

O/C ENVT

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# SHREE CEMENT LTD.

Regd. Office:

BANGUR NAGAR, POST BOX NO.33, BEAWAR 305 901, RAJASTHAN, INDIA



SCL/ENV/Shyamgarh Mines/2018-19/ 3571

Date:-24/05/2018

To,  
The Director,  
Ministry of Environment & Forest,  
Regional office (Central Region),  
Kendriya Bhawan, 5th Floor Sector 'H' Aliganj,  
Lucknow (U.P.), Pin-226024.

Sub:- Compliance of conditions of environmental clearance letter of Shyamgarh Limestone Mines of M/s Shree Cement Limited located near village Shyamgarh-Neemgarh Tehsil-Masuda, District-Ajmer (Rajasthan).

Ref: - Environment Clearance Letter No. J-11011/195/2009-IA-II(I) dated 04/11/2010.

Dear Sir,

In 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 for the period from, Oct 17 to Mar 18.

This is for your kind information please.

Thanking you,

Yours faithfully,

For Shree Cement Ltd.

(Rakesh Bhargava)

Vice President (Environment)

- Cc to:-
1. The Director (IA Div.-Thermal Power), Ministry of Environment & Forests Indra Paryavaran Bhavan, Jorbag Road, New Delhi-110003
  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).

JAIPUR OFFICE : SB-187, Babu Nagar, Opp. Rajasthan University, JLN Marg, Jaipur-302 015  
Phone : 0141 4241200, 4241204, Fax : 0141 4241219

NEW DELHI OFFICE : 122-123, Hans Bhawan, 1, Bahadurshah Zafar Marg, New Delhi 110002  
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CORP. OFFICE : 21, Strand Road, Kolkata 700 001 Phone : 033-22309601-4 Fax : 033 22434226



**COMPLIANCE OF CONDITIONS OF ENVIRONMENT CLEARANCE LETTER NO.-J-11011/195/2009-IA  
II(1) dated 04/11/2010 OF SHYAMGARH LIMESTONE MINES OF M/S. SHREE CEMENT LIMITED,  
BEAWAR-AJMER(RAJASTHAN)**

**PERIOD OF COMPLIANCE LETTER: Oct 17 to March 18**

<b>S. NO.</b>	<b>Conditions</b>	<b>Compliance Status</b>
<b>A.</b>	<b>Specific Conditions</b>	
(i)	Compliance to all the specific and general conditions stipulated for the existing plant by the Central/State Government shall be ensured and regular reports submitted to the Ministry and its Regional Office at lucknow	All recommendations shall be implemented along with the plant commissioning.
(ii)	Continuous monitoring system to monitor gaseous emissions shall be provided and limit of SPM should be controlled within 50 mg/Nm <sup>3</sup> by installing adequate air pollution control system and energy efficient technology.	All measures shall be taken
(iii)	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 should be followed.	All measures are being taken
(iv)	Secondary fugitive emission from all the sources shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines/Code of practice issued by the CPCB shall be followed.	All measures are being taken
(v)	Asphalting/concreting of road and water spray all around the critical areas prone to air pollution and having high levels of SPM and RPM should be ensured.	Movement to mine office & workshop shall be made cemented and water sprinkling arrangements shall be provided at loading, unloading points and on haul roads.
(vi)	Efforts should be made to reduce the 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 should be transported in the closed containers only and should not be overloaded. Vehicular emission shall be regularly monitored.	Transportation of raw materials is being done in closed containers without overloading. Vehicular emission shall be monitored regularly.
(vii)	Total water requirement for proposed expansion shall not exceed 4,450 m <sup>3</sup> /day. Rainwater harvesting measures shall be adopted for the augmentation of ground water at cement plant, colony and mines site. The company must also collect rain water in the mined out pits of captive limestone 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. An action plan shall be submitted to the Ministry's Regional Office at Lucknow within 3 months from the date of issue of the letter.	Rain water harvesting measures, including construction of check dam and roof top rain water harvesting in and around shall be implemented for augmentation of ground water resources. Yes, we will collect water in mines pit.
(viii)	The project proponent shall ensure that no natural water course shall obstructed due to any mining operations.	No obstruction in natural water course shall be ensured due to mining operations.
(ix)	Catch drains and siltation ponds of appropriate size shall be constructed for the working pit, interburden and mineral dumps	Catch drains and siltation ponds shall be constructed. Rain water collected in mine pit will be utilized for plantation, road

	to arrest flow of silt and sediment. 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 monsoon, and maintained properly.	spray and process.
(x)	Garland drain of appropriate size, gradient and length shall be constructed for both the mine pit and inter burden dumps and sump capacity should be designed keeping 50 % safety margin over and above peak sudden rainfall(based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt material. Sedimentation pits should be constructed at the corners of the garland drains and desilted at regular intervals.	Garland drain along with Sedimentation pits shall be constructed for both mine pit and interburden dumps.
(xi)	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 should 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.	Regular monitoring of ground water level and quality is being carried out by a network of existing wells.
(xii)	Dimensions of retaining wall at the toe of inter burden dumps and inter burden benches within the mine to check run-off and the siltation should be based on the rainfall data.	Retaining wall having suitable dimensions at the toe of inter burden dumps and inter burden benches will be provided to check the run-off and siltation.
(xiii)	Suitable conservation measures to augment ground water resources in the area should be planned and implemented in consultation with Regional Director, Central Ground Water Board	Rain water harvesting measures, including construction of check dam and roof top rain water harvesting in and around shall be implemented for augmentation of ground water resources.
(xiv)	All the bag filter dust, raw mill dust, coal dust and cement dust from pollution control devices shall be recycled and reused in the process and used for cement manufacturing.	All recommendation shall be implemented along with the plant commissioning.
(xv)	An effort shall be made to use high calorific value of hazardous waste in the cement kiln and necessary provision shall be made accordingly.	High calorific value hazardous waste available in the area shall be utilized as alternative raw material and fuel in kiln.
(xvi)	Efforts shall be made to use low grade lime, more fly ash and solid waste in the cement manufacturing.	Low grade lime stone shall be blended with high grade limestone. Fly ash will be utilized for manufacturing of PPC.
(xvii)	All the fly ash shall be utilized as per Fly Ash notification,1999 subsequently amended in 2003 and 2010. Efforts shall be made to use fly	Fly ash will be utilized in making Pozollona Portland Cement (PPC) and will be stored in fly ash silo.

	ash maximum in making Pozollona Portland Cement(PPC)	
(xviii)	Risk and Disaster Management Plan along with the mitigation measures should be prepared and a copy should be submitted to the Ministry's Regional Office, Lucknow, SPCB and CPCB within the 3 months of issue of environment clearance letter.	All recommendation shall be implemented along with the plant commissioning.
(xix)	Blasting operation shall be carried out only during the daytime. Controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented. The company shall construct/install artificial barrier around the Shyamgarh Village to prevent from the noise due to blasting and operation of mining equipments.	Controlled blasting will be practiced.
(xx)	Wet drilling blasting method and provision for the control air emissions during blasting using dust collectors etc. shall be used.	Wet drilling and dry drilling with dust extractor arrangement shall be used. Water spray on haul roads shall be practiced.
(xxi)	Bench height, width and slope for individual bench should be properly assessed and implemented. Adequate measures should be adapted to stabilize the slope before abandonment. The fencing around the reservoir shall be provided to prevent accident.	Bench height adequate and width shall be maintained. Adequate measures will be adopted to stabilize the slope. Fencing will be provided to prevent accidents.
(xxii)	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.	Action plan for the mining, management of overburden(removal, storage, disposal etc.) reclamation of mined out area and mine closure will be submitted to the Ministry and its Regional Office at Lucknow
(xxiii)	The inter burden and other waste generated should be stacked at earmarked sump site(s) only and should not be kept active for long period. The total heights of the dumps should not exceed 30 m in three terraces of 10 m each and the overall slope of the dump should be maintained to 28°. The inter burden dumps should be scientifically vegetated with suitable native species to prevent soil erosions and surface run-off. Monitoring and management of rehabilitation areas should be continue until the vegetation becomes self-sustaining. Compliance status should be submitted to the Ministry of Environment & Forest and its Regional Office, Lucknow on six monthly basis.	Inter burden and OB will be stacked at earmarked dump site(s). The total height of the dumps will be 30 m in three terraces of 10 m each and the overall slope of the dump will be maintained to 28°. The inter burden dumps will be vegetated with native species. Compliance status will be submitted to the Ministry of Environment & Forest and its Regional Office, Lucknow on six monthly basis.
(xxiv)	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 overburden dump by suitably increasing the height of the dumps and proper terracing. It should be ensured that overall slope of the dump does not exceed 28°.	Mine plan shall be modified at the time of approval for the next mining scheme to reduce the area for external overburden dump by suitably increasing the height of the dumps with proper terracing. The overall slope of the dump will be maintained to 28°.
(xxv)	The void left unfilled in the mining area shall be converted into water body. The higher	Void left unfilled in the mining area will be converted into water body. Higher benches

	benches of excavated void/mining pit should be terraced and plantation done to stabilize the slopes. The slope of the higher benches should be made gentler for easy accessibility by local people to use the water body. Peripheral fencing shall be carried out along the excavated area.	of excavated void/mining pit will be terraced and plantation will be done to stabilize the slopes. Slope of the higher benches will be made gentler for easy accessibility by local people to use the water body. Peripheral fencing will be carried out along the excavated area.
(xxvi)	Top soil, if any, shall be stacked with proper slope at earmarked site(s) only with adequate measures and should be used for reclamation and rehabilitation of mined out area.	Top soil shall be stacked with proper slope at earmarked site(s) and shall be used for reclamation and rehabilitation of mined out areas.
(xxvii)	As proposed, green belt shall be developed in at least 33% in cement plant and all around the mined out area except used for reservoir. A 50 m wide green belt all around the village Shyamgarh shall be raised.	Green belt shall be developed in 33% of total plant area within 5 years and 53 % of mining lease area at the end of mine life. Native species shall be planted.
(xxviii)	All the safety norms stipulated by the Director General, Mine & Safety (DGMS) should be implemented.	All the safety norms stipulated by the Director General, Mine & Safety (DGMS) shall be implemented.
(xxix)	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the cement plants should be implemented.	Corporate Responsibility for Environment Protection (CREP) for the cement plants shall be implemented.
(xxx)	The company shall comply with the commitments made during public hearing held on 13th Dec,2009 and separate budget for the implementing the same should be allowed and the information submitted to the Ministry's Regional Office at lucknow.	Commitments made during public hearing/public consultation held on 13th Dec,2009 shall be complied.
(xxxii)	At least 5% of the total cost of the project should be earmarked towards the Corporate Social Responsibility (CSR) and itemwise details alongwith time bound action plan should be prepared and submitted to the Ministry's Regional Office at Lucknow. Implementation of such programes should be ensured accordingly in a time bound manner.	Adequate funds are available for the implementation of the conditions stipulated by the Ministry of Environment & Forest as well as the state govt. All recommendation shall be implemented along with the plant commissioning.
(xxxiii)	The company shall provide housing for the construction labour within the site with all the 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 the completion of the project.	Housing, fuel, toilets with soak pits and septic tanks, safe drinking water, medical health care etc. shall be provided to labors.
<b>B.</b>	<b>General Conditions</b>	
<b>S.No.</b>	<b>Conditions</b>	<b>Status</b>
(i)	The project authority shall adhere to the stipulations made by the Rajasthan State Pollution Control Board (RSPCB) and State Government	All recommendation of Rajasthan State Pollution Control Board (RSPCB) and State Government shall be implemented.
(ii)	No further Expansion or modification of plant shall be carried out without prior approval of the ministry.	Prior permission will be taken for further expansion.
(iii)	The gaseous and particulate matter emissions from various units shall conform to the	Emission from the various units shall be well within the prescribed standards by

	prescribed standards 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 shut down automatically	RSPCB. Interlocking shall be provided with pollution control equipment's.
(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 PM, SO <sub>2</sub> and NO <sub>x</sub> 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 shall be carried out regularly in consultation with RSPCB and data on 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.	Data on ambient air quality are well within norms (Report enclosed as annexure 1).
(v)	Industrial wastewater shall be properly collected and 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 wastewater shall be utilized for plantation purpose	Domestic sewage of plant and colony will be treated in STP and treated water will be used for plantation. RO reject water will be used for Synthetic gypsum plant.
(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)	Turbines, compressors and D.G sets shall be installed in close building.  Proper maintenance and lubrication shall be done of all machines to maintain the noise level of 85 dB(A) in plant premises and 75 d(B) (day time) and 70 d(B) (night time) at the plant boundary.  Noise level within the norms report enclosed as Annexure-I.
(vii)	Proper housekeeping and adequate occupational health programmes shall be taken up. Occupational Health Surveillance programme shall be done on a regular basis and records maintained properly for at least 30-40 years. The programme shall include lung function and sputum analysis tests once in six months. Sufficient preventive measures shall be adopted to avoid direct exposure to dust etc.	Proper housekeeping of the entire plant will be maintained.  Occupational health programmes will be organized on a regular basis and records will be maintained. The programme will be organized once in six months. PPEs shall be provided
(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	Rain water collected from the roof top shall be injected into the ground through injection wells to recharge the ground water table.

	fresh water.	
(ix)	The company shall undertake eco-development measures including community welfare measures in the project area	Plantation in and around the plant area shall be done. Various community welfare measures including education, health care and infrastructure etc. shall be done for betterment of the surrounding area.
(x)	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP	Environmental protection measures and safeguard recommended in EIA/EMP shall be implemented.
(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	A separate environment management cell with full-fledged laboratory facilities will be set up to carry out various management and monitoring functions under the control under the control of unit head.
(xii)	Requisite funds shall be earmarked towards the capital cost and recurring cost/annum for 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 purpose	All recommendation shall be implemented along with the plant commissioning.
(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.	Copy of environment clearance letter has been sent on 24/10/2010.  EC letter has been put on our website:- <a href="http://www.shreecement.in">www.shreecement.in</a> .
(xiv)	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website 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; PM10, SO2, NOx (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.	Compliance status is being uploaded at the company website and also sent to the regional Office of the MoEF, Zonal Office of CPCB and the SPCB.  PM10, PM2.5, SO2 and NOx level are monitored on regular basis and data enclosed herewith (Annexure-I)
(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 copies as well as bye-mail) to the Regional Office of MOEF, the respective Zonal Office of CPCB and the RSPCB. Regional Office of this Ministry at Lucknow / CPCB /	Six monthly compliance reports shall be submitted to Regional Office of MoEF, the respective Zonal Office of CPCB and SPCB.



	RSPCB shall monitor the stipulated conditions.	
(xvi)	The environmental statement for each financial year ending 31 <sup>st</sup> March in Form-Vas 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.	The Environmental statement for each financial year ending 31 <sup>st</sup> March in form-V will be submitted to the State pollution control Board; also it will be put on the website of the company along with the status of compliance of EC conditions and shall be sent to the regional office of the MoEF by e-mail.
(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 <a href="http://envfor.nic.in">http://envfor.nic.in</a> . This shall be advertised within seven days from the date of issue of the clearance letter at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to regional office of the Lucknow.	Advertised in two local newspapers widely circulated in the region namely, Rajsthan Patrika & Dainik Navjyoti on 13/11/2010. Copies have been submitted to the ministry.
(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.	Financial closure and final approval of the project shall be informed the Regional Office as well as the Ministry.
(xix)	The Regional Office of this Ministry at Lucknow / CPCB / RSPCB shall monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.	Compliance status will be submitted to the Regional Office of the Ministry at Lucknow/CPCB/SPCb on six monthly basis

**Shree Cement Limited,  
Shyamgarh Mines**  
near village Shyamgarh-Neemgarh Tehsil-Masuda, District-Ajmer (Rajasthan).

## 1. Ambient Air Quality Monitoring Data :

(Period : Oct.2017 to Mar.2018) :- (All values in  $\mu\text{g}/\text{m}^3$ )

Location	Near village Kelkhera				Near Village Shyamgarh				Near village Karwal				Near Village Nimgarh			
	PM 10	PM 2.5	SO2	NOx	PM 10	PM 2.5	SO2	NOx	PM 10	PM 2.5	SO2	NOx	PM 10	PM 2.5	SO2	NOx
Month																
Oct - 17	45	23	9	10	44	23	8	8	49	21	8	9	46	24	8	8
Nov-17	46	24	8	8	45	27	11	11	50	24	8	9	46	21	8	7
Dec-17	51	26	8	9	46	25	8	8	46	27	8	8	45	25	7	7
Jan-18	49	29	11	11	46	22	8	10	50	24	8	9	51	27	8	11
Feb-18	46	24	8	8	46	27	8	10	45	26	7	8	48	24	8	8
Mar-18	52	24	8	8	54	21	10	10	48	29	8	6	50	27	8	8

## 2. Ambient Noise Level Monitoring Data :-

Noise Level (Leq-dB(A) (Period: : Oct.2017 to Mar.2018)

Location	Near village Kelkhera			Near Village Shyamgarh			Near village Karwal			Near Village Nimgarh		
	Day Time	Night Time	Night Time	Day Time	Night Time	Night Time	Day Time	Night Time	Night Time	Day Time	Night Time	
Month												
Oct - 17	51.2	42.5	44.6	58.6	44.6	44.6	60.2	45.9	45.9	52.7	45.7	
Nov-17	56.8	46.8	44.7	60.2	44.7	44.7	52.9	46.8	46.8	58.9	46.8	
Dec-17	59.4	49.5	48.5	58.7	48.5	48.5	56.8	48.8	48.8	58.1	41.6	
Jan-18	55.5	45.8	46.8	52.7	46.8	46.8	60.2	48.9	48.9	61.2	42.7	
Feb-18	54.3	45.8	43.7	59.9	43.7	43.7	61.0	49.5	49.5	57.8	43.9	
Mar-18	56.7	42.8	44.9	59.1	44.9	44.9	62.7	46.6	46.6	55.8	44.9	