

May 14, 2022

To,  
Director,  
Regional Office (Central Region),  
Ministry of Environment, Forest & Climate Change (MoEF & CC),  
Lucknow (UP).

**Sub: The Environmental Clearance granted by MoEF for Jaypee Chunar Cement Products (A Unit of Jaypee Cement Corporation Ltd.) for manufacturing of 1,00,000 ton per annum Asbestos Cement Sheet at Chunar, Distt. Mirzapur, U.P. 231311**

**Ref.No: MoEF&CC, Environmental Clearance Letter No. J-11011/436/2009-IA II (I) Dt. 04.10.2011,**

Dear Sir,

With reference to above mentioned Environmental Clearance letter vide dated 04.10.2011, we are pleased to enclosed herewith the Six Monthly EC Compliance Report of the conditions contained in the Environmental Clearance for the period October' 2021 to March' 2022 as per guidelines.

Kindly acknowledge the same.

Thanking you,

Yours faithfully

**For JAYPEE CHUNAR CEMENT PRODUCTS**

(A Unit of Jaypee Cement Corporation Ltd.)



**(R.K.Verma)**  
**Vice President**

**CC:** Member Secretary, Central Pollution Control Board, New Delhi.  
Member Secretary, U.P. Pollution Control Board, Lucknow (U.P.).  
Regional Office, U.P. Pollution Control Board, Robertsganj (U.P.).

**Encl:** As stated above.

**Name of the Project:** Jaypee Chunar Cement Products,  
A Unit of Jaypee Cement Corporation Ltd.  
for manufacturing of 1,00,000 ton per annum Asbestos Cement Sheet  
At Chunar, Distt. Mirzapur, U.P. 231311,  
No.J-11011/436/2009-IA II (I) Dt. 04.10.2011  
**Clearance Letter No:**  
**Period of Compliance Report :** October 2021 to March 2022

S.N	SPECIFIC CONDITIONS	COMPLIANCE STATUS
i	The project proponent shall adhere to the prescribed BIS standards and laws regarding use and handling of asbestos, safety of employees etc. Raw materials like asbestos fiber and cement shall be transported in closed containers. Asbestos fiber shall be brought in pelletized form in impermeable bags and under compressed condition.	All the BIS standards and laws of safety are followed for handling of asbestos. The asbestos bags are handling in closed circuit without exposure to workmen.
ii	Only Chrysotile white asbestos fiber shall be used. Blue asbestos shall not be utilized as raw material in the manufacturing process.	Only Chrysotile white asbestos fiber is used for manufacturing of asbestos sheet. Material safety data have already been submitted with report vide our letter no. JCCL/JCCP/ENV COMP-2/2015 on dated May 28, 2015.
iii	There shall be no manual handling/ opening of asbestos fiber bags. The company shall install fully automatic asbestos fiber debagging system before commissioning the unit. Mechanized mixing of the raw materials shall be explored.	Fully Automatic Asbestos Fiber Bag Opening Machine is installed and commissioned for handling of asbestos fiber bags.
iv	Fugitive emissions shall be controlled by bringing cement in closed tankers, fly ash in covered trucks and asbestos in impervious bags opening inside a closed mixer, Dust collectors shall be provided to Fiber mill, Bag opening device (BOD), Cement and Fly ash silos to control emissions. Bags filters followed by wet washer shall be provided at automatic bag opening machine, bag shredder, fiber mill and the cement silo to collect the dust and recycle it into the process. Fugitive emissions generated from hopper of jaw crusher and Pulverizer shall be channelized through hood with proper suction arrangement, bag filter and stack.	High efficiency pulse jet bag filters have been installed at various locations for controlling fugitive emission and details of High efficiency pulse jet bag filters have already been submitted with report vide our letter no. JCCL/JCCP/ENV COMP-2/2015 on dated May 28, 2015.



JAYPEE CHUNAR CEMENT PRODUCTS  
A Unit of Jaypee Cement Corporation Ltd



v The company shall comply with total dust emission limit of 2 mg/Nm<sup>3</sup> as notified under the Environment (Protection) Act, 1986. Adequate measures shall be adopted to control the process emission and ensure that the stack emission of asbestos fiber shall not exceed the emission limit of 0.2 fiber/cc. Asbestos fiber in work zone environment shall be maintained within 0.1 fiber/cc.

1. High efficiency pulse jet bag filters have been installed at various locations for controlling of total dust emission from stack below 2 mg/Nm<sup>3</sup> and stack emission of asbestos fiber will not exceed the limit of 0.2 fiber/cc. Work zone environment will be maintained within 0.1 fiber/cc. Emission monitoring reports are sent to the Ministry's Regional Office at Lucknow, CPCB and UPPCB regularly. The details are as under
2. Avg. Stack Emission of **Automatic Fiber Bag Opening m/c & Fiber Count (Fiber/cc)** Monitoring data for the period October 2021 to March 2022 is as under

Sr. No	Sampling Location	AVG. Pollutant Concentration	CPCB /UPPCB Standard
1	PM (mg/Nm <sup>3</sup> )	1.41	2.0 mg/Nm <sup>3</sup>
2	Fiber/cc	0.042	0.2 Fiber/cc

3. Avg. Workplace Monitoring data for the period October 2021 to March 2022 is as under

Sr. No	Sampling Location	AVG. Pollutant Concentration (Fiber/CC)	CPCB /UPPCB Standard
1	Fiber Mill Area	0.048	0.1 Fiber/cc
2	Plant Area	0.039	
3	Hard Ground Waste Area	0.042	
4	Sheet Sorting Area	0.057	

vi	Bags containing asbestos fiber shall be stored in enclosed area to avoid fugitive emissions of asbestos fiber from damaged bags, if any.	The bags containing asbestos fiber are stored in covered shed.												
vii	<p>Proper housekeeping shall be maintained within the plant premises. Process machinery, exhaust and ventilation system shall be laid in accordance with the Factories Act. Better housekeeping practices shall be adopted for improvement of the environment within the work environment also. These include.</p> <p>(a) All monitoring transfer points shall be connected to dust extraction system.</p> <p>(b) Leakages or dust from machines and ducts shall be plugged.</p> <p>(c) Floor shall be cleaned by Vacuum cleaner only.</p> <p>(d) Enclosed belt conveyor shall be used instead of manual transportation of asbestos within the premises.</p>	<p>Proper housekeeping is being ensured in plant area and cleaning of shop floor area by vacuum cleaning machine.</p> <p>Already Complied</p> <p>Already Complied</p> <p>Already Complied</p> <p>Already Complied</p>												
viii	Quarterly monitoring of pollutant (PM10, asbestos fiber count) in the work zone area and stack(s) shall be undertaken by the Project proponents. In addition, the asbestos fiber count in the work zone area shall be monitored by an independent monitoring agency like NIOH / IRTC / NCB or any other approved agency and reports submitted to the Ministry's Regional Office at Lucknow, SPCB and CPCB.	<p>Emission monitoring reports are sent to the Ministry's Regional Office at Lucknow, CPCB and UPPCB regularly.</p> <p>1. Avg. Stack Emission of <b>Automatic Fiber Bag Opening m/c</b> Monitoring data for the period October 2021 to March 2022 is as under:-</p> <table><tr><th>Sr. No</th><th>Sampling Location</th><th>AVG. Pollutant Concentration</th><th>CPCB /UPPCB Standard</th></tr><tr><td>1</td><td>PM (mg/Nm<sup>3</sup>)</td><td>1.41</td><td>2.0 mg/Nm<sup>3</sup></td></tr><tr><td>2</td><td>Fiber/cc</td><td>0.042</td><td>0.2 Fiber/cc</td></tr></table>	Sr. No	Sampling Location	AVG. Pollutant Concentration	CPCB /UPPCB Standard	1	PM (mg/Nm <sup>3</sup> )	1.41	2.0 mg/Nm <sup>3</sup>	2	Fiber/cc	0.042	0.2 Fiber/cc
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JAYPEE CHUNAR CEMENT PRODUCTION Corporation Ltd



2. Avg. Workplace Monitoring data for the period October 2021 to March 2022 is as under

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1	Fiber Mill Area	0.048	0.1 Fiber/cc
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4	Sheet Sorting Area	0.057	

**ix** Total water requirement shall not exceed 100 M<sup>3</sup>/day. All the recommendations of the State Ground Water Department, Govt. of U.P. shall be implemented in time bound manner.

The total water Consumption is below **100 M<sup>3</sup>/day** and all the recommendations are implemented.

**X.** As reflected in the Environment Management Plan, all the treated effluent shall be recycled and reused in the manufacturing process. No process water shall be discharged outside the premises and 'Zero' discharge shall be maintained. All the domestic wastewater shall be treated in STP and used for green belt development.

1. No effluent is being generated from the process. The plant has been designed on **Zero discharge basis**.  
2. STP has been commissioned and domestic waste water from plant and colony is treated in the sewage treatment plant.-The treated water is used for water sprinkling and green belt development.

**Xi.** The company shall ensure that the entire solid waste generated including process rejects, cement, fly ash dust from bag filters and empty asbestos bag shall be recycled back in the manufacturing process. Process sludge shall be 100% recycled and reused in the process. Hazardous waste shall be ground in dust proof pulverize with integrated bag filter and recycled back to the process. Asbestos fibers which cannot be further recycled due to contamination of iron dust shall be stored in HDPE lined secured landfill. The disposal facilities for asbestos waste shall be in accordance with the Bureau of Indian Standard Code.

The plant has been designed on Zero discharge basis and all the process waste has been recycled into the process used. The Hazardous waste is being pulverized and recycled back to process plant for reused. Proper handling of Chrysotile Asbestos, green belt plantation, control of fugitive emissions, control systems at source, zero waste disposal, complete recycling of solid waste and water, good housekeeping is being done.



<b>Xii.</b>	The cut and damaged fiber bags shall immediately be repaired. Empty fiber bags will be shredded in the fine particles in a bag shredder and recycled into the process. Pilling of AC Sheets shall be done in wet condition only.	The cut and damaged fiber bags are immediately used in the process. Empty fiber bags are shredded and recycled into the process. AC sheets will be stored in wet condition.
<b>Xiii.</b>	The company shall obtain a certificate from the supplier of Chrysotile fiber that it does not contain any toxic or trace metals. A copy of certificate shall be submitted to the Ministry of Environment and Forests.	Copy of certificate have already been submitted with report vide our letter no. JCCL/JCCP/ENV COMP-2/2015 on dated May 28, 2015
<b>Xiv.</b>	Regular medical examination of the workers and health monitoring of all the employees shall be carried out and if cases of asbestos are detected, necessary compensation shall be arranged under the existing laws. A competent occupational health physician shall be appointed to carryout medical surveillance. Occupational health of all the workers shall be monitored for lung function test, chest x-ray, sputum for acid-fast-bacilli (AFC) and asbestos body (AB), urine for sugar and albumen, blood tests for TLC, DLC, ESR, Hb and records maintained for at last 40 years from the beginning of the employment or 15 years after the retirement or cessation of employment whichever is later. Occupational Health Surveillance shall be carried out as per the directives of the Hon'ble Supreme Court including the recent Kalyaneswari Case.	Regular medical examination of the workers and employee is being done by company doctor. <b>22 employees</b> , health examined have been done during the period of October 2021 to March 2022 and no occupation disease has been noticed.
<b>Xv.</b>	To educate the workers, all the work places where asbestos dust may cause a hazard shall be clearly indicated as a dust exposure area through the use of display signs which identifies the hazard and the associated health effects.	Regular awareness training programme is being conducted by experts on safety and health. Displays of signage's about the handling of asbestos bags are displayed at various locations.
<b>Xvi.</b>	The company shall also undertake rain water harvesting measures for a storage capacity of minimum 2 - 3 months after studying the hydrogeology of the area and plan of action shall be submitted to the Ministry's Regional Office at Lucknow within three months.	Rain Water harvesting system has been installed for storm water.



<b>Xvii.</b>	Earth quack and Seismic hazard management plan shall be submitted to the Ministry's Regional Office at Lucknow within three months.	<b>Details have already been submitted vide our letter no. JAL/CCF/ENV.12/2012 on dated 28/01/2012</b>								
<b>Xviii.</b>	All the commitments made to the public during the Public Hearing /Public Consultation meeting held on 14th December, 2010 shall be satisfactorily implemented and a separate budget for implementing the same should be allocated and information submitted to the Ministry's Regional Office at Lucknow.	Already Compiled								
<b>Xix.</b>	Green belt shall be developed in a least 33% of plant area as per the CPCB guidelines in consultation with the DFO. Green belt development shall be started within 3 months after obtaining EC and completed within three years or before commissioning of the plant whichever is earlier.	Green belt has already been developed in 33% area around the project site. The process of fresh plantation is regularly followed Details of the fresh Tree Plantation done during October 2021 to March 2022 are as under. <table><tr><th>Total plantation</th><th>Nos. Of survived</th><th>Plant</th><th>Survival rate in Percentage</th></tr><tr><td>1270</td><td>1118</td><td></td><td>88 %</td></tr></table>	Total plantation	Nos. Of survived	Plant	Survival rate in Percentage	1270	1118		88 %
Total plantation	Nos. Of survived	Plant	Survival rate in Percentage							
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<b>XX.</b>	At least 5% of the total cost of the project shall be earmarked towards the Enterprise Social Commitment based on public hearing issues and item-wise details along with time bound action plan should be prepared and submitted to the Ministry's Regional Office at Lucknow. Implementation of such program should be ensured accordingly in a time bound manner.	It will be implemented								
<b>Xxi.</b>	The company shall provide housing for construction labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, 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	<b>Not applicable as construction phase is over.</b>								
<b>B</b>	<b>GENERAL CONDITIONS</b>									
<b>i</b>	The project authorities must strictly adhere to the stipulations made by the Uttar Pradesh Pollution Control Board and the State Government.	Noted and All the conditions/stipulations by statutory authorities are implemented.								

ii.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	Noted and No expansion / modifications will be taken without the prior approval from ministry of environment & forest.																									
iii.	The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19th May, 1993 and standards prescribed from time to time. The State Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location.	Noted and Complied																									
iv.	At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM 10, SO <sub>2</sub> and Nox are anticipated in consultation with the SPCB, Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Lucknow and the SPCB/CPCB once in six months.	<p>1. Four ambient air quality monitoring stations are established in upwind and down wind direction where maximum ground concentrations of PM<sub>10</sub>, SO<sub>2</sub> &amp; NO<sub>x</sub> are anticipated. Monitoring of the suspended particulate matter for the stack &amp; ambient air quality is being carried out and the same is reported to UP Pollution Control Board on regular basis (every month). The average AAQMS data for the period October 2021 TO March 2022 is as under (All values in µg/m<sup>3</sup>):-</p> <table><tr><th>Locations Parameters</th><th>Water storage tank</th><th>Despatch gate of JCCP</th><th>JCCP time office</th><th>Electrical Sub- Station</th></tr><tr><td>AVG.PM<sub>10</sub></td><td>45.06</td><td>54.58</td><td>45.34</td><td>55.95</td></tr><tr><td>AVG.PM<sub>2.5</sub></td><td>19.04</td><td>25.45</td><td>16.64</td><td>25.91</td></tr><tr><td>AVG. SO<sub>2</sub></td><td>14.37</td><td>14.88</td><td>14.63</td><td>15.75</td></tr><tr><td>AVG. NO<sub>x</sub></td><td>17.12</td><td>17.70</td><td>17.20</td><td>18.50</td></tr></table>	Locations Parameters	Water storage tank	Despatch gate of JCCP	JCCP time office	Electrical Sub- Station	AVG.PM <sub>10</sub>	45.06	54.58	45.34	55.95	AVG.PM <sub>2.5</sub>	19.04	25.45	16.64	25.91	AVG. SO <sub>2</sub>	14.37	14.88	14.63	15.75	AVG. NO <sub>x</sub>	17.12	17.70	17.20	18.50
Locations Parameters	Water storage tank	Despatch gate of JCCP	JCCP time office	Electrical Sub- Station																							
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<b>V.</b>	Industrial wastewater 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. The treated wastewater shall be utilized for plantation purpose.	The plant has been designed on <b>Zero discharge condition</b> and all the industrial Effluent waste water recycled back into the process.
<b>Vi.</b>	The overall noise level in and around the plant area shall be kept well within the standards ( 85 dBA) 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 EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).	Overall noise level is kept below the standard 75 dBA. Acoustic enclosures and hoods are provided to control the noise level.
<b>Vii.</b>	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Complied. <b>Under occupational health surveillance, 22 employees and workers</b> have been examined and no occupation disease has been noticed during the period of October 2021 to March 2022.
<b>Viii.</b>	The company shall develop surface water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	Rain Water harvesting system has been installed for storm water
<b>Ix.</b>	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.	All the environment control measures and safeguards recommended in EIA-EMP report are complied. Socio-economic development activities in the surrounding villages like community development programs, educational programs, water supply & health care are undertaken.
<b>X.</b>	Requisite amount shall be earmarked towards capital cost and recurring cost / annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Lucknow. The funds so provided shall not be diverted for any other purpose.	Capital cost Rs. 40 Lacks per annum and recurring cost Rs 5.5 Lacks per annum for environmental pollution control measure and these investments will be used solely for pollution control measure. The Recurring expenditure for pollution control and environment protection during October 2021 to March 2022 is 4.065 Lakh.



<b>Xi</b>	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 be put up on the website of the company by the proponent.	A copy of clearance letter is submitted by the proponent to concerned Panchayat and Receiving copy of the letter <b>has already been submitted vide our letter no. JAL/CCF/Env./06/2012</b> on dated May 31, 2012.
<b>Xii.</b>	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF at Lucknow. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely ; PM 10, SO <sub>2</sub> and Nox ( ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain	Criteria pollutants PM 10, SO <sub>2</sub> and NO <sub>x</sub> ( ambient levels as well as stack emissions) is displayed on the main gate of the plant is under process and six monthly report is regularly submitted to MoEF , CPCB and UPPCB and same will be also uploaded on company website .
<b>Xiii.</b>	The project proponent shall also 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 e-mail) to the Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Lucknow/CPCB/SPCB shall monitor the stipulated conditions.	Monitoring report of the suspended particulate matter for the stack & ambient air quality is being reported to UP Pollution Control Board on every month and Six Monthly compliance is submitted to Zonal office of MOEF on regular basis. <b>As per MOEF &amp; CC notification no.-5845 ( E) new Delhi dated 26 November 2018</b> , Only soft copy of Six Monthly compliance is submitted through e-mail, to the Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB
<b>Xiv.</b>	The environmental statement of each financial year ending 31st 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 up on the website of the company along with the status of compliance of environment conditions and shall also be sent to the respective Regional Office of the MOEF at Lucknow by e-mail.	The environmental statement of financial year ending 31st March 2021 in Form – V and Environment Statement Report letter have already been submitted vide our letter no. JCCL/JCCP/ENV/ESR/2021-22 Dated July 20, 2021.



<b>Xv.</b>	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 of Environment and Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a> . This shall be advertised within seven days from the date of issue of the clearance letter, at least two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locally concerned and a copy of the same should be forwarded to the Regional Office at Lucknow.	<b>Already complied.</b> The Project has been accorded environmental clearance by the ministry has already been published in local news paper in Hindi as well as English on dated 11.10.2011. Copies already submitted vide our letter no. <b>JAL/CCF/Env./06/2012 on dated May 31, 2012</b>
<b>Xvi.</b>	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.	<b>Already complied.</b> The date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work have already been submitted vide our letter no. <b>JAL / CCF/ ENV. /06/2012 dated 31 May 2012</b>
<b>10</b>	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	<b>Noted &amp; agreed</b>
<b>11</b>	The Ministry reserve the right to stipulate additional conditions if found necessary. The company in a time bound manner shall implement these conditions.	<b>Noted &amp; agreed</b>
<b>12</b>	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 Wastes (management, Handling and Transboundary Movement) Rules, 2008 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.	<b>Noted and agreed.</b>

  
**JAYPEE CHUNAR CEMENT PRODU.**  
 -Unit of Jaypee Cement Corporation Ltd.