

J.K. Cement WORKS, MANGROL (RAJ)
25 MW Captive Power Plant& 10 MW Waste Heat Recovery Boiler

Compliance report of Environment Clearance from SEIAA, Rajasthan,Letter No. F1 (4)/SEIAA/SEAC-Raj/Sectt/Project/Cat8(b)B1/(484)/12-12 dated 13.09.2013
(For the Period from October 2014 to March 2015)

S.No.	Condition	Status
	<u>COMPLIANCE CONDITIONS :-</u>	
(i)	This EC is granted for (a) 25MW Captive Power Plant and (b)10MW WHRB	Yes Agreed.
(ii)	All the condition stipulated by Rajasthan State Pollution Control Board in the letter of C.T.E and C.T.O shall be strictly implemented.	Being complied.
(iii)	The quality of coal used should have calorific value (Kcal/Kg) 5000 minimum; Ash content 12% maximum and sulphur content 0.8% maximum. The Validity of EC granted is subjected to compliance with lease coal quality parameter.	We use coal fuel (mixed) to maintain calorific value (Kcal/Kg) 5000 minimum; Ash content 12% maximum and sulphur content 0.8% maximum.
(iv)	Circulating Fluidized Bed Combustion (CFBC) boiler with lime injection shall be used.	Lime Injection is being used in Circulating Fluidized Bed Combustion (CFBC) boiler.
(v)	As envisaged, a stack of 110 m height in the boiler of CPP, based on worst coal firing with highest sulphur (0.8%) content (and 90% sulphur removal in the boiler when limestone is added),according to emission guidelines of CPCB shall be provided with continuous on line monitoring system. Data collected shall be analysed and submitted regularly to the Regional office of the MoEF at Lucknow and RPCB, Jaipur.	Complied with. We haveprovidedcontinuous online monitoring system on the stack. Monitoring data will be submitted to the Regional office MoEF at Lucknow and RPCB, Jaipur.
(vi)	Total Fresh water (ground water) requirement shall not exceed 525 KLD. No discharge of effluent directly shall be done outside the plant boundary.	Our ground water requirements shall not exceed 525 KLD fresh water for operation of 25 MW CPP & 10 MW WHRB.
(vii)	As envisaged, the P.P. shall draw the required quantity of the water from ground water. The required N.O.C. in this regard shall be renewed from the CGWA from time to time and copy of N.O.C. shall be submitted the P.P. to the RPCB at the time of applying for C.T.E and C.T.O.	Complied. We have obtained renewed CGWA permission for ground water abstraction vide letter no. 21 – 4(286)WR / CGWA /2008 dated 20.05.2011.The copy of N.O.C. has submitted at RSPCB along with CTE application.
(viii)	Closed circuit cooling with cooling tower shall be provided.	Complied with.
(ix)	The PP shall provide Ash dump yard as proposed and utilize the Bottom ash and fly ash in its cement plants as proposed.	Not applicable.
(x)	The PP shall ensure that, treated water may be used for ash quenching and any balance volume for horticulture.	Treated waste water is being used for ash quenching & dust suppression.
(xi)	The PP shall obtain clearance from Ministry of Defence, particularly for providing stack of the proposed height vis-à-vis the requirements of the IAF and also from Airport Authority of India.	Not applicable.
(xii)	The PP shall comply with conditions of CGWA clearance for abstraction of ground water.	Being complied conditions of CGWA permission
(xiii)	The PP shall provide disinfection on domestic waste water treatment line.	We are installingcommon Sewage treatment Plant for Cement plant, CPP & WHR for Domestic waste water treatment.

(xiv)	The PP shall explore the feasibility for dry condensers in place of wet condensers.	We have installed Air cooled condenser.
(xv)	The PP shall provide pollution control system right from handling of raw material; fugitive emissions at all identified points.	We have provided bag filter at all identified points to mitigate the fugitive emission.
(xvi)	The PP shall take steps to reduce water consumption.	We always take necessary steps to reduce water consumption.
(xvii)	The PP shall get the land use of the project site converted for industrial use from the competent authority.	Complied. Project is installed in our existing land of cement plant premises.
(xviii)	Ash pond shall be lined with impervious layer to avoid leachate.	Ash being used in cement plant premises.
(xix)	The Proponent shall obtain prior Consent to Establish and consent to Operate from Rajasthan State Pollution Control Board under Water (Prevention and Control of Pollution) Act'74 and Air (Prevention and Control of Pollution) Act'81.	We have granted Consent to establish under Air & Water act vide letter no. F (CPM)/Chittorgarh(Nimbahera)/7(1)/2013-2014/6130-6132 for 25 MW CPP and vide letter no. F (CPM)/Chittorgarh(Nimbahera)/7(1)/2013-2014/6133-6135 for 10MW WHR on dated 28.10.2013. Moreover we have obtained Consent to operate of the 25 MW CPP vide letter no. F (CPM) / Chittorgarh(Nimbahera) / 7(1) /2013 – 2014 / 481 – 484 dated 25.04.2014 and for WHR vide letter no. F (CPM) / Chittorgarh (Nimbahera) / 8 (1) / 2013 – 2014 / 477 – 480 dated 25.04.2014
(xx)	The Management shall installed air cooled condenser system to cut down fresh water demand.	Yes we have installed Air cooled condenser system to reduce the water consumption.
(xxi)	Continuous stack monitoring facilities to monitor gaseous emission from all the stacks shall be provided to control emissions within limits by installing adequate air pollution control system like bag filter dust collector, ESP etc. 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.	Continues stack monitoring facilities to monitor gaseous emission has been provided at Boiler stack. Air Pollution Control equipment i.e. ESP Bag filters installed & interlocked with respective unit.
(xxii)	As envisaged, the Industrial wastewater generated shall be treated in ETP (Effluent Treatment Plant). Part of this, will be recycled and used for cooling purpose and the remaining in green belt and dust suppression. No discharge of effluent directly or indirectly shall be done outside plant boundary.	Industrial waste water is being treated in Neutralization pit and use in development & Dust suppression.
(xxiii)	As estimated, the Bottom Ash (20TPD) and fly Ash (200 TPD) generated from the plant shall be collected and handled as proposed and sent to utilize in J.K. cement works, Mangrol and Nimbahera for cement manufacturing. The Ash shall be disposed of in environment – friendly manner as per provisions of the notification on the Fly Ash Utilization issued by the Ministry in September, 1999 (amendment till date). The project proponent shall enter into long term contracts with cement manufactures/ brick manufactures prior to start of the work. Ash disposal would be done through high concentration slurry disposal system on the lime pond. Fly Ash utilization plan shall be submitted to the RPCB with in six months. Ash generated shall be used in a phased manner. By the end of 7 th year full fly ash utilization shall be ensured; however in line the provision under Fly Ash Notification 1999 (amended till date).	The Total Bottom ash & Fly ash is being used in our Cement Plant as per guideline of Fly ash Utilization Notification.
(xxiv)	Electrostatic Precipitator (ESP) with 99.9% efficiency shall be installed to control particulate emission within the prescribed limit up to 100mg/Nm ³ . The ESP will be interlocked with the boiler so that, in the event of non functioning of ESP, the power plant	There is no ESP tripping occurred during operation

	shuts down instantly. As proposed, the ESP shall be connected with the ash handling system.	
(xxv)	Fugitive dust emission shall be controlled as per CPCB guidelines on Fugitive Dust emissions. The PP shall elaborate fugitive dust emission control plan at all area including storage areas, closed transportation systems, mechanical material handling system and wherever possible conversion of non-point source emission to point source emission through creation of vacuum of suction.	Bag filters are provided at Transfer points to control the fugitive dust emission.
(xxvi)	The Hazardous waste generated shall be disposed in accordance with provision under the "Hazardous Waste (Management, Handling and Trans boundary Movement) Rules 2008 (amended till date).	Hazardous waste is being sold out to authorised recyclers.
(xxvii)	Plantation shall be carried out in an area of 33% of the premises. The peripheral plantation shall be carried out in minimum two rows (in staggered manner) to minimize the effects of air pollution. Every year due care shall be taken to replace the casualties.	Plantation will be done in an area of 33 % of the total plot area. We have planted 11062 nos within the premises of Mangrol Cement plant & Power plant in FY 2014-15.
(xxviii)	The management shall provide an effective rainwater harvesting system and optimize the cost of conservation. Central Groundwater Authority/Board shall be consulted for finalization of appropriate water harvesting schemes/structures within a period of three months from the date of clearance.	We have already adopted rain water harvesting system as our power plant will come in existing cement plant premises.
(xxix)	Infrastructure facility including sewage treatment and its sanitary disposal, first aid and shall be made for the project personnel/contract labour and drivers during construction phase.	We have provided infrastructure facilities to the project personnel contract labour and drivers during construction phase.
(xxx)	Regular monitoring of the air quality shall be carried out in and around the power plant and records be maintained. All air, water and other monitoring shall be carried out through a MoEF/NABL/CPCB/Government approved laboratories. Six monthly reports shall be submitted to the RPCB and the Regional Office of Ministry at Lucknow /SEIAA, Rajasthan.	We have separate Environment cell for regular monitoring. Six monthly compliance reports are being regularly sent to MOEF /SPCB/CPCB. Moreover Soft copy of compliance report being posted at company website.
(xxxi)	Regular monitoring of the air quality shall be carried out in and around the power plant (mostly in downwind direction) and records be maintained. Six monthly reports shall be submitted to the RPCB and the MoEF, Regional Office at Lucknow and SEIAA, Rajasthan. The PP shall make concrete efforts to reduce CO2 emission to the atmosphere (calculated at the rate of 997 gms of CO2/kWh) of power generated.	Regular monitoring of air quality is being carried out & monitoring report regularly submitted to RSPCB, MOEF Regional Office and SEIAA.
(xxxii)	Regular monitoring of ground water in and around the ash disposal area shall be carried out, record maintained.	Not Applicable. As we are utilizing flyash in our cement plant.
(xxxiii)	Carry out regular analysis of ash for mercury content, the mercury content shall be less than 25 ppm.	Agreed
(xxxiv)	Leq of noise level shall be limited to 75 dB (A) and regular maintenance of equipment is undertaken. For people working in the high noise area, earplug shall be provided.	Complied with, we will provide ear plug for people working in the high noise area.
(xxxv)	For controlling fugitive dust, regular sprinkling of water in coal storage area and other vulnerable areas of the plant shall be ensured.	Complied with, we will ensure to control fugitive emission by regular sprinkling of water in coal storage area and other vulnerable areas.

(xxxvi)	As proposed, effective fire fighting system shall be provided and mock drills be carried out as per Fire & safety Rules.	Complied with, already in practice in our Cement Plant.
(xxxvii)	As stated, the P.P. shall year mark and spend and amount of Rs. 628 lakhs towards cost of implementing the Environmental Management Plan.	Complied
(xxxviii)	As stated, the P.P. shall year mark and spend and amount of Rs. Capital cost (Main): Rs.2.25 crores. Capital cost: Rs. 0.47 crores (for 1 year) and Recurring cost: Rs. 1.78 crores (for 5 years) for implementing the Social welfare and community development schemes under C.S.R. activities.	Complied with, We have spent Rs. 6771000/- in FY 2014-15 in surrounding village i.e. Arniya Joshi, Mangrol, BadoliGhata, FhacherAhiran, Nimbahera, shambhupura, Chittorgarh, Udaipur, Bhawaliya and Karunda for Socioeconomic welfare measures under various heads like Rural Development, Religious, Infrastructure/Water supply, Preventive healthcare, Education, Environment promotion, Medical and health facility.
(xxxix)	The project proponent shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned, informing that the project has been accorded environmental clearance and copies of clearance letters are available with the SEIAA, Rajasthan and RPCB.	We have already advertised in two local newspapers on 19.09.2013.
(xl)	A separte environment monitoring cell with suitable qualified staff shall be set up for implementation of the stipulated environmental safeguards.	Already we have a separate Environment Cell with qualified staff.
(xli)	Education and Skill mapping should be carried out by the PP on the basis of secondary data and submitted to RPCB and MoEF, Regional Office at Lucknow.	Will be complied, we will submit report to RPCB and MoEF, Regional Office at Lucknow.
(xlii)	Post Project monitoring shall be carried out as proposed and half yearly report on the status of implementation of the stipulated conditions and environmental safeguards shall be submitted to RPCB/CPCB and the MoEF, Regional Office at Lucknow and SEIAA, Raj.	Complied with, We will carry out as proposed half yearly report on the status of implementation of the stipulated conditions and environmental safeguards and will be submitted to RPCB/CPCB and the MoEF, Regional Office at Lucknow and SEIAA, Raj.
(xliii)	Regional Office of the MoEF located at Lucknow and RPCB shall monitor the implementation of the stipulated conditions. A complete set of document including Environmental Impact assessment Report and Management Plan shall be forwarded to these organizations for use during monitoring.	Will be complied.
(xliv)	Full cooperation shall be extended to the officers of RPCB/CPCB/MoEF Regional Office at Lucknow, who would be monitoring the compliance of environment status.	We will definitely cooperate to the officers of RPCB/CPCB/MoEF Regional Office at Lucknow.
(xlv)	The environmental clearance is subjected to any litigation pending before any courts of Law/tribunal/legal body in the State/Country, if any.	Agreed.
(xlvi)	The SEIAA, Rajasthan reserves the right to add new, annual/modify existing stipulated conditions, and/or revoke the clearance if these conditions are not implemented to its satisfaction, in the interested of environmental protection.	Agreed.
(xlvii)	The environmental clearance accorded shall be valid for a period of 5 years from the date of start of operation by the power plant.	Agreed.
(xlviii)	In case of any deviation or alteration in the proposed project from that submitted for clearance, a fresh reference shall be made to the SEIAA, Rajasthan to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.	Agreed.

(xlix)	<p>Necessary permission shall be obtained from the Chief Controller of Explosives and Factory Inspectorate for the storage of lignite.</p> <p>1. The above stipulations shall be enforced along with others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, The Manufacture, Storage and Import of Hazardous Chemical Rules, 1989, Hazardous Wastes (Management and Handling) Rules, 2008, the Public Liability Insurance Act, 1991 and</p> <p>li. Document to be provided at the time of applying to RPCB for Consent to Establish/Operate:</p> <ul style="list-style-type: none"> • Approval of competent authority to the proposed Fire Fighting Plan. • The PP shall obtain and submit copy of approval N.O.C. Of competent authority in CGWA for using ground water, for the project. • Source and Period of Socio Economic data used in the report to be provided. • Details of Flora and Fauna in the study area duly authenticated by the concerned DFO. • Source of data and date of collection to be as per the TOR. <p>lii. A voluntary commitment of the Social responsibility activities to be undertaken by the project proponent and the budgeted amount proposed for such activity.</p>	<p>Noted.</p> <p>We have granted Consent to establish under Air & Water act vide letter no. F (CPM)/Chittorgarh(Nimbahera)/7(1)/2013-2014/6130-6132 for 25 MW CPP and vide letter no. F (CPM)/Chittorgarh(Nimbahera)/7(1)/2013-2014/6133-6135 for 10MW WHR on dated 28.10.2013.</p> <p>Moreover we have obtained Consent to operate of the 25 MW CPP vide letter no. F (CPM) / Chittorgarh(Nimbahera) / 7(1) /2013 – 2014 / 481 – 484 dated 25.04.2014 and for WHR vide letter no. F (CPM) / Chittorgarh (Nimbahera) / 8 (1) / 2013 – 2014 / 477 – 480 dated 25.04.2014</p> <p>Complied with.</p>
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