

**THE RAMCO CEMENTS LIMITED, VIZAG GRINDING UNIT  
ENVIRONMENTAL CLEARANCE COMPLIANCE REPORT  
GRINDING UNIT - 0.95 MILLION TPA CEMENT**

EC Order No. : SEIAA/AP/VSP- 86/2013, dated 03.05.2013

Period : October 2018 to March 2019

Sl. No	CONDITION	STATUS OF COMPLIANCE
<b>A. SPECIFIC CONDITIONS:</b>		
<b>a) Air Pollution:</b>		
i.	Separate stacks each of height 60 m & 45 m shall be provided to Cement Mill & Packing Dept., respectively. The particulate emissions from the plant shall not exceed 50 mg/Nm <sup>3</sup> at any time. Bag filters shall be provided to control emissions. The DG sets shall be provided with a stack of height 46 m, as committed in the presentation.	<ul style="list-style-type: none"> <li>• Stacks of 60 m and 45 m are provided for Cement Mill &amp; Packing Plant as proposed. 46 m height stack is attached to DG sets.</li> <li>• Total 33 Nos. of air pollution control systems to control the fugitive dust emissions at various transfer points, raw material handling, bagging, packing, parking areas, etc.</li> <li>• Bag filters are provided to control fugitive emissions at all material transfer points.</li> <li>• All the air pollution control equipment are designed for latest particular emission standard of 30 mg/Nm<sup>3</sup>.</li> </ul>
ii.	Sampling Port with removable dummy of not less than 15 cm diameter in the stack at a distance of 8 times the diameter of the stack from the nearest constraint such as bends etc., shall be provided to monitor stack emissions.	Sampling ports provided accordingly.
iii.	Online ambient air quality monitoring stations shall be installed. Energy meters shall be installed for all pollution control systems.	2 Nos. of Online Ambient Air Quality monitoring stations have installed near main gate & near railway siding in consultation with APPCB.
iv.	Ambient air quality including ambient noise levels must not exceed the standards stipulated under EPA or by the State authorities. Monitoring of ambient air quality and stack emissions shall be carried out regularly in consultation with APPCB and report submitted to the Board and to the Ministry's Regional Office at Bangalore half yearly.	<p>2 Nos. of CAAQM stations installed at near main gate &amp; near railway siding in consultation with APPCB and regular manual monitoring is also being done through an approved external agency.</p> <p>In addition to this, 2 Nos. of online real time Continuous Stack Emission Monitors installed at cement mill &amp; main bag house.</p> <p>Online monitoring data (stack &amp; ambient air quality) is being transmitted to APPCB &amp; CPCB servers regularly.</p> <p>Ambient air quality and stack emission level monitoring data are regularly submitted every month to APPCB and compiled data to MoEF&amp;CC, RO once in six months.</p> <p>Ambient noise levels are being monitored at 6 locations on quarterly basis and the noise levels are within the prescribed limits as per the reports.</p> <p>Monitoring data for the period October 2018 to March 2019 is enclosed as Annexure – I.</p>
v.	Raw materials and products shall be transported in covered trucks. Storage of raw material shall be in roof sheds. Water spray system shall be provided all around the stockpiles and dust suppression system around the conveyor system. All the conveyor belts shall be covered with GI sheets. All the roads in the plant area shall be asphalted / concreted and water sprayed to reduce the fugitive dust emissions.	<ul style="list-style-type: none"> <li>• Raw materials and products are being transported through covered trucks / closed wagons.</li> <li>• Clinker and Fly Ash are being stored in silos.</li> <li>• Gypsum and Slag are being stored in covered sheds.</li> <li>• Water spraying is carrying out all around the</li> </ul>

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		<p>stockpiles and dust suppression system around the conveyor system.</p> <ul style="list-style-type: none"> <li>All the conveyor belts are covered with GI sheets.</li> <li>All major internal roads are asphalted / concreted and water spraying is done to reduce the fugitive dust emissions.</li> </ul>
vi.	<p>In-plant control measures for checking fugitive emissions from all the vulnerable sources like spillage / raw materials handlings etc., shall be provided. Further, specific measures like provision of adequate dust suppression &amp; extraction system consisting of water sprinkling, suction hoods, fans and bag filters etc., shall be installed at material transfer points, and other raw material handling areas. Fugitive emissions shall be regularly monitored and records maintained.</p>	<ul style="list-style-type: none"> <li>Bag filters are installed at all material transfer points and other raw material handling areas.</li> <li>Specific measures like provision of adequate dust suppression &amp; extraction system, suction hoods, fans and bag filters etc., are installed at material transfer points and other raw material handling areas.</li> <li>Total 33 Nos. of air pollution control systems to control the fugitive dust emissions.</li> </ul>
viii.	<p>Interlocking facility should be provided in the pollution control equipment so that in the event of the pollution control equipment not working, the feeding of raw materials is stopped automatically.</p>	<p>Interlocking facilities are provided to the pollution control equipment so that in the event of the pollution control equipment not working, the feeding of raw materials gets stopped automatically, in phased manner.</p>
viii.	<p>The project proponent shall develop a thick greenbelt of width 10 m along the boundary &amp; at vacant places in the plant, with appropriate species to suppress any dust emissions in consultation with the local DFO. The area of the greenbelt shall not be less than 15.58 Ha.</p>	<p>17,206 Nos. of plants planted as on March 2019 (including Green Visakha plantation target), covering all the open places inside plant covering an area of 15 ha.</p>
<b>b) Water Pollution:</b>		
i.	<p>The source of water is Bore well. The total water requirement shall not exceed 100 kLD. Out of that 60 kLD is utilized for equipment cooling; 5.0 kLD for Dust suppression; 20 kLD for development of greenbelt and 15 kLD is utilized for domestic purpose.</p> <p>No effluent shall be discharged outside the factory premises and 'zero' discharge shall be adopted. Waste water generated from Domestic section of shall be sent to Septic tank followed by dispersion trench.</p>	<p>The source of water is bore wells. As conservative measure, the total water requirement is 96 kLD, with the following composition:</p> <ul style="list-style-type: none"> <li>Equipment cooling, dust suppression and greenbelt – 81 kLD</li> <li>Domestic - 15 kLD</li> </ul> <p>As cement manufacturing is dry process, 'zero' discharge is being adhered to. Domestic sewage is being treated in Septic tank followed by dispersion trench.</p>
ii.	<p>The company must harvest the rainwater from the rooftops and storm water drains to recharge the ground water.</p>	<p>12 Nos. of rain water harvesting pits constructed by the end of March 2019</p>
<b>c) Solid Waste:</b>		
i.	<p>Dust generated from the Bag filters shall be completely recycled. Waste oils &amp; used oils generated from the plant shall be dispersed as per the Hazardous Waste (Management and Handling) transboundary rules and its amendments thereof to the recyclers authorized by APPCB.</p>	<p>Dust generated from the Bag filters is being completely recycled into the respective system. Recently, no hazardous waste generation in the plant. Will be followed at the time of generation of hazardous wastes.</p>
<b>B. General Conditions:</b>		
i.	<p>This order is valid for a period of 5 years.</p>	<p>Noted. Obtained Consent for Operation (CFO) and its renewal from Andhra Pradesh Pollution Control Board vide their letter No. APPCB/VSP/VSP/312/CFO/HO/2016- dated 24.02.2016 valid up to 28.02.2021.</p>
ii.	<p>'Consent for Establishment' shall be obtained from Andhra Pradesh Pollution Control Board</p>	<p>Andhra Pradesh Pollution Control Board accorded Consent for Establishment for 0.95</p>

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	under Air and Water Act before the start of any activity / construction work at site.	Million TPA proposal vide letter No. 312/PCB/CFE/RO-VSP/HO/2013-2213 dated 08.07.2013. Andhra Pradesh Pollution Control Board also accorded Consent for Establishment for our expansion proposal (from 0.95 to 2.0 Million TPA) vide letter No. 312/APPCCB/CFE/RO-VSP/HO/2013-2213 dated 27.03.2019.
iii.	Provision shall be made for the housing of the construction labour within the site with all necessary infrastructure and facilities such as safe drinking water, fuel for cooking, mobile toilets, mobile STP, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project. The safe disposal of wastewater and solid wastes generated during the construction phase should be ensured.	Provision was made for the housing of the construction labor with all necessary amenities. Presently, it is again made for the expansion proposal.
iv.	No change in the process technology and scope of working should be made without prior approval of the SEIAA, AP. No further expansion or modifications in the plant shall be carried out without prior approval of the SEIAA, AP / MoE&F, Gol, New Delhi, as applicable.	No change in the process technology SEIAA, AP accorded EC for our expansion proposal (from 0.95 to 2.0 Million TPA) vide letter No. SEIAA/AP/IND/02/2018/513-1695 dated 24.01.2019.
v.	The proponent shall submit half-yearly compliance reports in respect of the terms and conditions stipulated in this order in hard and soft copies to the SEIAA; and CCF, Regional Office of MoE&F, Gol, Bangalore on 1 <sup>st</sup> June and 1 <sup>st</sup> December of each calendar year.	This half-yearly compliance report in respect of the terms and conditions stipulated in this order in soft copies is being submitted as part of this condition, to the SEIAA and APCCF, MoEF&CC, Gol, Chennai Regional Office within the time frame.
vi.	Officials from the Regional Office of MoE&F, Bangalore who would be monitoring the implementation of environmental safeguards should be given full co-operation, facilities and documentation / data by the project proponents during their inspection. A complete set of all the documents shall be submitted to the CCF, Regional Office to MoE&F, Bangalore.	Necessary co-operation will be extended to the Officials from the Regional Office of MoEF&CC, Chennai who would be monitoring the implementation of environmental safeguards. All necessary documents will be submitted to the APCCF, MoEF&CC, Chennai Regional Office upon request.
vii.	Four ambient air quality monitoring stations should be established in the core zone as well as in the buffer zone for monitoring. Locations of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board.	<ul style="list-style-type: none"> <li>• Ambient air quality monitoring is being carried out accordingly.</li> <li>• 4 Nos. of ambient air quality monitoring stations are established based on the meteorological data.</li> <li>• Monitoring is being undertaken in consultation with the State Pollution Control Board by portable monitoring equipment by MoEF&amp;CC approved external agency.</li> </ul>
viii.	Data on ambient air quality should be regularly submitted to the Ministry including its Regional Office located at Bangalore and the State Pollution Control Board / Central Pollution Control Board once in six months.	Ambient air quality monitoring is being carried out by portable monitoring equipment by MoEF&CC approved external agency. Compiled data for the period October 2018 to March 2019 is enclosed as Annexure – I.
ix.	Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.	Personal protective respiratory devices are being issued to the personnel working in dusty areas are being ensured to wear. Adequate training and information on safety and health aspects is being imparted to them.
x.	Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to	Initial occupational health status is carried out for all employees at the time of recruitment and occupational health surveillance programme of

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	dust and take corrective measures, if needed.	the workers will be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.
xi.	A separate environmental management cell with suitable qualified personnel should be set up under the control of a Senior Executive, who will report directly to the Head of the Organization.	A separate environmental management cell with suitable qualified personnel is already set up under the control of a Senior Executive, who reports directly to the Head of the Organization.
xii.	The funds earmarked for environmental protection measures (Capital cost of Rs. 4.5 crores & Recurring cost of Rs. 5.0 lakhs / annum); & CSR activities (Rs. 20.0 lakhs), as committed in presentation should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry and its Regional Office located at Bangalore.	The funds earmarked for environmental protection measures (capital cost of Rs. 4.5 crores & recurring cost of Rs. 5.0 lakhs / annum); & CSR activities (Rs. 20.0 lakhs), are kept in separate account and are not get diverted for other purpose. Records of recurring & capital expenditure are being maintained. Annual expenditure details on various socio-economic activities carried out in the nearby vicinity of the plant are being submitted on regular basis along with half yearly compliance reports. CSR expenditure made in the financial year 2018-19 to the surrounding villages is around Rs. 24.004 lakh. The details are enclosed as Annexure - II.
xiii.	The project proponent shall submit the copies of the environmental clearance to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	Complied with.
xiv.	The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and SEIAA, AP. This order shall be displayed in the website of the project proponent.	Complied. The same is communicated to SEIAA, AP vide letter No. MCL/PCB/658/2013 dated 11th May 2013.
xv.	The SEIAA or any other competent authority may alter / modify the above conditions or stipulate any further condition in the interest of environment protection.	Complied with.
xvi.	The company shall undertake eco-development measures including community welfare measures in the project area.	Being done eco-development measures including community welfare measures in the project area.
xvii.	The proponent shall obtain all other mandatory clearances from respective departments.	All other necessary mandatory clearances from respective departments are obtained.
xviii.	Environmental clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No. 460 of 2004 as may be applicable to this project.	Noted.
xix.	Any appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted.
xx.	Concealing the factual data or failure to comply	Noted.

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	with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	
xxi.	The SEIAA may revoke or suspend the order, if implementation of any of the above conditions is not satisfactory. The SEIAA reserves the right to alter / modify the above conditions or stipulate any further condition in the interest of environment protection.	Noted.
xxii.	The above conditions will be enforced inter-alia, under the provisions of the Water (Protection & Control of Pollution) Act, 1974, the Air (Protection & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and Public Liability Insurance Act, 1991 along with their amendments and rules.	Noted.