



ISO 9001



ISO 14001

Certified Company

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## **THE RAMCO CEMENTS LIMITED**

(formerly known as Madras Cements Ltd.,)

28.11.2016

The Addl. Principal Chief Conservator of Forests (C)  
Ministry of Environment & Forests,  
Regional office (Southern Zone),  
No.34, Cathedral Garden Road,  
Nungambakkam,  
Chennai - 600034

Dear Sir,

**Sub:** Submission of Compliance Reports for Melavenkateswarapuram Limestone Mine for the Period of April' 2016 to September' 2016 - Reg.

**Ref:** MoEF - EC Letter for Melavenkateswarapuram Limestone Mine Vide No. J-11015/6/99-IA.II (M) dated 22.11.1999.

We are pleased to submit herewith the EC conditions Compliance status Reports with necessary enclosures for our Melavenkateswarapuram Limestone Mine G.O.Ms.No.497 dated 23.03.1988 (New G.O.Ms.No.168 dated 17.11.2014) for the Period April' 2016 to September' 2016.

We have also enclosed the soft Copy of Half yearly Environmental Report and Compliance Report in a CD for your kind Perusal.

Yours faithfully,

for **THE RAMCO CEMENTS LIMITED**

**P.JAGADISH BABU**  
**Sr.DGM (MINES)**

**Encl:-** Soft copy of 6 months Compliance reports & Monitoring Report in CD.

**MOEF ENVIRONMENTAL CLEARANCE COMPLIANCE STATUS(Apr'2016-Sep'2016) – IN RESPECT OF MELAVENKATESWARAPURAM LIMESTONE MINE OVER AN EXTENT OF 98.62.0 HA (0.101 MTPA) OF M/S. THE RAMCO CEMENTS LTD., IN PUDUR, NADUKATTUR AND SENAYAMPATTI VILLAGES, VILATHIKULAM TALUK, THOOTHUKUDI DISTRICT, TAMILNADU - REGARDING.**

**MoEF Clearance Letter No- J-11015/6/99-IA.II (M) dated 22.11.1999**

**A. SPECIFIC CONDITIONS**

<b>Sl.No</b>	<b>Condition imposed</b>	<b>Compliance status</b>
(i)	The OB dumps should be stacked in earmarked dump sites only and should not be kept active for a long period. Inactive OB dumps should be scientifically vegetated with the suitable species to prevent surface run off.	About 1,17,200 tonnes OB material generated during this half yearly period (Apr'2016 to Sep'2016) and the same is accommodated in the locations as earmarked in the approved Mining Plan. So far about 22,17,200 tonnes of overburden reject is dumped in the form of external dumps. The exiting dumps are active. After attain its conceptual quantity, the in-active sides will be vegetated with suitable species. The location of dumps are shown in <b>Environmental Plan (Annexure 1).</b>
(ii)	Top soil should be stacked properly with adequate measures at earmarked site it should be used for reclamation and rehabilitation of mined out areas.	No Top soil development in the last half yearly period(Apr'2016 to Sep'2016). About 1,74,000 tonnes of top soil is removed from the inception of mine and the same is stored in the form of external dumps. The dumps are being maintained properly with plantation at its slope. The Photograph of Top soil Dump is enclosed as <b>Annexture-2.</b>
(iii)	Garland drains of appropriate size should be constructed, to collect surface run-off from the OB & waste dump sites. The collected run-off should be diverted to the sedimentation tank before final disposal.	Garland drains around the periphery of dumps (1200m (L) X 1.5m (W) X 1.5m (D) have already been formed and maintained to arrest the silt and sediments flow from the OB dumps. De-siltation was done during Sep'2016 as a regular practice being done before onset of monsoon every year. The photograph showing the existing Garland drainage is enclosed as <b>Annexture-3.</b>
(iv)	A greenbelt of 30m width around the ML area by planting the native plant species in an area of 10.0ha should be raised in consultation with the local DFO / agriculture department. The density of the trees should be around 2000 plants per ha.	We have planted 1000 Nos. tree during this half yearly period (April'2016 to Sep'2016) over an area of of 2.50 Ha. In total about 6.00 Ha. is covered with plantation/Green belt all along the lease boundary with 4852 numbers of native species selected in consultation with Forest and agriculture

		department. In addition to this, about 7.00Ha. just outside of the lease area is also afforested with 6650 Nos. of saplings. The Photograph of Afforestation carried out is enclosed as <b>Annexure-4</b> .
(v)	A detailed mine decommissioning plan should be submitted to the MoEF 5 years in advance for approval.	The mine is being operated and has another 12.0 years life. The condition will be complied 5 years in advance of its closure.
(vi)	Water conservation scheme should include water harvesting and recharging of the ground water.	All the mine boundary and the dumps are provided with Garland drains and finally drains into the settling pond. No water is pumped out from this pond and allowed only to recharge the ground water. 2 No's of siltation pond/recharge pits to the size of (90m(L) x 50m(W) x 3m (D) and 60m(L) x 40m (W) x 3m(D)) are existing. Besides two check dams are also available in the mine.
(vii)	Fresh vibration study should be carried out by the project authorities and report submitted to the Ministry within six months time.	The vibration study was carried out by the Department of Mining Engineering, Anna University, Chennai during July'2000 and report submitted to MoEF. Additionally, we have engaged Department of Mining Engineering, Anna University, Chennai during December'2012 to assess the blast induced Ground vibration study at this mine. The latest blasting vibration report is enclosed as <b>Annexure-5</b> .

## B. GENERAL CONDITIONS

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(i)	No change in mining technology and working plan should be made without prior approval of the Ministry of Environment & Forests.	There is no change in the mining methodology. If any change arise, we will obtain prior approval from the ministry.																																
(ii)	No change in the calendar plan including excavation, quantum of limestone and wastes / overburden dumps should be made.	<p>The actual quantities mined are within the approved quantity. The details of approved quantity Vs. actually mined is furnished in the below table.</p> <table border="1"> <thead> <tr> <th rowspan="3">Year</th> <th colspan="2">Quantity in tonnes</th> <th rowspan="3"></th> </tr> <tr> <th colspan="2">Production</th> </tr> <tr> <th>Approved</th> <th>Produced</th> </tr> </thead> <tbody> <tr> <td>2011-12</td> <td>1,01,500</td> <td>53,937</td> <td></td> </tr> <tr> <td>2012-13</td> <td>1,01,500</td> <td>52,253</td> <td></td> </tr> <tr> <td>2013-14</td> <td>1,01,500</td> <td>84,329</td> <td></td> </tr> <tr> <td>2014-15</td> <td>1,01,500</td> <td>92,300</td> <td></td> </tr> <tr> <td>2015-16</td> <td>1,01,500</td> <td>99,782</td> <td></td> </tr> <tr> <td>2016-17</td> <td>1,01,500</td> <td>49,503 (April'2016 to Sep'2016)</td> <td></td> </tr> </tbody> </table>	Year	Quantity in tonnes			Production		Approved	Produced	2011-12	1,01,500	53,937		2012-13	1,01,500	52,253		2013-14	1,01,500	84,329		2014-15	1,01,500	92,300		2015-16	1,01,500	99,782		2016-17	1,01,500	49,503 (April'2016 to Sep'2016)	
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(iii)	Four ambient air quality monitoring stations should be established in the core zone as well as buffer zone for SPM, RPM, SO <sub>2</sub> , NO <sub>x</sub> and CO monitoring. Location of the ambient air quality stations should be decided based on the meteorological data, topographical features and environmentally sensitive targets in the consultation with the Tamil Nadu Pollution Control Board.	In consultation with TNPCB, 10 nos. of Ambient Air Quality monitoring stations have been set up in both core and buffer zone based on meteorological data, topographical features and environmentally and ecologically sensitive considerations. Monitoring reports shows that the parameters monitored are well within the Prescribed limits. The Half yearly monitoring reports are being submitted to the ministry periodically.																																
(iv)	Data on ambient air quality should be regularly submitted to this Ministry including its Regional office and the State Pollution Control Board / Central Pollution Control Board once in six months.	Ambient Air Quality data is being submitted regularly to the Regional Office, once in six months and monthly data to the State Pollution Control Board.																																
(v)	Fugitive emissions should be controlled, regularly monitored and data recorded properly.	Our haul road from Mine to the crushing plant at Pandalgudi is black topped. Effective controlling measures are being practiced to minimize the fugitive emission by water																																

		spraying on mine haul roads. We have deployed a dedicated Water Tanker each one for our each operating Mine. The water tanker is having a capacity of 10 KL and make 8 to 10 trips in day. Avenue plantation on either side of the haul road is being developed.
(vi)	Adequate measures should be taken for control of noise levels below 85 dBA in the work environment	Noise generation due to HEMM is controlled by adopting effective periodical and preventive maintenance system. Acoustic enclosures are provided at the operator cabin in all the equipment. Noise levels are being monitored periodically. Monitoring reports shows that the noise levels are well within the limits. The details of Noise levels monitoring is furnished in Half yearly report.
(vii)	Personnel working in dusty areas should wear protective equipment devices. Adequate training and information on safety and health aspects should be provided.  Occupational health surveillance programme of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed	Personal protective equipments are provided to all employees. Training on safety and health aspects have been provided in the Group vocational training centre. The Photograph showing PPE's provided as <b>Annexture-6</b> . The occupational health surveillance program is being conducted for the workers as per Mines Act. An occupational health centre headed by occupational health physician is established at Our Pandalgudi Mine. Initial and Periodical medical examinations are being conducted as per the Mines Act and records are maintained.
(viii)	Funds earmarked for environmental protection measures should be kept in a separate account and should not be diverted for other purposes and Year-wise expenditure should be reported to the Ministry.	Annual budget has been allocated separately for environmental protection measures and being utilized for the purpose of Environmental Management. The year-wise expenditure being reported to the Ministry.
(ix)	The project will be monitored by the Regional Office of this Ministry located at Bangalore. The project authorities should extend full cooperation to the officer(s) of the Regional Office by furnishing the requisite data / information / monitoring reports.	Required Co operation being extended and also necessary documents / information are being submitted.
(x)	The project authorities should have valid "Consent to operate" and mining plan approval.	<b>Consent to Operate by TNPCB</b> We have valid "Consent to operate" issued by TNPCB vide Consent Order No.160825175580 dated 25.08.2016 and same is valid upto 31.03.2017. The copy of the Consent under Air & Water Act for the year 2016-2017 is enclosed as <b>Annexure-7</b> .

		<p><b>Mining Plan approval</b></p> <p>We have also obtained Mining Plan approval from Indian Bureau of Mines vide their approval No. TN/TKDMP/LST-1949-MDS dated 18.05.2015 and the approval is valid up to March'2018. The copy of mining plan approval is enclosed as <b>Annexure-8</b>.</p>
(xi)	The project proponent should inform the Regional Office located at Bangalore as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work.	We are using only internal capital for this mine. Hence, separate financial closure details are not maintained for this mine.
(3)	The above conditions will be enforced, inter-alia, under the provisions of the water (Prevention and Control of Pollution) Act.1974. The Air (Prevention and Control and Pollution) Act. 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules.	Being complied
(4)	Failure to comply with any of the conditions mentioned above would result in withdrawal of environmental clearance.	Being complied all the stipulated conditions.