

O/c

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SHREE CEMENT LTD.

Regd. Office:

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



SCL/ENV/Jharkhand/2019-20/ 2386

Date:-25/05/2019

To,
The, Additional Principal Chief Conservator of Forests (C),
Ministry of Environment, Forest and Climate Change,
Regional Office (EZ), Bungalow No. A-2, Shyamali Colony,
Ranchi-834002

Sub:- Compliance of conditions of environmental clearance for the proposed Cement grinding unit of capacity 4.0 Million TPA cement along with proposed Power plant 20 MW and captive railway siding near Village-Hansda, PO Burudih, Dist. Saraikela-Kharsawan, Jharkhand by M/s Shree Cement Limited.

Ref: - EC Letter No. J-11011/692/2008-IA-II (I) dated 21-02-2018.

Dear Sir,

In reference to the above subject matter and referred EC letter, we are submitting herewith half yearly compliance report of conditions of the above environmental clearance letter for the period of **October-2018 to March-2019**.

We are also sending the soft copy of the half yearly compliance report to the following E-mail address: ro.ranchi-mef@gov.in for your ready reference and necessary submission please

Thanking you,
Yours faithfully,
For M/s Jharkhand Cement Plant
(A unit of Shree Cement Ltd)

(Rakesh Bhargava)
Sr. Vice President (Environment)

- Cc:
1. The Member Secreatry, West Bengal Pollution Control Board, Paribesh bhavan,10 A, Block - L.A.,Sector - III, Salt Lake City, Calcutta - 700098.
 2. The Member Secretary, Jharkhand State Pollution Control Board, T.A Division building (Ground floor), HEC Campus, P.O. Dhurwa, Ranchi - 834004, Jharkhand.
 3. The Director, Ministry of Environment & Forests Indra Paryavaran Bhavan, Jorbagh Road, New Delhi - 110003

O/c :- Env. Dept. Ras

JAIPUR OFFICE : SB-187, Bapu Nagar, Opp. Rajasthan University, JLN Marg, Jaipur-302 015

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Compliance of Environmental Clearance conditions granted by MOEF&CC vide letter no. J-11011/692/2008-IA-II (I), dated 21/02/2018 for the expansion cum change in product mix clinker: 540000 TPA, Portland Slag Cement: 937500 TPA, Portland Pozzolana cement: 180000 TPA to clinker grinding unit of capacity 4.0 million TPA cement along with proposed power plant 20 MW and captive railway siding near village Hansda, PO Burudih, Dist. Saraikela - Kharsawan, Jharkhand M/s Shree Cement Limited for the period of October-2018 to March-2019.

S. No.	Conditions	Compliance Status
A. Specific Conditions		
1	The validity of the present EC will be up to 29 th August 2020.	Noted.
2	An amount equal to 5% of total cost proposed towards Enterprise Social Commitment (ESC) shall be utilized as capital expenditure in project mode. The project shall be completed in concurrence with the implementation of the expansion and estimated on the basis of Scheduled Rates.	Company engaged extensive CSR activity during FY 2018-19 total Rs. 32.33 lac expended on CSR activity.
3	Green belt shall be developed equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The green belt shall inter alia cover the entire periphery of the plant.	Out of total plant area of 110 acres, green belt has been developed in 21.78 acres (19.8%) area with 3677 numbers of saplings. Remaining area of greenbelt development will be covered to meet 33% target. Local native tree species are planted along periphery of the plant.
4	The capital cost Rs. 8.72 Crores and annual recurring cost Rs. 1.93 Crores towards the environmental protection measures shall be earmarked separately. The funds so provided shall not be diverted for any other purpose.	Agreed, all PCM have been installed as per detail submitted during obtainment of EC.
5	The company shall adopt the system of reporting of non-compliances/ infringements to the Board of Directors once in six months and at the time of any incidence.	We have corporate environmental policy, ESG committee review all environment compliance and submitted the report to the Board of Directors on regular basis.
6	The emission for the bag house shall be maintained less than 20 mg/Nm ³ .	Stack emission will be maintained below prescribed standards.
B. GENERAL CONDITIONS:		
1.	The project proponent shall (Air Quality Monitoring):	
a.	Install 24X7 continuous emission monitoring system at power plant stack emission with respect to parameters prescribed in S.O. 3305 (E) dated 7 th December 2015 for thermal power plants as amended from time to time and connected to CPCB online;	CPP will be installed in Second phase. Continuous emission monitoring system will be installed at power plant stack once CPP will be installed & transfer data to CPCB and SPCB server.
b.	Monitor fugitive emissions in the plant premises;	Agreed, we will comply and follow the CPCB fugitive emission guidelines.

c.	Carryout continuous Ambient Air Quality monitoring as per National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826 (E) dated 16 th November 2009 (as amended from time to time)within and outside the plant area at least at four locations covering upwind and downwind directions at an angle of 120 ^o each; and	Total Four numbers of Continuous Ambient Air Quality monitoring systems have been installed for the measurement of PM2.5, PM10, SO2, NO2 & CO. connectivity of same is under process.
d.	Submit monitoring report to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.	Ambient air quality monitoring report is enclosed as Annexure – I .
2.	The project proponent shall (Water Quality Monitoring):	
a)	Install effluents monitoring system at all the discharge points to monitor treated effluents with respect to parameters prescribed in S.O. 3305 (E) dated 7 th December 2015 for thermal power plants as amended from time to time as amended from time to time; and	Clinker grinding is dry process and therefore, no effluent will be generated from the process. Domestic waste water generated from office toilet and mess will be treated in STP and treated water will be used for plantation purpose. CPP will be installed in second phase.
b)	Submit monitoring report to Regional Office of MoEF&CC, Zonal office of CPCB and Regional office of SPCB along with six-monthly monitoring report.	Tread effluent – Nil Analysis report of STP treated water will be submitted with six-monthly compliance report.
3.	The project proponent shall (Air Pollution Control):	
a)	Provide appropriate Air Pollution Control (APC) system for all the dust generating points including fugitive dust from all vulnerable sources;	Adequate air pollution control devices are provided.
b)	Design suitable capacity of bag filters to handle gas/air shall be 150% of the normal flow from process / from suction hoods to achieve particulate emission to less than 20 mg/Nm ³ ;	Being Complied.
c)	Provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags;	Being Complied.
d)	Provide pollution control system in the cement plant as per the CREP Guideline of CPCB;	Agreed, All CREP recommendations will be complied.
e)	Provide sufficient number of mobile or stationery vacuum cleaners to clean plant roads, shop floors, roofs regularly;	Vacuum sweeping machines are being used for better housekeeping.
f)	Use leak proof trucks/dumpers for carrying raw materials & cement and shall cover them with tarpaulin. Use closed bulkers for carrying fly ash;	Covered trucks will be used for the transportation of raw materials and closed trucks and bulkers will be used for the transportation of fly ash.

g)	Provide wind shelter fence and chemical spraying on the raw material stock piles;	Silos for the storage of clinker, cement and fly ash are made available. Covered storage for storage of gypsum is also made available.
h)	Provide low NOx burners to control NOx emission; and	Not applicable for clinker grinding unit. CPP will be installed in second phase.
i)	Have separate truck parking area and monitor vehicle emissions at regular interval.	Separate truck parking area will be provided and only PUC vehicles will be allowed for transportation.
4.	The project proponent shall (Water Pollution Control):	
a)	Adhere to 'zero liquid discharge';	Clinker grinding is dry process and therefore, no effluent will be generated from the process. Domestic waste water generated from office toilet and mess is being treated in STP and treated water used for plantation purpose. Complying with Zero liquid discharge. CPP will be installed in second phase.
b)	Provide Sewage Treatment Plant for domestic wastewater; and	Domestic waste water from office and guest house will be treated in STP and treated water will be used for plantation purpose.
c)	Provide garland drains and collection pits for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.	Silos will be used for the storage of clinker, cement and fly ash. Covered storage has been provided for the storage of gypsum.
5.	The project proponent shall (Water Conservation):	
a)	Practice rainwater harvesting to maximum possible extent;	Rainwater harvesting pond developed with in plant area.
b)	Provide water meters at the inlet to all unit processes in the power plant; and	Digital water meter installed at all raw water sources.
c)	Make efforts to minimize water consumption in the complex by segregation of used water, practicing cascade use and by recycling treated water.	We are maintaining "Zero liquid discharge" as clinker grinding unit is based on dry process and captive power plant is based on air cooled condenser technology. Domestic waste water will be treated in STP and treated water will be used in green belt development. RO reject water from DM plant will be used in mill spray.
6.	The PP shall (Energy conservation):	
a)	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly;	Solar lights have been provided in common area, street lights and parking area. However, feasibility of solar power generation on roof tops of building will be explored.
b)	Provide the project proponent for LED lights in their offices and residential areas;	LED lights have been provided in offices & other buildings inside the plant premises.

c)	Maximize utilization of fly ash, slag and sweetener in cement blend as per BIS standards; and	Fly ash and slag will be used as per BIS standard to manufacture PPC and PSC respectively.
7.	Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land.	Covered trucks will be used for the transportation of raw materials and closed trucks and bulkers will be used for the transportation of fly ash. Only PUC vehicles will be allowed for transportation of raw materials.
8.	The PP shall prepare GHG emissions inventory for the plant and shall submit the program for reduction of the same including carbon sequestration including plantation.	GHG emissions inventory for the plant and program for reduction of the same including carbon sequestration including plantation will be prepared and submit.
9.	Emergency preparedness plan based on the Hazard identification and Risk assessment (HIRA) and Disaster Management Plan shall be implemented.	Emergency preparedness plan based on the Hazard identification and Risk assessment (HIRA) and Disaster Management Plan has been prepared and implemented.
10.	The PP shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.	Adequate PPEs will be provided for the workmen who work in high temperature work zone and PPEs has been provided as per the norms of Factory Act.
11.	The PP shall adhere to the corporate environmental policy and system of the reporting of any infringements/ non-compliance of EC conditions at least once in a year to the Board of Directors and the copy of the board resolution shall be submitted to the MoEF&CC as a part of six-monthly report.	We have corporate environmental policy, ESG committee review all environment compliance and submitted the report to the Board of Directors on regular basis.
12.	All the recommendations made in the Charter on corporate Responsibility for Environment Protection (CREP) for the cement plants shall be implemented.	Agreed, All CREP recommendations will be complied.
13.	A dedicated environmental cell with qualified personnel shall be established. The head of the environment cell shall report directly to the head of the organization.	A dedicated environmental cell with qualified personnel has been established and directly reporting to the Senior Executive.
14.	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.	Temporary Housing, fuel, toilets with soak pits & septic tank, safe drinking water, medical healthcare etc were provided to the construction labors.
15.	The project authorities must strictly adhere to the stipulations made by the State	Agreed.

	Pollution Control Board and the State Government.	
16.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).	Agreed, we will obtain prior approval from MoEF&CC for further expansion or modification.
17.	The waste oil, grease and other hazardous shall be disposed of as per the Hazardous & Other waste (Management & Trans-boundary Movement) Rules, 2016.	Used oil will be collected in drums and sold to CPCB authorized recyclers as per the Hazardous & Other waste (Management & Trans-boundary Movement) Rules, 2016.
18.	The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dB (A) during day time and 70 dB (A) during night time.	Complying with, ambient noise level report is enclosed as Annexure-II .
19.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Annual occupational health surveillance program of the workers and staff will be undertaken and corrective measures will be taken. Records will be maintained as per the Factory act.
20.	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report.	Environmental protection measures and safeguards recommended in EIA/ EMP will be implemented.
21.	Ventilation system shall be designed for adequate air changes as per ACGIH document for all tunnels, motor houses, cement bagging plants.	Being complied.
22.	Sufficient number of color coded waste collection bins shall be constructed at shop floors in each shop to systematically segregate and store waste materials generated at the shop floors (other than Process waste) in designated colored bins for value addition by promoting reuse of such wastes and for good housekeeping.	Being complied.
23.	The project proponent shall (post-EC Monitoring):	
a.	Send a copy of environmental clearance letter to the heads of Local Bodies, Panchayat, Municipal bodies and relevant offices of the Government;	Copy of EC has been provided to Local bodies, Panchayat, Municipal bodies and relevant offices of the government.
b.	put on the clearance letter on the web site of the company for access to the public.	The copy of environment clearance letter is available on the web site of Shree Cement Ltd. www.shreecement.in
c.	Inform the public through advertisement within seven days from the date of issue of	EC was received on 7 th March 2018 and advertised in Prabhat Khabar & Dainik Bhaskar

	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 that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment, Forests and Climate Change (MoEF&CC) at http://envfor.nic.in .	local newspapers have been published on dated 11/03/2018 & 13/03/2018 respectively. Copy of the same submitted on 14/03/2018. The copy of environment clearance letter is available on the web site of http://envfor.nic.in .
d.	Upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same periodically;	Status of compliance of the stipulated environment clearance conditions, including results of monitored data is available on the web site of Shree Cement Ltd. www.shreecement.in
e.	Monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company;	CEMS i.e. opacity meter for PM measurement has been provided in cement mill stack. CPP will be installed in 2 nd phase, thereon CEMS for PM, SO2 & NOx will be installed with boiler stack.
f.	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 by-mail) to the Regional Office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB;	Compliance report submitting on regular basis to the Regional Office of MoEF&CC, Zonal Office of CPCB and the SPCB.
g.	submit the environmental statement for each financial year in Form- V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company;	Environmental statement for each financial year ending 31st March in Form-V will be submitted to the Jharkhand State Pollution Control Board and same will be upload on the website of the Company.
h.	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.	Presently cement unit is under final commissioning. CPP will be installed in second phase.
11.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Agreed.
12.	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Noted.
13.	The PP shall abide by all the commitments and	Being complied.

	recommendations made in the EIA/EMP report and that during their presentation to the EAC. The commitment made by the project proponent to the issue raised during Public Hearing shall be implemented by the proponent.	
14.	The above conditions shall be enforced inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Trans-boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules.	Noted.
15.	This EC is issued in supersession of the earlier EC vide J-11011/692/2008-IA.II. (I) dated 30th August 2010, subsequent amendment / extension vide even letter number dated 31st July 2017 and 18th October 2017.	Noted.
16.	The validity of this EC will be up to 29th August 2020. In case, the project proponent unable to implement the proposal within the validity period, afresh EC shall be obtained by following the prescribed process as per the EIA Notification, 2006 de-novo.	Noted.
17.	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted.

Annexure-I

Average Ambient Air Quality Monitoring Data: (All values in µg/m3)

Location	Plant boundary near Logistic building				Plant boundary near Rain water harvesting pond				Plant boundary near Railway Siding				Plant boundary near Maharaja fabrication office			
	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
Oct-18	41	25	8	14	38	24	9	10	42	28	12	13	43	25	14	12
Nov-18	45	23	11	12	42	26	7	15	44	26	9	12	40	28	10	14
Dec-18	42	26	7	11	40	25	12	12	39	23	8	11	45	30	12	10
Jan-19	43	28	12	14	46	27	10	13	40	28	13	14	47	26	11	13
Feb-19	38	26	13	13	40	28	11	15	45	32	11	10	40	30	14	12
Mar-19	42	26	11	15	44	30	8	14	41	29	12	15	48	33	13	14

Annexure-II

Average Ambient Noise Level monitoring Data: dB (A)

Location	Plant boundary near Logistic building		Plant boundary near Rain water harvesting pond		Plant boundary near Railway Siding		Plant boundary near Maharaja fabrication office	
	Day	Night	Day	Night	Day	Night	Day	Night
Oct-18	63.2	58.4	62.8	55.9	71.6	65.3	69.7	60.4
Nov-18	65.4	56.8	65.9	55.7	70.8	68.2	70.2	61.5
Dec-18	60.7	54.3	68.3	59.7	69.8	66.9	68.3	59.8
Jan-19	69.5	56.4	70.2	59.6	72.2	68.4	71.5	62.4
Feb-19	67.4	55.9	69.4	58.7	70.6	64.8	69.5	60.3
Mar-19	68.7	58.7	70.8	60.7	71.8	65.7	70.6	59.4