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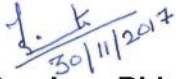
Sub: Compliance Status for Environmental Clearance under EIA notification dated 14.09.2006 for the Expansion of Lime Stone Mining (5.5 MTPA to 7.6 MTPA) at Village Kashlog, Mangu and Pati, Tehsil- Arki, Distt. Solan, HP by M/s Ambuja Cement Limited- reg. for the period from April, 2017 to Sep, 2017.

Dear Sir,

Please find the enclosed point-wise compliance of Specific and General Conditions of above mentioned Environmental Clearances.

This point wise compliance of specific and general conditions of **ECs** is being forwarded along with relevant annexure to your kind goodself in a systematic context, please.

Thanking you,
Yours Faithfully,
For **Ambuja Cements Ltd., (Unit Rauri)**


(Sandeep Bhimta)
Head Environment

CC to:

**CPCB Zonal Office (North) PICUP Bhawan, Vibhuti Khand, Gomti Nagar,
Lucknow - 226 010**

**Regional Officer, H P State Pollution Control Board, S.C.F. 6, 7 and 8,
Sector – IV, PARWANOO, Distt. Solan (H.P.)**

Encl.: (i) As above
(ii) Soft copy in CD.

**EC Compliance – Expansion of Kashlog Mines from 5.5 MTPA to 7.6 MTPA
F. No. J-11015/83/2013-1A-II(M)**

A.	Specific conditions	
Sl. No.	Conditions	Compliance
i	Environmental clearance is subject to obtaining clearance under the Standing Committee of NBWL, as may be applicable to this project.	The proposal has been recommended by Standing Committee of NBWL vide letter no. F.No. 6-47/2014 WL (31 st Meeting) dated 03-12-2014. Copy already submitted.
ii	The available technical and personal measures shall be taken to prevent or control the generation, release and dissemination of dust in the workplace.	All measures are taken up.
iii	The project proponent shall obtain Consent to Establish and Consent to Operate from the Himachal Pradesh Pollution Control Board and effectively implement all the conditions stipulated therein.	Consent to Establish and Consent to Operate have been obtained and all the stipulated conditions are being taken care for implementation.
iv	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.	Wildlife Conservation Plans have been prepared in consultation with State Forest & Wildlife Department and the same are authenticated by PCCF (Wildlife) vide letters dated WL(Misc)-73/Mining/VI/8295 dated 14/1/2014 and WL(Misc)-73/Mining/VI/7473 dated 24-12-2013. WLCP submitted vide letter no.ACH/EMD/WLCP/11/2015 dated 23/11/2015.
v	Wet drilling operation will be practiced to control dust.	Wet drilling is practiced.
vi	A buffer zone of 50 m (green belt) on either side of the pond/nalla located near mine lease area or passing through lease area should be developed for protection of the pond/nalla/stream.	It will be implemented as per the location specific conditions.
vii	No mining activities will be allowed in forest area, if any, for which the Forest Clearance is not available.	Forest Clearance issued by MoEF & CC vide letter no. F.No.8-7/2002-FC dated 05-12-2014. Copy already submitted.
viii	The mining operations shall be restricted to above ground water table and it should not intersect the groundwater table.	Mining operations do not intersect the groundwater table.
ix	The loose solids should be kept separately from flowing water and flow of effluents to nearby areas outside the leasehold shall be prevented. These paved drains along with arrangement for overburden dumps and their drainage may be clearly depicted on a contoured map of the mining area.	There is no generation of OB and all the ROM generated is used at the plant and there is no flow of effluents. Plan is maintained and regularly updated.
x	The project proponent shall ensure that no natural watercourse and/or water resources shall be obstructed due to any mining operations. Adequate measures shall be taken for conservation and protection of the 1 st and 2 nd order streams, emanating or passing through the mine lease during the course of mining operation.	No natural watercourse and water resources are obstructed due to mining operations.
xi	The top soil, if any shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation.	The majority ML area is devoid of any significant soil cover. The top soil occurring at scattered places is scrapped separately and is used for plantation activity.
xii	Appropriate safeguard measures shall be taken to ensure stability and drainage of dump so that no solid waste/debris flows into the nallah.	Mine will not generate any significant waste or rejects. However, a site of about 0.5 ha size has been chosen to dump any excess quantity of rejects which can be used at a

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		later stage.
xiii	The overburden (OB) generated during the mining operation shall be stacked at earmarked dump site(s) only and it should not be kept active for a long period of time and their phase-wise stabilization shall be carried out. Proper terracing of OB dump(s) shall be carried out so that the overall slope shall not exceed 28°. The overburden dump(s) shall be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas, use of geo textiles shall be undertaken for stabilization of the dumps. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status should be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office, Dehradun on six monthly basis.	There is no generation of OB in the mines.
xiv	Catch drains and siltation ponds of appropriate size shall be constructed for the working pit, temporary OB and mineral dumps to arrest flow of silt and sediment directly into the adjoining river and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains should be regularly desilted particularly after the monsoon and maintained properly.	Necessary care is being taken during mining operation. Check dams, check filter, retaining wall & surface drains are provided for water management. Rainwater falling in the catchment area of mine is properly channelized through drains and collected at the mine bottom pit which is used for dust suppression on haul roads, machine washing and watering of plants & trees in mining area.
xv	Dimension of the retaining wall at the toe of the OB dump(s) and the OB benches within the mine to check run-off and siltation should be based on the rainfall data.	There is no generation of OB in the mines.
xvi	Plantation shall be raised in the specified area including a 7.5 m wide green belt in the safety zone around the mining lease, OB dump(s), along the roads, etc. by planting the native species in consultation with the local DFO/Agriculture Department. In addition, plantation shall also be raised in the backfilled and reclaimed area and around water body. The density of the trees should be around 2500 plants per ha.	Plantation is being raised by planting plants species in consultation with local DFO. Apart from massive afforestation works, 1 hectare area has been reclaimed and planted by 2500 saplings of various plant species.
xvii	Effective safeguard measures, such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as around crushing and screening plant, loading and unloading point and all transfer points. Extensive water sprinkling shall be carried out on haul roads. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.	Bag filters have been provided to control dust emission from crusher along with water sprinklers at crusher hopper. Bag filters are attached to all the transfer points to arrest dust and dust thus collected is automatically recycled in the process. All conveyer belts are covered. Water sprinklers have been provided wherever required to mitigate the emissions from the loading and unloading of the limestone and shale. Water tankers are provided for regular sprinkling of haul roads. Frequent ambient air monitoring as per NAAQM standards & frequency is done and measures are taken for instilling confirmation to the norms prescribed.

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xviii	Regular monitoring of water quality upstream and downstream of perennial nallahs falling in the impact zone shall be carried out and record of monitoring data should be maintained and submitted to Ministry of Environment, Forest and Climate Change, its Regional Office, Dehradun, Central Groundwater Authority, Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board.	Regular monitoring of water quality upstream and downstream of perennial nallah is carried out and record maintained. The records are submitted to concerned authorities.
xix	Appropriate measures shall be taken for treatment of the upper catchment of the mine lease area.	Check dams, check filter, retaining wall & surface drains are provided for water management. Rainwater falling in the catchment area of mine is properly channelized through drains and collected at the mine bottom pit which is used for dust suppression on haul roads, machine washing and watering of plants & trees in mining area.
xx	The project authority should implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board.	Regional Director, CGWB has been approached to suggest conservation measures vide letter no. ACL:MR:HP:CGWA:2015:1 dated 30-06-2015. A letter from CGWB North has been received vide TC-04/NHR/STI/State/10-643 dated 2/12/2015. Suggested measures shall be implemented accordingly.
xxi	Regular monitoring of ground water level and quality shall be carried out in and around the mine lease by establishing a network of existing wells and installing new piezometers during the mining operation. The periodic monitoring [(at least four times in a year- pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January); once in each season)] shall be carried out in consultation with the State Ground Water Board/Central Ground Water Authority and the data thus collected may be sent regularly to the Ministry of Environment, Forest and Climate Change and its Regional Office, Dehradun, the Central Ground Water Authority and the Regional Director, Central Ground Water Board. If at any stage, it is observed that the groundwater table is getting depleted due to the mining activity, necessary corrective measures shall be carried out.	Due to open cast mining, we are not using the ground water, so there is no requirement for this monitoring in our case. Further ground water quality monitoring is being carried out by third party (NABL accredited lab). A letter in regard to installation of piezometers & ground water augmentation has already been written to Regional Director, CGWB seeking their advice on the issues vide letter no. ACL:MR:HP:CGWA:2015:1 dated 30-06-2015. A letter from CGWB North has been received vide TC-04/NHR/STI/State/10-643 dated 2/12/2015. Suggested measures shall be implemented accordingly.
xxii	The project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of water, required for the project.	Necessary permissions have been obtained.
xxiii	Suitable rainwater harvesting measures on long term basis shall be planned and implemented in consultation with the Regional Director, Central Ground Water Board.	Regional Director, CGWB is being approached to suggest conservation measures vide letter no. ACL:MR:HP:CGWA:2015:1 dated 30-06-2015. A letter from CGWB North has been received vide TC-04/NHR/STI/State/10-643 dated 2/12/2015. Suggested measures shall be implemented accordingly.
xxiv	Appropriate mitigative measures should be taken to	Appropriate mitigative measures are being

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	prevent pollution of nearby River in consultation with the State Pollution Control Board.	taken to prevent pollution and there is no nearby river to the mining lease area.
xxv	Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The mineral transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded.	Regular maintenance of vehicles is carried out to keep vehicular emission under control. PUC monitoring of the vehicles is done regularly. Raw material is fed to the crusher located within the mine from which it is sent to plant through fully covered Overland Belt Conveyor. So, vehicles are not required to be covered.
xxvi	Controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.	IKON digital Digital Energy Control System (Electronic detonator) is used to blast in critical areas. This system is more precise and accurate and generates less ground vibrations, fly rock and give better fragmentation. Advanced controlled blasting technique is practiced such as use of NTD, Excel, optimum quantity of blasting material are practiced to avoid dust generation, fly rock, noise level and ground vibration. Secondary blasting is eliminated by using hydraulic rock breakers.
xxvii	Drills shall either be operated with dust extractors or equipped with water injection system.	Drilling machines are equipped with dust extractors and water injection system.
xxviii	Mineral handling area shall be provided with the adequate number of high efficiency dust extraction system. Loading and unloading areas including all the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated.	Bag filters have been provided to control dust emission from crusher along with water sprinklers at crusher hopper. Bag filters are attached to all the transfer points to arrest dust and dust thus collected is automatically recycled in the process. All conveyer belts are covered. Water sprinklers have been provided wherever required to mitigate the emissions from the loading and unloading of the limestone and shale. Water tankers are provided for regular sprinkling of haul roads.
xxix	Sewage treatment plant shall be installed for the colony. ETP shall also be provided for the workshop and wastewater generated during the mining operation.	Sewage treatment plant has been provided for colony. Settling tank and oil & grease trap has been provided for workshop.
xxx	Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly.	Pre-placement medical examination and periodical medical examination is carried out and all the records are maintained.
xxxii	Regular monitoring of free silica in the dust will be carried out and records maintained. It shall be ensured that the levels of silica do not exceed the prescribed limit. The workers will be provided with personal protective measures to guard against inhaling silica dust.	Analysis of Free silica content in dust is being done at regular intervals.
xxxiii	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of	Not applicable as the expansion of the project don't require construction of new infrastructures.

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	temporary structures to be removed after the completion of the project.	
xxxiii	The project proponent should take all precautionary measures during mining operation for conservation and protection of endangered flora as well as endangered fauna. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and Wildlife Department. Necessary allocation funds for implementation of the conservation plan shall be made and the funds so allocated shall be included in the project cost. Copy of action plan may be submitted to the Ministry and its Regional Office at Dehradun within 3 months.	Wildlife Conservation Plans have been prepared in consultation with State Forest & Wildlife Department and the same are authenticated by PCCF (Wildlife) vide letters dated WL(Misc)-73/Mining/VI/8295 dated 14/1/2014 and WL(Misc)-73/Mining/VI/7473 dated 24-12-2013. The allocated necessary funds for the purpose have already earmarked in the Conservation plan and Rs. 97,10,000/- (Rupees ninety seven lakh ten thousand only) have already been submitted for the wildlife conservation activities vide letter no. ACL/CORP. AFFAIRS/WL CESS/2015 Dated 17-01-2015. Copies of wildlife conservation plans including their action plans have been forwarded vide letter no. ACH/EMD/WLCP/11/2015 dated 23/11/2015. Rs 47.90 lacs has been submitted as part of commitment in WLCP to State Wildlife Forest Deptt. through CAMPA Account (RTGS) on 18/03/2016 for year 2016. Recently we have submitted Rs 10 lacs to State State Wildlife Forest Deptt. through CAMPA Account. Total amount submitted Rs. 1.55 crores for WLCPs.
xxxiv	The critical parameters such as RSPM (Particulate matter with size less than 10 micron i.e. PM ₁₀) and NO _x in the ambient air within the impact zone, peak particulate velocity at 300 m distance or within the nearest habitation, whichever is closer shall be monitored periodically. Further, quality of discharged water shall also be monitored [(TDS, DO, pH and Total Suspended Solids (TSS)]. The monitored data shall be uploaded on the website of the company as well as displayed on a display board at the project site at a suitable location near the main gate of the company in public domain. The circular no. J-20012/1/2006-IA.II(M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change, which is available on the website of the Ministry, www.envfor.nic.in shall also be referred in this regard for its compliance.	The Ambient air (PM ₁₀ , PM _{2.5} & NO _x), PPV and discharge water (TDS, DO, pH & TSS) are monitored periodically. The monitored data is uploaded on the company website as well as on a display board at the project site.
xxxv	A Final Mine Closure Plan along with details of Corpus Fund should be submitted to the Ministry of Environment, Forest and Climate Change 5 years in advance of final mine closure for approval.	The point has been noted and it will be taken care well within time.
xxxvi	The project proponent shall undertake all the commitments made during the public hearing and effectively address the concerns raised by the locals in the public hearing as well as during consideration of the project, while implementing the project.	Being complied.

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B	General Conditions	
i	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment & Forests.	There is no change. If any, prior approval shall be taken from MoEF.
ii	No change in the calendar plan including excavation, quantum of mineral and waste should be made.	Being complied.
iii	Four ambient air quality monitoring stations should be established in the core zone as well as in the buffer zone for RSPM (Particulate matter with size less than 10 micron i.e., PM ₁₀) and NO _x monitoring. Location 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.	Ambient air quality monitoring is being carried out at four locations and monthly reports of the same are being submitted to HPSPCB. In addition to this one CAAQMS has been installed at Mines and the realtime data of the same is being submitted on CPCB and HPSPCB website.
iv	Data of ambient air quality should be regularly submitted to the Ministry of Environment and Forests including its Regional office located at Dehradun and the State Pollution Control Board/Central Pollution Control Board once in six months. Previous contained in notification no. B-29016/20/90/PCI-I dated 18.11.2009 should be followed for monitoring.	Data is regularly being submitted to HPSPCB, CPCB, MoEF Regional office at Dehradun.
v	Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.	To control fugitive dust emissions from various sources, bag filters have been installed. There is speed restriction for the vehicles running inside the mine. Water spraying arrangement on haul roads, loading and unloading and at transfer points have been provided and properly maintained.
vi	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.	All the personnel wear protective respiratory devices and are provided training and information on safety and health aspects.
vii	Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.	Different types of health & housekeeping program are regularly being organized by the company and the records are maintained.
viii	A separate environmental management cell with 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 Division has already been set up to look after environment related activities.
ix	The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry of Environment and Forests and its Regional Office located at Dehradun.	Funds earmarked for environmental protection measures are taken as a separate budget and six monthly expenditure is being reported to the Regional office of MoEF.
x	The project authorities should inform to the Regional office located at Dehradun regarding date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work.	Regional office of MoEF at Dehradun is being informed regularly.
xi	The Regional Office of this Ministry located at	Officer(s) of the Regional Office is /are

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	Dehradun monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer(s) of the Regional Office by furnishing the requisite data/ information/ monitoring reports.	always fully cooperated.
xii	The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the Ministry of Environment and Forest, its Regional office Dehradun, the respective Zonal Office of Central Pollution Control Board, the State Pollution Control Board. The proponent shall upload the status of compliance of the status of compliance of the environmental clearance conditions, including the results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the Ministry of Environment and Forests, Dehradun, the respective Zonal Office of Central Pollution Control Board and the State Pollution Control Board.	Six monthly report of the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) is being submitted to Regional office of MoEF, Dehradun. Zonal Office of CPCB & HPSPCB regularly and same is uploaded on the website of the company.
xiii	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	Copies of the clearance letter have been sent to the concerned authorities. The clearance letter has also been uploaded on the website of the company.
xiv	The State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and the Collector's office/ Tehsildar's office for 30 days.	We have given a copy of EC letter to HPSPCB so that same may be displayed by the respective authorities.
xv	The environmental statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the Regional Office of the Ministry of Environment and Forest, Dehradun by e-mail.	The environmental statement for each financial year in Form-V is being submitted regularly. The same is also uploaded in the company's website and sent to Regional office of MoEF, Dehradun by e-mail.
xvi	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 also at website of the Ministry of Environment and Forests at http://envfor.nic.in and a copy of the same should be forwarded to the Regional Office of this Ministry located at Dehradun.	Advertisements have been made in two local newspapers i.e Aapka Faisla & Himachal Dastak and copies of these have already been sent to Regional office of MoEF, Dehradun vide our letter no. ACH/EMD/F-13-2/09/2015 dated 12/09/2015

