



COMPLIANCE OF SPECIFIC & GENERAL CONDITIONS IMPOSED BY THE MoEF FOR PROPOSED CEMENT PLANT AT VILLAGE RAURI

Sr. No.	Conditions	Implementation
	A. Specific Conditions:	
i.	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 emissions from the cement plant and captive power plant (CPP) shall exceed 50 mg/Nm ³ . Continuous on-line monitors for particulate emissions, SO ₂ and NO _x in Raw/Kiln mill, clinker cooler, coal mill, cement mill etc. shall be provided and shall make necessary arrangements for submission of on-line real time emission data to CPCB website. Low NO _x burners shall be installed to control NO _x emissions. Interlocking facility shall be provided between pollution control equipment and the process operation so that in the event of the pollution control equipment not working, the respective unit (s) is shut down automatically.	<p>(a). The gaseous and Particulate Matter emissions from various units conform to the standards prescribed by the SPCB i.e. below 50mg/Nm³. Stack Monitoring report is enclosed as table 1.</p> <p>(b). We have installed the Continuous Particulate Matter (CPM) at our coal mill stack and cooler stack, Continuous Emission Monitoring System is installed at our main stack (stack attached to Raw Meal & Kiln). Low NO_x burners have been installed to control the NO_x emissions.</p> <p>(c). Interlocking facility has also been provided between pollution control equipment and the process operation so that in the event of the pollution control equipment not working, the respective unit (s) is shut down automatically.</p> <p>(d) In addition to this we also conduct third party stack monitoring by SGS India Ltd.</p>
ii.	Ambient air quality including ambient noise levels shall be monitored at different locations including fence of the sanctuaries and 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 HPSEP & PCB and report submitted to the Board quarterly and to the Ministry's Regional Office at Chandigarh half-yearly. Continuous stack monitoring system shall be installed.	<p>(a). We are monitoring the ambient air quality and ambient noise levels at our different locations and at the fence of the sanctuaries and the results are well within limits as compared to the standards laid down by the EPA.</p> <p>(b). There is a regular monitoring of ambient air quality; the results of the same are being submitted to SPCB.</p> <p>(c). Continuous stack emission monitoring systems have been installed at our stacks attached to Raw/Kiln mill, coal mill and clinker cooler stack.</p>
iii.	Electrostatic precipitators (ESP) shall be installed in clinker	(a). Electrostatic precipitator has been installed in clinker cooler and bag

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	<p>cooler to control air emissions. Bag house in raw mill and kiln, bag filters in cement mill and all the transfer points shall be provided. The dust collected from the pollution control equipments shall be recycled back into the process. Storage of raw materials viz. lime stone, coal, clinker shall be in closed roof sheds covered stockpiles. Water sprinkling arrangement should be made in the raw material stockyard and cement bag loading areas.</p>	<p>house in raw meal and kiln sections to control the emissions. All the transfer points have been provided with bag filters.</p> <p>(b). Dust collected from the APCE's is automatically recycled back into the process.</p> <p>(c). All the raw materials are being stored under closed roof sheds. Clinker is being stored under covered stockpiles.</p>  <p align="center">Chinese Sheds for Limestone & Coal</p>
iv.	<p>The company shall install adequate dust collection and extraction system to control fugitive dust emissions at various transfer points. Fugitive emissions from raw material storage yards, loading and unloading operation, material transfer points shall be controlled by providing bag filters and water sprinkling systems etc. Covered sheds shall be provided coal storage, iron containing material and red ochre. Unloading of the fly ash shall be carried out by providing pneumatic conveying system up to silo.</p>	<p>Adequate dust collection and extraction system has been installed to control fugitive dust emissions. All the material transfer points have been provided with bag filters. Covered sheds has been provided to store the raw materials. As the unit is only clinkerisation unit & there is no usage of fly ash. Tennant Road sweeping Machines are also being used to clean the roads to control the fugitive dust emission. All the roads are pucca however sprinkling is also being carried out wherever necessary.</p>  <p align="center">Water sprinkling system installed</p>
v.	<p>Total water requirement shall not exceed the limit stipulated by the Central/State Ground Water</p>	<p>(a). Being a dry process no effluent is generated from the process.</p> <p>(b). However the domestic waste water</p>

Environment protection measures / technology




Water

AMBUJA CEMENTS LIMITED (UNIT-RAURI)

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	Board and prior permission shall be obtained for drawl of ground water. No effluent shall be discharged from the process outside the premises and all the treated wastewater from Sewage Water Reclamation Plant (SWRP) shall be utilized for green belt development and other plant related activities. SWRP shall be further augmented as per the requirement of the expansion project.	generated from residential facilities as well as from the offices is being treated at SWRP. Treated water thus generated is reused for greenery development, dust suppression, cooling makeup etc. and the biological sludge generated is used for greenery development. (c) Treated water report is enclosed as table 2. (d) Test report of HPPCB of final outlet of SWRP is attached as annexure 2.
vi.	Due to enhanced movement of the trucks due to expansion of the project and other cement industries in the same region, the industry may consider feasibility of setting up of the conveyer belt transportation system for the raw material as well as final product to decongest the traffic in the hill region in collaboration with the Central Road Research Institute, New Delhi.	Noted.
vii.	The company must harvest surface as well as rainwater from the rooftops of the buildings proposed in the expansion project and storm water drains to recharge the ground water and use the same water for the various activities of the project to conserve fresh water.	Three rainwater recharging pits has been constructed in the plant premises.
viii.	Green belt shall be developed in and around the expansion project in at least 25 % of the area as per the CPCB guidelines in consultation with the local DFO. Plantation shall also be done along the roadside between Ropar and Darlaghat in collaboration with the State Forest Department due to	(a). Green belt development works for the available landscape is already under implementation. (b). We have already initiated the plantation works along NH- 88 for the widened sites in collaboration with SFD. (C). The details of plantation is enclosed as table 3.

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	regular plying of trucks carrying fly ash and cement.	 <p align="center">Road side plantation</p>  <p align="center">Eco- Green Park along NH - 88 Kararaghat</p>
ix.	Solid waste generated shall be 100 % recycled and reutilized in the process itself. Treated STP sludge shall be used for green belt development.	<p>(a). Solid waste generated is being recycled and reutilized in the process by 100 %.</p> <p>(b). Treated Biological Sludge generated from STP is being used for green belt development.</p>  <p align="center">Sewage Water Reclamation Plant</p>
x.	The company shall undertake eco-development measures including community welfare measures in the project area.	<p>Ambuja Cement Foundation, (N.G.O.) has already been formed to look after the community welfare activities. An amount of Rs/- 1,93,82,211 has been used for</p>

**Solid Waste
Plantation**


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		community welfare activities for the period from October, 2012 to March, 2013
xi.	The company shall follow all the recommendations mentioned in the Charter on Corporate Responsibility for Environmental Protection (CREP) especially all the major stacks shall be provided with continuous emission monitoring for particulate matter.	<p>All the major stacks i.e. Raw Mill/Kiln stack, Coal Mill stack and Clinker Cooler stack have been provided with Continuous Particulate monitor systems.</p>  <p align="center">CEMS Installed at Raw Meal/Kiln Stack</p>
xii.	Rehabilitation and resettlement plan prepared and submitted for the land acquired for the expansion project shall be implemented as per the R & R policy of the State Govt. in a time bound manner and report submitted to the Ministry.	According to Rehabilitation and resettlement plan as per state policy seven families rehabilitated.
xiii.	No work at site shall be undertaken without obtaining prior permission from the Chief Wildlife Warden, Govt. of H.P.	Necessary permission has been obtained from Chief Wildlife Warden, Govt. of H.P.
	B. General Conditions:	
i.	The project authority must adhere to the stipulations made by H.P. State Environment Protection & Pollution Control Board (HPSEP & PCB) and State Government.	Company is adhering to comply with the stipulations made by H.P. State Environment Protection & Pollution Control Board (HPSEP & PCB) and State Government.
ii.	No further expansion or modification of the plant should be carried out without prior approval of this Ministry.	Noted & shall be adhered.
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 HPSEP & PCB. Data on ambient air quality	We are already monitoring the ambient air quality at three locations and regularly submitting the reports to SPCB and to MoEF. We have also installed the Continuous Ambient Air Quality monitoring station. Ambient Air Quality Monitoring report is enclosed as table 4 (a) & (b) .

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	and stack emissions should be regularly submitted to this Ministry including its regional office at Chandigarh and HPSEP & PCB once in six months.	 Continuous Ambient Air Quality Monitoring Station
iv.	Industrial wastewater 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 wastewater should be utilized for plantation purpose.	Being a dry process, no industrial waste water will be generated from the process. However the waste water generated from offices and residential facilities shall be treated and utilized for plantation and other purposes.
v.	The overall noise level in and around the plant area should be kept 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 Environmental (Protection) Act, 1986 Rules 1989 viz. 75 dbA (day time) and 70 dbA (night time)	Noise control measures have been provided at all sources of noise generation. The results are well within limit as prescribed under Environmental (Protection) Act, 1986 Rules 1989. HPSPCB also carryout noise monitoring on regular basis. The noise level report is enclosed as table 5 .
vi.	Proper housekeeping and adequate occupational health programmes must be taken up. All the persons working in the sensitive areas shall wear protective covers. Occupational health surveillance programmes shall be done on a regular basis and records maintained. The programme must include lung function and sputum analysis tests once in six months.	Ambuja Cement Ltd. company is very much conscious about the occupational health and safety of employees and workers. Different types of health and house keeping programmes are regularly being organized by the company and the records are maintained. All the workers and employees are trained about the use of Personal Protective Equipments. Being a conscious company about the safety of employees the company has its own five cardinal rules for safety which each and everyone has to be followed.
vii.	The project proponent shall also comply with all the environmental protection measures and safeguards	Complied.

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	recommended in the EIA/EMP	
viii	A separate Environmental management cell with full-fledged laboratory facilities to carry out various management and monitoring functions should be set up under the control of Senior Executive.	<p>(a). A separate Environmental Management Division has already been set up to look after environment related activities.</p> <p>(b). Monthly EMS awareness program & other regular eco-green activities are being carried out as per our scheduled targets.</p>  <p align="center">Earth Hour celebration</p>
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 implementation schedule for all the conditions stipulated herein. The funds so provided should not be diverted for any other purposes.	Being complied.
x	The Regional Office of this Ministry at Chandigarh / Central Pollution Control Board / HPSEP & PCB will monitor the stipulated conditions. A six monthly compliance report and the monitored data along with the statistical interpretation should be submitted to them regularly.	Six monthly compliance reports for the conditions stipulated in environmental clearance granted by MoEF are being submitted to The Regional Office of this Ministry at Chandigarh on regular basis.
xi	The project authorities should inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Land development work for the project has been started from June 2007 and the same has been conveyed to the Regional Office of ministry.
xii	The project proponent should	Advertisement has been made in two local

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<p>inform the public that the project has been accorded environmental clearance by the Ministry and the copies of the clearance letter are available with the HPSEP & PCB/Committee and may also be seen at website of the Ministry of Environment and Forests 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 vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional Office.</p>	<p>news papers and a copy has been submitted to the Regional Office of MoEF, Chandigarh.</p>
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Protect our environment, keep it safe; tomorrow, we'll be saved!
EMD- Team, ACL Darlaghat