

S. M. SAIYAD, IFS  
MEMBER SECRETARY  
SEIAA (GUJARAT)



STATE LEVEL ENVIRONMENT  
IMPACT ASSESSMENT  
AUTHORITY  
GUJARAT

Government of Gujarat

No. SEIAA/GUJ/EC/3(b)/463/2019

Date: 25 MAR 2019

By R P A D

Time Limit

Sub: Environment Clearance to M/s. J K Cement Works for setting up of stand-alone Cement grinding unit at S. No.: 1342/31327, 1336, 1328, 1333 & 1334, Village: Vadadala, Tal.: Balasinor, Dist.: Mahisagar. In Category 3(b) of Schedule annexed with EIA Notification dated 14/09/2006.

Ref: Your Proposal No. SIA/GJ/IND/30621/2018.

Dear Sir,

This has reference to your application along with Final EIA report dated 21/01/2019 submitted to SEIAA, seeking Environmental Clearance under Environment Impact Assessment Notification, 2006.

The proposal is for Environmental Clearance to M/s. J K Cement Works for setting up of stand-alone Cement grinding unit at S. No.: 1342/31327, 1336, 1328, 1333 & 1334, Village: Vadadala, Tal.: Balasinor, Dist.: Mahisagar. It is a proposed unit for manufacturing following products, which falls in the category - 3(b) of the schedule of the EIA Notification-2006:

Sr. no.	Name of the Products	CAS no. /CI no.	Quantity MT/Month	End-use of products
1.	Pozzolana Portland Cement (PPC) (Stand-alone grinding unit)	65997-15-1	94500 MT/Month (1 MMTPA)	For infrastructure development purpose & Construction of Building

The project activity is covered in 3(b) and is of 'B' Category. Public hearing was conducted on 20/12/2018.

The SEAC, Gujarat vide their letter dated 15/02/2019 had recommended to the SEIAA, Gujarat, to grant the Environment Clearance for the above-mentioned project based on its meeting held on 05/02/2019. The proposal was considered by SEIAA, Gujarat in its meeting held on 20/02/2019 at Gandhinagar. After careful consideration, the SEIAA hereby accords Environmental Clearance to above project under the provisions of EIA Notification dated 14<sup>th</sup> September, 2006 subject to the compliance of the following conditions.

**A. CONDITIONS :**

**A. 1 SPECIFIC CONDITION :**

1. Project proponent shall procure raw materials like Lime stone for the proposed project from the authorized mining units having Environmental Clearance as per the EIA Notification 2006, CTE & CC&A.
2. All the recommendations, mitigation measures, environmental protection measures and safeguards proposed in the EIA report of the project prepared by Greencindia Consulting Private Limited, Ghaziabad was submitted by project proponent vide letter no. NIL dated 12/12/2018 and commitments made during presentation before SEAC and proposed in the EIA report shall be strictly adhered.
3. Complete Zero Liquid Discharge [ZLD] status shall be maintained all the time and there shall be no drainage connection from the premises.
4. Unit shall comply provisions of MoEFCC's O.M. No. 22-65/2017-IA.III dated 01/05/2018 regarding Corporate Environment Responsibility (CER). Fund allocation for Corporate Environment Responsibility (CER) shall be made as per the said OM dated 01/05/2018 for various activities therein. Item-wise details along with time bound action plan shall be prepared and submitted to the concern authorities.
5. Unit shall comply all the applicable standard conditions prescribed in Office Memorandum (OM) published by MoEF&CC vide no. F. No. 22-34/2018-IA.III dated 09/08/2018 for Stand-alone Cement grinding units without Captive Power Plant as mentioned at Sr. no. xii.

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 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.

The project proponent must strictly adhere to the stipulations made by the Gujarat Pollution Control Board, State Government and/or any other statutory authority.



8. The National Ambient Air Quality Emission Standards issued by the Ministry vide G. S. R. No. 826 (E) dated 13th November, 2009 shall be complied with.
9. 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).
10. 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.
11. 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.
12. 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 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.
13. 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.
14. 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.
15. Ensure covered transportation and conveying of raw material to prevent spillage and dust generation; Use closed bulkers for carrying fly ash.
16. Transportation of coal, to the extent permitted by road, shall be carried out by covered trucks/conveyors. Effective control measures such as regular water/mist sprinkling/rain gun etc. shall be carried out in critical areas prone to air pollution (with higher values of PM10/PM 2.5) such as haul road, loading/unloading and transfer points. Fugitive dust emissions from all sources shall be controlled regularly. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central/State Pollution Control Board.
17. Pollution control system in the cement plant shall be provided as per the CREP Guidelines of CPCB.
18. All the issues raised in the public hearing shall be comprehensively addressed / complied with in a time bound manner.

#### **A. 2 WATER :**

19. Total water requirement for the project shall not exceed 300 KLD. Unit shall reuse 30 KLD of treated sewage for gardening & plantation within premises and hence, fresh water requirement shall not exceed 270 KLD and it shall be met through ground water. Necessary permission from Central Ground Water Authority (CGWA) in this regard shall be obtained from the concern Authority.
20. There shall be no industrial waste water generation & no discharge from the proposed activity.
21. Domestic wastewater generation shall be 30 KLD and it shall be treated through adequate capacity STP and treated sewage shall be reused for gardening/plantation within premises.
22. During monsoon season when treated sewage effluent may not be required for the plantation / Gardening / Green belt purpose, it shall be stored within premises. There shall be no discharge of waste water outside the premises in any case.
23. Unit shall provide buffer water storage tank of adequate capacity for storage of treated waste water during rainy days.
24. The company shall harvest rainwater from the rooftop of the building to recharge the ground water and to use the same water for the various activities of the project to conserve fresh water. Before recharging the surface run off, pre-treatment must be done to remove suspended matter.

#### **A. 3 AIR:**

25. Unit shall not exceed fuel consumption for HAG and stand-by DG set as mentioned below:

Sr. No.	Source of emission With Capacity	Stack Height (meter)	Type of Fuel	Quantity of Fuel MT/Day	Type of emissions i.e. Air Pollutants	Air Pollution Control Measures (APCM)
1	DG Set, 500 KVA	As per Norms	Diesel	240 Liters/Day	PM, SO <sub>2</sub> , NO <sub>x</sub> , CO	Noiseless
2	HAG (Hot Air Generator)	No Stack	Coal	150 TPD	All Hot Air goes to close circuit Cement Mill and exit from Bag house through Fan of mill circuit.	
3	HAG (Hot Air Generator)	No Stack	Oil/ Diesel	5.0 KLD	All Hot Air goes to close circuit Cement Mill and exit from Bag house through Fan of mill circuit.	

26. Unit shall provide adequate APCM with flue gas generation sources as mentioned above:
27. Unit shall provide adequate APCM with process gas generation sources as mentioned below:

Sr. no.	Specific Source of emission (Name of the Product & Process)	Type of emission	Stack/Vent Height (meter)	Air Pollution Control Measures (APCM)
1	Cement Mill (Cement)	PM	30	Bag House
2	Clinker Hopper	PM	30	Bag Filter
3	Coal Crusher	PM	30	Bag Filter
4	Fly Ash Silo	PM	30	Bag Filter
5	Clinker Silo	PM	30	Bag Filter
6	Packing Unit No.1	PM	30	Bag Filter
7	Packing Unit No.2	PM	30	Bag Filter

28. The above-mentioned measures are indicative and the unit may explore the possibilities of other latest devices also to achieve the better results & better compliance of the air pollution control norms prescribed by the Gujarat Pollution Control Board (GPCB).
29. The Reverse Pulse Jet Type Bag Filters shall be provided with proper metallic casing, adequate stack height and stack monitoring requirement facility.
30. The design the air pollution control equipments (APCE) shall be validated by the reputed institutes and APCEs shall be fabricated, erected and commissioned under guidance and supervision of the said institute.
31. The APCM shall be operated efficiently and effectively to achieve the norms prescribed by the GPCB at stack outlet.
32. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution and shall conform to the EPA Rules for air and noise emission standards.
33. Stack/Vents of adequate height shall be provided as per the prevailing norms for flue gas emission/Process gas emission.
34. Interlocking facility of the pollution control equipment and the equipment(s) to which it is attached should be provided in such a manner that in the event of pollution control equipment(s) not working, the respective unit(s) is shut down automatically.
35. Regular periodic preventive maintenance of the air pollution control systems shall be carried out during the operation phase.
36. The applicant shall carry out yearly performance evaluation of the air pollution control equipments through any reputed institute and furnish the reports in this regard to the Gujarat Pollution Control Board every year.
- The fugitive emission in the work zone environment and ambient air quality shall be monitored. The emission shall conform to the standards prescribed by the concerned authorities including Director of Industrial Health and Safety as well as Gujarat Pollution Control Board from time to time. Following indicative guidelines shall be followed to reduce the fugitive emission.
- Enclosure shall be provided at all loading and unloading operations.
  - Water shall be sprayed on all raw materials stock pile periodically to retain some moisture in top layer except wet gypsum to reduce the fugitive emission.
  - All transfer points shall be fully enclosed.
  - Accumulated dust on the ground and other surfaces shall be removed / swept regularly and water the area after sweeping.
  - Internal roads shall be either asphalted or paved properly to reduce the fugitive emission during vehicular movement.
  - The company shall install adequate dust collection and extraction system to control fugitive dust emissions at various material handling areas. (eg. raw material loading, unloading, conveying, transporting, stacking, bagging and packing etc.) Guidelines / Code of Practice issued by the CPCB for prevention and control of the fugitive emission shall be followed.
38. Regular monitoring of ground level concentration of PM10, PM2.5, SO2 & NOx shall be carried out in the impact zone and its records shall be maintained. Ambient air quality levels shall not exceed the standards stipulated by the GPCB. If at any stage these levels are found to exceed the prescribed limits, necessary additional control measures shall be taken immediately. The location of the stations and frequency of monitoring shall be decided in consultation with the GPCB.

#### **A. 4 SOLID / HAZARDOUS WASTE:**

39. The company shall strictly comply with the rules and regulations with regards to handling and disposal of Hazardous waste in accordance with the Hazardous and Other Waste (Management and Transboundary Movement) Rules 2016, as may be amended from time to time. Authorization from the GPCB must be obtained for collection / treatment / storage / disposal of hazardous wastes.
40. Used oil shall be sold only to the registered recycler.
41. The cement dust collected from the different Air Pollution Control Equipments and other collection systems shall be reutilized in the plant itself.

#### **A. 5 SAFETY:**

42. Proper ventilation shall be provided in the work area.

43. Personal Protective Equipments shall be provided to workers and its usage shall be ensured and supervised.
44. First Aid Box shall be made readily available in adequate quantity in the unit.
45. Regular periodic work zone ambient air monitoring shall be carried out for measuring concentrations of cement dust, silica dust etc. through qualified industrial hygienist and its records shall be maintained.
46. Occupational health surveillance of the workers shall be done and its records shall be maintained. Pre-employment and periodical medical examination for all the workers shall be undertaken on regular basis as per Factories Act & Rules.
47. All necessary safety measures shall be taken to avoid any kind of accident.
48. Training shall be imparted to all the workers on safety and health aspects.

#### **A. 6 NOISE:**

49. The overall noise level in and around the plant area shall be kept well within the prescribed standards by providing noise control measures including acoustic insulation, hoods, silencers, enclosures vibration dampers etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act and Rules. Workplace noise levels for workers shall be as per the Factories Act and Rules.

#### **A. 7 CLEANER PRODUCTION AND WASTE MINIMISATION:**

50. The unit shall undertake the Cleaner Production Assessment study through a reputed institute / organization and shall form a CP team in the company. The recommendations thereof along with the compliance shall be furnished to the GPCB.
51. Efforts shall be made to use more fly ash in cement manufacturing without compromising the quality of the cement.

#### **A. 8 GREEN BELT AND OTHER PLANTATION:**

52. 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.
53. The unit shall develop green belt within the factory premises as per the CPCB guidelines, consisting of at least three rows of trees of local species on periphery. However, if the adequate land is not available within the premises, the unit shall take up adequate plantation at suitable open land on road sides and other open areas in nearby locality or schools in consultation with the Gram Panchayat / GPCB and submit an action plan of plantation for next three years to the GPCB.

#### **B. OTHER CONDITIONS:**

54. Unit shall comply all the applicable standard conditions prescribed in Office Memorandum (OM) published by MoEF&CC vide no. F. No. 22-34/2018-IA.III dated 09/08/2018.
55. In case of use of spray dryer, the unit shall provide the adequate & efficient APCMs with spray dryer so that there should not be any adverse impact on human health & environment. Unit shall carry out third party monitoring of the proposed Spray dryer & it's APCM through the credible institutes and study report for impacts on Environment and Human Health shall be submitted to GPCB every year along with half yearly compliance report.
56. The project proponent shall allocate the separate fund for Corporate Environment Responsibility (CER) in accordance to the MoEFCC's Office Memorandum No. F.No.22-65/2017-IA.III dated 01/05/2018 to carry out the activities under CER in affected area around the project. The entire activities proposed under CER shall be monitored and the monitoring report shall be submitted to the regional office of MoEFCC as a part of half-yearly compliance report and to district collector. The monitoring report shall be posted on the website of the project proponent.
57. In the event of failure of any pollution control system adopted by the unit, the unit shall be safely closed down and shall not be restarted until the desired efficiency of the control equipment has been achieved.
58. All the recommendations of the Corporate Responsibility of Environment Protection (CREP) shall be strictly followed.
59. All the recommendations made in the EIA / EMP report of the project submitted by the project proponent shall be implemented effectively.
60. The project proponent shall also comply with any additional condition that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose of the environmental protection and management.
61. No further expansion or modifications in the plant likely to cause environmental impacts shall be carried out without obtaining prior Environment Clearance from the concerned authority.
62. The above conditions will 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 and the Hazardous Wastes (Management, and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules.
63. The granting of Environment Clearance to the project by the SEIAA does not restrain or dilute any legal action to be initiated against the project proponent by any authority including the GPCB, for commencing the construction work and production without obtaining prior Environment Clearance.
64. The project proponent shall comply all the conditions mentioned in "The Companies (Corporate Social Responsibility Policy) Rules, 2014" and its amendments from time to time in a letter and spirit.
65. The project management shall ensure that unit complies with all the environment protection measures, risk mitigation measures and safeguards recommended in the EMP report and Risk Assessment study report as well as proposed by project proponent.



66. The project authorities shall earmark adequate funds to implement the conditions stipulated by SEIAA as well as GPCB along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.
67. The applicant shall inform the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with the GPCB and may also be seen at the Website of SEIAA/ SEAC/ GPCB. This shall be advertised within seven days from the date of the clearance letter, in at least two local newspapers that are widely circulated in the region, one of which shall be in the Gujarati language and the other in English. A copy each of the same shall be forwarded to the concerned Regional Office of the Ministry.
68. The project proponent shall also comply with any additional condition that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose of the environmental protection and management.
69. It shall be mandatory for the project management to submit half-yearly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard and soft copies to the regulatory authority concerned, on 1st June and 1st December of each calendar year.
70. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
71. The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.
72. The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.
73. The company in a time bound manner shall implement these conditions. The SEIAA reserves the right to stipulate additional conditions, if the same is found necessary.
74. The project authorities shall inform the GPCB, Regional Office of MoEF and SEIAA about the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.
75. This environmental clearance is valid for seven years from the date of issue.
76. Any appeal against this environmental clearance 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.
77. Submission of any false or misleading information or data which is material to screening or scoping or appraisal or decision on the application makes this environment clearance cancelled.

With regards,

Yours sincerely,



(S. M. SAIYAD)

Member Secretary

Issued to:

M/s. J K Cement Works

Mr. Sushil Kumar Rathore

Kailash Nagar-I, J. K. Cement Works,

Nimbahera, Dis: Chittorgarh,

Rajasthan- 312617

