

J.K. Cement Works, Mangrol

Sub:Expansion of Clinker Plant (0.75 MTPA to 2.90 MTPA) and Cement Plant (0.95 MTPA to 3.45 MTPA) at village Mangrol, District Chittorgarh, Rajasthan by M/s J.K. Cement Works, Mangrol–**Six monthly Compliance report of Environmental Clearance (April-September 2015)**

Ref.: MOEF letter no. J-11011/1273/2007-IA (II) dated. 20.03.2009 issued by MoEF, Govt. of India. **(Annexure A)**

A) SPECIFIC CONDITIONS:

S.No.	Conditions	Point wise compliance
i)	<p>The company shall install Electrostatic Precipitator (ESP) to raw mill kiln and cooler, bag house to cement mill and bag filters to crusher to control particulate emission within 50 mg/Nm³. The company shall provide air pollution monitoring arrangements with stacks and vents.</p> <p>Regular monitoring reports shall be submitted to Rajasthan Pollution control Board, CPCB and Ministry's Regional Office at Lucknow.</p>	<p>Point noted and complied.</p> <p>Bag house has been installed at raw mill, kiln, Coal mill & Cement mill.ESP at cooler and Bag filters at crusher to control particulate emission within the prescribed limits of RSPCB/CPCB. (Photographs of the ESP, Bag House and Bag filter is enclosed as Annexure B).</p> <p>The unit had already installed online air pollution monitoring instruments to monitor various emissionsparameters as per CPCB directives (Photographs of the pollution monitoring instruments is enclosed as</p>

S.No.	Conditions	Point wise compliance
		<p>Annexure C).</p> <p>Ambient air and stack monitoring (Stack attached to raw mill kiln and cooler, bag house to cement mill and bag filters) was conducted by RSPCB in the plant area on 07.08.2015. Results of the monitoring report indicate that all the parameters are within the permissible limits (Copy of monitoring report is enclosed as Annexure D).</p>
ii)	<p>Data on ambient air quality stack emission and fugitive emissions shall be regularly submitted online to Ministry's Regional Office at Lucknow, Rajasthan Pollution Control Board and Central Pollution control Board as well as hard copy once in six months.</p> <p>Data on SPM, SO₂ and NO_x shall also be displayed prominently outside the premises at the appropriate place for information of general public.</p>	<p>Point noted and complied .</p> <p>Ambient air quality, stack emissions level and fugitive emissions are being regularly monitored. (Copy of the RSPCB monitoring report is enclosed as Annexure D). Six monthly compliance report is being regularly submitted to statutory authorities.</p> <p>Data on SPM, SO₂ and NO_x are continuously displayed outside the premises of plant.</p>
iii)	<p>Bag house /filters shall be provided to control the fugitive emissions generated during material transfer, packing, loading and unloading. The project authorities</p>	<p>Point noted and complied .</p> <p>Bag house/ Bag filter have been installed to control fugitive emissions during</p>

S.No.	Conditions	Point wise compliance
	shall store all the raw materials except limestone in the covered sheds to control fugitive emissions.	material transport, loading/unloading. Also, raw material is being stored in the covered shed except for limestone.
iv)	The locations of ambient air quality monitoring stations shall set up as per statutory requirement in consultation with the Rajasthan Pollution Control Board (RPCB) and addition stations shall be installed, if required, in the downwind direction as well as where maximum ground level concentrations are anticipated.	Point noted and compiled. Locations of AAQ monitoring stations have been installed as per RSPCB/CPCB guidelines. Weather monitoring stations and online ambient monitoring system has also been installed as per statutory requirement (Photographs of the same are enclosed as Annexure C).
	The water required shall not exceed 1500 KLD. The copy of the permission letter for drawl of River/dam water/ ground water shall be submitted to the Ministry's Regional Office at Lucknow within 3 months from date of issue of this letter. The company shall prepare plan for conservation of water and reduction of consumption of fresh water from the ground water or Gambhiri Dam.	Point noted and complied. The permission for extraction of 2300 KLD water had already been obtained from CGWA and copy of the same has already been submitted to Regional Office, Lucknow vide our letter no. MGR/PC-05/09 dated 10 th May, 2009. The company has already taken steps for conservation of water and reduction in fresh water consumption.
v)	The company shall develop rainwater	Point noted and complied.

S.No.	Conditions	Point wise compliance
	harvesting structures to harvest the runoff water for recharge of ground water.	The company had developed rainwater harvesting structures to capture runoff water for recharge of ground water (Photographs showing rainwater harvesting structure are enclosed at Annexure E).
vi)	Green belt shall be developed at least in 33% of plant area to mitigate the effect of fugitive emissions all around the plant as per the guidelines of Central Pollution Control Boards.	Point noted and compiled. Green belt development has already been developed as per CPCB guidelines to mitigate the effect of fugitive emissions all around the plant. (Photographs showing greenbelt is enclosed as Annexure F)
vii)	The project authorities shall transport the raw materials and cement in covered means to avoid fugitive emission during transport.	Point noted and complied. The transportation of raw materials and cement are being done in covered manner to control fugitive emissions.
viii)	All the recommendations mentioned in the CREP guidelines for the cement plants shall be followed and complied.	Point noted and complied.
ix)	The company shall comply with all the commitment made during public hearing/public consultation held on 25 th July, 2008 for the project.	Point noted and complied. The current status towards compliance of the commitment made during Public Hearing towards community and social welfare. (Copy of the

S.No.	Conditions	Point wise compliance
		reportis enclosed as Annexure G).
x)	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 toilet, 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.	Point noted and complied. Since the plant is in operational phase at present, therefore this point is not applicable. However, all necessary facilities were provided at the time of construction.
B.	GENERAL CONDITIONS:	
i)	The project authorities shall strictly adhere to the stipulations of the SPCB/ State Government or any statutory body.	Point noted and complied.
ii)	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Point noted and complied. The unit is proposing expansion of existing clinker production from 2.9 MMTPA to 5.65 MMTPA and cement from 3.45 MMTPA to 7.05 MMTPA. Along with this, the unit is also proposing one additional CPP of 35 MW and WHRB of 10 MW. The ministry has already granted TOR for the same(Copy of TOR is enclosed at annexure-H). Accordingly, an application to conduct Public Hearing has been submitted to RSPCB

S.No.	Conditions	Point wise compliance
		office vide letter dated 30.07.2015 (copy of the receipt is enclosed as Annexure I) . And Public hearing held on 05.11.2015 to close proximity to the project site.
iii)	At no time, the emissions shall exceed the prescribed limits. In the events of failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.	Point noted and complied. Interlocking system between pollution control devices and operation section has been installed to comply the conditions.
iv)	The gaseous emissions (SO ₂ , NO _x) and particulate matter along with RSPM levels from various process units shall conform to the standards prescribed by the concerned authorities from time to time.	Point noted and complied. The monitoring reports of gaseous emissions and particulate matter along with RSPM levels shows that the level of pollutants are within the prescribed limits (copy of the monitoring report is enclosed as Annexure D) .
v)	The company shall undertake following Waste Minimization measures. <ul style="list-style-type: none"> • Reuse of by-products from the process as raw materials or as raw material substitute in other processes. • Use of "Close pneumatic" systems shall be connected with dust arresting equipments 	Point noted and complied. By-products produced from the process are being reused in other processes as raw materials. The dust from venting systems is being collected in Bag house/Bag filter and the same

S.No.	Conditions	Point wise compliance
	<ul style="list-style-type: none"> All venting systems shall be connected with dust arresting equipments Dust collect in pollution control equipment shall be reused. 	is being reused in the process.
vi	Fugitive emissions in the work zone environment, product, and raw materials storage area shall be regularly monitored. The emissions shall conform to the limits imposed by the State Pollution Control Boards/Central Pollution Board.	Point Noted and complied. Fugitive emission in the work zone are being regularly monitored and maintained within prescribed limit of CPCB/RSPCB
vii)	The overall noise levels in an around the plant are shall be kept well within the standards by providing noise control measures including acoustic hoods,silencers,enclosures etc. on the sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules,1989 viz. 75 dBA (day time) and 70 dBA (night time).	Point Noted and complied. Noise levels in and around the plant area is being maintained within the standards by providing noise control equipments like acoustic hoods, silencers, enclosures(copy of the monitoring report is enclosed as Annexure D).
viii)	Occupational health and safety measures shall be undertaken. Periodic monitorial for exposure to dust on the workers should be conducted and records maintained including health records of the workers. The company shall engage a doctor who is trained in occupational health.	Point Noted and complied. All Occupational health and safety measures are being taken by the management. Health Record of the workers is being maintained and copy of the same is enclosed as AnnexureJ . The company has dispensary and sufficient medical staff for the existing unit to monitor the health of

S.No.	Conditions	Point wise compliance
		the employees/ workers.
ix	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment. The eco-development plan should be submitted to the SPCB within three months of receipt of this letter for approval.	Point noted and complied. The company has undertaken various measures for community welfare. The copy of the work undertaken by the company (under CSR) toward community welfare has been enclosed at AnnexureG .
x	A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Point noted and complied. The company has a separate Environmental Management Cell to carry out the Environmental Management and Monitoring functions. (Photographs of the Monitoring equipments and Hierarchy of Environment Management Cell(EMC) are enclosed as AnnexureK).
xi	The project authorities shall earmark adequate fund to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government.	Point noted. As per the statutory requirement the company had allocated Rs 3039 lakh towards Environmental Protection and monitoring with Rs 243 lakhs as recurring cost.
xii	The implementation of the project vis-à-vis environmental action plans shall be	Point noted. Six monthly compliance

S.No.	Conditions	Point wise compliance
	monitored by the concerned Regional Office of the Ministry/SPCB/CPCB. A six monthly compliance status report shall be submitted to monitored agencies and shall be posted on the website of the Company.	reports is being regularly submitting to monitored agencies and same was also posted on the website of the Company.
xiii	<p>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 SPCB and may also be seen at Website of the Ministry at http://envfor.nic.in.</p> <p>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 regional of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.</p>	<p>Point noted and complied.</p> <p>We have already done the same.</p>
xiv	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 start of the project.	Point noted. Confirm and Complied.