

To

The Director (Industry)
Ministry of Environment & Forest,
Paryavaran Bhawan,
C.G.O.Complex, Lodhi Road,
New Delhi-110003.

Sub: - Six monthly Compliance of conditions of environmental clearance letter of expansion integrated Cement Plant, Captive Power Plant, Waste Heat Recovery Power Plant and Limestone Mine of M/s Shree Cement Limited situated at Village Ras, Tehsil - Jaitaran, District Pali, Rajasthan.
Ref: - Environment Clearance letter No. letter no. J-11011/981/2008-IA-II (I) dated: February 27, 2010.

Dear Sir,

With reference to the above subject matter and referred letter, we are submitting herewith the point wise compliance of conditions of the above environmental clearance letter from April, 2011 to September, 2011.

This is for your kind information please.

Thanking you,

Yours faithfully,
For Shree Cement Ltd.



(RAKESH BHARGAVA)
Jt. Vice President (Environment)

- Copy to: 1) The Chief Conservator of Forest (C), Ministry of Environment & Forest, Regional Office (Central Region), Kendriya Bhavan, 5th Floor, Sector 'H' Aliganj, Lucknow (U.P.), Pin-226024
- 2) The In-Charge (Zonal Office), Central Pollution Control Board (CPCB), 3rd Floor, Sahkar Bhawan, North T.T. Nagar, Bhopal-462003(M.P.)
- 3) The Member Secretary, Rajasthan Pollution Control Board, 4, Institutional Area, Jhalana Doongri, JAIPUR-302004 (Rajasthan).

**SHREE CEMENT LIMITED; RAS (PALI) RAJASTHAN
COMPLIANCE STATUS OF ENVIRONMENT CLEARANCE LETTER NO.:**

J-11011/981/2008-IA-II (I) dated: February 27, 2010

A	Specific Conditions	Compliances status
(i)	No construction work at the proposed project site shall be started without obtaining prior clearances/approvals for the linked mining component from the Indian Bureau of Mines (IBM) and State Govt. of Rajasthan. A copy of the mining lease approval from the Indian Bureau of Mines (IBM) and State Govt. of Rajasthan shall be submitted to the Ministry and its Regional Office at Lucknow before initiating any construction at site related to mining.	<ul style="list-style-type: none"> • Mining Lease was sanctioned in favour of M/s. Shree Cement Limited, vide Govt. letter no. P-3/65/Khan Group-1/91 of dated 06-08-1996. • We have approved mining scheme and plan from IBM and same have been submitted to the ministry.
(ii)	Compliance to all the specific and general conditions stipulated for the existing plant by the Central/State govt. shall be ensured and regular reports submitted to the ministry and it's Regional Office at Lucknow.	<ul style="list-style-type: none"> • We are complying with all conditions stipulated for the plant and regular reports are being submitted to ministry.
(iii)	Continuous monitoring system to monitor gaseous emissions shall be provided and limit of SPM shall be controlled within 50 mg/Nm ³ by installing adequate air pollution control system and energy efficient technology. High efficiency electrostatic precipitators (ESPs) shall be provided to clinker cooler, raw mill & kiln, captive power plant and bag house to coal mill & cement mill to control particulate matters within 50 mg/Nm ³ . Stack height shall be maintained as per the CPCB guidelines to control air emissions from all the sources and reports submitted to this Ministry including its Regional office at Lucknow, RSPCB and CPCB once in six months.	<ul style="list-style-type: none"> • Opacity meters are installed at all stacks for continuous monitoring of gaseous emissions. • ESP's are provided for Raw mill & Kiln, clinker cooler, Boiler and Bag house for Coal mill & cement mill. • The emission levels are maintained (PM) < 50 mg/Nm³. Height of all stacks are as per the CPCB guidelines. • Compliance status reports are being submitted to Ministry including its Regional office at Lucknow, RSPCB and CPCB.
(iv)	As proposed, proper and full utilization of gases generated from the kiln in waste heat recovery boiler (WHRB) shall be ensured.	<ul style="list-style-type: none"> • The gases generated from the kiln and pre-heaters are being utilized in waste heat recovery boilers (WHRB).
(v)	As proposed, limestone shall be used in captive power plant to reduce SO ₂ emissions. Stacks of adequate height shall be provided to disperse SO ₂ . Low NOx burners shall be provided to reduce NOx emissions.	<ul style="list-style-type: none"> • Limestone is being used in captive power plant to reduce SO₂ emissions. • Height of all stacks of CPP is as per the CPCB guidelines. • Low NOx burners are provided to reduce NOx emissions.
(vi)	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be followed.	<ul style="list-style-type: none"> • Complying with the National Ambient Air Quality Emission Standards issued by the Ministry.
(vii)	The company shall install adequate dust collection and extraction system to control fugitive dust emissions at various transfer points, raw mill handling (unloading, conveying, transporting, stacking), vehicular movement, bagging and packing areas etc. bag house shall be provided at coal crushing and coal mill section. Bag filters shall be provided to silos, clinker stock pile and fine coal bricks, cement storage and packing section, material transfer points. Bag filters/atomized water spray systems shall also be provided at	<ul style="list-style-type: none"> • Bag filters are installed at various material transfer points to control the fugitive emission. • Dust collected in pollution control equipments is recycled back into the process. • Fly ash and clinker is stored in silos. • Water sprinkling arrangement is provided for coal and limestone handling. • All conveyor belts are covered. • All roads and truck parking area are concreted.

	limestone handling section. Crusher shall be operated with high efficiency bag filters. All conveyers shall be covered with GI sheets. Water sprinklers shall be provided at raw material storage yards. Covered sheds for storage raw materials and fully covered conveyors for transportation of materials shall be provided besides coal, cement, fly ash and clinker shall be stored in silos. Pneumatic systems shall be used for fly ash handling. In the mines, wet drilling machines with dust collectors shall be provided. Blasting shall be done by latest blasting technique using stock tube detonator.	
(viii)	Dust suppression by regular water sprinkling shall be carried out in limestone mine lease critical areas prone to air pollution and having high levels of SPM and RSPM such as haul road, loading & unloading points and other vulnerable areas to control fugitive emissions. Fugitive emissions shall also be controlled by dust suppression and water sprinkling during excavation, handling overburden and its transport and dumping in mine lease area. It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.	<ul style="list-style-type: none"> • Fugitive emissions from all sources are controlled regularly. • Water spray arrangement on haul roads, loading - unloading points and transfer points are provided and properly maintained. • Proper maintenance of haul roads is done by road-grader and compacter. • Ambient air quality parameters are well within the norms prescribed by the CPCB.
(ix)	Secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry and regular monitored. Guidelines/ code of practice issued by the CPCB shall be followed.	<ul style="list-style-type: none"> • Secondary fugitive emissions from all sources are controlled within the latest permissible limits issued by the CPCB and monitored regularly.
(x)	Asphalting/concreting of roads and water spray all around the critical areas prone to air pollution and having high levels of SPM and RPM shall be ensured.	<ul style="list-style-type: none"> • All the roads are concreted and water spray arrangement provided on all kuchha areas in mine and at all the raw material unloading points. • Regular water spraying is being done at the limestone & coal handling area to control the fugitive emission.
(xi)	Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land. All the raw materials including fly ash shall be transported in the closed containers only and should not be overloaded. Vehicular emissions shall be regularly monitored.	<ul style="list-style-type: none"> • Cement is transported in covered vehicles. • Fly ash is being transported in the closed containers and bulkier. • All vehicles used in transportation are loaded as per the capacity.
(xii)	Vehicular emissions shall be regularly monitored. 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 vehicles shall be covered with a tarpaulin and shall not be overloaded.	<ul style="list-style-type: none"> • Vehicular emission is under control and regularly monitored by authorized agency. • For proper maintenance of HEMM, workshop is established at the site.
(xiii)	Total ground water requirement shall not exceed 3,800 m ³ /day as per the permission accorded by Central Ground Water Authority (CGWA) vide letters dated 28 th November,2008 and 19 th October,2009. The water stored in the artificial reservoir made in the mine pit shall be used to meet additional water requirement for the expansion and to reduce fresh ground water consumption. No effluent shall be discharged from the mine to any water body or nearby river. Efforts shall	<ul style="list-style-type: none"> • Ground water consumption is within 3800 m³/day. • Domestic waste water generated from office toilets, guest house and canteen is treated in STP. • Waste water generated from CPP is being used for ash quenching. • Wastewater generated from mines workshop is being used for dust suppression after removing the oil & grease traces. • There is no generation of effluent water from cement plant process. • There is no waste water discharge outside the plant premises.

	be made to use water efficient technology like air-cooled condensers to captive power plant to conserve water. The effluent from demineralization plant of captive power plant shall be neutralized in neutralization pit and recycled/reused in the process and other plant related activities i.e. cooling, ash quenching, dust suppression and green belt development etc. Workshop discharge from mine shall be passed through oil/grease water separator tank for separation of oil and soil contents. The clear water shall be used in crusher for dust suppression. 'Zero' discharge shall be strictly adopted and no effluent from the process shall be discharged outside the premises.	
(xiv)	No waste water shall be discharged from the mine to any nearby water body including river and provision shall be made to avoid excess entry of rain water in mine pits by preparing garland drains.	<ul style="list-style-type: none"> Wastewater generated from mines workshop is being used for dust suppression after removing oil & grease traces.
(xv)	Rain water harvesting measures shall be adopted for the augmentation of ground water at cement plant, colony and mine site. Besides company must also harvest the rain water from the rooftops and storm water drains to recharge the ground water. The company must also collect rain water in the mined out pits of captive lime stone mine and use the same water for the various activities of the project to conserve fresh water and reduce the water requirement pressure from the river. The company shall construct rain water harvesting and ground water recharge structures outside the plant premises also in consultation with Local Gram Panchayat and Village heads to augment the ground water level. An action plan shall be submitted to Ministry's Regional Office at Lucknow within 3 months from date of issue of this letter.	<ul style="list-style-type: none"> We have constructed anicuts, check dams, diversion channels & ponds to recharge ground water. Several artificial recharge structures (desilting & filter pits) are constructed at dug well, bore wells in side the plant premises to augment / recharge the ground water in consultation with the CGWA. At present the mining is being done at the top of the hill and mining pit has been developed, so during course of mining , the rain water collected in pits shall be utilized in mining and cement plant activities. We received suggestions for construction of rain water harvesting structures in near by villages from Gram Panchayat RAS vide letter dated: 17/9/2008. Accordingly we have carried out site survey and constructed the structures in nearby areas. As per suggestions for construction of rain water harvesting structures in near by villages from Gram Panchayat RAS and head of near by villages for the year FY 2011-12, we are in the process of constructions of farm bunding and desilting of constructed anicuts. (See Annexure-1)
(xvi)	Domestic effluent shall be treated in Sewage Treatment Plant (STP) in colony and in septic pits followed by soak pits in mine lease area. All the treated wastewater shall be used for gardening/agricultural purposes and dust suppression. Domestic waste from colony and STP shall be segregated into bio-degradable and non-biodegradable. Bio-degradable waste shall be composted and non-biodegradable waste shall be disposed off in environment friendly manner or filled at identified sites only after proper treatment. Effluent Treatment Plant (ETP) shall also be provided for workshop and mineral separation plant for the treatment of waste water.	<ul style="list-style-type: none"> STP (Sewage treatment plant) has been installed and domestic waste water is being treated in it. All the treated wastewater is used for gardening and dust suppression. Waste water generated from CPP is being used for ash quenching. There is no generation of effluent water from cement plant process.
(xvii)	Detailed hydrological study shall be carried out and implementation of recommendations of the detailed hydrological study shall be ensured.	<ul style="list-style-type: none"> A detailed hydrological study has been carried out by external agency. Report has been submitted to CGWA and MOE&F during seeking the permission and EC. Implementation of recommendations of the study is under progress.
(xviii)	Regular monitoring of ground water level and quality shall be carried out by establishing a network of existing wells and constructing new piezometers at suitable locations by the project proponent in and around project area in consultation with Regional Director, Central	<ul style="list-style-type: none"> Network of existing well and bore well has been established for ground water monitoring. Monitoring of ground water quality and level are being carried out regularly as per the guideline of CGWA. The monitoring data for the year of 2010 have been submitted

	Ground Water Board. The frequency of monitoring shall be four times a year – pre-monsoon (April/May), monsoon (August), post-monsoon (November), and winter (January). Data thus collected shall be sent at regular intervals to Ministry of Environment and Forests and its Regional Office at Lucknow, Central Ground Water Authority and State Ground Water Board, Lucknow, U.P.	to the CGWA Detail is given as Annexure-2
(xix)	The project proponent shall ensure that no natural water course shall be obstructed due to any mining operations and shall take appropriate mitigative measures to prevent pollution of nearby River and other surface water body, if any.	<ul style="list-style-type: none"> • There is no obstruction in natural water course due to mining and same will be maintained in future.
(xx)	Catch drains and siltation ponds of appropriate size shall be constructed for the working pit, inter burden and mineral dumps to arrest flow of silt and sediment. The water so collected shall be utilized for watering the mine area, roads, green belt development etc. the drains shall be regularly desilted, particularly after monsoon, and maintained properly.	<ul style="list-style-type: none"> • Check dams & siltation pond have been made across the surface run-off through and drains from mining area to arrest silt & sediments.
(xxi)	Garland drain of appropriate size, gradient and length shall be constructed for both mine pit and inter burden dumps and sump capacity shall be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 year data) and maximum discharge in the area adjoining the mine site. Sump capacity shall also provide adequate retention period to allow proper settling of silt material. Sedimentation pits shall be constructed at the corners of the garland drains and desilted at regular intervals.	<ul style="list-style-type: none"> • Garland drains all around the waste dump yard have been made. At present mining is on the hill, above the general ground level.
(xxii)	The void left unfilled in the mining area shall be converted into water body. The higher benches of excavated void/mining pit shall be terraced and plantation done to stabilize the slopes. The slope of higher benches shall be made gentler for easy accessibility by local people to use the water body. Peripheral fencing shall be carried out along the excavated area.	<ul style="list-style-type: none"> • Yes, the void left unfilled shall be converted into water body. • Higher benches of the excavated pit/voids will be terraced and plantation will be done to stabilize the slopes. • Slope of higher benches shall be made gentler for easy accessibility by local people to use water body. • Peripheral fencing is made along the excavated area.
(xxiii)	Regular monitoring of ground water level and quality shall be carried out by establishing a network of existing wells and constructing new piezometers at suitable locations by the project proponent in and around project area in consultation with Regional Director, Central Ground Water Board. The frequency of monitoring shall be four times a year – pre-monsoon (April/May), monsoon (August), post-monsoon (November), and winter (January). Data thus collected shall be sent at regular intervals to Ministry of Environment and Forests and its Regional Office at Lucknow, Central Ground Water Authority and State Ground Water Board, Lucknow, U.P.	<ul style="list-style-type: none"> • Network of existing well and bore well has been established for ground water monitoring. • Monitoring of ground water quality and level are being carried out regularly as per the guideline of CGWA. • The monitoring data are being submitted to CGWA and Ministry.
(xxiv)	Dimension of the retaining wall of the toe of inter burden dumps and inter burden benches within the mine to check run-off and siltation shall be based on the rainfall data.	<ul style="list-style-type: none"> • Garland drains with siltation pond are made to check the surface run-off & silt.

(xxv)	Suitable conservation measures to augment ground water resources in the area shall be planned and implanted in consultation with Regional Director, Central Ground Water Board.	<ul style="list-style-type: none"> Anicuts, check dams, diversion channels & talab have been constructed to recharge ground water. Artificial recharge structures (desilting & filter pits) have been constructed with dug wells and bore wells in side the plant premises to augment / recharge the ground water in consultation with the CGWB.
(xxvi)	All the bag filter dust, raw meal dust, coal dust, clinker dust and cement dust from pollution control devices shall be recycled and reused in the process and used for cement manufacturing. Fly ash and bed ash shall also be reused in cement manufacturing. Waste oil and grease shall be provided to the authorized recyclers/reprocessors.	<ul style="list-style-type: none"> Dust from pollution control equipments is being recycled and reused in the process and used for cement manufacturing. Fly ash and bed ash generated from the power plant is being used in cement manufacturing process. Waste / used oil is being sold to the authorized recyclers/reprocessors only.
(xxvii)	All the fly ash shall be utilized as per Fly Ash notification, 1999 subsequently amended in 2003. Efforts shall be made to use fly ash maximum in making Pozollona Portland Cement (PPC). Fly ash shall be stored in silos and other materials in covered sheds.	<ul style="list-style-type: none"> Fly ash generated from the CPP is stored in silo and 100% being utilized in existing cement plant.
(xxviii)	An effort shall be made to use of high calorific hazardous waste in the cement kiln and necessary provision shall be made accordingly.	<ul style="list-style-type: none"> Application for use of CETP sludge of Pali is pending with CPCB & RPCB. Trial run study of use of CETP sludge of Jodhpur & organic waste has been completed. CPCB permission is awaited.
(xxix)	Efforts shall be made to use low grade lime, more fly ash and solid waste in the cement manufacturing.	<ul style="list-style-type: none"> Already using low grade limestone, more fly ash and solid waste in the cement manufacturing. More efforts are continues.
(xxx)	Mechanized open casting shall be adopted and no change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment & Forests.	<ul style="list-style-type: none"> Mechanized open casting mining is in practice. We shall take prior approval from Ministry of Environment & Forests before change in mining technology and scope of working.
(xxxi)	Wet drilling blasting method shall be adopted to control ground vibration and noise and provision for the control air emissions during blasting using dust collectors etc. shall be made. Blasting operation shall be carried out during the day time only and one bench at a time shall be blasted. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders shall be implemented. 'No Objection Certificate' from the Chief Controller of Explosives shall be obtained.	<ul style="list-style-type: none"> Wet drilling is being done by drill machine. Only day time blasting is in practice. Controlled blasting is being done by using shock tube detonators during day time to control noise level, vibration, & fly rock etc.
(xxxii)	Blasting operation shall be carried out only during the day time. Controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders shall be implemented.	<ul style="list-style-type: none"> Controlled blasting is being done by using shock tube detonators during day time to control noise level, vibration, & fly rock etc.
(xxxiii)	Bench height, width and slope for individual bench shall be properly assessed and implemented. Adequate measures shall be adopted to stabilize the slope before abandonment. The fencing around the reservoir shall be provided to prevent accidents.	<ul style="list-style-type: none"> Bench height, width and slope of individual bench is maintained as per the approved mining scheme. We shall take adequate measures to stabilize the slope before abandonment. Fencing is provided around the reservoir.
(xxxiv)	Action plan for the mining management of overburden (removal, storage, disposal etc.), reclamation of mined out area and mine closure shall be submitted to the Ministry and its Regional Office at Lucknow.	<ul style="list-style-type: none"> Action plan for the mining management of overburden has been submitted to the Ministry and its Regional Office, Lucknow.
(xxxv)	Top soil, if any shall be stacked with proper slope at earmarked site(s) only with adequate measures and shall be used for reclamation and	<ul style="list-style-type: none"> There is no top soil. Limestone is exposed on surface. Interstitial clay sorted through grizzly is being stacked separately and used for road making and also will be used for

	rehabilitation of mined out areas. The area for external over burden dump shall be reduced by suitably increasing the height of the dumps with proper terracing. It shall be ensured that the overall slope of the dump does not exceed 28°.	reclamation of land when required. <ul style="list-style-type: none"> At present waste dump yards are active, on completion of active dumps, we will maintain 28° slope of the dump.
(xxxvi)	The inter burden and other waste generated shall be stacked at earmarked dump site(s) only and shall not be kept active for long period. The total height of the dumps shall not exceed 30 m in three terraces of 10 m each and the overall slope of the dump shall be maintained to 28°. The inter burden dumps shall be scientifically vegetated with suitable native species to prevent erosion and surface run-off. Over burden from the mine shall be backfilled in the mined out area. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment & Forests and its Regional Office at Lucknow on six monthly basis.	<ul style="list-style-type: none"> OB is being stacked on ear marked sites only. At present waste dump yards are active. Plantation along the slope of the dump shall be done on maturity. Sedimentation pits have been made for two waste dump yards at the corners of the garland drains. Check dams have been made across the surface run-off through and drains before final disposal. OB is dumped on ear marked sites & strictly follows in future also up to 68 ha.
(xxxvii)	The project proponent shall modify the mine plan of the project at the time of seeking approval for the next mining scheme from the Indian Bureau of Mines so as to reduce the area for external over burden dump by suitably increasing the height of the dumps with proper terracing. It shall be ensured that the overall dump does not exceed 28°.	<ul style="list-style-type: none"> Yes, we are working as per the approved mining plan from IBM. At the time of maturity of overburden dump the ultimate slop will be 28°.
(xxxviii) i)	Dimension of the retaining wall at the toe of inter burden dumps and inter burden benches within the mine to check run-off and siltation shall be based on the rainfall data.	<ul style="list-style-type: none"> Garland drains with siltation pond are made to check the surface run-off & silt.
(xxxix)	A Risk and Disaster Management Plan along with the mitigation measures shall be prepared and a copy submitted to the Ministry's Regional Office at Lucknow, RSPCB and CPCB within 3 months of issue of environment clearance letter.	<ul style="list-style-type: none"> Risk and Disaster Management Plan along with the mitigation measures has been revised and sent to factory inspector for approval. We will submit it after approval.
(xl)	A final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval.	<ul style="list-style-type: none"> We shall submit 5 years in advance of final closure of mine.
(xli)	As proposed, green belt shall be developed in at least 33% in cement plant and all the mined out area except used for reservoir as per the CPCB guidelines in consultation with local DFO to mitigate the impact of fugitive emissions. A thick green belt shall also be developed all around the mine area. A long term action plan for the plantation/afforestation/ green belt development etc. shall be prepared and submitted to the Ministry and its Regional Office at Lucknow and implemented. Further efforts shall be made to maintain the area properly already afforested.	<ul style="list-style-type: none"> At present total plant area is 187.56 hectare and plantation has been carried out in 63.8 hectare which is 34% of the total land.
(xlii)	The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with	<ul style="list-style-type: none"> The Mining lease doesn't falls under forest area, hence not applicable.

	the State Forest and Wildlife Department. Necessary allocation of 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 within three months from the date of issue of this letter.	
(xlili)	Rehabilitation and resettlement plan for the project affected population including tribal, if applicable, shall be implemented as per the Policy of State Govt. in consultation with the State Govt. of Rajasthan. Conservation paid in any case shall not be less than the norms prescribed under the national Resettlement and Rehabilitation Policy, 2007.	<ul style="list-style-type: none"> • There were no any inhabitants present at the project site, hence & R plan is not applicable.
(xliv)	'Permission' and 'Recommendations' of the State Forest department regarding impact of cement plant and mining activities on the surrounding reserve forests, if any, shall be obtained and implemented. Further, Conservation Plan for the conservation of wild fauna in consultation with the State Forest Department shall be prepared and implemented.	<ul style="list-style-type: none"> • There are no reserve forests near project activity, hence not applicable.
(xlv)	The company shall obtain necessary clearances/approval from the concerned Department i.e. Indian Bureau of Mines, State Government, MoEF etc. for the linked mining component before undertaking any construction activity at the project site.	<ul style="list-style-type: none"> • Yes, we have mining lease and approval mining scheme from IBM.
(xlvi)	All the safety norms stipulated by the Director General, Mines & Safety (DGMS) shall be implemented.	<ul style="list-style-type: none"> • Yes, we are working as per safety norms stipulated by the Director General, Mines & Safety (DGMS).
(xlvii)	'Consent to Operate' shall be obtained from RSPCB before starting enhances production from the mine.	<ul style="list-style-type: none"> • We have obtained the consent to operate for enhance the production from RSPCB for mine.
(xlviii)	Acoustic enclosures shall be provided to control noise wherever necessary. Mine machine shall be provided with silencers. Noise shall also be controlled from cooler fans, compressor house, cement mill and raw mill, cement plant and drilling machines, excavator, blasting at mine site using appropriate noise control measures.	<ul style="list-style-type: none"> • Appropriate noise control measures have been taken to control noise level within the prescribed limit.
(xlix)	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel plants shall be implemented.	<ul style="list-style-type: none"> • All CREP conditions for the Cement plants and Power plants are implemented and followed.
(l)	The company shall comply with the commitments made during public hearing held on 9 th December, 2009 and a separate budget for implementing the same shall be allocated and information submitted to the Ministry's Regional Office at Lucknow.	Social welfare activities in the nearby area are the on going programme. Company is organizing many social welfare activities related to education, child care, medical, women empowerment, roads construction and other infrastructure development in the nearby villages. However the suggested social welfare works during public hearing are being implemented in villages.
(li)	At least 5 % of the total cost of the project shall be earmarked towards the corporate social responsibility and item-wise details along with time bound action plan shall be prepared and submitted to the ministry's Regional Office at Lucknow. Implementation of such program shall be ensured accordingly	<ul style="list-style-type: none"> • Company is engaged in extensive social welfare works under CSR activities. The amount expended on social welfare activities for the quarter end on 30th September is INR 1.26 crores.

	in a time bound manner.	
(lii)	The company shall provide housing for 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, creche etc. the housing may be in the form of temporary structures to be removed after completion of the project.	<ul style="list-style-type: none"> All necessary facilities have been provided to construction labours.
	General Conditions	
(i)	The project authority shall adhere to the stipulations made by Rajasthan State pollution Control Board (RSPCB) and State Government	<ul style="list-style-type: none"> Yes, We are complying with all the stipulation made by the RSPCB and state govt.
(ii)	No further expansion or modification of the plant shall be carried out without prior approval of this Ministry.	<ul style="list-style-type: none"> Yes, for further expansion we shall take prior approval from MOE&F.
(iii)	The gaseous and particulate matter emissions from various units shall conform to the standards prescribed by the RSPCB. At no time, particulate emissions from the cement plant including kiln, coal mill, cement mill, cooler shall exceed beyond the permissible limit. Interlocking facility shall be provided in the pollution control equipment so that in the event of the pollution control equipment not working, the respective unit(s) is shutdown automatically.	<ul style="list-style-type: none"> Stack emission level is less than 50 mg/Nm³. Opacity meters are installed with the stacks of Raw mill & kiln, coal mill, cement mill, and clinker cooler stack. Yes, interlocking facility is provided.
(iv)	At least four ambient air quality monitoring stations shall be established in the down wind direction as well as where maximum ground level concentration of SPM, SO ₂ and NO _x are anticipated in consultation with the RSPCB. Ambient air quality including ambient noise levels shall not exceed the standards stipulated under EPA or by the State Authorities. Monitoring of ambient air quality and stack emissions shall be regularly submitted to this Ministry including its Regional Office at Lucknow, RSPCB and CPCB once in six months. The instruments used for ambient air quality monitoring shall be calibrated time to time.	<p>We have established four ambient air quality-monitoring stations at our plant premises as suggested by the Regional office of RSPCB.</p> <p>Data on ambient air quality and stack emission are being carried out regularly and result of which submitted monthly to the RSPCB and six monthly to the Ministry & CPCB-Bhopal.</p> <p>Data of ambient air quality and stack emissions are given as annexure-3 & 4 respectively.</p>
(v)	Industrial waste water shall be properly collected and 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 waste water shall be utilized for plantation purpose.	<ul style="list-style-type: none"> There is no any wastewater generation from cement plant process. Wastewater generated from CPP is used for fly ash quenching. Wastewater generated from mines workshop is used for dust suppression after removing the oil & grease traces.
(vi)	The overall noise levels in and around the plant area shall be kept well 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 shall conform to the standards prescribed under Environmental (protection) Act,1986 Rules,1989 viz. 75 dBA (day time) and 70 dBA (night time).	<ul style="list-style-type: none"> We are maintaining overall noise level in and around the plant area well within the prescribed standards (85 dB (A)). (See annexure-5) The ambient noise levels are well within the standards prescribed under EPA Rules viz 75 dB (A) (Day time) and 70 dB (A) (Night time.) (see annexure-6)
(vii)	Proper house keeping and adequate occupational health programmes shall be taken up. Occupational health surveillance	<ul style="list-style-type: none"> Proper housekeeping and adequate occupational health programme is being taken up. Occupational Health Surveillance programme is being done on

	programme shall be done on a regular basis and records maintained properly at least 30-40 years. The programme shall include lung function and sputum analysis tests once in six month. Sufficient preventive measures shall be adopted to avoid direct exposure to dust.	regular basis and record of the same is maintained as per Factories Act. <ul style="list-style-type: none"> Personal protective equipments/devices are provided to all the persons to avoid direct exposure to dust. 						
(viii)	The company shall harvest the rainwater from the roof tops 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.	<ul style="list-style-type: none"> Rain water harvesting structures have been constructed inside plant premises. 						
(ix)	The company shall undertake eco-development measures including community welfare measures in the project area.	<ul style="list-style-type: none"> Green belt development is our on going programme and also we have a separate CSR (Corporate Social responsibility) Cell to work for community welfare activities in surrounding villages for development of education, health, infrastructure, women empowerment, natural resource management and various religious activities. 						
(x)	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP.	<ul style="list-style-type: none"> Yes, we are complying with EIA/EMP. 						
(xi)	A separate environmental management cell with full fledged laboratory facilities to carry out various management and monitoring functions shall be set up under the control of Senior Executive.	<ul style="list-style-type: none"> We have separate environment management cell with full fledged laboratory to carry out various management and environment monitoring functions has been set up under the control of senior executive. 						
(xii)	As proposed Rs.55.00 Crores and Rs. 0.75 Crores earmarked towards the capital cost and recurring cost/per annum for the environment pollution control measures shall be used judiciously to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. Time bound implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Ministry. The funds so provided shall not be diverted for any other purposes.	<ul style="list-style-type: none"> All the pollution control measures have been installed. The last three years recurring cost for the environment pollution control is given as below- <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>2008-09</th> <th>2009-10</th> <th>2010-11</th> </tr> </thead> <tbody> <tr> <td>245.07 Lacs</td> <td>361.66 Lacs</td> <td>576.82 Lacs</td> </tr> </tbody> </table>	2008-09	2009-10	2010-11	245.07 Lacs	361.66 Lacs	576.82 Lacs
2008-09	2009-10	2010-11						
245.07 Lacs	361.66 Lacs	576.82 Lacs						
(xiii)	A copy of 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 web site of the company by the proponent.	<ul style="list-style-type: none"> Copy of the Clearance Letter has been handed over to Ras Panchayat on 06/03/2010. Environment clearance letter is also available on our website: www.shreecementltd.com 						
(xiv)	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their web site and shall update the same periodically. It shall simultaneously be sent to the Regional office of the MOEF, the respective Zonal Office of CPCB and the RSPCB. The criteria pollutant levels namely; SPM, RSPM, SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	<ul style="list-style-type: none"> Status of compliance of the stipulated environment clearance conditions, including results of monitored data are available on company's web site and we shall update the same periodically. 						
(xv)	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copy as well as e-mail) to the Regional Office of MOEF, the Respective	<ul style="list-style-type: none"> Compliance of the stipulated environment clearance conditions, including results of monitored data are being submitted regularly to the Ministry of Environment and Forests, its Regional Office, Lucknow, Central Pollution Control Board and State Pollution Control Board. 						

	Office of CPCB and the RSPCB. The regional Office of this Ministry at Lucknow/CPCB/RSPCB shall monitor the stipulated conditions.	
(xvi)	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 conditions and shall also be sent to the Regional Office of the MOEF at Lucknow by e-mail.	<ul style="list-style-type: none"> • Every year in the month of September Environment statement is being sent to the concerned authorities.
(xvii)	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 RSPCB and may also be seen at website of the Ministry of Environment and Forest at http://envfor.nic.in . This shall be advertised within seven days from the date of issue of the 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 shall be forwarded to the Regional Office at Lucknow.	<ul style="list-style-type: none"> • We have informed the public that the project has been accorded the environmental clearance by the Ministry of Environment and Forest, Govt. of India by giving advertisement in two leading local news papers namely Rajasthan Patrika dated 06/03/2010 and Dainik Navjyoti dated 06/03/2010. Copy of the same has been submitted to the MOE&F and board.
(xviii)	Project authorities shall 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.	<p>The date of commissioning of various units is given as below:</p> <p>Cement plant Unit-III : 2005 Cement plant Unit-IV : 2007 Clinker Unit-V : 2007 Clinker Unit-VI : 2008 Clinker Unit-VII : 2009 Clinker Unit-VIII : 2010 CPP 80 MW : 2007 –2008 CPP 100 MW : 2010 Waste heat recovery power plant : 2010 Nimbeti Limestone mine : Since 1997</p>
(xix)	The Regional Office of this Ministry at Lucknow/CPCB/RSPCB shall monitored the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.	<ul style="list-style-type: none"> • We extend our full co-operation to the Officers of the Regional Office and furnished all requisite data time to time and shall be extend full co-operation in future also. • Compliance of the stipulated environment clearance conditions, including results of monitored data are being submitted regularly to the Ministry of Environment and Forests, its Regional Office, Lucknow, Central Pollution Control Board and State Pollution Control Board.

Annexure-1

S. NO.	Watershed development & Construction of Anicuts	Expenses incurred (in Rs.)
Year 2010-2011		
1	Construction of anicut in Bagatpura village	151259
2	Construction of anicut in Bhingarh village	213357
3	Construction of anicut in Kanyakhedi village	165488
4	Rooftop water harvesting in 12 schools	708999
5	Construction of Rapat (Nimbeti to Jawangarh village)	257666
Year 2009-2010		
1	Watershed development project for all villages	217611
2	Small check dam/Anicut, Village Nimbeti	84659
3	Construction of anicut in Nimbeti river	250000
4	Construction of anicut in Kheda Village	95000
5	Construction of anicut in Bhingarh Village	88484
6	Pal construction at Anicut Nimbeti river	62475
Year 2008-2009		
7	Construction/Repairing of anicut in Nimbeti village	99759
8	Jawangarh Anicut	92790
9	Bhairav Ji Dhani Anicut Jawangarh Anicut	87841
		TOTAL Rs. 2575388.00

Annexure-2 Ground water quality (Year-2010) :-

Ground water level in meter below ground level (Year-2010)

S.No	Location of well □	Season□	Winter (Jan.,10)	Pre-Monsoon (May.,10)	Monsoon (August.,10)	Post-Monsoon (Nov.,10)
1	B/W Near Old Mines Office (Within Plant Area)		19.5	20.0	16.2	16.9
2	O/W Jasanath Ji ki Mandi (Out side plant Area)		23.3	24.0	20.7	21.2

S.N	Location of Well□	B/W within Plant Area Near Old Mines Office				O/W out side plant Area Jasanath Ji ki Mandi				
	Parameters□	Season	Winter (Jan.,10)	Pre-Monsoon (May.,10)	Monsoon (August.,10)	Post-Monsoon (Nov.,10)	Winter (Jan.,10)	Pre-Monsoon (May.,10)	Monsoon (August.,10)	Post-Monsoon (Nov.,10)
1	pH		7.03	7.01	7.59	7.72	7.73	8.19	7.91	7.65
2	Turbidity (NTU)		1.6	0.48	3.8	3.2	3.1	1.08	3.8	4.6
3	Total Hardness	mg/l	451	538	472	484	209	240	233	227
4	Alkalinity	mg/l	273	290	309	283	284	320	296	286
5	Iron	mg/l	0.34	0.29	0.32	0.36	0.27	0.1	0.37	0.32
6	Chloride	mg/l	357	394	408	382	211	170	316	295
7	TDS	mg/l	1143	1410	1586	1429	914	704	1096	993
8	Calcium	mg/l	139	175	154	132	95	64	119	104
9	Magnesium	mg/l	27	36	29	25	23	19	29	25
10	Sulphate	mg/l	68	80	138	122	127	52	159	143
11	Nitrate	mg/l	9	3	19	14	2	Nil	5	10
12	Fluoride	mg/l	1.06	1.10	1.02	1.0	0.73	0.80	0.77	0.63

Annexure-3- Ambient air quality at plant boundary (All Values in $\mu\text{g}/\text{m}^3$)

Location	Near Main Gate				Near Mess				Towards Stacker & Reclaimer				Towards Vill: Khera & Jawangarh			
	PM 10	PM 2.5	SO ₂	NO _x	PM 10	PM 2.5	SO ₂	NO _x	PM 10	PM 2.5	SO ₂	NO _x	PM 10	PM 2.5	SO ₂	NO _x
Month																
Apr-11	49	32	8.5	9.6	46	33	8.1	9.7	49	32	8.0	9.2	50	28	8.3	9.7
May-11	65	37	8.5	9.6	54	31	8.2	9.7	63	41	8.1	9.2	54	26	8.3	9.6
Jun-11	54	33	8.7	9.8	51	29	8.9	10.0	58	34	8.7	9.6	50	35	8.6	9.2
Jul-11	51	30	8.3	11.0	54	31	8.3	10.7	54	27	10.3	10.8	51	29	8.5	11.2
Aug-11	51	30	8.3	11.0	54	31	8.3	10.7	54	27	10.3	10.8	51	29	8.5	11.2
Sep-11	49	29	8.2	11.2	50	28	8.1	10.9	48	28	8.0	11.1	47	30	8.3	11.2

Annexure-4 Stack emission level (All values mg/Nm³)

Units	Location of Stack □ Month □	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11
Cement Plant Unit-III	Raw mill & Kiln ESP Stack	32	41	44	40	31	41
	Coal mill Bag House Stack	44	34	34	27	23	36
	Cooler ESP Stack	25	37	38	29	29	26
	Cement mill Bag House Stack	35	28	29	24	33	27
Cement Plant Unit-IV	Raw mill & Kiln ESP Stack	31	43	43	39	46	37
	Coal mill Bag House Stack	22	36	32	28	37	30
	Cooler ESP Stack	27	37	31	27	31	31
	Cement mill Bag House Stack	33	28	30	25	29	33
Cement Plant Unit-V	Raw mill & Kiln ESP Stack	46	44	43	40	41	40
	Coal mill Bag House Stack	29	32	32	28	25	38
	Cooler ESP Stack	24	38	35	25	42	31
Cement Plant Unit-VI	Raw mill & Kiln ESP Stack	38	45	40	38	29	43
	Coal mill Bag House Stack	26	32	38	24	30	34
	Cooler ESP Stack	29	40	39	27	29	33
Cement Plant Unit-VII	Raw mill & Kiln ESP Stack	26	44	43	39	34	36
	Coal mill Bag House Stack	40	31	37	26	26	38
	Cooler ESP Stack	31	34	33	32	31	35
Cement Plant Unit-VIII	Raw mill & Kiln ESP Stack	N.A.	N.A.	N.A.	N.A.	40	44
	Coal mill Bag House Stack	N.A.	N.A.	N.A.	N.A.	27	35
	Cooler ESP Stack	N.A.	N.A.	N.A.	N.A.	25	39
Captive Power Plant	Boiler-I ESP Stack	30	33	35	N.A.	N.A.	46
	Boiler-II ESP Stack	40	39	40	N.A.	N.A.	N.A.
	Boiler- III ESP Stack	45	39	38	37	N.A.	N.A.
	Boiler- IV ESP Stack	30	32	39	N.A.	N.A.	N.A.
	Boiler- V ESP Stack	28	34	42	N.A.	N.A.	N.A.
	Boiler- VI ESP Stack	36	38	39	33	42	36
	Boiler- VII ESP Stack	27	31	41	28	32	41

Annexure-5 Noise level within Plant Area: all values in dB (A)

S.No	Month	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11
	Location						
1	Raw Mill Area	79.8	79.8	78.5	81.7	82.5	82.5
2	Coal Mill Area	82.1	77.2	79.2	80.1	77.3	78.6
3	Cooler Area	79.6	81.5	82.1	81.9	83.5	82.4
4	Cement Mill Area	81.5	78.9	80.2	82.1	84.5	78.9
5	Compressor House	81.6	77.5	78.1	82.9	83.5	84.2
6	Packing Plant Area	82.6	80.2	78.4	74.8	79.6	77.9
7	Boiler Area	84.2	81.4	82.5	82.5	82.0	82.0
8	Turbine House Area	78.3	79.8	78.8	82.4	83.1	83.1

Annexure-6 Ambient noise level at Plant Boundary (Common for Cement plant & Power plant) : all values in dB (A)

Location	Near Main Gate		Near Mess		Towards Stacker & Reclaimer		Towards Vill : Khera & Jawangarh	
	Day	Night	Day	Night	Day	Night	Day	Night
Month								
Apr-11	70.0	50.6	63.4	54.7	59.8	52.8	67.3	52.2
May-11	71.2	52.8	64.8	55.4	59.6	58.8	65.2	54.7
Jun-11	70.2	52.4	65.8	54.8	57.7	54.9	66.3	52.8
Jul-11	72.6	57.4	67.8	54.8	59.7	56.4	71.4	54.7
Aug-11	72.6	57.4	67.8	54.8	59.7	56.4	71.4	54.7
Sep-11	71.5	57.4	67.8	55.2	60.1	57.8	72.1	57.6