

# State Level Environment Impact Assessment Authority, Uttar Pradesh

## Directorate of Environment, U.P.

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To,

M/s JK Cement Works,  
Kamla Tower,  
Kanpur- 208001

Ref. No. 532 /Parya/SEAC/4214/2018

Date: 27 November, 2018

**Sub: Environmental Clearance for Establishment of Clinker Grinding Unit of capacity: 2 Million Ton Per Annum (5836.0 TPD) at Village- Satha, Tehsil- Koil, District- Aligarh, U.P. of M/s JK Cement Works, Aligarh. Regarding.**

Dear Sir,

Please refer to your application/letters 10-04-2018, 11-04-2018, 11-10-2018, addressed to the Chairman/Secretary, State Level Environment Impact Assessment Authority (SEIAA) and Director, Directorate of Environment Govt. of UP on the subject as above. The State Level Expert Appraisal Committee considered the matter in its meetings held on dated 22-10-2018 and SEIAA in its meeting dated 16-11-2018.

A presentation was made by the project proponent alongwith their consultant M/s Ascenso Enviro Pvt. Ltd. The proponent, through the documents submitted and the presentation made, informed the committee that:-

1. The environmental clearance is sought for Establishment of Clinker Grinding Unit of capacity: 2 Million Ton Per Annum (5836.0 TPD) at Village- Satha, Tehsil- Koil, District- Aligarh, U.P. of M/s JK Cement Works, Aligarh.
2. Terms of reference in the matter were issued through SEIAA letter dated 22/05/2018.
3. The public hearing was organized on 26/09/2018.
4. EIA was submitted by the project proponent through letter dated 11/10/2018.
5. Salient features of the project as submitted by the project proponent:

S.N.	Attributes	Clinker Grinding Unit
1	Proposed capacity of Plant	2.0 Million TPA (5836.0 TPD) Product : Cement: 2000000.0 TPA (5836.0 TPD)
2	Total project area	6.8318 Hectare or 16.87 Acre.
3	Total project cost	Rs. 26642.0 Lakhs.
4	No of working days	365.0 Days /Annum
5	Raw material and its Quantity	Clinker : 3853.0 TPD Gypsum : 283.0 TPD Fly Ash : 1700.0 TPD
6	Fuel Requirement	Diesel : 150 Lit/hr (For DG Set, Power Backup)
7	Water Requirement	Process (Inject) & Dust suppression: 144.0 KLD Industrial Cooling: 30.0 KLD (10.0 KLD Recycled)

		Domestic: 10.0 KLD Green Belt: 10.0 KLD Total water requirement : 184.0 KLD
8	Man Power Requirement	Total manpower requirement during the operational phase is estimated to be about 216 including contract labour approx.: 89 required for auxiliary services.
9	Power Requirement	The power requirement for the proposed cement (Clinker grinding unit) will be about 8000 KVA. Power will be sourced from Uttar Pradesh Power Corporation Ltd. (UPPCL).
10	Fresh Water Requirement	Total Water requirement : 194.0 KLD (Fresh Water: 184.0 KLD) Recycled water :10.0 KLD Sources : Ground Water
11	Waste Water Generation	No waste water will be generated from the proposed plant.
12	Domestic Water Requirement	Water requirement : 10.0 KLD Domestic Waste Water: 4.0 KLD Treatment : Waste water will be disposed through Septic and Soak pit.
13	Air Pollution Control Equipment	All major sources of Air pollution will be provided with Bag filters to maintain PM emissions level below permissible limits (i.e. <30.0 mg/Nm <sup>3</sup> ).
14	Details of Air Pollution Control Equipment	One Bag House for VRM and 12 Bag filters at different locations transfer point to control the emissions from fugitive sources.

6. Land use details:

Land Use	Area in sq. m.	%
Roof Top	3500	5.13
Open Space	13010	19.05
Green Belt Area	22590	33.07
Road & Paved	29200	42.75
Total Plot area	68300	100

7. Raw material required with daily consumption and transport:

Sr No	Particular	Raw Material (Daily Requirements)	Source of raw material & Mode of Transportation
1.	Clinker	3853.0 TPD	MP & Rajasthan
2.	Fly Ash	1700.0 TPD	Nearby Thermal Power Plant
3.	Gypsum	283.0 TPD	Rajasthan & MP

8. Plant capacity :

PARTICULARS	Production Capacity	PRODUCT DETAILS
Total Plant Capacity (PPC & OPC Cement Production)	2000000.0 TPA (5836.0 TPD)	Approx. : 90 % , Portland Pozzoiana Cement (OPC) and 10 % Ordinary Portland Cement (OPC) Daily Production Capacity : 5836.0 TPD ( Cement )

9. Plant and machinery details:

S No	Machines / Equipment Name	Capacity	Number of Machines
1	Clinker Silo	-	01 No
2	Fly Ash Silo	-	01 No
3	Vertical Roller Mill	250.0 TPH	01 No
4	Cement Silo (RCC)	-	01 No
5	Cement Silo (Steel)	-	01 No



6	Cement Packer	-	02 No
7	Bag House	-	01 No
8	Bag Filter	-	12 No
9	DG Set (02)	1250 KVA 250 KVA	01 No 01 No
10	VRM Mill Stack	45 meters	01 No

**10. Water requirement details:**

Project Activity	Total Water Requirement	Consume/ Losses	Recycle Water	Remarks
Process (Inject)/ Dust Suppression	144	144	--	The total water requirement for the proposed cement grinding unit will be 184.0 KLD which will be sourced from proposed bore well at the site.
Industrial Cooling	30	20	10	
Domestic	10	10	--	
Green Belt	10	10	--	
Total	194	184	10	
Source of Water	Ground Water through Bore Well	Ground Water (Application submitted in CGWA) and recommended from CGWB, NR Lucknow.		

**11. Solid waste generation details:**

1. DOMESTIC SOLID WASTE				
Category	Type of Waste	Color of Bins	Disposal Method	Total Waste (Kg/day)
Bio Degradable	Organic Waste	Green	Vermi-composting site within the project site	27.0
Non-Biodegradable	Recyclable Waste	Blue	Authorized Recycler	6.0
Non-Biodegradable	Inert Waste	Black	Nearby Landfill Site	2.0
	Total			35.0 Kg/day
2. Process Waste				
Solid waste	Quantity	Method of disposal		
Process Waste	Nil	Waste collected in Bag house and bag filters will collected and recycled into the process.		
3. Hazardous Waste Generation and Management				
S. No.	Solid waste	Quantity	Method of disposal	
1.	Used Oil	3.0 KL/ Annum	The used oil will be Sold to the vendors authorised by UPPCB for the treatment of the same.	

12. The project proposal falls under category-3(b) of EIA Notification, 2006 (as amended).

Based on the recommendations of the State Level Expert Appraisal Committee Meeting (SEAC) held on 22-10-2018 the State Level Environment Impact Assessment Authority (SEIAA) in its Meeting held on 16-11-2018 decided to grant the Environmental Clearance for proposed project along with subject to the effective implementation of the following general & specific conditions:-

**I. Statutory compliance**

- The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.





- ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- iii. The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (in case of the presence of schedule-I species in the study area).
- iv. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/ Committee.
- v. The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water / from the competent authority concerned in case of drawl of surface water required for the project.
- vi. The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.

**II. Air quality monitoring and preservation**

- i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R. No. 612 (E) dated 25<sup>th</sup> August, 2014 (Cement) and subsequent amendment dated 9<sup>th</sup> May, 2016 (Cement) and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- 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.
- iii. The project proponent shall install system carryout to Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM<sub>10</sub> and PM<sub>2.5</sub> in reference to PM emission, SO<sub>2</sub> and NO<sub>x</sub> in reference to SO<sub>2</sub> and NO<sub>x</sub> emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions . (case to case basis small plants: Manual; Large plants: Continuous).
- iv. The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality /fugitive emissions to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six- monthly monitoring report.
- v. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.
- vi. The project proponent shall provide leakage detection and mechanised bag cleaning facilities for better maintenance of bags.
- vii. Pollution control system in the cement plant shall be provided as per the CREP Guidelines of CPCB.
- viii. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
- ix. Ensure covered transportation and conveying of raw material to prevent spillage and dust generation; Use closed bulkers for carrying fly ash.
- x. Provide wind shelter fence and chemical spraying on the raw material stock piles.
- xi. Have separate truck parking area and monitor vehicular emissions at regular interval.





- xii. 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.
- xiii. Ventilation system shall be designed for adequate air changes as per ACGIH document for all tunnels, motor houses, cement bagging plants

**III. Water quality monitoring and preservation:**

- i. The project proponent shall install effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R. No. 612 (E) dated 25th August, 2014 (Cement) and subsequent amendment dated 9th May, 2016 (Cement) and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories. (Case to case basis small plants: Manual; Large plants: Continuous).
- ii. The project proponent shall monitor regularly ground water 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.
- iii. The project proponent shall submit monthly summary report of continuous effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
- iv. Adhere to Zero Liquid Discharge.
- v. Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.
- vi. 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 run off
- vii. The project proponent shall practice rainwater harvesting to maximum possible extent.
- viii. Water meters shall be provided at the inlet to all unit processes in the cement plant.
- ix. The project proponent shall make efforts to minimize water consumption in the cement plant complex by segregation of used water, practicing cascade use and by recycling treated water.

**IV. Noise monitoring and prevention**

- i. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- ii. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.

**V. Energy Conservation measures**

- i. 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.
- ii. Provide the project proponent for LED lights in their offices and residential areas.
- iii. Maximize utilization of fly ash, slag and sweetener in cement blend as per BIS standards.

**VI. Waste management**

- i. The waste oil, grease and other hazardous shall be disposed of as per the Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016.
- ii. Kitchen waste shall be composted or converted to biogas for further use. (to be decided





on case to case basis depending on type and size of plant).

**VII. Green Belt**

- 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 greenbelt shall inter alia cover the entire periphery of the plant
- 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.

**VIII. Public hearing and Human health issues**

- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- ii. The PP shall provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
- iii. 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, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- iv. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

**IX. Corporate Environment Responsibility**

- 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.
- ii. 11. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard 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 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 report to the head of the organization.
- iv. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry /Regional Office along with the Six Monthly Compliance Report.
- v. Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.
- vi. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the cement plants shall be implemented.

**X. Miscellaneous**

- i. Directions/suggestions given during public hearing and Commitment made by the project proponent should be strictly complied.





- ii. 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.
- iii. The copies of the environmental clearance 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.
- iv. 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.
- v. The project proponent shall monitor the criteria pollutants level namely; PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>x</sub> (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.
- vi. 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.
- vii. 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.
- viii. 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.
- ix. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- x. ii. 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.
- xi. 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).
- xii. 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.
- xiii. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xiv. The Ministry reserves the right to stipulate additional conditions if found necessary.
- xv. The Company in a time bound manner shall implement these conditions.
- xvi. 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.
- xvii. 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 Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.





xviii. 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. No construction/operation is to be started without obtaining Prior Environmental Clearance. Concealing factual data and information or submission of false/fabricated data and failure to comply with any of the conditions stipulated in the Prior Environmental Clearance attract action under the provision of Environmental (Protection) Act, 1986.

This Environmental Clearance is subject to ownership of the site by the project proponents in confirmation with approved Master Plan for Aligarh. In case of violation; it would not be effective and would automatically be stand cancelled.

The project proponent has to ensure that the proposed site is not a part of any no-development zone as required/prescribed/identified under law. In case of the violation this permission shall automatically be deemed to be cancelled. Also, in the event of any dispute on ownership or land use of the proposed site, this Clearance shall automatically be deemed to be cancelled.

Further project proponent has to submit the regular 6 monthly compliance report regarding general & specific conditions as specified in the E.C. letter and comply the provision of EIA notification 2006 (as Amended).

These stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006 including the amendments and rules made thereafter.



(Ashish Tiwari)  
Member Secretary, SEIAA

No..... /Parya/SEAC/4214/2018 Dated: As above

**Copy with enclosure for Information and necessary action to:**

1. The Principal Secretary, Department of Environment, Govt. of Uttar Pradesh, Lucknow.
2. Advisor, IA Division, Ministry of Environment, Forests & Climate Change, Govt. of India, Indira Paryavaran Bhawan, Jor Bagh Road, Aliganj, New Delhi.
3. Additional Director, Regional Office, Ministry of Environment & Forests, (Central Region), Kendriya Bhawan, 5th Floor, Sector-H, Aliganj, Lucknow.
4. District Magistrate, Aligarh.
5. The Member Secretary, U.P. Pollution Control Board, TC-12V, Paryavaran Bhawan, Vibhuti Khand, Gomti Nagar, Lucknow.
6. Copy to Web Master/ guard file.

(Ashish Tiwari)  
Member Secretary, SEIAA