

Ref. No.: PN/EMD/MoEF/F 01/028

Dated: 25.11.2020

To,  
Regional Office (WZ),  
Kendriya Paryavaran Bhawan,  
E-5, Arera Colony, Link Road-3,  
Ravi Shankar Nagar  
**BHOPAL – 462 016**  
E-Mail: rowz.bpl-mef@nic.in

**Subject:** Half Yearly (April' 2020 to September' 2020) Environmental Clearance Compliance Report of Greenfield integrated Clinker/ Cement manufacturing unit (5.28MTPA Clinker; 6.0MTPA Cement) and captive power plant including waste heat recovery plant and Power generation thorough WHRB (80 MW FBC; 30 MW WHRB) of M/s. Jaykaycem (Central) Ltd located at Village Devra, Hardua, Puraina, Sotipura & Madaiyan, Tehsil: Amanganj (Old Pawai), Dist. Panna, Madhya Pradesh.

Ref.: **Environment Clearance vide no IA-J-11011/224/2016-IA.II(I) dated 14.10.2020.**

Dear Sir,

With reference to above stated Environment Clearance (EC) Half Yearly (April' 2020 to September' 2020) Environmental Clearance Compliance Report of Greenfield integrated Clinker/ Cement manufacturing unit (5.28MTPA Clinker; 6.0MTPA Cement) and captive power plant including waste heat recovery plant and Power generation thorough WHRB (80 MW FBC; 30 MW WHRB) of M/s. Jaykaycem (Central) Ltd located at Village Devra, Hardua, Puraina, Sotipura & Madaiyan, Tehsil: Amanganj (Old Pawai), Dist. Panna, Madhya Pradesh. As per MoEF & CC notification no. S.O. 5845 (E) 26.11.2018 the same soft copy has been send to below email id for your kind reference and record please. We trust you will find the same in order.

Thanking you,

Yours Sincerely

For: Jaykaycem (Central) Limited



Aditya Pratap Singh  
(Authorised Signatory)

Encl.: 1. Copy of Environmental Clearance Compliance Status Report.  
Soft copy by mail to:

1. Member Secretary, MP Pollution Control Board, Paryawaran Parisar, E-5, Arera Colony, Bhopal (MP). E. mail: ms-mppcb@mp.gov.in.
2. Regional Officer, Regional Office, MP Pollution Control Board, Makronia, Sagar (MP)  
E. mail: ropcb-sagar@mp.gov.in.
3. Regional Director- CPCB, Paryawaran Parisar, E-5, Arera Colony, Bhopal (MP) – E. mail: cpcb.bhopal@gmail.com



### **EC Compliance Report (Period from April' 2020 to September' 2020)**

**Greenfield integrated Clinker/ Cement manufacturing unit (5.28MTPA Clinker; 6.0MTPA Cement) and captive power plant including waste heat recovery plant and Power generation thorough WHRB (80 MW FBC; 30 MW WHRB) of M/s. Jaykaycem (Central) Ltd located at Village Devra, Hardua, Puraina, Sotipura & Madaiyan, Tehsil: Amanganj (Old Pawai), Dist. Panna, Madhya Pradesh.**

**Environment Clearance vide no IA-J-11011/224/2016-IA.II(I) dated 14.10.2020**

#### **Specific Condition**

<b>S. No.</b>	<b>EC Conditions</b>	<b>EC Compliances</b>
i.	Project proponent shall comply with the outcome of the court case pending before the Lok Adalat, Panna.	Agreed to comply with the directions of the Adalat.
ii.	<p>Following points shall be complied.</p> <p>a. Residential colony as proposed by PP in North East direction of the plot is not permitted. PP shall not construct any residential accommodation inside the project area.</p> <p>b. CPP shall be relocated in the area allocated for colony to reduce dust and noise impact on village in south west area of the proposed site.</p> <p>c. A 100 m wide green belt shall be provided on south west side of the plant to protect the village from pollution.</p> <p>d. Revised lay out map to this effect shall be furnished within 15 days to the Ministry and its Regional Office for records.</p>	<p>a. Agreed not to construct the residential colony in NE direction of the plant.</p> <p>b. Agreed to install the CPP in NE direction of plant.</p> <p>c. Agreed to develop green belt of 100m wide in SW side of the plant boundary towards the village.</p> <p>d. Revised layout has already been submitted to the Ministry on 15.10.2020 in soft copy by mail.</p>
iii.	No further addition of plant and machinery shall be permitted in the present plot for capacity expansion.	Agreed to take prior permission from the Ministry for addition of plant and machinery for increase of capacity.
iv.	Only surface water shall be used and ground water abstraction shall not be permitted.	<p>The source of the water for the plant will be as given below:-</p> <p>1. No ground water will be used for industrial purpose &amp; ground water will be used for drinking &amp; domestic will be used as per the CGWA NOC No. CGWA/NOC/IND/ORIG/2020/7350, dated 05.02.2020 for use of ground water.</p> <p>2. Water required for the plant will be met from mine (rain water and seepage due to intersection), rain water collected in plant area.</p> <p>3. River water.</p>
v.	CER expenditure shall be Rs. 38.80 Crores and all CER activities shall be executed in three years.	CER activities will be completed in 3 years from start of project.
vi.	Health checkup center for Employees and Community shall be arranged with Health cards to neighboring community dwellers.	Agreed to develop Health center at the site for Employees and Community. Regular health checkup will be carried out for all employees as per the factory Act. Medical facilities will be provided free of cost to the nearby community.
vii.	Particulate emission shall be restricted to 20mg/Nm <sup>3</sup>	Agreed and will be complied with.



	instead of 25 mg/Nm <sup>3</sup> as proposed by PP. PP had agreed for the revised PM levels as the site has dwellings and agriculture land just within 200 m from plant boundary.	
viii.	Energy consumption in proposed plant (Thermal- 725 Kcal/kg Clinker; OPC 95 kwh/t and PPC- 70 kwh/t) is very high in comparison to other cement plants in India (Thermal- 670 kcal/kg; OPC- 85 kwh/t and PPC- 65 kwh/t). PP shall install state of the art technology to conserve energy and meet GOI's targets for GHG emissions.	Agreed to install the plant with best available technology to meet the desired energy and GHG emission targets.
ix.	2-3% Alternate fuels shall be used. Monitoring of emissions shall be carried out as per MoEF&CC notifications applicable to use of alternate fuels.	Agreed to use 2 to 3 % of Alternate fuels and emission level will be monitored as per the MoEF&CC Notification.
x.	Greenbelt shall be provided in the villages on southern side of the plant area. This will in addition to normal green belt of 33 % inside the plant using 2500 trees per ha.	Agreed to achieve the plantation in 33% of the plant premises within 4 years as presented before the EAC while seeking the EC with density of 2500 trees/ha of native species.
xi.	Plant shall operate on ZLD.	ZLD shall be maintained. Sewage water will be treated in STP and treated water will be used for plantation. Waste water generated from the power plant will be recycled in the mill spray.
xii.	100 % Solid waste generated shall be reused.	No solid waste will be generated from the plant. However, material collected in PCM shall be recycled in the process.
xiii.	All plant roads shall be paved and cleaned regularly using industrial vacuum cleaners. Dust collected from roads and shop floors shall be recycled.	Agreed to construct all roads and movement area pucca, cleaning by vacuum cleaner and reuse of collected material in plant.
xiv.	RWH and GW recharge shall be carried out to recharge more than 100 % of annual water consumption.	Agreed to develop rain water harvesting system within the plant and mine area more than 100% of annual consumption.
<b>B. General EC Conditions:</b>		
<b><u>I. Statutory compliance</u></b>		
i.	The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.	Agreed and noted for compliance of all applicable legislation.
<b><u>II. Air quality monitoring and preservation</u></b>		
i.	The project proponent shall install 24x7 Continuous Emission Monitoring System (CEMS) at process stacks to monitor stack emission as well as Continuous Ambient Air Quality Station (CAAQS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and	<ol style="list-style-type: none"> <li>1. Opacity meter will be installed at the stack of Kiln, Clinker Cooler, Cement mill, Coal mill and Boiler.</li> <li>2. CEMS for SO<sub>2</sub>, NO<sub>x</sub> and O<sub>2</sub> shall be installed at the stack of kiln and Boiler.</li> <li>3. AAQMS shall be installed for PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub> and CO.</li> </ol>



	calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	4. All AAQMS and CEMS will be connected with CPCB and SPCB sever and will be calibrated as per equipment specification through NABL accredited Lab.
ii.	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act, 1986	Agreed to monitor the fugitive emission in every quarter at the raw material unloading, storage and packing plant area by the recognized Lab under EP Act.
iii.	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	Agreed to provide leakage detection system and mechanized bag cleaning facilities.
iv.	Ensure covered transportation and conveying of ore, coal and other raw material to prevent spillage and dust generation; Use closed bulkers for carrying flyash;	Raw material will be transported through covered vehicles and fly ash in closed bulkers.
v.	Provide wind shelter fence and chemical spraying on the raw material stock piles; and	Agreed to provide wind shelter fence and water spray on the raw material stock piles.
vi.	Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land by the use of covered conveyor belts/railways as a mode of transport	Limestone shall be transported through conveyor belt and other raw materials/product by covered transport. Nearby Railway transportation will be explored for transportation.
vii.	Ventilation system shall be designed for adequate air changes as per the prevailing norms for all tunnels, motor houses, cement bagging plants.	Agreed to provide ventilation system for all tunnels, motor houses, cement bagging plant.
<b>III. Water quality monitoring and preservation</b>		
i.	The project proponent shall regularly monitor groundwater quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.	Agreed to monitor ground water quality twice a year (pre and post monsoon) of plant and adjacent areas through recognized Lab under EP Act./NABL accredited Lab.
ii.	Adhere to 'Zero Liquid Discharge'.	Agreed to maintain ZLD. No waste water shall be generated from the process. Waste water from power plant will be used in mill spray. Sewage water will be treated in STP and treated water will be used for plantation.
iii.	Sewage Treatment Plant shall be provided for treatment of domestic waste water to meet the prescribed standards.	Agreed to install STP to treat the sewage water to the prescribed standards.
iv.	Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface runoff	Agreed to provide garland drains and collection pits for stock pile to arrest the run-off generated during raining season.
v.	Water meters shall be provided at the inlet to all unit processes in the cement plant	Agreed to provide water meters at the inlet to all unit processes.
vi.	The project proponent shall make effort to minimize water consumption in the cement plant complex by segregation of used water, practicing cascade use and by recycling treated water.	Agreed to implement the best practices of water conservation including treatment of sewage water in STP and use for plantation and power plant waste water in mill spray.



<b>IV. Noise and vibration monitoring and prevention</b>		
i.	Noise quality shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report	Agreed to monitor Noise quality as per the prescribed norms and will submit report to Regional Officer of the Ministry with six-monthly compliance report.
<b>V. Energy Conservation measures</b>		
i.	Energy conservation measures may be adopted such as adoption of solar energy and provision of LED lights etc. to minimize the energy consumption.	Agreed to implement the energy conservation measures including LED lights, Solar energy and VFD etc.
ii.	Maximize utilization of alternate fuels and Co-processing to achieve best practice norms	Agreed to utilize AFR fuel in kiln to implement with best practices.
<b>VI. Waste management</b>		
i.	Kitchen waste shall be composted or converted to biogas for further use.	Agreed we will explore the possibility for the same to install kitchen composting plant.
<b>VII. Green Belt</b>		
i.	Green belt shall be developed in an area 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.	Green belt in 33% of the project area will be developed in 4 years from the start of project. Native species will be planted as per CPCB guidelines.
ii.	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration including plantation.	Agreed to prepare GHG emissions inventory and will submit program for reduction of the same including carbon sequestration by plantation.
<b>VIII. Public hearing and human health issues</b>		
i.	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Agreed to prepare and implement the Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan.
ii.	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	Local labour shall be preferred. For others, necessary infrastructure and facilities will be provided such as temporary housing, fuel, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc.
iii.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained.	Occupational health surveillance of the employees & workers will be carried out on a regular basis and records will be maintained.
<b>IX. Corporate Environment Responsibility</b>		
i.	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.	CER proposal will be implemented as per Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018.
ii.	The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard	Company has Corporate Environmental Policy duly approved by the Board.



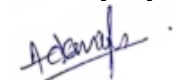


	operating procedures to have proper checks and balances and to bring into focus any infringements/ deviation/ violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.	
iii.	A Separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.	Agreed to establish a separate 'Environmental Management Cell' headed by HOD (Env.) and under the control of Unit Head of the company.
<b>X. Miscellaneous</b>		
i.	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.	Published in two local newspapers namely Nav Swadesh and Raj Express dated 15.10.2020 and copy has been submitted to the Ministry and its regional office.
ii.	The copies of the environmental clearances shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	Copy of the environmental clearance has been sent by speed post to the Heads of local bodies, Panchayats & to Government bodies submitted by hand.
iii.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	Agreed to submit six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards to the MoEF&CC & its concerned Regional Office, Central Pollution Control Board and State Pollution Control Board along with result of monitored data.
iv.	The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectorial 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.	Agreed to monitor the criteria pollutants level namely; PM10, PM2.5, SO2, NOx in ambient air, PM in the stack of Kiln, Coal mill, Clinker cooler, Cement mill and Boiler, SO2 and NOx in the stack of kiln and Boiler and data will be displayed at plant main gate and will be put at company's website. Real time data will be link with the CPCB & SPCB server.
v.	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	Agreed to submit six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards to the MoEF&CC & its concerned Regional Office, Central Pollution Control Board and State Pollution Control Board shall be submitted.



vi.	The project proponent shall 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.	Agreed to submit environmental statement in Form-V annually.
vii.	The project proponent 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, commencing the land development work and start of production operation by the project.	We will inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project, commencing the land development work and start of production operation by the project.
viii.	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	We hereby submit the commitment that we will implement/ executed all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also during the presentation to the Expert Appraisal Committee.
ix.	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
x.	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Agreed
xi.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Agreed
xii.	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Agreed
xiii.	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.	Agreed
xiv.	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.

Yours Sincerely  
For: Jaykaycem (Central) Limited



Aditya Pratap Singh  
(Authorised Signatory)

