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SHREE CEMENT LTD.

Regd. Office:

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



SCL / Karnataka /EC/2016-17/ 11661

Date: 25.11.2016

To,
The Director (Industry-I),
Ministry of Environment & Forest,
Indira Paryavaran Bhawan,
Jor Bagh Road, Ali Ganj,
New Delhi-110003.

Sub: - Regarding compliance of Integrated Cement Project (Clinker - 2.4 MTPA, Cement - 4.0 MTPA, Captive Power Plant - 44 MW & Captive Limestone Mine - 3.8 MTPA, 551.36 ha) at Villages Kodla & Benkanhalli, Taluka Sedam, District Gulbarga, Karnataka by M/s. Shree Cement Ltd

Ref: EC letter no. J-11011/458/2008-IA-II (I) dated 19th Sept. 2012

Dear Sir,

Kindly refer to the above subject matter and referred letters. We are submitting herewith the compliance status of above EC conditions from April- 2016 to September- 2016.

This is for your kind information please.

Thanking you,
Yours faithfully,
For SHREE CEMENT LIMITED,

Rakesh Bhargava

(Rakesh Bhargava)
Vice President (Environment)

Copy to:

1. The Member Secretary, Karnataka State Pollution Control Board, "Parisara bhavan" No. 49, 4th & 5th Floor, Church Street, Bangalore - 560 001, Karnataka.
2. Zonal Officer, CPCB, 1st & 2nd Floors, Nisarga Bhavan, A-Block, Thimmaiah Main Road, 7th D Cross, Shivanagar, Opp. Pushpanjali Theatre, Bengaluru -560 010
3. Dr. C.Kaliyaperumal, Director (S), Regional Office (Southern Zone), Kendariya Sadan, IVth Floor, E&F Wings, 17th Main Road, IIInd block, Koramangala, Bangalore-560034

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O/c environment

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 110 002

Phone : 011 23370828, 23379218, 23370776, Fax : 011 23370499

CORP. OFFICE : 21, Strand Road, Kolkata 700 001 Phone : 033-22309601-4 Fax : 033 22434226

Compliance Status of Environment Clearance

EC letter no. J-11011/458/2008-IA-II (I) dated 19th Sept. 2012

Specific Conditions:

S.No.	Condition	Compliance
i	Rehabilitation and Resettlement Plan for the project affected population including tribals, if applicable, shall be implemented as per the policy of the State Govt. in consultation with the State Govt. of Karnataka. Compensation paid in any case shall not be less than the norms prescribed under the National Resettlement and Rehabilitation Policy, 2007.	N.A. as there is no habitant in plant and lease area.
ii	The gaseous and particulate matter emissions from various units shall conform to the standards prescribed by the KSPCB. At no time, particulate emissions from the cement plant including kiln, coal mill, cement mill, cooler and CPP shall not exceed 50 mg/Nm ³ .	Stack emission level for PM shall be maintained < 50 mg/Nm ³ .
iii	Continuous on-line monitors for particulate emissions shall be installed. 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.	CEMS shall be installed for the measurement of PM, SO ₂ and NO _x level for Kiln. Opacity meters shall be installed at the stack of Kiln, cement mill, coal mill, clinker cooler and boiler for the measurement of PM. Interlocking shall be provided with pollution control equipments
iv	Data on ambient air quality (PM ₁₀ , SO ₂ , NO _x) shall be regularly submitted to the Ministry including its Regional office at Bangalore and the State Pollution Control	PM ₁₀ , SO ₂ and NO _x level shall be monitored on regular basis and data shall be submitted to the authorities timely(Attached as Annexure-1).

	<p>Board/Central Pollution Control Board once in six months.</p> <p>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.</p>	<p>RO discharge shall be reused for ash quenching. Domestic sewage shall be treated in STP and treated water shall be reused for plantation.</p> <p>Monitored data shall be uploaded on the website of the company as well as displayed on a display board at the project site.</p>
v	The Company shall install low NOx burner with Kiln/calcliner for control of NOx emissions.	Low NOx burners shall be used with kiln/calcliner.
vi	Secondary fugitive emissions shall be controlled within the prescribed limits and regularly monitored. Guidelines / Code of Practice issued by the CPCB in this regard shall be followed.	CPCB guideline on control of fugitive emission shall be implemented.
vii.	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16 th November, 2009 shall be followed.	Prescribed norms will be met by implementation of EMP.
viii.	Measures shall be taken to mitigate 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 shall not be overloaded. Vehicular emissions should be regularly monitored.	Fly ash shall be transported in closed trucks / bulkers. Vehicular emissions shall be monitored on regular basis. Vehicles with PUC shall be allowed.
ix	Fly ash shall be utilized as per the provisions of Fly Ash Notification, 1999, subsequently amended in	Fly ash will be utilized in making Pozollona Portland Cement (PPC) and shall be stored in fly

	2009. Fly ash shall be stored in ash silo and 100% used in the cement manufacturing.	ash silo
x.	The company shall make the efforts to utilize the high calorific hazardous waste in the cement kiln and necessary provisions shall be made accordingly. The company shall keep the record of the waste utilized and shall submit the details to Ministry's Regional Office at Bangalore, CPCB and SPCB.	High calorific hazardous waste available in the area shall be utilized as alternate raw material Fuel after having the CPCB permission and state board authorization and records shall be submitted to authority.
xi	Rainwater harvesting measures shall be adopted for the augmentation of ground water at cement plant, colony including check dams at mine site. 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 from the ground water. An action plan shall be submitted to Ministry's Regional Office at Bangalore within 3 months from date of issue of this letter. Efforts should be made to make use of rain water harvested. If needed, capacity of the reservoir should be enhanced to meet the maximum water requirement. Only balance water requirement shall be met from other sources.	<p>Various rain water recharge measures such as construction of check dams and roof top harvesting etc shall be implemented in and around the project site.</p> <p>Following rain water harvesting measures shall be developed at the site:</p> <ol style="list-style-type: none"> 1. One pit of 0.5 lac liter water capacity in mined out area to collect rain water 2. Two earthen pits of total cap. 1.0 lacs shall be developed in plant area to collect the rain water <p>Both pits will be used for ground water recharge and direct use of surface water for plant operation</p>
xii.	Total requirement shall not exceed 2,000 m ³ /day. The water stored in the artificial reservoir made in the mine pit shall be used maximum to reduce ground water consumption. No effluent should be discharged from the mine to	Total water requirement shall be 2000 m ³ /day. Rain water collection pits shall be developed in mine and plant area for the utilization of surface water. The waste water from mines workshop shall be used for

	any water body or nearby river.	dust suppression after removal of oil and grease.
xiii.	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 rehabilitation of mined out areas.	Top soil, will be stacked with proper slope at earmarked site and shall be used for reclamation and rehabilitation of mined out areas and plantation.
xiv.	The project proponent shall ensure that no natural water course shall be obstructed due to any mining and plant operations. The company shall make the plan for protection of the natural water course passing through the plant and mine area premises and submit to the Ministry's Regional Office at Bangalore.	No natural water course shall be obstructed due to any mining operations.
xv.	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. 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, Bangalore on six monthly basis.	The inter burden and other waste generated 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 & Forests and its Regional Office, Bangalore on six monthly basis.
xvi.	The void left unfilled shall be converted into water body. The higher benches of excavated void/mining pit shall be terraced	The void left unfilled in the mining area will be converted into water body. The higher benches of excavated void/mining pit will

	and plantation to be 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.	be terraced and plantation done to stabilize the slopes. The slope of 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.
xvii.	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.	Catch drains and siltation ponds shall be constructed. Rain water collected will be utilized for plantation, road spray and process.
xviii.	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 years 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.	Garland drain along with sedimentation pits shall be constructed for both mine pit and inter burden dumps.
xix.	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 rain fall data.	Retaining wall having suitable dimensions at the toe of inters burden dumps and inter burden benches within the mine will be provided as to check run-off and siltation based on the rain fall

		data.
xx.	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 Bangalore, Central Ground Water Authority and Central Ground Water Board.	Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells and constructing new piezometers. The frequency of monitoring will be four times a year- pre-monsoon (April / May), monsoon (August), post-monsoon (November), and winter (January)., Data collected shall be sent to MOEF and its Regional Office, Central Ground Water Authority and State Ground Water Board annually.
xxi.	Wet drilling sequential and controlled blasting method and provision for the control air emissions during blasting using dust collectors etc. shall be used. The mitigate measures for control of ground vibrations and to arrest fly rocks and boulders shall be implemented.	Wet drilling and dry drilling with dust extractor arrangement shall be used. Controlled Blasting will be practiced.
xxii.	Bench height, width and slope for individual bench shall be properly assessed and implemented. Adequate measures should be adopted to stabilize the slope before abandonment. The fencing around the reservoir should be provided to prevent accidents.	Bench Height will be 10 m and width will be 20 m. Adequate measures will be adopted to stabilize the slope before abandonment. Fencing will be provided to prevent accidents.
xxiii.	Action plan for the mining, management of over burden (removal, storage, disposal etc.),	Submitted on 23/10/2012.

	reclamation of the mined out area and mine closure should be submitted to the Ministry and its Regional Office at Bangalore.	
xxiv.	As proposed, green belt shall be developed in 33% of the plant and mine area as per the CPCB guidelines in consultation with DFO.	Green belt shall be developed in 33 % area of plant and mines.
xxv.	All the recommendations of the Corporate Responsibility or Environmental Protection (CREP) for the cement plants shall be strictly followed.	All CREP recommendation shall be implemented.
xxvi.	The company shall adopt well laid down corporate environment policy and identified and designate responsible officers at all levels of its hierarchy for ensuring adherence to the policy and compliance with environmental clearance, environmental laws and regulations.	Submitted on 23/10/2012.
xxvii.	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.	Vehicular emissions shall be monitored on regular basis.
xxviii.	Risk and Disaster Management Plan along with the mitigation measures should be prepared and a copy submitted to the Ministry's Regional Office at Bangalore, KSPCB and CPCB within 3 months of issue of environment clearance letter.	Submitted.
xxix.	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.	Submitted on 23/10/2012.

xxx.	The company shall comply with the commitments made during public hearing held on 2 nd March, 2012 and a separate budget for implementing the same shall be allocated and information submitted to the Ministry's Regional Office at Bangalore.	All commitments made during the public hearing have been incorporated in CSR activities.
xxxi.	At least 5 % of the total cost of the project should be earmarked towards the Enterprise Social Commitment based on public hearing issues and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office at Bangalore. Implementation of such program should be ensured accordingly in a time bound manner.	Submitted on 23/10/2012.
xxxii.	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 temporary structures to be removed after the completion of the project	Housing, fuel, toilets with soak pits & septic tank, safe drinking water, medical healthcare etc shall be provided to labors.

General conditions:

S.No.	Condition	Compliance
i	The project authority shall adhere to the stipulations made by Karnataka State Pollution Control Board (KSPCB) and State Government.	Yes, all recommendation of Karnataka State Pollution Control Board (KSPCB) and State Government shall be implemented.
ii	No further expansion or modification of the plant shall be carried out without prior approval of this Ministry.	Yes, prior permission will be taken for further expansion.

iii	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 ₁₀ , SO ₂ and NO _x are anticipated in consultation with the SPCB. Data on ambient air quality and stack emissions shall be regularly submitted to this Ministry including its Regional Office and SPCB / CPCB once in six months.	4 ambient air quality monitoring stations shall be established for the measurement of PM _{2.5} , PM ₁₀ , SO ₂ and NO _x in consultation with the SPCB. Data on ambient air quality and stack emissions shall be submitted to the MOEF including its Regional Office and SPCB / CPCB once in six months.
iv	Industrial wastewater 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 wastewater shall be utilized for plantation purpose.	Domestic sewage will be treated in STP and treated water will be used for plantation. RO reject water will be reused for ash quenching.
v	The overall noise levels in and around the plant area shall be kept well within the standards 85 dB(A) 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 dB(A) (day time) and 70 dB(A) (night time).	Turbines, compressors and DG set will be installed in closed building. Plantation will be done all around the plant boundary. Proper maintenance and lubrication shall be done of all machines to maintain the noise level of 85 dB(A) in plant premises and 75 dB(A) (day time) and 70 dB(A) (night time) at the plant boundary.
vi	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	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 include lung function and sputum analysis tests once in six months. PPEs shall be provided.

	measures shall be adopted to avoid direct exposure to dust etc.	
vii.	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, healthcare, infrastructure, drinking water etc shall be done for betterment of the surrounding area.
viii.	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/ EMP.	Environmental protection measures and safeguards recommended in EIA/ EMP shall be implemented.
ix	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 environmental management cell with full fledged laboratory facilities will be set up to carry out various management and monitoring functions under the control of unit head.
x.	Adequate fund shall be allocated 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. The funds so provided shall not be diverted for any other purpose.	Adequate funds are available for the implementation of the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. All recommendation shall be implemented along with the plant commissioning.
xi	The Regional Office of this Ministry / CPCB /KSPCB shall monitor the stipulated conditions. The project authorities shall extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.	Full cooperation will be extended to the officer (s) of the Regional Office of this Ministry / CPCB / KSPCB. Six monthly compliance reports and the monitored data along with statistical interpretation shall be submitted regularly.
xii.	The project proponent shall also	Six monthly reports on the status of

	submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both on hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the KSPCB.	compliance of the stipulated EC conditions including results of monitored data (both hard copies as well as by e-mail) will be sent to the MOEF & CPCB regional Offices and the KSPCB.
xiii.	The Project Authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Financial closure and final approval of the project shall be informed to the Regional Office as well as the Ministry.
xiv.	No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment & Forests. No change in the calendar plan including excavation, quantum of limestone and waste shall be made.	No change in mining technology and scope of working shall be done without prior approval of the MOEF. No change in the calendar plan including excavation, quantum of limestone and waste shall be done.
xv.	Measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM etc. shall be provided with ear pluggs/ muffs.	Proper lubrication & maintenance of HEMM shall be done to keep noise level within the limit. PPEs shall be provided at site to all.
xvi.	Industrial waste water (workshop and waste water from the mine) shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. Oil and grease trap shall be installed before discharge of workshop effluents.	Workshop waste water will be reused in crushed after separation of oil and grease. Waste water generated from the mine toilet will be disposed off in soak pit via septic tank.
xvii.	Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with	Personnel protective equipment such as ear muffs and dust masks will be provided to all. Adequate

	adequate training and information on safety and health aspects. Occupational health surveillance program of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.	training and information on safety and health aspects will be provided to all. Occupational health surveillance program of the workers and staff shall be undertaken periodically to observe any contractions due to exposure to dust and corrective measures will be taken.
xviii.	The project authorities shall inform to the Regional Office located regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	Financial closure and final approval of the project shall be informed to the Regional Office as well as the Ministry.
xix	A copy of clearance letter shall be marked to concerned Panchayat / local NGO, if any, from whom suggestion/representation, if any, was received while processing the proposal.	Copy of environment clearance letter has been sent on 04.10.2012. EC letter has been put on our web site:- www.shreecement.in
xx.	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 put up on the website of the Company by the proponent.	Copy of environment clearance letter has been sent on 04.10.2012. EC letter has been put on our web site:- www.shreecement.in
xxi.	The project authorities shall 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 Karnataka State Pollution Control Board and also at	Advertised in two local news papers widely circulated in the region namely, The Hindu on 29/09/2012 and Vijay Karnataka on 30/09/2012 (copy already submitted).

	web site of the Ministry of Environment and Forests at "http://envfor.nic.in and a copy of the same shall be forwarded to the Regional Office of this Ministry.	
xxii.	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 EC conditions and shall also be sent to the respective regional Office of the MoEF by e-mail.	Environmental statement for each financial year ending 31 st March in Form-V will be submitted to the concerned 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.

Ambient Air Quality ($\mu\text{g}/\text{m}^3$) :

Annexure-I

Location Name	Month	PM2.5	PM10	SO ₂	NO _x
Near Village Dongaum	April-16	31	50	6	8
	May-16	30	51	7	6
	June-16	32	53	7	8
	July-16	30	51	6	7
	Aug-16	28	48	5	6
	Sept-16	29	47	6	7
Near Village Benakanhalli	April-16	30	51	6	7
	May-16	31	53	6	8
	June-16	30	52	7	8
	July-16	29	50	6	7
	Aug-16	26	45	5	6
	Sept-16	24	43	6	6
Near Village Kodla	April-16	28	50	8	9
	May-16	29	52	7	8
	June-16	31	53	8	9
	July-16	27	51	7	7
	Aug-16	25	48	6	7
	Sept-16	23	45	7	6
Near Mines Site	April-16	30	51	8	8
	May-16	31	54	8	10
	June-16	33	53	8	9
	July-16	28	50	7	8
	Aug-16	25	48	7	7
	Sept-16	23	46	6	7
Near Plant Site	April-16	33	53	7	9
	May-16	34	52	8	8
	June-16	32	55	9	10
	July-16	30	51	8	7
	Aug-16	27	49	7	8
	Sept-16	25	47	7	7
Near village rajolli	April-16	29	49	6	8
	May-16	30	51	7	8
	June-16	32	52	9	10
	July-16	28	48	8	9
	Aug-16	29	49	8	8
	Sept-16	27	45	7	8