseous and particulate matter emissions from various units should conform to the standards prescribed by the State Pollution Control Board. At no time the particulate emission should exceed 50 mg/Nm³. Further, the company may take appropriate measures to improve the design and operating practices of the Pollution control equipments to achieve a load based norm of 227 gms/T of feed.</p> <p>Interlocking facility should be provided in the pollution control equipments so that in the event of the pollution control equipment not working, the respective unit (s) is shut down automatically.</p> | <p>The gaseous and particulate matter emissions from various units are monitored through external agency as well as TNPCB and as per the reports the levels are within the limit of <50 mg/Nm³. As informed that the emission level has not exceeded the limit.</p> <p>Monitoring of ambient air quality, ambient noise levels & stack emissions have been carried out since commencement of the plant and the details are being submitted to TNPCB monthly and to MoEF Regional Office at Bangalore half yearly regularly. At all times, the stack emission SPM levels were found to be <50 mg/Nm³.</p> <p>The company has taken all the measures to control air pollution to achieve the load based norms stipulated by the MoEF.</p> <p>As informed by the project authorities that the TNPCB has monitored the stack emissions of the Cement plant during 26-27.08.2014. The total SPM emission from the plant on the day was 21740g/hr. The average clinker feed of the plant on the monitoring days was 230 Tons/hour. Thus, the Load based emission from the plant was computed as 94.5 g/Ton of Kiln feed.</p> <p>Interlocking facility has been provided to all Pollution control equipments to trip the main equipments in case of emission level exceeding the stipulated value.</p> |
| ii | <p>Ambient Air Quality including ambient noise levels must not exceed the standards stipulated under EPA/State authorities. Monitoring of ambient air quality and stack emissions shall be carried out regularly in consultation with SPCB and report submitted to the Board quarterly and to the Ministry (Regional Office at Bangalore) half yearly.</p> | <p>Eight number of Ambient Air Quality(AAQ) stations has been selected and set up in the down wind direction, as well as where maximum ground level concentration is anticipated, in consultation with SPCB. Online stack monitoring equipment has been installed with data logging system. The AAQ and stack emission are monitored through automatic online ambient air quality monitoring stations (2 Nos.) and also through online stack monitoring equipments. In addition to these automatic</p> |

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| Sl. No. | Specific Condition | Compliance |
|---------|--|---|
| | | <p>equipments manually also monitored through external agency including fugitive emission and the monitored data are submitted to the State Pollution Control Board once in three months and to the Ministry, RO once in six months.</p> <p>Noise control measures such as acoustic hoods, silencers and enclosures have been provided. Monthly monitoring is carried out for the ambient noise levels in and around the factory during night time and day time and as per the reports the levels are within the limit.</p> |
| iii | <p>The company should install adequate dust collection and extraction system to control fugitive dust emissions at various transfer points. Closed circuit grinding should be provided in all the grinding sections of the plant.</p> | <p>The project authorities have taken up the following measures to control the fugitive emissions:</p> <p>Closed sheds are provided for storage of Limestone, Coal, Gypsum, Iron Ore etc. Cement, Fly ash, Clinker and Cement are stored in silos.</p> <p>Fully closed conveyors are provided for conveying the raw materials.</p> <p>Number of Bag filters and ESPs has been installed in main stacks, Kiln/ Raw Mill, Coal Mill & Cement Mill and at all transfer points.</p> <p>Closed circuit grinding is undertaken for raw material grinding, cement grinding, coal/lignite grinding.</p> <p>Cement roads are constructed within the factory premises.</p> <p>A concrete platform is provided for lorry parking. Regular cleaning of the areas is being carried out through sweeping machine.</p> <p>Thick plantation has been taken up around the lime stock yard also water sprinkling is being carried out wherever required.</p> <p>Fugitive emissions are being monitored and found that the levels are within the limit..</p> |
| iv | <p>The company should develop 14.33 ha of the additions area besides 26.7 ha. of the total area already developed as green belt as per the Central Pollution Control Board guidelines. Selection of the plant species should be as per the agro-climatic conditions.</p> | <p>The project authorities have taken up plantations within the factory and township areas. So far 50.37 ha. Has been brought under green belt by planting about 120000 plants of mainly local species. Almost the entire vacant area in the factory and colony areas has been brought under green belt development. The works as well as survival are good. The treated sewage is used for green belt development purpose.</p> |
| v | <p>No discharge of treated effluent should be done outside the premises and all the treated effluent (ETP and STP) should be utilized</p> | <p>There is no effluent generation from the Cement Plant.</p> <p>However sewage treatment plant of 350 KLD has been installed for treating their colony</p> |



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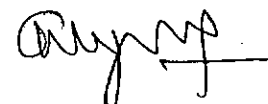
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| Sl. No. | Specific Condition | Compliance |
|---------|---|---|
| | for green belt development and other plant related activities. | sewage as well as cement plant sewage. The treated sewage is being used for green belt development. |
| vi | The company must harvest the rainwater as per the rain water harvesting scheme submitted to the Ministry. | Rain water harvesting has been undertaken. Rain water from roof tops of factory buildings as well as township buildings are harvested. A Storage Pond of 30 x 30 x 1 m size has been made to collect the surface drains from the factory. |
| vii | As proposed during public hearing meeting held on 16.06.2000, the company shall undertake transportation of materials by 50 tonne capacity heavy duty trucks to reduce the impact of traffic and action plan in this regard should be submitted to this Ministry within three months. | 50 Tons capacity heavy duty "VOLVO" make trucks are being used for transportation of raw materials. |
| viii | The company shall not start operation of the cement plant till the environmental clearances of the linked mine proposals have been obtained under the provisions of EIA notification. | The Environmental Clearance for the Expansion of Alathiyur Mines over an extent of 386 Ha for a production of 2.574 MTPA was obtained vide MoEF Letter No. J-11015/16/2001-IA.II (M) dated 16.10.2002. As informed that the Line-I operations were restricted during the commissioning and optimization of Line-II in July 2001 and the limestone supply from the existing mines was adequate for cement plant operations during 2001-02. |

General Condition

| Sl. No. | General Condition | Compliance Status |
|---------|---|--|
| i | The project authority must adhere to the stipulations made by Tamilnadu State Pollution Control Board and state government. | Consent to operate for the cement plant has been obtained and regularly got renewed by SPCB. The regular renewal by SPCB implies that the project authority is adhering to the stipulations made by TNPCB. |
| ii | No further expansion or modification of the plant shall be carried out without prior approval of this ministry. | 1 st Expansion 1800 to 3700 TPD has been taken up in Line-1 on 24.5.2006. CFE obtained from TNPCB, as the cost of the project was less than Rs. 50 Crores. Hence, EC was not required under EIA Notification, 1994. 2 nd expansion of Line-2 project 6300 TPD has also been carried out with MoEF clearance J/11011/59/2000/IA.II(I) dtd. 5.1.2001 3 rd subsequent expansion to 6300 to 8200 TPD has also been carried out with TNPCB clearance T6/TNPCB/F-39403/RL-CMI/PLA/A/2006 dated 15.05.2006 |

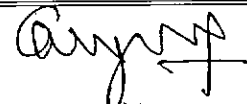


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| Sl. No. | General Condition | Compliance Status |
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| iii | At least four ambient air quality-monitoring stations should be established in the downward direction as well as where maximum ground level concentration of SPM, SO ₂ and NO _x are anticipated in consultation with the Tamilnadu State Pollution Control Board. Data on ambient air quality and stack emission should be regularly submitted to this Ministry including its Regional Office at Bangalore and the State Pollution Control Board/Central Pollution Control Board once in six months. | Eight locations of ambient air quality monitoring stations have been established and monitoring carried out regularly. Stack emission & ambient air quality monitoring report, every six month once is being submitted to the regional office. • The emission levels are displayed at the main gate for the public. |
| iv | Industrial waste water should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May, 1993 and 31 st December, 1993 or as amended from time to time. The treated waste water should be utilized for plantation purpose. | There is no liquid trade effluent. STP treated water is being used for Green Belt Development. |
| v | The overall noise levels in and around the plant area should 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). | Noise control measures including acoustic hoods, silencers, enclosures etc have been provided. Monthly monitoring is carried out for the ambient noise levels. Monitored data shows noise levels monitored are within the limits. |
| vi | Proper housekeeping and adequate occupational health programmes must be taken up, occupational health surveillance programme should be done on a regular basis and records maintained. The programme must include lung function and sputum analysis tests. | Housekeeping is being constantly maintained and Occupational health and health surveillance programme is done on a regular basis by our competent Doctor through the occupational health centre maintained by us and necessary records are also maintained. |
| vii | The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP. | Necessary actions have been taken to comply with EIA/EMP recommendations. Implementation is found by and large satisfactory. |
| viii | A separate environmental management cell to carry out various management and monitoring functions shall be set up | Separate Environmental Management Cell functions under the Unit Head. Apart from this RCL is also having a corporate Environmental Cell at Chennai. |



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| Sl. No. | General Condition | Compliance Status |
|---------|---|--|
| | under the control of senior executive. | |
| ix | The project authorities will provide adequate funds both recurring and non-recurring to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided should not be diverted for any other purposes. | The EMP budget is Rs.15 crore and recurring cost is Rs.2.00 crore per annum. Apart from this a separate CSR budget of Rs.842.50 lakhs (Capital). The funds provided for EMP is not diverted for any other purposes. |
| X | The Regional Office of this Ministry at Bangalore/Central Pollution Control Board / State Pollution Control Board will monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation should be submitted to them regularly. | Agreed upon. |
| xi | The project authorities should inform the Regional Office as well as the Ministry, the date of financial closure and the final approval of the project by the concerned authorities and the date of commencing the land development work. | As submitted by project authorities the project cost is met from the internal funds mainly and date of commencement is 26.2.2001 |
| xii | 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 State Pollution Control Board/Committee and may also be seen at website of the Ministry and Forest at http://envfor.nic.in . This should 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 a vernacular language of the locality concerned. | Paper advertisement has been given and copy submitted. |


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Αρχηγείο Οργανισμού Εργασιών & Σημαντικών Σημαντικών
Συλλογισμών Οργανισμού
Παράρτημα (2)
ΟΡΓΑΝΙΣΜΟΣ ΕΡΓΑΣΙΩΝ ΣΗΜΑΝΤΙΚΩΝ ΒΕΛΙΓΡΑΔΙ