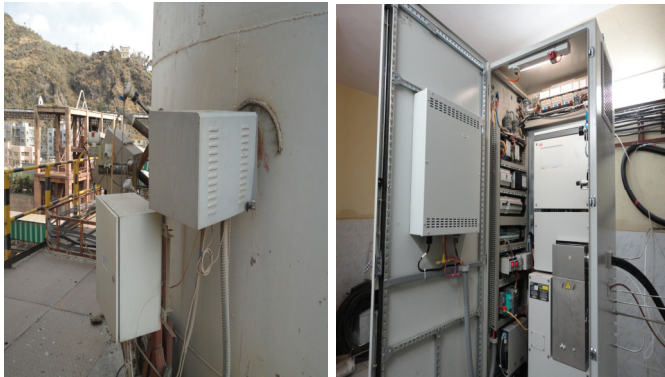




**Compliance of Conditions laid down by MoEF for Expansion of Cement Plant  
(2.0 MTPA to 2.6 MTPA Clinker) at Village Suli\_ Oct-12 to March-13**

<b>A. SPECIFIC CONDITIONS</b>		
<b>Sl. No.</b>	<b>Condition</b>	<b>Compliance Status</b>
i	Continuous stack monitoring facilities for all stacks and adequate air pollution control systems e.g. electrostatic precipitators (ESP) to clinker cooler and cement mill; glass bag house to raw mill and kiln; bag filters to raw mill hoppers, blending silo/kiln feed, clinker storage, coal mill system, packing plant, transfer points etc. shall be provided to keep emissions levels below 100 mg/Nm <sup>3</sup> . Storage of raw materials viz. limestone, coal, clinker shall be in closed roof sheds covered stockpiles. Water sprinkling arrangement shall be made in the raw material stock yard and cement bag loading areas.	<p><b>a.) CEMS</b> have been installed at Five major stacks i.e. GBH attached to Raw Mill and Kiln sections, Electrostatic Precipitators attached to Clinker Cooler, cement Mill1 &amp; 2 and Bag filters attached to Coal mill &amp; Cement Mill No. 3.</p>  <p align="center">CEMS installed at Kiln/Raw Meal stack</p> <p><b>b.)</b> Stack emissions are regularly monitored and the results are submitted to HP SPCB on monthly basis and to the Regional Office of MoEF at Chandigarh on six monthly basis.</p> <p><b>c.)</b> Each and every material transfer point is equipped with a bag filter.</p> <p><b>d.)</b> All the raw materials are stored in covered area.</p> <p><b>e.)</b> Water sprinkling arrangements have been made wherever required.</p>
ii	The company shall install dust collectors to control dust emissions from the transfer points, loading and unloading areas. A closed clinker system shall be adopted to control fugitive emissions. Dust collection system and water spray system shall be provided in raw material stock yard and cement bag loading areas to control fugitive emissions.	<p><b>a.) Each and every material transfer point is equipped with a bag filter to control the dust emissions.</b></p> <p><b>b.) Clinker is stored in completely covered stockpiles to prevent fugitive dust emission.</b></p>  <p align="center">Covered clinker stockpiles</p>


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iii	Secondary fugitive emissions shall be controlled within the prescribed limits and regularly monitored. Guidelines / Code of practice issued by the CPCB in this regard shall be followed.	Guidelines / Code of practice issued by the CPCB in this regard shall be followed to control secondary fugitive emissions.
iv	Total existing water requirement from Pazeena Khud (a tributary of River Sutluj) is 1,200m <sup>3</sup> /day and shall not exceed the limit even after expansion. Close circuit system shall be adopted for cooling. No wastewater shall be discharged from the process outside the premises and all the treated wastewater from Sewage Water Reclamation Plant (SWRP) shall be recycled and reused in the cement manufacturing process and/or for dust suppression, green belt development and other plant related activities etc. 'Zero' discharge shall be adopted. SWRP shall be further augmented as per the requirement of the expansion project.	<p>a.) Being the "Dry Process" of cement manufacturing, no waste water is generated from the process. However the domestic waste water 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. The same will continue after expansion also.</p>  <p>b.) Present SWRP is sufficient to treat the waste water generated even after the expansion. Results are enclosed as Table-2</p>
v	Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment. Due to enhanced movement of trucks due to expansion of project and other cement industries in the same region, the industry may consider the feasibility of setting up of the conveyor belt transportation system for the raw materials as well as final product to decongest the traffic in the hill region in collaboration with the Central Road Research Institute, New Delhi.	<p>a.) All possible efforts are being made to reduce impact of the transport of the raw materials and end products on the surrounding environment. All the trucks used in transportation of raw materials semi finished/finished products are covered with tarpaulin. <b>New multi axel trucks have been introduced for transportation of the raw materials semi finished/finished products.</b></p> <p>b.) Feasibility of setting up of the conveyor belt transportation system for the raw materials as well as final product to decongest the traffic in the hill region will be explored.</p>
vi	All the Cement Dust collected from pollution Control devices shall be 100% recycled and reused in the process and used for cement manufacturing. Treated	All the particulate matter collected through air pollution control devices is automatically recycled in the process. The biological sludge generated is used for greenery development.

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	STP Sludge from SWRP shall be used for green belt development.	
vii	All the fly ash shall be utilized as per flyash Notification, 1999 subsequently as amended in 2003.	All the fly ash is being utilized as per flyash Notification no. SO 2623 (E) dated 6 <sup>th</sup> November 2008.
viii	An effort shall be made to use of high calorific hazardous waste in the cement kiln and necessary provisions shall be made accordingly.	High calorific hazardous waste of Colgate Palmolive cream waste, ETP waste, food grade gelatin waste of Ranbaxy, paint sludge of TVS motors is being used in the cement kiln and necessary provisions have already provided.
ix	Green belt shall be developed in and around the expansion project in atleast 25 % of the area as per the CPCB guidelines in consultation with local DFO. Plantation shall also be done along the road side between Ropar & Darlaghat in collaboration with the State forest department due to regular plying of trucks carrying flyash and cement.	<p>a.) Plantation is an integral part of our activities. Plantation of more than 1460 Plants / saplings has been raised in and around Plant and Mining area (Oct-12 to March-13).</p>  <p>Road side plantation along NH-88 Details are enclosed as table-3</p>
x	The environmental clearance is subject to obtaining clearance under the wild life (Protection) Act, 1972 from the competent authority. Conservation plan for the schedule I Fauna shall be prepared in consultation with Chief Wild life warden, Government of H.P. and necessary funds for implementation of the same shall be allocated.	<b>We are paying 250000 per annum to Himachal Pradesh Zoos and Conservation Breeding Society Shimla</b> for adopting Zoo animals i.e. Brown Bear – 4 Nos., Goral – 7 Nos., Koklash – 4 Nos., Cheer – 5 Nos., Red Jungle Fowl – 8 Nos., Monal – 3 Nos., Kalij – 3 Nos.
xi	The environmental clearance is subject to the final orders of the Hon <sup>ble</sup> Supreme Court of India in the matters of Goa Foundation vs. UOI in Civil Writ Petition No. 460 of 2004 as may be applicable to this project.	Final orders of the Hon <sup>ble</sup> Supreme Court of India Shall be complied as may be applicable to the project.
<b>B. GENERAL CONDITIONS</b>		
i	The project authority must adhere to the stipulations made by H.P. State Pollution Control Board (HP SPCB) and State government.	All the stipulations made by H.P. State Pollution Control Board (HP SPCB) and State government shall be adhered.





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ii	No further expansion or modification of the plant shall be carried out without prior approval of this ministry.	Noted and complied.
iii	The gaseous and particulate matter emission 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 100 mg/Nm <sup>3</sup> . Inter locking facility shall be provided between pollution control equipment and the process operation so that in the event of pollution control equipment not working, respective unit(s) is shut down automatically.	Emissions from the Cement Plant shall be maintained well below the limits prescribed by State Pollution Control Board. Inter locking facility has been provided between pollution control equipment and the process operation so that in the event of pollution control equipment not working, respective unit(s) shut down automatically.
iv	Ambient air quality including ambient noise levels shall be monitored at different locations including fence of sanctuary and must not exceed the standard stipulated under EPA or by the State authorities. Monitoring of ambient air quality and stack emission shall be carried out regularly in consultation with HP SPCB 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>Monitoring is being carried out on regular basis. Ambient Air Quality and Stack monitoring is carried out and the results are submitted to the State Pollution Control Board on monthly basis and to the Ministry's Regional Office at Chandigarh half yearly. Continuous stack monitoring systems are installed at six stacks i.e. GBH, Cooler ESP, Cement Mill 1, 2 &amp; 3 ESP/Bag Filter and Coal Mill Bag Filter.</p>  <p align="center">Monitoring of GBH stack</p>
v	Industrial waste water shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 <sup>th</sup> May, 1993 and 31 <sup>st</sup> December, 1993 or as amended from time to time. The treated waste water shall be utilized for plantation purpose.	No industrial waste water is being generated from the production process. However waste water generated from offices and residential facilities is being treated at Sewage Treatment Plant and the treated water thus generated is used for greenery development and process cooling makeup etc.
vi	The over all noise levels in and around the plant area shall be kept well within	a.) All the precautionary measures have been taken to keep the noise levels within the

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	the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise level shall conform to the standards prescribed under Environmental (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (Day time) and 70 dBA (Night time).	<p>prescribed limits.</p> <p>b.) Physical &amp; biological barriers have been provided at suitable/available locations.</p> <p>Six monthly reports are enclosed as Table-4</p>
vii	Proper house keeping and adequate occupation health programmes must be taken up. All the persons working in the sensitive area shall wear protective covers. Occupation health surveillance programme shall be done on regular basis and records maintained. The program must include lung function and sputum analysis test once in six months.	<p>Proper house keeping and adequate occupation health programmes are taken up. All the persons working in the sensitive area have been provided with the required Personal Protective Equipments (PPEs). Regular checkup of the employees is being done and records are maintained.</p>  <p align="center">Road sweeping machine</p>
viii	The company must harvest surface as well as rain water from the roof top of the buildings proposed in the expansion projects 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.	<p>Suitable drainage systems are provided to recharge the ground water.</p>  <p align="center">Rain water harvesting</p>
ix	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.	As per the recommendations mentioned in the Charter on Corporate Responsibility for Environmental Protection (CREP), six stacks have been provided with continuous emission monitoring for particulate matter.

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x	The company shall under take eco development measures including community welfare measures in the project area.	<p>Ambuja Cement Foundation has been set up for taking care of the community development / welfare measures in the project area.</p>  <p align="center">Distribution of plants to community</p>
xi	The project proponent shall also comply with all the environmental protection measures and safe guards recommended in the EIA/EMP.	All the environmental protection measures and safe guards recommended in the EIA/EMP are being considered for its implementations there of.
xii	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 separate environmental management cell with full fledged laboratory facilities to carry out various management and monitoring functions have been set up under the control of Senior Executive.</p>  <p align="center">Water analysis</p>
xiii	As proposed, the project authorities shall earmark Rs.2.5 Crores towards environmental pollution control measures to implement the conditions stipulated by the Ministry of Environment & Forest as well as the State Government. An implementation schedule shall be submitted to the Regional Office at Chandigarh to implement all the conditions stipulated herein. The funds so provided should not be diverted for any other purposes.	All the conditions stipulated herein the clearance letter as well as by the State Government are being implied thereof.

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xiv	The Regional Office of this Ministry at Chandigarh/Central Pollution Control Board/HP SPCB will monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation should be submitted to them regularly.	We are facilitating the officials from the Regional Offices of this Ministry at Chandigarh/Central Pollution Control Board/HP SPCB to monitor the stipulated conditions. A six monthly compliance report is already being submitted to the Regional office of Ministry at Chandigarh regular basis.
xv	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by concerned authorities and date of commencing the land development work.	There will be some modifications in the existing process hence no new land development will take place. The date of financial closure shall be informed to the Regional office as well as Ministry in due course of time.
xvi	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 HP SPCB and may also be seen at web site of the Ministry of Environment & Forest at <a href="http://envfor.nic.in">http://envfor.nic.in</a> . This should be advertised within seven days from the date of issue of clearance letter at least in two local news papers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the regional office.	It has been advertised in two local news papers that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the HP SPCB and may also be seen at web site of the Ministry of Environment & Forest at <a href="http://envfor.nic.in">http://envfor.nic.in</a> . A copy of the same has already been submitted to the regional office at Chandigarh.