

BL/EMD/MoEF/F 02/012

Date: 26/05/2025

To

**The Deputy Director General of Forests (C),**  
Ministry of Environment, Forest and Climate Change,  
Integrated Regional Office, Gandhi Nagar 'A' Wing- 407 & 409,  
Aranya Bhawan, Near CH-3 Circle, Sector-10A,  
GANDHINAGAR-382010 (Gujarat), E-mail: [iro.gandhingr-mefcc@gov.in](mailto:iro.gandhingr-mefcc@gov.in)

**Sub.:** Submission of the Six Monthly Compliance Report of stipulated conditions in the Environmental Clearance granted for Clinker Grinding Unit of Capacity 1.0 MTPA of M/s. J.K. Cement Works at Balasinor Village: Vadadala, Taluka: Balasinor, Dist.: Mahisagar (Gujarat) for the period: Oct 2024 to March 2025.

**Ref.:** EC granted by SEIAA, Gujarat vide letter No.: SEIAA/GUJ/EC/3(B)/463/2019 dated 25/03/2019.

Dear Sir,

Kindly refer to the above subject matter & referred letter, we are submitting herewith the Six Monthly Compliance Report of stipulated conditions in Environmental Clearance granted by SEIAA, Gujarat for Clinker Grinding Unit of Capacity 1.0 MTPA of M/s. J.K. Cement Works at Balasinor for the period: October 2024 to March 2025 as per the above reference EC letter. In compliance with MoEF & CC O.M. dated 18.07.2022 we are also submitting a report on measures taken to spread awareness on Single Use Plastic Ban in project area as well as surrounding area along with photographs.

As per MoEF&CC Notification vide No.: S.O. 5845(E) dated 26.11.2018 regarding to submit the Environment Clearance Compliance Report in Soft Copy only and in compliance to the same, we are hereby submitting the EC Compliance reports through e-mail for your kind reference and record please.

We trust your good self will find the same in order.

Thanking you,

Yours faithfully,

For, J.K. Cement Works, Balasinor

  
(Rajneesh Sharma)  
Grinding - Unit Head

Encl.: As above

- Cc to:** 1. The Member Secretary, Gujarat Pollution Control Board,  
2. The Regional Officer, Gujarat Pollution Control Board,  
3. The Regional Directorate, Central Pollution Control Board,  
4. The Chief Conservator of Forests (C), Ministry of Environment Forest and Climate Change.

Your (**Half Yearly Compliance Report**) has been **Submitted** with following details

<b>Proposal No</b>	SIA/GJ/IND/30621/2018
<b>Compliance ID</b>	127705917
<b>Compliance Number(For Tracking)</b>	EC/M/COMPLIANCE/127705917/2025
<b>Reporting Year</b>	2025
<b>Reporting Period</b>	01 Jun(01 Oct - 31 Mar)
<b>Submission Date</b>	26-05-2025
<b>RO/SRO Name</b>	Shrawan Kumar Verma
<b>RO/SRO Email</b>	kr099.ifs@nic.in
<b>State</b>	GUJARAT
<b>RO/SRO Office Address</b>	Integrated Regional Offices, Gandhi Nagar

**Note:-** SMS and E-Mail has been sent to Shrawan Kumar Verma, GUJARAT with Notification to Project Proponent.

**Half Yearly Compliance Report  
2025  
01 Jun(01 Oct - 31 Mar)**

**Acknowledgement**

<b>Proposal Name</b>	Stand - alone Cement Grinding unit of capacity 94500 MT/Month (1.0 Million TPA) at S.No: 1342/31327, 1336, 1328, 1333 and 1334, Village Vadadala, Tal.: Balasinor, Dist: Mahisagar by M/s. JK Cement Works		
<b>Name of Entity / Corporate Office</b>	M/s. JK Cement Works		
<b>Village(s)</b>	Vadadala		
<b>District</b>	Mahisagar		
<b>Proposal No.</b>	SIA/GJ/IND/30621/2018	<b>Category</b>	Industrial Projects - 1
<b>Plot / Survey / Khasra No.</b>		<b>Sub-District</b>	Balasinor
<b>State</b>	GUJARAT	<b>Entity's PAN</b>	*****0355R
<b>MoEF File No.</b>	SEIAA/GUJ/EC/3(b)/463/2019	<b>Entity name as per PAN</b>	J K CEMENT LIMITED

**Compliance Reporting Details**

**Reporting Year** 2025  
**Remarks (if any)**  
**Reporting Period** 01 Jun(01 Oct - 31 Mar)

**Details of Production and Project Area**

**Name of Entity / Corporate Office** M/s. JK Cement Works

	<b>Project Area as per EC Granted</b>	<b>Actual Project Area in Possession</b>
Private	8.06	8.06
Revenue Land	0	0
Forest	0	0
Others	0	0
<b>Total</b>	<b>8.06</b>	<b>8.06</b>

**Production Capacity**

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
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**Conditions**

**Specific Conditions**

Sr.No.	Condition Type	Condition Details
1	MISCELLANEOUS	Project proponent shall procure raw materials like Limestone for

		the proposed project from the authorized mining units having Environmental Clearance as per the EIA Notification 2006, CTE and CCA.
<b>PPs Submission:</b> Complied Not Applicable. It is a Clinker Grinding and Packing Unit.		Date: 26/05/2025
2	MISCELLANEOUS	All the recommendations, mitigation measures, environmental protection measures and safeguards proposed in the EIA report of the project prepared by Green India 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.
<b>PPs Submission:</b> Being Complied All the recommendations, mitigation measures, environmental protection measures and safeguards proposed in the EIA report of the project prepared by Yuva Enviro Experts, Ahmedabad are being implemented.		Date: 26/05/2025
3	WATER QUALITY MONITORING AND PRESERVATION	Complete Zero Liquid Discharge (ZLD) status shall be maintained all the time and there shall be no drainage connection from the premises.
<b>PPs Submission:</b> Being Complied ZLD being maintained at all time. There is no any process effluent generated from plant operation. Sewage effluent generated from office buildings is being treated in existing STP of 10 KLD capacity. Total domestic wastewater generated for the period: Oct 2024 to March 2025 is 174 KL and it utilized in plantation.		Date: 26/05/2025
4	Corporate Environmental Responsibility	Unit shall comply provisions of MoEFCC 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
<b>PPs Submission:</b> Being Complied Detailed CER Plan along with budgetary allocation has submitted to the SEIAA, Gujarat along with Final EIA report. However, Rs. Lakh expended in various CER activities during FY: 2024-25. Detail of same is given in Annexure -1.		Date: 26/05/2025
5	MISCELLANEOUS	Unit shall comply all the applicable standard conditions prescribed in Office Memorandum (OM) published by MoEF and 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
<b>PPs Submission:</b> Being Complied Compliance of the standard EC condition has been submitted with letter No.: BL/EMD/MoEF/F 01/004, dated: 26.05.2021.		Date: 26/05/2025
6	AIR QUALITY MONITORING AND PRESERVATION	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 systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL



		accredited laboratories.
<b>PPs Submission:</b> Being Complied Continuous Emission Monitoring System (CEMS)/Opacity Meter) at Cement Mill Stack has been installed and connected to CPCB and GPCB servers. Stack Monitoring online data, and Calibration certificate and for photograph of opacity meter attached as Annexure - 2.		Date: 26/05/2025
7	AIR QUALITY MONITORING AND PRESERVATION	The project proponent must strictly adhere to the stipulations made by the Gujarat Pollution Control Board, State Government and/or any other statutory authority.
<b>PPs Submission:</b> Being Complied Noted and Agreed.		Date: 26/05/2025
8	AIR QUALITY MONITORING AND PRESERVATION	The National Ambient Air Quality Emission Standards issued by the Ministry vide G. S. R. No. 826 (E) dated 16th November, 2009 shall be complied with.
<b>PPs Submission:</b> Being Complied Ambient air quality for the PM10, PM2.5, SO2 and NOx are being maintained under prescribed limit. AAQM monitoring Result are enclosed as Annexure-3.		Date: 26/05/2025
9	MISCELLANEOUS	The project proponent shall prepare a Site-Specific Conservation Plan and 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).
<b>PPs Submission:</b> Complied Not Applicable, as there is no any Schedule-I species presence / found in the study area.		Date: 26/05/2025
10	AIR QUALITY MONITORING AND PRESERVATION	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.
<b>PPs Submission:</b> Being Complied Fugitive emission monitoring is being carried out on quarterly basis through the MoEF and CC recognized laboratory. Detail fugitive emission monitoring report is enclosed as Annexure - 4.		Date: 26/05/2025
11	MISCELLANEOUS	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.
<b>PPs Submission:</b> Being Complied EMP proposed in EIA report has been implemented. Detail of EMP implemented are as follows: 1. Bag House/Bag filters provided at all transfer points/dust generating sources. 2. Transportation of raw material and finished product is being carried out in closed bulker and covered trucks. 3. Storm water drainage constructed and to optimum utilization of overflow water and rainwater harvesting structures constructed within the plant premises. 4. Regular monitoring of sewage treatment plant is being done and logbook is maintained. Treated domestic waste water is being utilized in plantation. 5. 100 percent Dust collected in various APCEs are being recycled in cement manufacturing process.		Date: 26/05/2025

6. Ear plug / muffs are provided to all workers who are engaged in high noise area. Tested and certified equipments being used for construction activities. 7. Low noise equipment along with acoustic enclosure procured and regular noise level monitoring is being carried out. 8. Periodical maintenance of machines are being carried out. 9. CSR activities are in process. Details of expenditure incurred towards implementation of EMP for the FY: 2024-25 refer annexure - 5.		
12	AIR QUALITY MONITORING AND PRESERVATION	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.
<b>PPs Submission:</b> Being Complied Continuous Emission Monitoring System (CEMS)/Opacity Meter) at Cement Mill Stack has been installed and connected to CPCB and GPCB servers.		Date: 26/05/2025
13	AIR QUALITY MONITORING AND PRESERVATION	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.
<b>PPs Submission:</b> Being Complied Note and Agreed.		Date: 26/05/2025
14	AIR QUALITY MONITORING AND PRESERVATION	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.
<b>PPs Submission:</b> Being Complied Unit has installed the Bag house in cement mill and total 18 nos. of Bag Filters installed at various material transfer points. List of the APCDs has been submitted vide letter No.: BL/EMD/MoEF/F 01/004, dated 26.05.2021. Photographs of the Cement Mill Bag House and Main Bag Filter installed at material transfer points as enclosed. Refer annexure - 6		Date: 26/05/2025
15	AIR QUALITY MONITORING AND PRESERVATION	Ensure covered transportation and conveying of raw material to prevent spillage and dust generation; Use closed bulkers for carrying fly ash
<b>PPs Submission:</b> Being Complied Covered transportation and conveying system for raw material and closed bulkers for carrying fly ash is being practiced to prevent spillage and dust generation. Photographs of Fly Ash Unloading System is enclosed.		Date: 26/05/2025
16	AIR QUALITY MONITORING AND PRESERVATION	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/PM2.5) 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.
<b>PPs Submission:</b> Being Complied Raw materials and finished products are being transported through covered conveyors and trucks.		Date:

Water spray system and road sweeping machines has been deployed at loading and unloading areas to control fugitive dust emissions. Ambient air quality monitoring results are found well within the prescribed limits.		26/05/2025
17	MISCELLANEOUS	Pollution control system in the cement plant shall be provided as per the CREP Guidelines of CPCB.
<b>PPs Submission:</b> Being Complied Pollution control system has been provided as per CREP guideline and details of the same has been submitted vide letter No.: BL/EMD/MoEF/F 01/004, dated 26.05.2021		Date: 26/05/2025
18	PUBLIC HEARING	All the issues raised in the public hearing shall be comprehensively addressed / complied with in a time bound manner.
<b>PPs Submission:</b> Being Complied Unit has submitted the time bound action plan of the issues raised during the Public hearing vide letter No.: BL/ EMD/MoEF/F 01/004, dated 26.05.2021. For latest CSR details has been enclosed as Annexure - 7.		Date: 26/05/2025
19	WATER QUALITY MONITORING AND PRESERVATION	Total water requirement for the project shall not exceed 300 KLD. Unit shall reuse 30 KLD of treated sewage for gardening and 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.
<b>PPs Submission:</b> Being Complied Water NOC from CGWA has been obtained vide NOC No.: CGWA/NOC/IND/REN/2/2025/11489, which is valid till 27/05/2027.		Date: 26/05/2025
20	WATER QUALITY MONITORING AND PRESERVATION	There shall be no industrial waste water generation and no discharge from the proposed activity.
<b>PPs Submission:</b> Being Complied Our plant is based on dry process technology. Hence, there is no any wastewater generated from cement.		Date: 26/05/2025
21	WATER QUALITY MONITORING AND PRESERVATION	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.
<b>PPs Submission:</b> Being Complied Unit has installed STP of 10 KLD capacity to treat the domestic wastewater and treated wastewater is being reused for plantation purpose within the plant premises. STP treated water quality report is enclosed as Annexure-8		Date: 26/05/2025
22	WATER QUALITY MONITORING AND PRESERVATION	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.
<b>PPs Submission:</b> Being Complied Unit has reused the treated sewage effluent in cement mill for cooling /spray purpose. There is no discharge of waste water outside the premises.		Date: 26/05/2025
23	WATER QUALITY MONITORING AND PRESERVATION	Unit shall provide buffer water storage tank of adequate capacity for storage of treated waste water during rainy days.

<b>PPs Submission: Being Complied</b> Unit has provided buffer water storage tank of 10 KL capacity for storage of treated wastewater during rainy days.		Date: 26/05/2025
24	<b>WATER QUALITY MONITORING AND PRESERVATION</b>	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.
<b>PPs Submission: Being Complied</b> Roof top rainwater channelized to harvesting structures to recharge the ground water. Total 05 nos. of rainwater harvesting structures has developed in plant premises. Photograph of rainwater harvesting structures developed in plant premises is enclosed. Refer annexure - 9.		Date: 26/05/2025
25	<b>AIR QUALITY MONITORING AND PRESERVATION</b>	Unit shall not exceed fuel consumption for HAG and DG Set as mentioned below: Sr. 1) Source of emission with capacity: DG set, 500 KVA, Stack height: as per norms. type of fuel: Diesel, Quantity of fuel (MT/day): 240 Litres/day, type of emission: PM, SO <sub>2</sub> , NO <sub>x</sub> , CO, Air pollution control measures (APCM): Noiseless Sr. 2) Source of emission with capacity: HAG (hot air generator) , Stack height: No stack type of fuel: Coal , Quantity of fuel (MT/day):150 TPD, type of emission: All hot air goes to circuit cement mill and exit from bag house through fan of mill circuit, Air pollution control measures (APCM): All hot air goes to circuit cement mill and exit from bag house through fan of mill circuit Sr. 3) Source of emission with capacity: HAG (hot air generator), Stack height: No stack, type of fuel: Oil/diesel, Quantity of fuel (MT/day): 5.0 KLD , type of emission: All hot air goes to circuit cement mill and exit from bag house through fan of mill circuit , Air pollution control measures (APCM): All hot air goes to circuit cement mill and exit from bag house through fan of mill circuit
<b>PPs Submission: Being Complied</b> The fuel consumption for HAG and DG Set is ensured to be maintained as well as emissions are also maintained within the prescribed limits.		Date: 26/05/2025
26	<b>AIR QUALITY MONITORING AND PRESERVATION</b>	Unit shall provide adequate APCM with flue gas generation sources as mentioned above:
<b>PPs Submission: Being Complied</b> Hot Air goes to close circuit of Cement Mill and exit from Bag house through Fan of Cement mill circuit.		Date: 26/05/2025
27	<b>AIR QUALITY MONITORING AND PRESERVATION</b>	Unit shall provide adequate APCM with process gas generation sources as mentioned below: (Sr. 1) Specific Source of emission (Name of the Product and Process): Cement Mill (Cement),Type of emission: PM, Stack/vent Height(meters):30, Air Pollution Control Measures (APCM): Bag house. (Sr. 2) Specific Source of emission (Name of the Product and Process): Clinker hopper ,Type of emission: PM ,Stack/vent Height(meters): 30, Air Pollution Control Measures (APCM): Bag Filter. (Sr. 3) Specific Source of emission (Name of the Product and Process): Coal Crusher, Type of emission: PM ,Stack/vent Height(meters): 30, Air Pollution Control Measures (APCM): Bag Filter. (Sr. 4) Specific Source of emission (Name of the Product and Process): Fly Ash Silo, Type of emission: PM ,Stack/vent Height(meters): 30, Air Pollution Control Measures (APCM): Bag Filter. (Sr. 5) Specific Source of emission (Name of the Product and Process): Clinker Silo ,Type of emission: PM,

		Stack/vent Height(meters): 30, Air Pollution Control Measures (APCM): Bag Filter. (Sr. 6) Specific Source of emission (Name of the Product and Process): Packing Unit No.1, Type of emission: PM, Stack/vent Height(meters): 30, Air Pollution Control Measures (APCM): Bag Filter. (Sr. 7) Specific Source of emission (Name of the Product and Process): Packing Unit No.2, Type of emission: PM, Stack/vent Height(meters): 30, Air Pollution Control Measures (APCM): Bag Filter.
<b>PPs Submission:</b> Being Complied Unit has provided the Bag House in Cement Mill and 18 Nos. of Bag Filters to control the dust emissions at various material transfer points.		Date: 26/05/2025
28	AIR QUALITY MONITORING AND PRESERVATION	The above-mentioned measures are indicative and the unit may explore the possibilities of other latest devices also to achieve the better results and better compliance of the air pollution control norms prescribed by the Gujarat Pollution Control Board (GPCB).
<b>PPs Submission:</b> Being Complied Unit has provided 01 no. of Bag House and 18 nos. of Bag Filters to achieve the better results and better compliance of the air pollution control norms prescribed.		Date: 26/05/2025
29	AIR QUALITY MONITORING AND PRESERVATION	The Reverse Pulse Jet Bag Filters shall be provided with proper metallic casing, adequate stack height and stack monitoring requirement facility.
<b>PPs Submission:</b> Being Complied Unit has provide the monitoring facility and Bag House with adequate stack height at Cement Mill.		Date: 26/05/2025
30	AIR QUALITY MONITORING AND PRESERVATION	The design the air pollution control equipment (APCE) shall be validated by the reputed institutes and APCEs shall be fabricated, erected and commissioned under guidance and supervision of the said institute.
<b>PPs Submission:</b> Being Complied APCEs has been fabricated, erected and commissioned under guidance and supervision and details has been submitted vide letter No.: BL/ EMD/MoEF/F 01/004, dated 26.05.2021.		Date: 26/05/2025
31	AIR QUALITY MONITORING AND PRESERVATION	The APCM shall be operated efficiently and effectively to achieve the norms prescribed by the GPCB at stack outlet.
<b>PPs Submission:</b> Being Complied Efficiency of the bag house is 99.99 percent and PM emission level is well within the prescribed norms. Efficiency report has been submitted with letter No. BL/EMD/MoEF/F 01/004, dated 26.05.2021. Details stack emission monitoring report is enclosed as Annexure -10.		Date: 26/05/2025
32	AIR QUALITY MONITORING AND PRESERVATION	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.
<b>PPs Submission:</b> Being Complied Unit has provided the acoustic enclosure to the DG sets to mitigate the noise pollution and confirmed to the air and noise emission standards.		Date: 26/05/2025
33	AIR QUALITY MONITORING AND PRESERVATION	Stack/Vents of adequate height shall be provided as per the prevailing norms for flue gas emission/Process gas emission.

<b>PPs Submission:</b> Being Complied Stack/Vents of adequate height has been provided.		Date: 26/05/2025
34	AIR QUALITY MONITORING AND PRESERVATION	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.
<b>PPs Submission:</b> Complied Noted and complying with.		Date: 26/05/2025
35	AIR QUALITY MONITORING AND PRESERVATION	Regular periodic preventive maintenance of the air pollution control systems shall be carried out during the operation phase.
<b>PPs Submission:</b> Being Complied Noted and complying with.		Date: 26/05/2025
36	AIR QUALITY MONITORING AND PRESERVATION	The applicant shall carry out yearly performance evaluation of the air pollution control equipment through any reputed institute and furnish the reports in this regard to the Gujarat Pollution Control Board every year.
<b>PPs Submission:</b> Being Complied Noted and complying with.		Date: 26/05/2025
37	AIR QUALITY MONITORING AND PRESERVATION	<p>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. a. Enclosure shall be provided at all loading and unloading operations. b. 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. c. All transfer points shall be fully enclosed. d. Accumulated dust on the ground and other surfaces shall be removed / swept regularly and water the area after sweeping. e. Internal roads shall be either asphalted or paved properly to reduce the fugitive emission during vehicular movement. f. The company shall install adequate dust collection and extraction system to control fugitive dust emissions at various material handling areas. (e.g. 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.</p>
<b>PPs Submission:</b> Being Complied Noted and Complied with. Photographs of the same are enclosed as Annexure - 11.		Date: 26/05/2025
38	AIR QUALITY MONITORING AND PRESERVATION	Regular monitoring of ground level concentration of PM10, PM2.5, SO2 and 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.

<b>PPs Submission: Being Complied</b> Noted and Complying with. i) 3 Nos. of ambient air quality monitoring station have been installed and regular monitoring is being carried out. ii )The location of the stations and frequency of monitoring has been decided in consultation with the GPCB. iii) For results of ambient air quality, please refer Annexure-3.		Date: 26/05/2025
39	WASTE MANAGEMENT	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.
<b>PPs Submission: Being Complied</b> Hazardous Waste Authorization from the GPCB has been obtained vide consent order no. AWH-109494, Date of issue: 28/09/2020, Consent order no. AH-115081 Date-11/10/2021, Consent order no. H-117888 Date-30/03/2022 and Consent order no. AH-128013 Date-28/07/2023. The Hazardous waste authorization is valid up to 26.06.2025. Hazardous waste authorization copy enclosed as Annexure-12.		Date: 26/05/2025
40	WASTE MANAGEMENT	Used oil shall be sold only to the registered recycler.
<b>PPs Submission: Being Complied</b> Used oil is being sent to CPCB/GPCB Authorized re-cycler.		Date: 26/05/2025
41	WASTE MANAGEMENT	The cement dust collected from the different Air Pollution Control Equipment and other collection systems shall be reutilized in the plant itself.
<b>PPs Submission: Being Complied</b> 100 percent Dust collected in various APCE is being recycled in system.		Date: 26/05/2025
42	MISCELLANEOUS	Proper ventilation shall be provided in the work area.
<b>PPs Submission: Being Complied</b> Noted and Complied with. Proper ventilation in the working area has been provided.		Date: 26/05/2025
43	MISCELLANEOUS	Personal Protective Equipment shall be provided to workers and its usage shall be ensured and supervised.
<b>PPs Submission: Being Complied</b> Personal Protective Equipment (PPEs) have been provided to workers.		Date: 26/05/2025
44	MISCELLANEOUS	First Aid Box shall be made readily available in adequate quantity in the unit.
<b>PPs Submission: Being Complied</b> First Aid Box has been provided in various sections in plant.		Date: 26/05/2025
45	AIR QUALITY MONITORING AND PRESERVATION	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.
<b>PPs Submission: Being Complied</b> Noted and complied with. Please refer annexure - 4 for monitoring report.		Date:

		26/05/2025
46	MISCELLANEOUS	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 and Rules.
<b>PPs Submission:</b> Being Complied Occupational health surveillance of the workers is being done every year. Pre-employment and periodical medical examination for all the workers is being undertaken on regular basis as per Factories Act and Rules.		Date: 26/05/2025
47	MISCELLANEOUS	All necessary safety measures shall be taken to avoid any kind of accident.
<b>PPs Submission:</b> Being Complied All necessary safety measures have been taken to avoid any kind of accident.		Date: 26/05/2025
48	MISCELLANEOUS	Training shall be imparted to all the workers on safety and health aspects.
<b>PPs Submission:</b> Being Complied Training and Tool Box Talk (TBT) is being done regularly. Refer annexure-13.		Date: 26/05/2025
49	Noise Monitoring & Prevention	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.
<b>PPs Submission:</b> Being Complied Noise control measures including acoustic insulation, hoods, silencers, enclosures vibration dampers etc. has been used on all sources of noise generation. Noise level in and around the plant area are within the norms and reports are enclosed as Annexure-14.		Date: 26/05/2025
50	MISCELLANEOUS	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.
<b>PPs Submission:</b> Being Complied There is no waste generation from the plant. However, The hazardous waste generated i.e. used oil and grease is being sent to Authorized recycler.		Date: 26/05/2025
51	MISCELLANEOUS	Efforts shall be made to use more fly ash in cement manufacturing without compromising the quality of the cement.
<b>PPs Submission:</b> Being Complied Fly ash is being used as per BIS guideline.		Date: 26/05/2025
52	GREENBELT	Green belt shall be developed in an area equal to 33 percent 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.



<b>PPs Submission:</b> Being Complied Unit has developed 33 percent greenbelt. Total 10821 Nos. trees planted by covering 2.66 ha. area out of 8.06 ha. Plant area.		Date: 26/05/2025
53	GREENBELT	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>PPs Submission:</b> Being Complied Unit has developed green belt along the periphery of plant premises. Photographs of the same are attached as annexure-15		Date: 26/05/2025
<b>General Conditions</b>		
Sr.No.	Condition Type	Condition Details
1	MISCELLANEOUS	Unit shall comply all the applicable standard conditions prescribed in Office Memorandum (OM) published by MoEF and CC vide no. F. No. 22-34/2018-IA.III dated 09/08/2018.
<b>PPs Submission:</b> Complied Condition related to mining activity. Our's is a cement grind unit.		Date: 26/05/2025
2	AIR QUALITY MONITORING AND PRESERVATION	In case of use of spray dryer, the unit shall provide the adequate and efficient APCMs with spray dryer so that there should not be any adverse impact on human health and environment. Unit shall carry out third party monitoring of the proposed Spray dryer and its 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.
<b>PPs Submission:</b> Complied Not applicable, as spray dryer will not be used in plant premises.		Date: 26/05/2025
3	Corporate Environmental Responsibility	The project proponent shall allocate the separate fund for Corporate Environment Responsibility (CER) in accordance to the MoEFCC 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.
<b>PPs Submission:</b> Being Complied Noted and complied with. Details of the same are enclosed as Annexure - 1.		Date: 26/05/2025
4	MISCELLANEOUS	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.

PPs Submission: Being Complied Noted and complied with.		Date: 26/05/2025
5	MISCELLANEOUS	All the recommendations of the Corporate Responsibility of Environment Protection (CREP) shall be strictly followed.
PPs Submission: Being Complied Noted and being complied.		Date: 26/05/2025
6	MISCELLANEOUS	All the recommendations made in the EIA / EMP report of the project submitted by the project proponent shall be implemented effectively.
PPs Submission: Being Complied Unit has implemented all the recommendations made in the EIA / EMP report.		Date: 26/05/2025
7	MISCELLANEOUS	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.
PPs Submission: Being Complied Agreed, no any additional condition imposed by SEAC or SEIAA.		Date: 26/05/2025
8	MISCELLANEOUS	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.
PPs Submission: Being Complied Noted.		Date: 26/05/2025
9	Statutory compliance	The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and 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.
PPs Submission: Being Complied Noted and complied with.		Date: 26/05/2025
10	MISCELLANEOUS	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.
PPs Submission: Being Complied Noted and agreed.		Date: 26/05/2025
11	MISCELLANEOUS	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.

<b>PPs Submission:</b> Being Complied Noted and complied with.		Date: 26/05/2025
12	MISCELLANEOUS	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.
<b>PPs Submission:</b> Being Complied Noted and complied with.		Date: 26/05/2025
13	MISCELLANEOUS	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.
<b>PPs Submission:</b> Being Complied Noted and complied with.		Date: 26/05/2025
14	MISCELLANEOUS	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.
<b>PPs Submission:</b> Being Complied Advertised in two local newspaper on dated 28.03.2019 in The Indian Express and Godhara, Dahod Bhaskar newspaper. Advertisement Copy has been submitted vide letter No.: BL/EMD/MoEFCC/2018-19/F005, dated 28.03.2019. Photograph of the same is enclosed as annexure-16.		Date: 26/05/2025
15	MISCELLANEOUS	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.
<b>PPs Submission:</b> Being Complied Noted and agreed.		Date: 26/05/2025
16	MISCELLANEOUS	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.
<b>PPs Submission:</b> Being Complied Noted and complying with, Environment Clearance conditions compliance status report is being submitted regularly. Last six-monthly EC compliance report submitted on 28.11.2024.		Date: 26/05/2025
17	MISCELLANEOUS	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.

<b>PPs Submission:</b> Being Complied Noted.		Date: 26/05/2025
18	MISCELLANEOUS	The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.
<b>PPs Submission:</b> Being Complied Noted.		Date: 26/05/2025
19	MISCELLANEOUS	The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.
<b>PPs Submission:</b> Being Complied Noted.		Date: 26/05/2025
20	MISCELLANEOUS	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.
<b>PPs Submission:</b> Being Complied Noted and agreed.		Date: 26/05/2025
21	MISCELLANEOUS	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.
<b>PPs Submission:</b> Complied Project work started from 01.04.2019 and Production started on 07.10.2020.		Date: 26/05/2025
22	MISCELLANEOUS	This environmental clearance is valid for seven years from the date of issue.
<b>PPs Submission:</b> Complied Noted.		Date: 26/05/2025
23	MISCELLANEOUS	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.
<b>PPs Submission:</b> Complied Noted.		Date: 26/05/2025
24	MISCELLANEOUS	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.
<b>PPs Submission:</b> Being Complied Noted and agreed.		Date: 26/05/2025
25	MISCELLANEOUS	Notification published by MoEF and CC on 12/08/2021 vide F. No. IA3-22/8/2021-1A.III 150512 and MoEF CC Office Memorandum dated 18.07.2022 a report along with photographs, on the measures

		taken to sensitize and create awareness among people working within the project area as well its surrounding area on the ban of SUP shall also be included in the six-monthly compliance report being submitted by the project proponents.
<b>PPs Submission:</b> Being Complied Notice of SINGLE USE PLASTIC BAN shared and communicated with all the employees and posters displayed at office and Notice boards. Details of action taken for awareness of SUP BAN are enclosed as Annexure-17.		Date: 26/05/2025
<b>Visit Remarks</b>		
<b>Last Site Visit Report Date:</b>		N/A
<b>Additional Remarks:</b>		
<p><b>Note:</b> This acknowledgement is as per the details submitted by project proponent. In no way is this document to be considered as conclusion on any action on the compliance of the project. This is strictly for the project proponent's reference purpose.</p>		

Sr. No.	Date	Particulars	Distributed to	Price Value (in Rs)
1	30-Apr-24	STREET LIGHT LSRI MINI 20W LED	Kujara	21100
2	30-Apr-24	STREET LIGHT LSRI MINI 20W LED	Badiyadev	21100
3	24-May-24	CEMENT BENCHES	Badiyadev	15340
4	31-May-24	Borewell Construction	Baidap	81337
5	31-May-24	Toilet Block Construction	Baidap	304442
6	18-Jun-24	Health Check up Camp	Badiyadev	30000
7	30-Jul-24	Water Cooler	Badiyadev	43070
8	31-Jul-24	Water Cooler	Balasinor	43070
9	29-Aug-24	Distribution Food Packets	Balasinor	72000
10	10-Sep-24	Distributed Computer Desktop	Balasinor	30680
11	25-Sep-24	Trees Plantation, Snacks items & T-Shirt	Balasinor	49700
12	27-Sep-24	Borewell Construction	Balasinor	90128
13	30-Sep-24	Terrace waterproofing	Galteshwar	127997
14	30-Sep-24	Anganwadi Renovation	Galteshwar	296591
15	09-10-2024	Daan Utsav (Joy of Giving)	Balasinor	37851
16	17-10-2024	Anganwadi Renovation	Handiya	454948
17	17-10-2024	Water Tank construction with platform	Kunjara	235928
18	10-11-2024	Anganwadi Renovation	Rozva	53589
19	25-11-2024	Distributed School uniform	Vadadala	67968
20	25-11-2024	Distributed School uniform	Kunjara	50976
21	15-12-2024	EYE & Health Check-up	Jamiyatpura Lat	60000
22	19-12-2024	EYE & Health Check-up	Balasinor	60000
23	19-12-2024	RO Maintenance	Balasinor	27140
24	19-12-2024	Water Cooler	Balasinor	43070
25	20-12-2024	EYE Check-up	Kunjara	30000
26	21-01-2025	EYE & Health Check-up	Vadadala	60000
27	31-01-2025	Anganwadi Renovation	Jamiyatpura Lat	696404
28	01-03-2025	Sanitation facility – separate for girls and boys	Vadadala	1355700
29	25-03-2025	Provide Chess & Digital Chess Clock	Balasinor	107110
30	25-03-2025	Provide Cultural Program Dresses	Balasinor	10500
		<b>FY 2024-25</b>	<b>TOTAL</b>	<b>4577739/-</b>



# Real Time Data Acquisition And Monitoring

Site Name: J K Cement Limited(ID- 69109)

Report: Custom Report

From Date: 2024/10/01 00:00:00 To Date : 2025/03/31 23:05:50

Description	Stack1_Cement Mill_Bag_House-PM - (mg/Nm3) Raw
Prescribed Standards	0 - 30
Maximum Data	11.96
Minimum Data	3.09
Geometric Mean	7.8
Median	8.04
Standard Deviation	2.99
Maximum Value At Time	2025-03-01
Minimum Value At Time	2024-10-01
Valid Data Points	6
Total Data Points	6
Data Availability %	100.0%

SI No	Time	Stack1_Cement Mill_Bag_House-PM - (mg/Nm3) Raw
1	2024-10-01	3.09
2	2024-11-01	6.31
3	2024-12-01	7.64
4	2025-01-01	8.43
5	2025-02-01	9.38
6	2025-03-01	11.96

Report Details: MSJKCLVG | 2025-05-23 15:32:45 | Custom Report

## PREFACE

**M/s. J.K. CEMENT WORKS**  
**(A Unit of JK Cement Limited)**  
**Grinding Unit, Balasinor, Gujarat.**

**Calibration Check Monitoring Report**  
**For**  
**Particulate Matter (PM-CEMS)**  
**Continuous Emission Monitoring Systems**

For and on behalf of VIMTA Labs Limited

Approved by : **B.Lavanya**

Signed : *B.Lavanya*

Designation : **Senior Scientist – Environment**

Date : **30<sup>th</sup> July 2024**

This report has been prepared by Vimta Labs Limited with all reasonable skill, care and diligence within the terms of the contract with the client, incorporating our General Terms and Conditions of Business and taking account of the resources devoted to it by agreement with the client.

We disclaim any responsibility to the client and others in respect of any matters outside the scope of the above.



## **1.0 Introduction**

JK Cement Ltd. is one of India's leading manufacturers of Grey Cement and one of the leading White Cement manufacturers in the World. Over four decades, the Company has partnered India's multi-sectoral infrastructure needs on the strength of its product excellence, customer orientation and technology leadership and making it one of the top cement manufacturers in the Country. And Jk Cement Works, has Launched the newly-built grinding unit has total production capacity of 1.0 million tonnes per annum (MTPA) At Village: Vadadala, Taluka: Balasinor District: Mahisagar, Pin Code: 388255, Gujarat

## **2.0 Background**

Cement, power, chemical, textile and various other industries are indicators of country's progress, however all these industries have adverse impact on environment through emission of pollutants. India, like many other countries, has put in place a regulatory regime to control industrial emissions into air. For industries it is very difficult to follow these regimes due to continuous varying emission level depending on various factors like variation in per day production based on market demand, load, operating hours, season etc. and conventional emission monitoring system represent the emission level of particular time period only.

Continuous emission monitoring system (CEMS) has become necessity to monitor & regulate emission level. CEMS refers to the instrumentation and associated computing hardware and software used to measure pollutant levels in exhaust gas from industrial sources at a higher frequency (e.g., once or more per minute). Most PM CEMS device technologies employ indirect measurement principles and therefore require calibration before use. For instance, light scattering CEMS technology, which is commonly used to measure PM emissions, calculates the concentration of pollutants based on changes in the optical properties of stack gas. Calibration (performance & reliability) of CEMS ensures the complete integrity & reliability of data acquired from CEMS.

M/s. J.K. Cement Works (A Unit of JK Cement Limited), Grinding unit is Situated at Village: Vadadala, Taluka: Balasinor District: Mahisagar, Gujarat

has put Particulate matter CEMS (PM-CEMS) for monitoring of particulate matter emission level. Calibration Check of CEMS was performed by M/s. Vimta Labs Limited, Hyderabad. To comply the regulatory requirement M/s Vimta Labs Limited was follow Central Pollution Control Board specifications and guidelines for continuous emissions monitoring systems (CEMS) for Particulate Matter (PM) measurement with special reference to emission trading programs (CPCB/e- PUBLICATION/2013-14) and 1<sup>st</sup> Revised Guidelines for Continuous emission monitoring systems in September 2018. Standard reference method of Iso-kinetic sampling technique was adopted for comparison study of online data received from PM CEMS.

### 3.0 Standard Reference Method (SRM)

Particulate matter is withdrawn Iso-kinetically from the duct/stack and collected in a Micro Glass fiber thimble maintained at duct/stack temperature. The particulate matter, which includes any material that collects in the Filter thimble, is determined gravimetrically after the removal of uncombined moisture. The Iso-kinetic flow rate is calculated from the arrived flue gas velocity inside the duct/stack at respective traverse points, which is calculated based on the measured parameters like temperature, moisture, molecular weight, velocity head at respective traverse points and static head.

### 4.0 Calibration Procedure:

Particulate matter emission level of 18 stacks (stationary source of emission) installed in plant was measured by standard reference method of Iso-kinetic sampling technique. Total three measurements were carried out in each stack with changing load of Concern Mills (wherever possible). Micro Glass Fiber Filter thimbles are used for dust collection. And were conditioned at 120°C to constant weighing before & after sampling. Data acquired from PM-CEMS for each stack during Real time period of Iso-kinetic sampling was collected. Since in every study each collected data is associated with some inherent error due to various unavoidable factors, therefore, for comparing both data, regression line graph was made between Iso-kinetic data vs. PM-CEMS data. From this root mean square (RMS), percent root means square percentage error (%RMSPE), and regression slope (m) intercept factor (C) regression correlation coefficient

( $R^2$ ) & was calculated. In this study  $R^2$  represents the fitness of data to linear equation & percent root mean square error for this study indicates the deviation of PM-CEMS data with reference to standard reference method of Iso-kinetic sampling method. As per CPCB/e-Publication/2013-14 guideline, maximum acceptable limit for %RMSPE is less than 30. If %RMSE is more than 30, then factor of m & C needs to apply in CEMS software to get correct data for emission level.

## 5.0 Instruments:

For this study, Iso-kinetic sampling train for Particulate Matter was carried out in cement mill stack in M/s. J.K. Cement Works (A Unit of JK Cement Limited), Village: Vadadala, Taluka: Balasinor; District: Mahisagar, Gujarat by stack sampling kit VSS- 1 of Envirotech Instruments Private Limited. Dust sample was collected in Whatman glass fiber thimbles.

## 6.0 Gaseous Composition Measurement

The measurement of the  $O_2$  &  $CO_2$  was carried out with the Portable Combustion Flue Gas Analyzer Make of MRU GmbH Model Optima 7 with according to USEPA Method 30&34.



**FIGURE-1**  
**PORTABLE COMBUSTION GAS ANALYSER**

## 7.0 Exhaust Gas Volume Stream

### 7.1 Velocity

The velocity profile was measured using S-type Pitot tube according to USEPA-guideline method no.2.

**TABLE-1**  
**INSTRUMENT DETAILS FOR VELOCITY MEASUREMENT**

Parameter	Instrument and its Specification
S- Type Pitot tube	<ul style="list-style-type: none"> <li>o Envirotech Stack Sampling Kit</li> <li>o Validated with calibration Report</li> </ul>
Dynamic pressure	<ul style="list-style-type: none"> <li>o Incline cum vertical manometer</li> <li>o Envirotech Stack Sampling Kit</li> <li>o Accuracy: <math>\pm 1</math> [%] of measuring range</li> </ul>
Static pressure	<ul style="list-style-type: none"> <li>o Incline cum vertical manometer</li> <li>o Envirotech Stack Sampling Kit</li> <li>o Accuracy: <math>\pm 1</math> [%] of measuring range</li> </ul>
Ambient pressure	<ul style="list-style-type: none"> <li>o Digital Barometer, Testo 511, Germany</li> <li>o Range: 300 – 1200 hPa [mbar]</li> <li>o Accuracy: <math>\pm 3</math> hPa</li> </ul>



## 7.2 Exhaust gas temperature

During the whole measuring period the temperature of the exhaust gas was measured in multi- points of the cross-section area of the stack with a K type thermocouple in connection with a display unit.

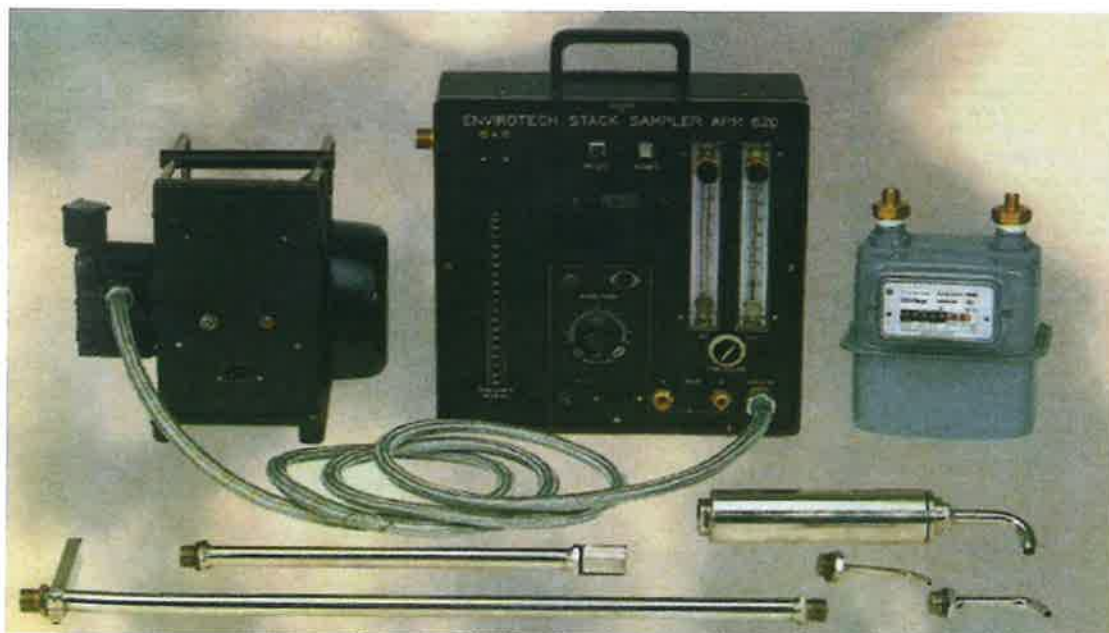
Envirotech Stack Sampling Kit

**TABLE-2**  
**INSTRUMENT DETAILS OF TEMPERATURE MEASUREMENT**

Parameter	Device and its Specification
Temperature	Digital Thermo Meter <ul style="list-style-type: none"> <li>Range: 0 - 1300 [°C]</li> <li>Accuracy: <math>\pm 0.3\% + 1^{\circ}\text{C}</math></li> </ul>

## 8.0 Measurement of Particulate Matter (PM):

Envirotech Iso-kinetic Source Sampling Kit Model APM 620 was used to collect dust Sample Iso-kinetically as Per USEPA Method 5 with valid calibration report of Manometer, Orifice Meter, Dry Gas Meter, Sampling Nozzle, Vacuum gauge, Temp indicator, Pitot tube. Sample was collected in Glass Fiber Filter. Hot gas was dried using silica Gel and cooled less than 20° C before entering to metering Device (Dry Gas Meter). Initial & Final Weight of Filter Thimble was taken at site Laboratory by using Digital Balance.



**FIGURE-2****STACK EMISSION MONITORING KIT****9.0 QA /QC for Dust Measurement during sampling:**

The instruments used for measurement are duly calibrated as per applicable norms as mentioned in ISO/IEC: 17025.

Calibrated S-type Pitot tube, manometer, digital thermometer, Rota meter, dry gas meter & vacuum gauges were used.

For QA/QC Leak Check was done before & after sampling of each port hole at pressure of (-15) inch Hg & was found 100% leak Proof.

Iso-kineticity percentage was in between 90-110 % at Each Port Hole & over all Iso-kineticity Percentage was also in the same range. Field Blank sample was taken care at site.

**10.0 Results & Discussion:**

Results obtained from PM-CEMS & Iso-kinetic sampling are summarized in **Table-3** and Regression trend data are given in **Table-4**.

**TABLE-3**  
**SUMMARY OF REGRESSION ANALYSIS**

Sr. No	Stack Identity	PD (%)	m	c	R <sup>2</sup>
01	CEMENT MILL STACK	1.107	1.107	0.3922	0.9866

**Nomenclature:**

PD(%): Allowable Deviation percentage in comparison with SRM Value

M : Regression Slope (correction factor)

C : Intercept factor

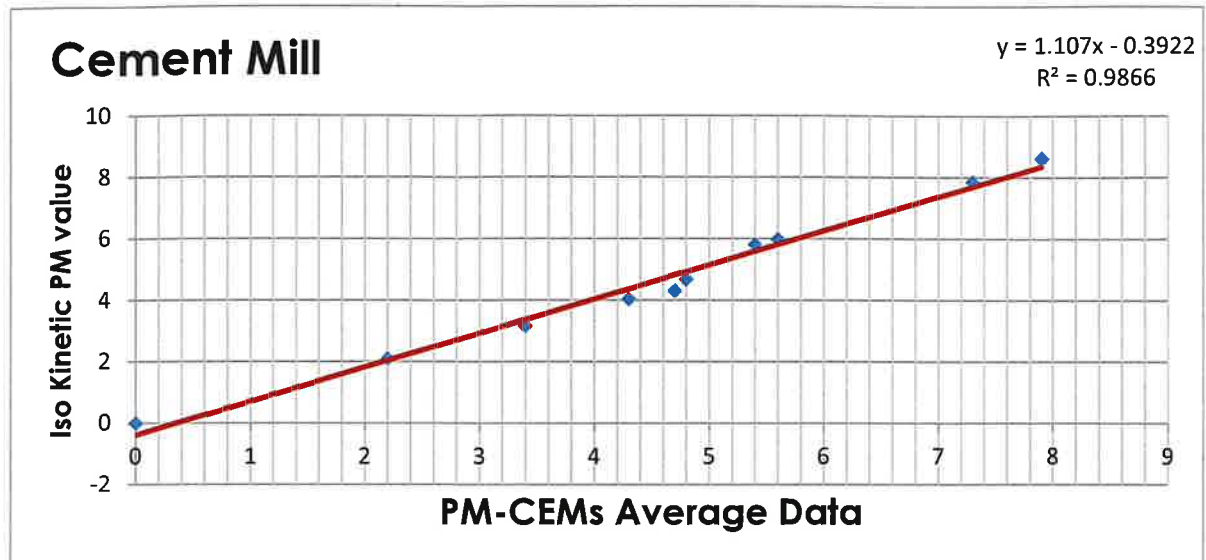
R<sup>2</sup> : Correlation Coefficient**11.0 Conclusion:**

From the statistical analysis we found that Performance deviation (%) in Comparison with SRM Data and PM-CEMS data received with real time Monitoring for each stack is less than 10%. Hence, it is clear that measured data logged through PM-CEMS is in compliance with CPCB 1st Revised Guidelines for Continuous Emission Monitoring Systems June 2018.

Based on present study CDF viz. Regression Slope i.e. correction factor (m) can maintain till next calibration schedule.

**TABLE-4**  
**REGRESSION ANALYSIS OF CEMENT MILL STACK**

**REGRESSION ANALYSIS GRAPH**



**STATISTICAL DATA FOR REGRESSION ANALYSIS**

Sr. No	Date of Sampling	Time of Sampling	Particulate Matter Emission (mg/Nm3)		m	C	R <sup>2</sup>	Performance Accuracy (%)	Avg. Performance Accuracy (%)
			Iso-Kinetic Value	Avg. CEM Value					
1	18.07.2024	09:15 to 09:45	2.80	2.700	1.107	0.3922	0.9866	3.6	4.731
2	18.07.2024	09:55 to 10:25	2.69	2.670				0.7	
3	18.07.2024	10:35 to 11:05	2.84	2.630				7.4	
4	18.07.2024	11:10 to 11:40	2.82	2.640				6.4	
5	18.07.2024	11:50 to 12:20	2.81	2.580				8.2	
6	18.07.2024	12:25 to 12:55	2.96	2.720				8.1	
7	18.07.2024	13:05 to 13:35	2.81	2.780				1.1	
8	18.07.2024	13:40 to 14:10	2.53	2.450				3.2	
9	18.07.2024	14:15 to 14:45	2.77	2.660				4.0	

**Observation:** PM CEMS Regression data is done and it is within 10% deviation.

Allowable deviation of Performance Accuracy of PM-CEMS during comparison study against SRM should be  $<\pm 10\%$



**12.0 Remark & Compliance:**

For better performance and more accuracy in PM CEMS and Calibration Check of PM CEMS of all stacks is recommended every after Six month as per Protocols for Online Continuous Effluent & Emission Monitoring Systems (OCEMS) 06TH March, 2018. And 1<sup>st</sup> Revised Guidelines for Continuous Emission Monitoring Systems June 2018 & CEMS Audit (Recalibration) should perform at least once in a year.

**13.0 References**

- CPCB/ e-Publication/2013-14(Specifications and guidelines for Continuous Emissions Monitoring Systems) for PM Measurement with special reference to Emission Trading Programs: Dated 22<sup>nd</sup> November 2013
- 1<sup>st</sup> Revised Guidelines for Continuous Emission Monitoring Systems; June, 2018.
- USEPA Method-1,2,3,4,5&17
- USEPA Method 6C
- USEPA Method 7E



JKcement

PM-CEMS Calibration Check Monitoring Report -Cement Division

Report No-VLL/VLS/24/07996

Unit-Balasinor

July 2024

Sr.No	Date	Time	Cement Grinding Unit										m	c	R <sup>2</sup>
			Amb. Temp (°C)	Flue Gas Temp (°C)	Avg DP	Avg Ve	Iso Kinetic Sampling Rate	SRM PM	Avg CEM PM	% Error	Square of Percentage Errors	Avg. Deviation in Comparison to SRM Value in %			
1	18.07.2024	09:15 to 09:45	30	91	6.4	10.1	36	2.80	2.700	3.6	3.6				
2	18.07.2024	09:55 to 10:25	30	91	6.4	10.1	36	2.69	2.670	0.7	0.7				
3	18.07.2024	10:35 to 11:05	30	91	6.4	10.1	36	2.84	2.630	7.4	7.4				
4	18.07.2024	11:10 to 11:40	31	90	6.0	9.8	38	2.82	2.640	6.4	6.4				
5	18.07.2024	11:50 to 12:20	31	90	6.0	9.8	38	2.81	2.580	8.2	8.2				
6	18.07.2024	12:25 to 12:55	31	90	6.0	9.8	38	2.96	2.720	8.1	8.1				
7	18.07.2024	13:05 to 13:35	31	90	7.0	10.6	36	2.81	2.780	1.1	1.1				
8	18.07.2024	13:40 to 14:10	31	90	7.0	10.6	36	2.53	2.450	3.2	3.2				
9	18.07.2024	14:15 to 14:45	31	90	7.0	10.6	36	2.77	2.660	4.0	4.0				
												4.731	1.107	0.3922	0.9866

VIMTA Labs Limited, Hyderabad

# Calibration Check Monitoring Report for Particulate Matter (PM-CEMS) Continuous Emission Monitoring System's



**Sponsor:**

**M/s. J.K. Cement Works  
(A Unit of JK Cement Limited)  
Grinding Unit, Balasinor, Gujarat.**

Report Prepared by:



**Vimta Labs Ltd.**

142, IDA, Phase-II, Cherlapally  
Hyderabad-500 051

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(QCI/NABET Accredited EIA Consultancy Organization,  
NABL Accredited & ISO 17025 Certified and MoEF &CC Recognized Laboratory)





S.No	Reference Standard	Objectives	Unit of Measurement	Target						
					Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
1	ISO 14001:2015	PM10 within norms < 100 µg/Nm3	µg/Nm3	<100	32.29	38.19	34.73	44.52	44.48	46.54
i)		Location :- STP	µg/Nm3	<100	29.56	30.44	13.90	<b>23.654</b>	<b>20.868</b>	<b>28.565</b>
ii)		Location :- Project Office	µg/Nm3	<100	31.70	33.24	33.30	<b>34.096</b>	<b>52.392</b>	<b>36.741</b>
iii)		Location :- Security Tower Near Store	µg/Nm3	<100	35.60	50.89	57.00	<b>75.822</b>	<b>60.186</b>	<b>74.302</b>
2	ISO 14001:2015	PM2.5 as per govt norms. < 60 µg/Nm3	µg/Nm3	<60	32.25	37.76	40.93	42.83	44.08	49.56
i)		Location :- STP	µg/Nm3	<60	33.36	35.46	36.00	<b>47.229</b>	36.424	54.255
ii)		Location :- Project Office	µg/Nm3	<60	36.10	38.33	37.80	<b>33.726</b>	53.044	45.054
iii)		Location :- Security Tower Near Store	µg/Nm3	<60	27.30	39.50	49.00	<b>47.532</b>	42.779	49.368
3	ISO 14001:2015	SO2 as per govt norms. < 80 µg/Nm3	µg/Nm3	<80	4.72	4.73	4.27	4.42	3.71	4.63
i)		Location :- STP	µg/Nm3	<80	4.55	4.55	3.60	3.929	1.914	4.5
ii)		Location :- Project Office	µg/Nm3	<80	4.90	4.97	4.60	4.83	4.648	4.897
iii)		Location :- Security Tower Near Store	µg/Nm3	<80	4.70	4.67	4.60	4.488	4.569	4.495

6	ISO 14001:2015	NO2 as per govt norms < 80 µg/Nm3	µg/Nm3	<80	13.29	13.35	12.10	12.51	10.51	13.12
i)		Location :- STP	µg/Nm3	<80	12.87	12.87	10.30	11.189	5.469	12.812
ii)		Location :- Project Office	µg/Nm3	<80	13.80	14.05	13.10	13.661	13.146	13.842
iii)		Location :- Security Tower Near Store	µg/Nm3	<80	13.20	13.12	12.90	12.685	12.919	12.716



# Royal

## Environment Auditing & Consultancy Service

Plot No. 19 & 20, B/s. The North Star Nest School, Masoom School Road, Mota Mava, RAJKOT - 360 005.  
Ph.: +91 9099919954 ■ E-mail : royaleenvironment@live.com ■ admin@royalconsultancy.com

Ref. No.: 508/12/2024-25

Date : 26/12/2024

### REPORT OF FUGITIVE EMISSION ANALYSIS

**Name of company : JK Cement Limited.**

S.no. 1342/3, 1327, 1336, 1334, 1333,

Vill.: Vadadala,

Ta.: Balasinor, Dist.: Mahisagar

Test Method : As per IS Standards - 5182\_23/4/6

Sr. No.	Particulars	Unit	Location No. 1	Location No. 2
01.	Location of Sampling	---	NEAR UNLOADING AREA	NEAR CEMENT MILL
02.	Date of sampling	---	19/12/2024	19/12/2024
03.	Time of sampling	Hr	11:10	11:30
04.	Duration of Sampling	Min.	480	480
05.	Dominant Wind Direction (From)	---	SE	SE
06.	Average Wind Speed	Km/Hr	3 to 12	3 to 12
07.	Flow rate during sampling	m <sup>3</sup> /Hr	1.0	1.0
08.	Permissible Limits of SPM *	μg/m <sup>3</sup>	5000	5000
09.	Measured Concentration of SPM	μg/m <sup>3</sup>	1820	1750
10.	Measured Silica Dust	mg/m <sup>3</sup>	0.021	0.027

Instrument used : Envirotech make (HVS), Model No. APM-430BL, Gaseous Sampling Kit,

Calibration done on : 13/01/2024

\* Permissible limits of fugitive emission based on CPCB Guidelines.

Royal Environment Auditing & Consultancy Service



Analyst



# Royal

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Ref. No.: 509/12/2024-25

Date : 26/12/2024

### REPORT OF FUGITIVE EMISSION ANALYSIS

Name of company : JK Cement Limited.

S.no. 1342/3, 1327, 1336, 1334, 1333,

Vill.: Vadadala,

Ta.: Balasinor, Dist.: Mahisagar

Test Method : As per IS Standards - 5182\_23/4/6

Sr. No.	Particulars	Unit	Location No. 3	Location No. 4
01.	Location of Sampling	---	NEAR FLYASH SILO	NEAR PACKING AREA
02.	Date of sampling	---	19/12/2024	19/12/2024
03.	Time of sampling	Hr	11:00	11:30
04.	Duration of Sampling	Min.	480	480
05.	Dominant Wind Direction (From)	---	SE	SE
06.	Average Wind Speed	Km/Hr	3 to 12	3 to 12
07.	Flow rate during sampling	m <sup>3</sup> /Hr	1.0	1.0
09.	Permissible Limits of SPM *	μg/m <sup>3</sup>	5000	5000
10.	Measured Concentration of SPM	μg/m <sup>3</sup>	1899	1780
11.	Measured Silica Dust	mg/m <sup>3</sup>	0.019	0.03

Instrument used : Envirotech make (HVS), Model No. APM-430BL, Gaseous Sampling Kit,

Calibration done on : 13/01/2024

\* Permissible limits of fugitive emission based on CPCB Guidelines.



Royal Environment Auditing & Consultancy Service

Analyst





# Royal

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Ph.: +91 9099919954 ■ E-mail : royaleenvironment@live.com ■ admin@royalconsultancy.com

Ref. No.: 608/03/2024-25

Date : 26/03/2025

### REPORT OF FUGITIVE EMISSION ANALYSIS

Name of company : JK Cement Limited.

S.no. 1342/3, 1327, 1336, 1334, 1333,

Vill.: Vadadala,

Ta.: Balasinor, Dist.: Mahisagar

Test Method : As per IS Standards - 5182\_23/4/6

Sr. No.	Particulars	Unit	Location No. 1	Location No. 2	Location No. 3
01.	Location of Sampling	---	NEAR UNLOADING AREA	NEAR CEMENT MILL	NEAR FLYASH SILO
02.	Date of sampling	---	21/03/2025	21/03/2025	21/03/2025
03.	Time of sampling	Hr	10:15	11:00	11:45
04.	Duration of Sampling	Min.	480	480	480
05.	Dominant Wind Direction (From)	---	SW	SW	SW
06.	Average Wind Speed	Km/Hr	5 to 15	5 to 15	5 to 15
07.	Flow rate during sampling	m <sup>3</sup> /Hr	1.0	1.0	1.0
08.	Permissible Limits of SPM *	μg/m <sup>3</sup>	5000	5000	5000
09.	Measured Concentration of SPM	μg/m <sup>3</sup>	1890	1790	1860
10.	Measured Silica Dust	mg/m <sup>3</sup>	0.028	0.024	0.021

Instrument used : Envirotech make (HVS), Model No. APM-430, Gaseous Sampling Kit,

Calibration done on : 08/01/2025

\* Permissible limits of fugitive emission based on CPCB Guidelines.

  
Royal Environment Auditing & Consultancy Service



  
Analyst

S. No.	Particulars	Capital Cost (in Lakh)	Recurring Cost for the FY: Oct'24-Apr'25 (In Lakh)
1	Air	616.22	1.46
2	Water	240.14	0.28
3	Noise	7.31	0.02
4	Ecological and Biodiversity (Plantation)	9.19	0.38
<b>Total Expenditures (In Lakh)</b>		<b>873.07</b>	<b>2.14</b>

Annexure-1:



**Bag house is fully insulated.**

S. No.	Name & Address	Issues Raised	Reply By The Proponent	Compliance Status
1.	Shree Kirtibhai Parmar, Village : Kunjara, Ta : Balasinor, Dist. : Mahisagar	He represented stating that advertisement of the said public hearing has not been carried out sufficiently. As most of the local people of this region are illiterate, they are not able to attend this hearing.	Regional Officer, GPCB replied that the executive summary of the said unit has been given to Sarpanch shri /Talati of 27 Gram Panchayat of study area. Moreover advertisement was published in two local Gujarati newspapers and one English newspaper one month prior to the hearing.	● Complied
2.	Shri Kiritsinh Jhala, Village: Kunjara, Ta: Balasinor, Dist.: Mahisagar	<ul style="list-style-type: none"> <li>● He represented that who is responsible for distribution of executive summary which you have given in 27 Gram Panchayat? State whether GPCB or the Company.</li> <li>● How will company utilize its CSR, in how many times and from when will it utilize the same and what are its criteria?</li> <li>● I am participating in CSR activity of many companies and company didn't spend its CSR fund out of the company premises. Whether you give assurance regarding the utilization of the CSR fund as per its criteria?</li> <li>● If any project has obtained EC then within how many time appeal is to be filled in the National Green Tribunal?</li> <li>● How much far away should be human habitant from this company?</li> </ul>	<ul style="list-style-type: none"> <li>● Regional Officer, GPCB replied that copies of executive summary have been given to all the Panchayat as per the procedure.</li> <li>● Company's representative showed the power point presentation of the CSR details for 5 years which was shown earlier and provided its detail.</li> <li>● Company will utilize 1.5% that is 309 lakh rupees of total cost of the project that is 20579 lakh rupees as CER. Company will use 2% of the average profit of 3 year's profit of the company for CSR. It is wrong that company doesn't utilize its CSR fund because we have to send report of CSR and CER spent during 6 month at end of every 6 month to the ministry. And audit of the same are carried out at regular interval. This fund is utilized as per the rules and regulations of the ministry and according to the order of the Collector and the same is uploaded on the web-site also.</li> <li>● Regional officer stated that, this issue may be represented separately in other forum and the reply of the same will be provided to you.</li> <li>● This proposed unit is 2 km away from the human habitants of the Vadadala Village.</li> </ul>	<ul style="list-style-type: none"> <li>● Complied</li> <li>● Complied</li> <li>● CSR activities are being carried out as per action plan for details please refer Annexure-1.</li> </ul>
3.	Shri Anil singh Vanraj singh	● He represented that we have received the notice	● Company representative welcomed his suggestion about their project.	● Not Required

	Thakor, Representative of Sarpanch, Village : Vadadala, Ta : Balasinor, Dist. : Mahisagar	<p>of public hearing and we have informed the villagers. We are happy for upcoming J.K. Cement Company. We welcome this company. We have no oppose for the company, this company will provide us employment. But permission should not be granted to Moirya Enviro Company located at Jamiyatpura because it harms the environment as well the people.</p> <ul style="list-style-type: none"> <li>• We are against the permission given by GPCB to Moriya Enviro and we are not against J.K. Cement Company.</li> </ul>		
4	Shri Pankaj Kumar Patel Village : Jamyetpura Ta : Balasinor, Dist. : Mahisagar	<ul style="list-style-type: none"> <li>• He represented that the public hearing has not been advertised properly. The people present here are staff of the company. They are not villagers. Sarpanch and Talati have been informed but villagers are not informed about the public hearing. Whether permission can be granted if 90% people oppose the company.</li> <li>• We are not against this company. We are against Morya Enviro company.</li> <li>• How many kilometers of distance from heritage site can be allowed to set up a plant?</li> <li>• What is the distance between the said company and Dinosaur Fossil Park?</li> <li>• Whether the minutes of this public hearing will</li> </ul>	<ul style="list-style-type: none"> <li>• Regional Officer, GPCB informed that information regarding publicity of this public hearing has been given earlier. Your all other questions have been noted which will be forwarded to the concerned authority by the Chair person and Member Secretary, GPCB for the decision; this panel is not authorized to take any decision.</li> <li>• This complaint can be submitted separately to the GPCB which will be replied. If you are not satisfied with any decision, you can appeal as well.</li> <li>• Your question has been noted as part of minutes which be forwarded to expert committee of State Environment Impact Authority. They will decide for the same. The areal distance between the said company and Dinosaur Fossil Park is 12.5 Kms.</li> <li>• Regional officer replied that, this minute will be forwarded to the competent authority for EC with approval of Collector and through Member Secretary, GPCB and the same will be uploaded on the GPCB web-site and will be provided to you if you need.</li> </ul>	<ul style="list-style-type: none"> <li>• Complied</li> <li>• Not Required</li> <li>• Complied</li> </ul>

		<p>be forwarded to the upper level panel for EC?</p> <ul style="list-style-type: none"> <li>• We have some issues regarding M/s. Maurya Enviro Company. So it is request to be noted.</li> <li>• M/s Maurya Enviro Company which is Poisonous dumping site is within 0.5 km from Dinosaur fossil site. That company is carrying out different activity then the activity mentioned in presentation. 6 foot digging has been carried out and water is available at 5 foot which is taken out through 4 motor. In future they will dig for 20 foot and it RCC construction will be carried out on its bottom and then plastic will be spread on it and then after waste will be filled which will affect the nearby areas.</li> <li>• Whether the Gram Committee has authority to enter within the company for inspection? It is my request that proper decision regarding the same to be taken.</li> <li>• Mauriya Company carries out the blasting process due to which farmers of the nearby areas are not able to enter their farm. So it is our request to the chairman to invite the Gram committee when he comes to the company for the inspection.</li> </ul>	<ul style="list-style-type: none"> <li>• Regional Officer stated that, this is not proper forum you can represent the same separately in the proper forum to GPCB. As instructed by the Chairman, it was informed that if you want to represent it here then represent the same in brief.</li> <li>• Chairman stated that, there is no such provision in the law.</li> <li>• Regional Officer stated that, your representations are noted and accordingly inspection of the company will be carried out and report will be prepared and the same can be provided to you as per rules.</li> </ul>	<ul style="list-style-type: none"> <li>• Complied</li> <li>• Not Required</li> <li>• Not Required</li> <li>• Not Required</li> </ul>
5	Shri Vasantbhai Badoli Gram	<ul style="list-style-type: none"> <li>• He represented that he welcomes the company.</li> </ul>	<ul style="list-style-type: none"> <li>• Company representative welcomed his suggestion.</li> </ul>	<ul style="list-style-type: none"> <li>• Not Required</li> </ul>

	Panchayat, Representative of Sarpanchshri Village : Balasinor, Dist. : Mahisagar	<p>We require this company. Locals will get employment by the upcoming company.</p> <ul style="list-style-type: none"> <li>What should be the distance of Morya Enviro company from the heritage site?</li> </ul>	<ul style="list-style-type: none"> <li>Chairperson stated that decision for the same will be taken by the committee.</li> </ul>	<ul style="list-style-type: none"> <li>Not Required</li> </ul>
6	Shri Subhashbhai Patel, Village : Balasinor, Dist. : Mahisagar	<p>He represented that his land is adjacent to the company. I feel that I will be benefited by the upcoming company, value of my land will be increased and people will get employment, so we welcome J.K. Cement Company.</p>	<p>Company representative welcomed his suggestion.</p>	<ul style="list-style-type: none"> <li>Not Required</li> </ul>
7	Shri Dipenbhai Patel, Village : Vadadala, Ta : Balasinor, Dist. : Mahisagar	<ul style="list-style-type: none"> <li>He represented that we are happy that J.K. Cement Company is going to be established here, but how many people will get company and what is the guarantee?</li> <li>Whether this company will generate huge pollution?</li> </ul>	<ul style="list-style-type: none"> <li>Company representative replied that 500 workers will be required during construction phase and 210 to 250 skilled and semi-skilled workers will be required during the operational phase and the company ensures that priority for employment will be given to the locals based on their qualification and skills.</li> <li>The company is Zero Liquid Discharge plant. No wastewater will be discharged by the company. Dust generated in the company is beneficial for the company, so every tiny particle will be taken care of. No noise and solid waste will be generated. Only used oil will be generated which will be sent to the registered refiners.</li> </ul>	<ul style="list-style-type: none"> <li>Total 589 nos of employment is given to local people's till date.</li> <li>Unit is based on dry process technology hence there is no any waste water generated. As per submitted EMP unit has installed Bag house for Cement mill and 18 Nos of Bag filters at various transfer points to control stack and fugitive emissions.</li> <li>Low noise equipment are procured in plant premises.</li> <li>100% solid waste is being recycled in process.</li> <li>Generated</li> </ul>

				used oil is being sent to authorized recyclers.
8	Shri Rajeshbhai Ramanbhai Thakor, Village : Handiya, Ta : Balasinor, Dist. : Mahisagar	<ul style="list-style-type: none"> <li>● He represented that we are happy that J.K. Cement Company is going to be established here. Villagers of surrounding villages will get employment. The company guarantees that it will not generate any pollution. So we welcome the company.</li> <li>● We are against Morya Enviro Company.</li> </ul>	Company representative welcomed his representation.	<ul style="list-style-type: none"> <li>● Environment management plan is implemented so emissions are under prescribed norms.</li> <li>● Not Required.</li> </ul>
9	Shri Rameshbhai Pratapbhai Parmar, Vice President of Taluka Panchayat, Village : Vadadala, Ta : Balasinor, Dist. : Mahisagar	He represented that we are happy that J.K. Cement Company is going to be established in Vadadala and we have no objection against the company. But we are against Morya Enviro Company located at Jamiyatpura. Land of our village have been acquitted in this company, so I hope that people of our village will get employment in this company.	Company representative welcomed his representation about their project.	● Not Required.
10	Shri Balubhai Sodhar, Sarpanchshri Mal Itadi Gram Panchayat	He represented that GPCB has granted permission to the company located at Jamiyatpura which will generate massive pollution. Our village is very adversely affected. We request the Chairperson that GPCB should keep in mind the public interest and take the decision accordingly. I welcome J.K. Cement Company. So I hope that people of our village and surrounding villages will get employment.	Company representative welcomed his representation about their project.	● Not Required.
11	Shri Adam M. Shaikh Village :	Represented that he is happy that J.K. Cement Company is going to be	Company representative welcomed his representation.	● Not Required.



	Balasinor, Dist. : Mahisagar	established here.		
12	Shri Salimkhan, Sarpanchshri, Village : Vadadala, Ta : Balasinor, Dist. : Mahisagar	He represented that our village will be developed due to establishing of this company. Locals will get employment in this company, so future of the locals will be bright. I am grateful to the company which going to be established herewith.	Company representative welcomed his representation.	● Total 589 nos of employment is given to local people's till date.
13	Shri Nawab Salauddin Babi Village : Balasinor, Dist. : Mahisagar	<ul style="list-style-type: none"> <li>● He represented that J.K. Cement is a renowned company. The company intends to establish a plant here. People demands employment from the company because they need it desperately. So that they should be given priority in the employment. Locals should be given employment as skilled and semi-skilled workers by consulting the local sarpanchs. There is no such big company in Balasinor. I request that the company guarantees priority for the employment to the locals. I hope that the company will keep check on pollution. We welcome the company.</li> <li>● We all are against M/s Morya Enviro Co. located at Jamiyatpur and comprehensive probe should be carried out for the same and the same should be resolved.</li> </ul>	Company representative replied that company will give priority for employment to the locals as per their skill whenever required, which is the policy of the company. And I assure that you will be pleased by the development of this region.	<ul style="list-style-type: none"> <li>● Total 589 nos of employment is given to local people's till date.</li> <li>● Not Required.</li> </ul>
14	Shri Ankit Patel, Managing Trustee, Sahajanand School, Village :	<ul style="list-style-type: none"> <li>● He represented that this company is going to be established near our school. When we come to know about the establishment of this</li> </ul>	Company representative welcomed his representation and stated that the said plant by the company will be the modern plant of the year 2018	● Not Required.

	Vadadala, Ta : Balasinor, Dist. : Mahisagar	<p>company, we were confused about what kind of company is going to be established and we consulted the consultants for the impact of the company on our school and according we visited the plant of this company located at Zarali, Hariyana before four days at different timings and we stayed there for 7-8 hours. The plants was ultramodern, we have not observed any dust and noise pollution. Greenbelt was also developed properly. I advise that other companies should also follow the same practice.</p> <ul style="list-style-type: none"> <li>● Modern technology will be used by J.K. Cement Company in the upcoming plant than the plant at Zarali, Hariyana. So now we are not worried about our school children and we have got answers to our other questions also. So we have no objection against this company. We welcome this company.</li> </ul>		
15	Shri Bhupatsinh Dahyabhai Parmar Village : Vanghroli, Ta : Balasinor, Dist. : Mahisagar	He represented that he welcomes J.K. Cement Company. But the company will provide how many percentage of employment?	Company representative replied that 500 workers will be required during construction phase and 210 to 250 skilled and semi-skilled workers will be required during the operational phase and the company ensures that priority for employment will be given to the locals based on their qualification and skills.	● Total 589 nos of employment is given to local people's till date.
16	Shri V.D. Parmar, Village : Vadadala, Ta : Balasinor, Dist. : Mahisag	<ul style="list-style-type: none"> <li>● He represented to consider the opposition against M/s Morya Enviro Company.</li> <li>● Every coin has two sides. The said company will provide employment which is welcome. But</li> </ul>	Company representative replied the presenter showing the photographs of Haryana plant that that plant is of 2 million ton and the upcoming plant is of 1 million ton. However, there is no pollution in Haryana Plant. The upcoming plant is of modern technology which will be supplied by F.S.L. company	<ul style="list-style-type: none"> <li>● Total 589 nos of employment is given to local people's till date.</li> <li>● As per submitted EMP</li> </ul>

		<p>this kind of company emits dust which causes diseases like silicosis. We request the company to avoid adverse effect on human or animal.</p>	<p>of Denmark. Bag Filter House will be provided to prevent air pollution. So that level of air pollution will be within the limit prescribed by GPCB. Air Pollution Equipment will be provided on transfer points and conveyor belt. This plant will be of closed system.</p>	<p>unit has installed Bag house for Cement mill and 18 Nos of Bag filters at various transfer points to control stack and fugitive emissions.</p>
--	--	---	--	---



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### TEST REPORT (WASTE WATER)

Test Report No : 506/12/2024-25

Date : 26/12/2024

Work Order No : 4600087592

Job Card No. : JK/2024-25/02

**Name of company : JK Cement Limited.**

S.no. 1342/3, 1327, 1336, 1334, 1333, Vill.: Vadadala,

Ta.: Balasinor, Dist.: Mahisagar

**Attention : Mr. Vijay Mourya**

Date of Sample Receipt : 20/12/2024

Date & Time of Sampling : 19/12/2024 at 11.15 Hrs.

Lab ID : WW/24-25/12/57

Date of Testing : 20th to 25th December 2024

Sample Type : Waste Water

Description of Sample Packing : Plastic Carbo

Type of Sampling : Grab

Quantity of Sample : 1 Ltr.

Description : Sewage Water

Sample Collected by : Royal Environment

Sampling Method : IS 3025 : Part 1

Conditioning of Sample(if any): NIL

Location of Sample : **STP Plant - Treated Sewage Water**

Sr. No.	Parameters	Unit	Permissible Limits as per GPCB*	Results	Test Method
01.	pH	---	6.5-9.0	<b>7.6</b>	IS 3025 : Part 11
02.	Total Suspended Solids	mg/l	Less than 100	<b>25</b>	IS 3025 : Part 17
03.	BOD (3 days at 27 c)	mg/l	30.0	<b>19</b>	IS 3025 : Part 44
04.	Fecal Coliform (FC)	MPN/100ml	Less than 1000	<b>63</b>	APHA 9221

\* Permissible Limits are as per GPCB CC&A

Authorized Signatory  
Parth Godhani (QM/TM)

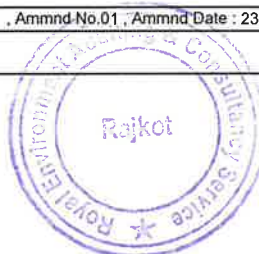
Tested by  
Shweta Dhanani

\* End of Report \*

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Doc. No. F/7.8/03, Issue No. 01, Issue Date : 01-01-22, Ammd-No.01, Ammd Date : 23/05/2022

Page 1 of 1





# Royal

## Environment Auditing & Consultancy Service

Plot No. 19 & 20, B/s. The North Star Nest School, Masoom School Road, Mota Mava, RAJKOT - 360 005.  
Ph.: +91 9099919954 ■ E-mail : royaleenvironment@live.com ■ admin@royalconsultancy.com

### TEST REPORT (WASTE WATER)

Test Report No : 505/12/2024-25

Date : 26/12/2024

Work Order No : 4600087592

Job Card No. : JK/2024-25/02

Name of company : JK Cement Limited.

S.no. 1342/3, 1327, 1336, 1334, 1333, Vill.: Vadadala,

Ta.: Balasinor, Dist.: Mahisagar

Attention : Mr. Vijay Mourya

Date of Sample Receipt : 20/12/2024

Date & Time of Sampling : 19/12/2024 at 12.00 Hrs.

Lab ID : WW/24-25/12/56

Date of Testing : 20th to 25th December 2024

Sample Type : Waste Water

Description of Sample Packing : Plastic Carbo

Type of Sampling : Grab

Quantity of Sample : 1 Ltr.

Description : Sewage Water

Sample Collected by : Royal Environment

Sampling Method : IS 3025 : Part 1

Conditioning of Sample(if any): NIL

Location of Sample : STP Plant - Untreated Sewage Water

Sr. No.	Parameters	Unit	Permissible Limits as per GPCB*	Results	Test Method
01.	pH	---	---	7.7	IS 3025 : Part 11
02.	Total Suspended Solids	mg/l	---	96	IS 3025 : Part 17
03.	BOD (3 days at 27 c)	mg/l	---	47	IS 3025 : Part 44
04.	Faecal Coliform (FC)	MPN/100ml	---	N.A.	APHA 9221

\* Permissible Limits are as per GPCB CC&A

N.A.=Not Applicable

Authorized Signatory  
Parth Godhani (QM/TM)

Tested by  
Shweta Dhanani

\* End of Report \*

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Page 1 of 1





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### TEST REPORT (WASTE WATER)

Test Report No : 605/03/2024-25

Date : 26/03/2025

Work Order No : 4600087592

Job Card No. : JK/2024-25/02

Name of company : JK Cement Limited.

S.no. 1342/3, 1327, 1336, 1334, 1333, Vill.: Vadadala,

Ta.: Balasinor, Dist.: Mahisagar

Attention : Mr. Vijay Mourya

Date of Sample Receipt : 22/03/2025

Date & Time of Sampling : 21/03/2025 at 12.30 Hrs.

Lab ID : WW/24-25/03/20

Date of Testing : 22nd to 26th March 2025

Sample Type : Waste Water

Description of Sample Packing : Plastic Carbo

Type of Sampling : Grab

Quantity of Sample : 1 Ltr.

Description : Sewage Water

Sample Collected by : Royal Environment

Sampling Method : IS 3025 : Part 1

Conditioning of Sample(if any): NIL

Location of Sample : STP Plant - Untreated Sewage Water

Sr. No.	Parameters	Unit	Permissible Limits as per GPCB*	Results	Test Method
01.	pH	---	---	7.9	IS 3025 : Part 11
02.	Total Suspended Solids	mg/l	---	76	IS 3025 : Part 17
03.	BOD (3 days at 27 c)	mg/l	---	42	IS 3025 : Part 44
04.	Faecal Coliform (FC)	MPN/100ml	---	540	APHA 9221

\* Permissible Limits are as per GPCB CC&A

N.A.=Not Applicable

Authorized Signatory  
Parth Godhani (QM/TM)

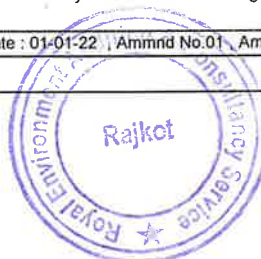
Tested by  
Shweta Dhanani

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Page 1 of 1





# Royal

## Environment Auditing & Consultancy Service

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### TEST REPORT (WASTE WATER)

Test Report No : 606/03/2024-25

Date : 26/03/2025

Work Order No : 4600087592

Job Card No. : JK/2024-25/02

Name of company : JK Cement Limited.

S.no. 1342/3, 1327, 1336, 1334, 1333, Vill.: Vadadala,

Ta.: Balasinor, Dist.: Mahisagar

Attention : Mr. Vijay Mourya

Date of Sample Receipt : 22/03/2025

Date & Time of Sampling : 21/03/2025 at 12.45 Hrs.

Lab ID : WW/24-25/03/21

Date of Testing : 22nd to 26th March 2025

Sample Type : Waste Water

Description of Sample Packing : Plastic Carbo

Type of Sampling : Grab

Quantity of Sample : 1 Ltr.

Description : Sewage Water

Sample Collected by : Royal Environment

Sampling Method : IS 3025 : Part 1

Conditioning of Sample(if any): NIL

Location of Sample : STP Plant - Treated Sewage Water

Sr. No.	Parameters	Unit	Permissible Limits as per GPCB*	Results	Test Method
01.	pH	---	6.5-9.0	8.1	IS 3025 : Part 11
02.	Total Suspended Solids	mg/l	Less than 100	21	IS 3025 : Part 17
03.	BOD (3 days at 27 c)	mg/l	30.0	23	IS 3025 : Part 44
04.	Fecal Coliform (FC)	MPN/100ml	Less than 1000	120	APHA 9221

\* Permissible Limits are as per GPCB CC&A

Authorized Signatory  
Parth Godhani (QM/TM)

Tested by  
Shweta Dhanani

\* End of Report \*

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Doc. No. F/7.8/03, Issue No. 01, Issue Date: 01-01-22, Ammd No.01, Ammd Date : 23/05/2022



J.K Cement Works, Village - Vadadala, Taluka - Balasinor, District - Mahisagar (Gujarat)

**Photographs of Rain Water Recharging Pts**

**Rain Water Recharge Pit No. 1**



**Rain Water Recharge Pit No. 2**



**Rain Water Recharge Pit No. 3**



**Rain Water Recharge Pit No. 4**



**Rain Water Recharge Pit No. 5**





J.K. Cement Works, Balasinor					
Estimation of Quantum of runoff available within premises					
S.No.	Particulars	Area (Sqm)	Rain fall (m)	Runoff Coefficient*	Quantum of Run off available (Cum/Year)
	1	2	3	4	5 (2*3*4)
1	Roof Top of building/Shed/	4935	0.852	0.85	3574
2	Road/Paved area	43200	0.852	0.65	23924
3	Open Land	6065	0.852	0.20	1033
4	Green Belt	26400	0.852	0.15	3374
5	Total (sqm)	80600		Total Quantum of available runoff (cum/y)	<b>31905</b>



# Royal

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Ph.: +91 9099919954 ■ E-mail : royalenvironment@live.com ■ admin@royalconsultancy.com

Ref. No. : 502/12/2024-25

Date : 26/12/2024

### REPORT OF STACK EMISSION ANALYSIS

Name of company : JK Cement Limited.

S.no. 1342/3, 1327, 1336, 1334, 1333,

Vill.: Vadadala,

Ta.: Balasinor, Dist.: Mahisagar

Test Method : As per IS Standards - 11255\_1/2/3/7

Sr. No.	Particulars	Unit	Stack No. 1
01.	Date of sampling	---	19/12/2024
02.	Time of sampling	Hr	12:00
03.	Stack Attached to #	---	Cement Mill
04.	Air Pollution Control Measures	---	Bag House
05.	Stack Height	Meter	39
06.	Stack Diameter	Meter	1.5
08.	Stack Temperature	° C	86
09.	Ambient Temperature	° C	31
10.	Average Velocity of Flue Gases	M/Sec.	8.1
11.	Isokinetic flow rate for P.M. Sampling	LPM	25
12.	Permissible Limit for P.M.*	mg/Nm <sup>3</sup>	150
13.	Measured Concentration of P.M.	mg/Nm <sup>3</sup>	19.1
14.	Opacity Meter reading during monitoring	mg/Nm <sup>3</sup>	19.48
15.	Measured Concentration of SO <sub>2</sub>	mg/Nm <sup>3</sup>	2.8
16.	Measured Concentration of Nox	mg/Nm <sup>3</sup>	19.1

Instruments used : Ecotech make Stack Sampler (ESS 100)

Calibration done on : 18/01/2024

# Hot Air generator is attached to Cement Mill &amp; flue gases passed through common stack of Cement Mill

\* Permissible Limits are as per GPCB CC&amp;A



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Ph.: +91 9099919954 ■ E-mail : royalenvironment@live.com ■ admin@royalconsultancy.com

Ref. No. : 501/12/2024-25

Date : 26/12/2024

## REPORT OF STACK EMISSION ANALYSIS

Name of company : JK Cement Limited.

S.no. 1342/3, 1327, 1336, 1334, 1333,

Vill.: Vadadala,

Ta.: Balasinor, Dist.: Mahisagar

Test Method : As per IS Standards - 11255\_1/2/3/7

Sr. No.	Particulars	Unit	Stack No. 2
01.	Date of sampling	---	19/12/2024
02.	Time of sampling	Hr	11:00
03.	Stack Attached to	---	Packer No. 1
04.	Air Pollution Control Measures	---	Bag Filter
05.	Stack Height	Meter	36.0
06.	Stack Diameter	Meter	1.10
08.	Stack Temperature	° C	56
09.	Ambient Temperature	° C	31
10.	Average Velocity of Flue Gases	M/Sec.	7.9
11.	Isokinetic flow rate for P.M. Sampling	LPM	23
12.	Permissible Limit for P.M.*	mg/Nm <sup>3</sup>	150
13.	Measured Concentration of P.M.	mg/Nm <sup>3</sup>	19.2

Instruments used : Ecotech make Stack Sampler (ESS 100)

Calibration done on : 18/01/2024

\* Permissible Limits are as per GPCB CC&A

Royal Environment Auditing & Consultancy Service

Analyst



# Royal

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Ph.: +91 9099919954 ■ E-mail : royaleenvironment@live.com ■ admin@royalconsultancy.com

Ref. No. : 604/03/2024-25

Date : 26/03/2025

## REPORT OF STACK EMISSION ANALYSIS

Name of company : JK Cement Limited.

S.no. 1342/3, 1327, 1336, 1334, 1333,

Vill.: Vadadala,

Ta.: Balasinor, Dist.: Mahisagar

Test Method : As per IS Standards - 11255\_1/2/3/7

Sr. No.	Particulars	Unit	Stack No. 4
01.	Date of sampling	---	21/03/2025
02.	Time of sampling	Hr	0.46
03.	Stack Attached to	---	D.G.Set 400 KVA
05.	Stack Height	Meter	11
06.	Stack Diameter	Meter	---
07.	Stack Temperature	°C	125
08.	Ambient Temperature	°C	34
09.	Average Velocity of Flue Gases	M/Sec.	7.9
10.	Isokinetic flow rate for P.M. Sampling	LPM	21
11.	Gaseous Sampling Flow Rate	LPM	2.0
12.	Permissible Limit for P.M.*	mg/Nm <sup>3</sup>	150
13.	Measured Concentration of P.M.	mg/Nm <sup>3</sup>	66.8
14.	Permissible Limit for SO <sub>2</sub> *	ppm	100
15.	Measured Concentration of SO <sub>2</sub>	ppm	3.2
16.	Permissible Limit for NO <sub>x</sub> *	ppm	50
17.	Measured Concentration of NO <sub>x</sub>	ppm	35.1
18.	Measured Concentration of CO	mg/Nm <sup>3</sup>	27.2

Instruments used : Ecotech make Stack Sampler (ESS 100)

Calibration is done on : 07/01/2025

Royal Environment Auditing & Consultancy Service

Analyst



# Royal

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Ph.: +91 9099919954 ■ E-mail : royaleenvironment@live.com ■ admin@royalconsultancy.com

Ref. No. : 602/03/2024-25

Date : 26/03/2025

### REPORT OF STACK EMISSION ANALYSIS

Name of company : JK Cement Limited.

S.no. 1342/3, 1327, 1336, 1334, 1333,

Vill.: Vadadala,

Ta.: Balasinor, Dist.: Mahisagar

Test Method : As per IS Standards - 11255\_1/2/3/7

Sr. No.	Particulars	Unit	Stack No. 1
01.	Date of sampling	---	21/03/2025
02.	Time of sampling	Hr	11:40
03.	Stack Attached to #	---	Cement Mill
04.	Air Pollution Control Measures	---	Bag House
05.	Stack Height	Meter	39
06.	Stack Diameter	Meter	1.5
08.	Stack Temperature	° C	82
09.	Ambient Temperature	° C	33
10.	Average Velocity of Flue Gases	M/Sec.	7.5
11.	Isokinetic flow rate for P.M. Sampling	LPM	22
12.	Permissible Limit for P.M.*	mg/Nm <sup>3</sup>	150
13.	Measured Concentration of P.M.	mg/Nm <sup>3</sup>	17.6
14.	Opacity Meter reading during monitoring	mg/Nm <sup>3</sup>	17.95
15.	Measured Concentration of SO <sub>2</sub>	mg/Nm <sup>3</sup>	2.6
16.	Measured Concentration of Nox	mg/Nm <sup>3</sup>	20.5

Instruments used : Ecotech make Stack Sampler (ESS 100)

Calibration done on : 07/01/2025

# Hot Air generator is attached to Cement Mill & flue gases passed through commonstack of Cement Mill

\* Permissible Limits are as per GPCB CC&A



# Royal

## Environment Auditing & Consultancy Service

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Ph.: +91 9099919954 ■ E-mail : royaleenvironment@live.com ■ admin@royalconsultancy.com

Ref. No. : 601/03/2024-25

Date : 26/03/2025

## REPORT OF STACK EMISSION ANALYSIS

Name of company : JK Cement Limited.

S.no. 1342/3, 1327, 1336, 1334, 1333,

Vill.: Vadadala,

Ta.: Balasinor, Dist.: Mahisagar

Test Method : As per IS Standards - 11255\_1/2/3/7

Sr. No.	Particulars	Unit	Stack No. 2
01.	Date of sampling	---	21/03/2025
02.	Time of sampling	Hr	10:00
03.	Stack Attached to	---	Packer No. 1
04.	Air Pollution Control Measures	---	Bag Filter
05.	Stack Height	Meter	36.0
06.	Stack Diameter	Meter	1.10
08.	Stack Temperature	° C	61
09.	Ambient Temperature	° C	32
10.	Average Velocity of Flue Gases	M/Sec.	7.4
11.	Isokinetic flow rate for P.M. Sampling	LPM	24
12.	Permissible Limit for P.M.*	mg/Nm <sup>3</sup>	150
13.	Measured Concentration of P.M.	mg/Nm <sup>3</sup>	20.5

Instruments used : Ecotech make Stack Sampler (ESS 100)

\* Permissible Limits are as per GPCB CC&A

Calibration done on : 07/01/2025

Royal Environment Auditing & Consultancy Service



A  
Analyst























# GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

Sector-10-A, Gandhinagar-382 010

Phone : (079) 23226295

Fax : (079) 23232156

Website : www.gpcb.gov.in

**By R.P.A.D.**

In exercise of the power conferred under Section - 25 of the Water (Prevention and Control of Pollution) Act - 1974, under Section - 21 of the Air (Prevention and Control of Pollution) Act - 1981 and Authorization under Rule - 6(2) of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 framed under the Environment (Protection) Act, 1986.

And whereas Board has received consolidated consent application vide Inward ID: 174853, Dated : 27/06/2020 for the Renewal of consolidated consent and authorization (CC&A) of this Board under the Provisions / Rules of the aforesaid Acts. Consent & Authorization is hereby granted as under.

## CONSENT AND AUTHORISATION:

(Under the provisions / rules of the aforesaid environmental acts)

To,

**JK Cement Limited (ID-69109),**

**S.no. 1342/3, 1327,1336,1334,1333,**

**Vill:- Vadadala,**

**Ta:- Balasinor, Dist:- Mahisagar.**

- Consent Order No. **AWH-109494**, Date of issue : **28/09/2020**
- The consent shall be valid up to **26/06/2025** to operate industrial plant for manufacturing of the following products :

Sr. No.	Name of Product	Quantity
1.	Pozzolana Portland Cement (PPC)	94500 MT/Month

## **SPECIFIC CONDITIONS :**

- Unit shall make Sewage Treatment Plant operational prior to commencing full fledged production activity.

### **3. CONDITION UNDER THE WATER ACT :**

**3.1** Fresh water shall be obtained through Borewell.

**3.2** The quantity of total water consumption shall not exceed 300 KLD.

Industrial: - 270 KL/day

Domestic: - 30 KL/day

**3.3** The quantity of total effluent generation shall not exceed 9 KLD.

Industrial: - Nil

Domestic: - 9 KL/day

**3.4** Domestic effluent shall be treated into STP to confirm following standards and treated sewage shall be utilized for gardening/plantation within factory premises.

PARAMETER	NORMS
pH	6.5 to 9

*Clean Gujarat Green Gujarat*

ISO - 9001 - 2008 & ISO - 14001 - 2004 Certified Organisation

BOD (3 days at 27°C)	30 mg/l
Total Suspended Solids	< 100 mg/l
Fecal Coliform (FC) (Most Probable Number 100 milliliter, MNP/1000 ml)	< 1000

#### 4. CONDITIONS UNDER AIR ACT - 1981:

4.1 Following shall be used as fuel.

Sr.No.	Name Of Fuel	Quantity
1.	Diesel	5.24 KLD

4.2 The applicant shall install & operate Air Pollution Control Systems in order to achieve norms prescribed below :

4.3 The Flue gas emission through stack attached to conform to the following standards:

Sr. No.	Stack attached to.	Stack height in Meter From G.L.	APCM	Parameter.	Permissible limit.
1.	Hot Generator Air	30 meter	Bag House	Particulate Matter	150 mg/NM <sup>3</sup>
2.	D.G.Set (500 KVA)	11 meter	---	SO <sub>2</sub> NO <sub>x</sub>	100 ppm 50 ppm

#### 4.4 D.G. Set Standards:

4.4.1 The flue gas emission through stack attached to D.G. Set shall conform to the following standards:

4.4.2 The minimum height of stack to be provided with each of the generator set shall be  $H=h+0.2(KVA)^{1/2}$ , where H = Total stack height in meter, h = height of the Building in meters where or by the side of which the generator set is installed.

4.4.3 Noise from D.G. set shall be controlled by providing an acoustic enclosure or by treating the room acoustically, at the users end.

4.4.4 The acoustic enclosure or acoustic treatment of the room shall be designed for minimum 25 dB(A) insertion loss or for meeting the ambient noise standards, whichever is on the higher side (if the actual ambient Noise is on the higher side, it may not be possible to check the performance of the acoustic enclosure/ acoustic treatment. Under such circumstances the performance may be checked for Noise reduction up to actual ambient noise level, preferably, in the night time). The measurement for insertion loss may be done at different points at 0.5 m from the acoustic enclosure/room, and the averaged.

4.4.5 The D.G. Set shall be provided with proper exhaust muffler with insertion loss of minimum 25 dB(A).

4.4.6 All efforts shall be made to bring down the noise level due to the D.G. Set, outside the premises, within the ambient noise requirements by proper siting and control measures.

4.4.7 Installation of a D.G. Set must be strictly in compliance with the recommendations of the D.G. Set manufacturer.

4.4.8 A proper routine and preventive maintenance procedure for the D.G. Set should be set and followed in consultation with the D.G. Set manufacture which would help prevent noise levels of the D.G. Set from deteriorating with use.

4.5 The process gas emission through stack attached to conform to the following standards:

4.6



Stack No.	Stack attached to	Stack height in Meter	APCM	Parameter	Permissible Limit
1.	Cement Mill	30	Bag House	Particulate Matter	150 mg/Nm <sup>3</sup>
2.	Clinker Hopper	30	Bag Filter		
3.	Fly Ash Silo	30	Bag Filter		
4.	Clinker Silo	30	Bag Filter		
5.	Packer No.1	30	Bag Filter		
6.	Packer No.2	30	Bag Filter		

- 4.7 Stack monitoring facilities like port hole, platform / ladder etc., shall be provided with stacks / vents chimney in order to facilitate sampling of gases being emitted into the atmosphere.
- 4.8 The concentration of the following parameters in the ambient air within the premises of the industry and a distance of 10 meters from the source (other than the stack/vent) shall not exceed the following levels:

PARAMETER	PERMISSIBLE LIMIT ANNUAL	PERMISSIBLE LIMIT 24 HRS. AVERAGE
Particulate matter – 10[PM <sub>10</sub> ]	60 µg/M <sup>3</sup>	100 µg/M <sup>3</sup>
Particulate matter-2.5[PM <sub>2.5</sub> ]	40 µg/M <sup>3</sup>	60 µg/M <sup>3</sup>
Sulphur Dioxide	50 µg/M <sup>3</sup>	80 µg/M <sup>3</sup>
Oxides of Nitrogen	40 µg/M <sup>3</sup>	80 µg/M <sup>3</sup>

- 4.9 The applicant shall operate industrial plant / air pollution control equipment very efficiently and continuously so that the gaseous emission always conforms to the standards specified in condition No.4.3, &4.5 above.
- 4.10 The consent to operate the industrial plant shall lapse if at any time the parameters of the gaseous emission are not within the tolerance limits specified in the condition No. 4.3 & 4.4 above.
- 4.11 The applicant shall provide Portholes, Ladder, Platform etc. at Chimney(s) for monitoring the Air Emissions and the same shall be open for inspection to/and for use of Board's Staff. The Chimney(s)/Vents attached to various sources of emission shall be designed by Number such as S-1, S-2 etc. and these shall be Painted / displayed to facilitate identification.
- 4.12 The Industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standards in respect of noise to less than 75 dB(A) during day time and 70 dB(A) during night time. Daytime is reckoned in between 6 A.M. and 10 P.M. and nighttime is reckoned between 10 P.M. and 6 A.M.

**5. AUTHORIZATION FOR THE MANAGEMENT & HANDLING OF HAZARDOUS WASTES Form (See Rule 6 (2)).**

Number of authorization and date of issue: AWH-109494, Date of issue : 28/09/2020.

M/s. **J K Cement Limited** is hereby granted an authorization to operate facility for following hazardous wastes on the premises situated at S.no. 1342/3, 1327,1336,1334,1333, Vill:- Vadadala, Tal:- Balasinor, Dist:- Mahisagar.



Sr. No.	Waste	Category & Schedule	Quantity	Facility
1.	Used or spent oil	I – 5.1	5.1 KL/Annum	Collection, Storage, Transportation & disposed off by selling to registered refiners.
2.	Waste/ Residues Containing Oil	I – 5.2	2.0 KL/Annum	Collection, Storage, Transportation & disposed off by selling to registered refiners.
3.	Empty barrels/ containers/ liners contaminated with hazardous chemicals/ wastes	I – 33.1	300 Nos./Annum	Collection, Storage, Transportation & disposed off by Authorized Decontamination Facility.
4.	Contaminated cotton rags or other cleaning materials	I – 33.2	1.2 MT/Annum	Collection, Storage, Transportation & disposal at own Integrated Cement Plant Kiln at Rajasthan for Co-processing.

5.1 The authorization is granted to operate a facility for collection, storage, Transportation & ultimate disposal of Hazardous waste at TSDF Site, Authorized Decontamination Facility & selling to registered refiners.

5.2 The authorization shall be in force for a period up to **26/06/2025**

**5.3 TERMS AND CONDITIONS OF AUTHORISATION :**

5.3.1 The authorized person shall comply with the provisions of the Environment (Protection) Act – 1986 and the Rules made there under.

5.3.2 The authorization or its renewal shall be produced for inspection at the request of an officer authorized by this Board.

5.3.3 The persons authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous wastes without obtaining prior permission of the Gujarat Pollution Control Board.

5.3.4 Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.

5.3.5 It is the duty of the authorized person to take prior permission of the State Pollution Control Board to close down the facility.

5.3.6 An application for the renewal of an authorization shall be made as laid down in Rule 6.

5.3.7 Industry shall have to display the relevant information with regard to hazardous waste as indicated in the Court's order in W.P. No.657 of 1995 dated 14<sup>th</sup> October 2003.

5.3.8 Industry shall have to display online data outside the main factory gate with regard to quantity and nature of hazardous chemicals being handled in the plant, including waste water and air emissions and solid hazardous waste generated within the factory premises.

5.3.9 The person authorized shall implement Emergency Response Procedure (ERP) for which this authorization is being granted considering all site specific possible scenarios such as spillages, leakages, fire and their possible impacts and also carry out mock drill in this regard at regular intervals of time.

5.3.10 The person authorized shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty".



- 5.3.11 The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilization of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorization.
- 5.3.12 The importer or exporter shall bear the cost of import or export and mitigation of damages if any.
- 5.3.13 Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.
- 5.3.14 The occupier handling hazardous or other wastes and operator of disposal facility shall maintain records of such operations in Form 3.
- 5.3.15 The occupier handling hazardous and other wastes and operator of disposal facility shall send annual returns to the State Pollution Control Board in Form 4 by June 30<sup>th</sup> for the period ensuring 31<sup>st</sup> March of the year.
- 5.3.16 Where an accident occurs at the facility of the occupier handling hazardous or other wastes and operator of the disposal facility or during transportation, the occupier or the operator or the transporter shall immediately intimate the State Pollution Control Board through telephone, e-mail about the accident and subsequently send a report in Form 11.

## **6. GENERAL CONDITIONS :**

- 6.1 Adequate plantation shall be carried out all along the periphery of the industrial premises in such a way that the density of plantation is at least 1,000 trees per acre of land and a green belt of 10 meters width is developed.
- 6.2 In case of any change either in products, its capacity or manufacturing process, the applicant shall have to obtain prior permission of this Board.
- 6.3 If the products/process falls in SCHEDULE-I or II of the Environmental Audit Scheme, as specified in the order dated 13/3/97 of Hon. High Court in MCA NO.326/97 in SCA No.770/95, the applicant shall also abide by the said scheme.
- 6.4 The applicant shall have to obtain P.L.I. Policy as per P.L.I. Act, 1991 and submit the copy of the same to the G.P.C.B.
- 6.5 The unit shall have and operate all the requisite equipments/facilities for prevention and control of efficiently all its effluent treatment plant/air pollution control equipments/ facilities for management and handling of hazardous wastes. Whenever the effluent treatment plant/air pollution control equipments/ facilities for hazardous waste or any part thereof are fully or partly non-operational for any reason whatsoever (whether for maintenance/repairs/electricity failure or otherwise) unit shall closedown its manufacturing/ processing activities and shall not restart it unless and until all it's the effluent treatment plants/air pollution protection and control equipments and facilities including stack monitoring/ facilities for hazardous waste management and handling are fully operational.
- 6.6 The unit shall have and use only one outlet for the discharge of its effluent and no effluent shall be discharged without requisite treatment and without meeting with the GPCB norms. Such outlet shall be near the front gate/entrance of the unit. The unit shall not keep any bypass line or system, loose or flexible pipe for discharging effluent outside or even for transporting treated or untreated effluent within the factory premises, within effluent treatment plants or in the compound of the unit.
- 6.7 The unit shall, within one week from the date of issue of this order. Put up at the entrance the electricity consumer number and the name of the electricity consumers as on the record of the GEP. EC.



Outward No. 56923/05/10/2022

- 6.8 Make adequate lighting arrangements all around the Effluent Treatment Plants/ Air Pollution Control measures/ incinerator / facilities for hazardous management and handling also above the Boards mentioned in the above clause.
- 6.9 The unit shall maintain the records of production and consumption of electricity and water for each day during the period of production. The unit shall maintain separate figures for consumption of electricity for running the Air pollution control measures / incineration system by having a separate meter/sub- meter for each Air Pollution Control measures. The number of units consumed by operating the diesel generating sets, if any, shall also be maintained. In case of plants involving 'Bio-mass' treatment, for each addition of bio-mass time and quantity, should be recorded. The uptake rate of Oxygen of the bio-mass in the aeration basin and other parameters of biological system should be recorded, every day.
- 6.10 When electricity supply or water supply is disconnected in future on account of noncompliance with the GPCB norms or on account of the closure order, which may be passed by the court or by the Govt., /GPCB under any statutory provisions relating to environmental protection and prevention and control of pollution. The unit shall not use any diesel generating set or any other alternative source of energy or water tankers from outside for continuing the production activities.
- 6.11 "Flow Meters" should be installed at inlet and outlet of Effluent Treatment Plant (ETP thereafter).
- 6.12 All the chemicals and nutrients, which are required to be added/dosed any where in the ETP. should be so added by using "Metering Pumps" only.
- 6.13 The printed log-books shall be maintained and get them certified for :
- a) Energy/Fuel Consumption/Raw material consumption and quantity of products manufactured.
  - b) Waste water/gaseous/ hazardous waste flow at inlet & outlet of E.T.P. & air pollution control measures/ incinerator.
  - c) Quantity of sludge generated/ treated/ stored/ reused/ disposed off separately for each type of hazardous waste.
  - d) Laboratory analysis/reports for each of the specified parameters of liquid effluents, gaseous discharge and hazardous waste sample.
- 6.14 Low NO<sub>x</sub> burners may be provided to avoid excessive formulation of NO<sub>x</sub>. Only LSHS will be used as fuel during the critical months to ensure that SO<sub>2</sub> levels in the ambient air is within the norm specified.
- 6.15 A copy of approved On-site Emergency Plan as required under the Rules 13 and 14 of the Handling, Manufacture, Storage and Import of the Hazardous Chemicals Rules, 1989 should be submitted to the Board.
- 6.16 The funds earmarked for the Environmental protection measures should not be diverted for any other purpose and year wise expenditure should be reported to this Board and to the Government.
- 6.17 Storm water shall not be mixed with the industrial effluent. Disposal system for storm water shall be provided separately.
- 6.18 Good housekeeping shall be maintained within the factory and industrial premises. All pipes, vents, joints, valves and drains shall be leak proof. They should be checked periodically and arrangements thereof shall be indicated in the On-site Emergency Plan. Floor washing shall be admitted to the effluent collection system for subsequent treatment and disposal.
- 6.19 The directives issued by the Board from time to time in view of direction issued by the Hon'ble High Court of Gujarat in the matter of S.C.A.770/95 shall have to be complied

- 6.20** The applicant shall make an application for renewal of the consent at least 60 days before the date of expiry of the consent.
- 6.21** In case of change of ownership/management the name and address of the new owners / partners / directors / proprietor should immediately be intimated to the Board.
- 6.22** The applicant shall however, not without the prior consent to operate of the Board bring into use any new or altered outlet for the discharge of effluent or gaseous emission or sewage waste from the proposed industrial plant. The applicant is required to make applications to this Board for this purpose in the prescribed forms under the provisions of the Water Act-1974, the Air Act-1981 and the Environment (Protection) Act-1986.
- 6.23** Applicant is required to comply with the Manufacturing, Storage and Import of Hazardous Chemicals Rules-1989 framed under the Environment (Protection) Act-1986.
- 6.24** If it is established by any competent authority that the damage is caused due to their industrial activities to any person or his property in that case they are obliged to pay the compensation as determined by the competent authority.

**PENALTY PROVISIONS:**

If the applicant fails to comply with the conditions and other directives issued by this Board as laid down in this order, the applicant is liable for the action under section 5 of the E(P) Act and also prosecution under Section 43 & 44 and other penal provisions of the Water Act and under section 37, 38, 39 and other penal provisions of the Air Act & under section 15 of the E(P) Act and shall on conviction, be liable for punishment and imprisonment as provided in the said Acts.

**NOTE:**

The Board reserves the right to review and/or revoke the consent/ authorization and/or make variations in the conditions that the Board deems fit in accordance with provisions of the Acts/Rules.

**For and on behalf of  
Gujarat Pollution Control Board**



**(V.D.Rakholia)  
Unit Head-Godhra**

**No. GPCB/CCA-PN-705/ID:69109**

**ISSUED TO:**

**To,  
J K Cement Limited (ID-69109),  
S.no. 1342/3, 1327,1336,1333,  
Vill:- Vadadala,  
Ta:- Balasinor, Dist: Dahisagar.**

Outward No: 569239, 05/10/2020



# GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

Sector-10-A, Gandhinagar-382 010

Phone : (079) 23226295

Fax : (079) 23232156

Website : www.gpcb.gov.in

By R.P.A.D.

## AMENDMENT OF CONSOLIDATED CONSENT AND AUTHORIZATION (CC&A)

No. GPCB/CCA-PN-705/ID:69109/

Date: /11/2021

To,

M/s J K Cement Limited (ID: 69109),

S. No. 1327, 1333, 1334, 1336, 1342/3,

Vill. Vadalala - 388255,

Tal. Balasinor, Dist. Mahisagar.

**Sub :** Amendment of Consolidated Consent and Authorization (CC&A) of this Board under the provisions of The Water (Prevention and Control of Pollution) Act - 1974, The Air Prevention and Control of Pollution) Act - 1981 and The Hazardous and Other Wastes (Management and Transboundary Movement) Rules – 2016, framed under The Environmental (Protection) Act – 1986.

**Ref :** 1. CCA-Fresh No. AWH-109494, issued vide order No. GPCB/CCA-PN-705/ID:69109/569239, Dated: 05/10/2020.

2. CTE-Amendment No. CTE-113924, issued vide order No. GPCB/CCA-PN-705/ID:69109/596225, Dated: 28/07/2021.

3. Your CCA – Amendment Application Inward ID: 200821, Dated: 23/08/2021.

The Board has granted Consolidated Consent and Authorization (CC&A) vide order No. AWH-109494, issued vide order No. GPCB/CCA-PN-705/ID:69109/569239, Dated: 05/10/2020; shall be amended as under:

- Consent Order No. **AH-115081**, Date of issue: **23/08/2021**.
- The validity period of order no. AH- 115081 shall be up to **26/06/2025**.

1. The list of products to be manufactured by unit; is as following:

Sr. No.	Product	Quantity
1.	Pozzolana Portland Cement (PPC)	94,500
2.	Ordinary Portland Cement (OPC)	MT/Month

### 2. SPECIFIC CONDITIONS:

- Unit shall not carry out any activities that may attract the provision of the EIA Notification - 2006.
- Unit shall comply with provisions of The Hazardous & Other Wastes (Management & Transboundary Movement) Rules 2016.

### 3. CONDITIONS UNDER THE WATER ACT - 1974 :

3.1 The Condition no. 3 of consent order no. AWH-109494 shall be amended as under:

3.2 The quantity of the total Water Consumption shall not exceed 95 KLD.

Ind : 60 KLD

Dom: 15 KLD

Gardening: 20 KLD

3.3. The quantity of the total Wastewater Generation shall not exceed 7 KLD.

Ind : Nil

Dom : 7 KLD

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ISO - 9001 - 2008 & ISO - 14001 - 2004 Certified Organisation

Outward No: 60800-17/11/2021

- 3.4. Domestic effluent shall be treated into STP to conform following standards. Treated sewage shall be utilized for gardening/plantation within factory premises.

PARAMETER	NORMS
pH	6.5 to 9
BOD (3 days at 27°C)	30 mg/l
Total Suspended Solids	< 100 mg/l
Fecal Coliform (FC) (Most Probable Number 100 milliliter, MNP/1000 ml)	< 1000

**4. AUTHORISATION FOR THE MANAGEMENT & HANDLING OF HAZARDOUS WASTES Form-2 {See Rule 6 (2)}:**

- 4.1 Condition no. 5 of consent order no. AWH-109494 shall be amended as under:
- 4.2 Number of authorization and date of issue: **AH-115081**, Date of issue: **11/10/2021**.
- 4.3 **M/s J K Cement Limited (ID:69109)** is hereby granted an authorization to operate facility for following hazardous wastes on the premises situated at S. No. 1327, 1333, 1334, 1336, 1342/3, Vill.Vadalala, Tal. Balasinor, Dist. Mahisagar.

Sr. No.	Waste	Category & Schedule	Quantity	Facility
1.	Chemical gypsum	(I-26.1)	3000 MT/Month	Reception from M/s Kiri Dyes & Chemicals Pvt Ltd – Padra, M/s Colourtax Industries Pvt Ltd – Pandesara; Collection, Storage and Transportation, Reuse in Cement manufacturing
2.	Empty barrels/containers/liners contaminated with hazardous chemicals/wastes	I- 33.1	300 Nos./Year	Collection, Storage, Transportation, Disposal by sending to authorized decontamination
3.	Used oil	I- 5.1	5.1 KL/Year	Collection, Storage, Transportation, Disposal by selling to registered refiners
4.	Waste/Residues containing oil	I- 5.2	2 KL/Year	Collection, Storage, Transportation, Disposal by selling to registered refiners.
5.	Contaminated cotton rags/ other cleaning materials	I- 33.2	1.2 MT/Year	Collection, Storage, Transportation, Disposal at own Integrated Cement Plant Kiln at Rajasthan for Co-processing.

- 4.4 The authorization shall be in force for a period up to **26/06/2025**.

- All other conditions of the previous consent order No. AWH-109494, issued vide letter No. GPCB/CCA-PN-705/ID:69109/569239, Dated: 05/10/2020; shall remain unchanged.
- You are directed to comply with these conditions judiciously.

**For and on behalf of  
GUJARAT POLLUTION CONTROL BOARD**

  
(V.D. Rakholia)

Unit Head - Godhra

Outward No: 606300, 17/11/2021





# GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

Sector-10-A, Gandhinagar-382 010

Phone : (079) 23226295

Fax : (079) 23232156

Website : www.gpcb.gov.in

By R.P.A.D.

## AMENDMENT OF CONSOLIDATED CONSENT AND AUTHORIZATION (CC&A)

No. GPCB/CCA-PN-705/ID:69109/

Date: /04/2022

To,

M/s. J K Cement Limited (ID: 69109),

Sr. No. 1327, 1333, 1334, 1336, 1342/3,

Vill.: Vadlalala- 388255,

Tal. Balasinor, Dist. Mahisagar.

**Sub :** Amendment of Consolidated Consent and Authorization (CC&A) of this Board under The Hazardous and Other Wastes (Management and Transboundary Movement) Rules - 2016, framed under The Environmental (Protection) Act – 1986.

**Ref :** 1. CCA-Amendment No. AH-115081, issued vide order No. GPCB/CCA-PN-705/ID:69109/606300, Dated:17/11/2021.

2. Your CCA– Amendment Application Inward ID: 211493, Dated: 22/02/2022.

The Board has granted Consolidated Consent and Authorization (CC&A) - Amendment No. AH-115081, issued vide order No. GPCB/CCA-PN-705/ID:69109/606300, Dated:17/11/2021; shall be amended as under:

- Consent Order No. **H-117888**, Date of issue: **30/03/2022**.
- The validity period of order no. H- 117888 shall be up to **26/06/2025**.

### 1. AUTHORISATION FOR THE MANAGEMENT & HANDLING OF HAZARDOUS WASTES Form-2 {See Rule 6 (2)}:

1.1. Condition no. 6 of consent order no. AH-115081 shall be amended as under:

1.2. Number of authorization: **H-117888**, Date of issue: **30/03/2022**.

1.3. M/s J K Cement Limited (ID:69109) is hereby granted an authorization to operate facility for following hazardous wastes on the premises situated at S. No. 1342/3, 1327, 1336, 1334, 1333, Vill.Vadalala -388255, Tal. Balasinor, Dist. Mahisagar.

Sr. No.	Waste	Category & Schedule	Quantity	Facility
1.	Chemical gypsum	I-26.1, I-38.1	4000 MT/Month	Reception from actual generators having valid consent of Board; Transportation, Storage and Reuse in Cement manufacturing.
2.	Empty Barrels/ Discarded containers/ liners/bags	I- 33.1	300 Nos./Year	Collection, Storage, Transportation, Disposal by sending to authorized decontamination facility.
3.	Used oil	I- 5.1	5.1 KL/Year	Collection, Storage, Transportation, Disposal by selling to registered refiners

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Outward No: 638057, 07/04/2022

4.	Waste/Residues containing oil	I- 5.2	2 KL/Year	Collection, Storage, Transportation, disposed by selling to registered refiners.
5.	Contaminated cotton rags/ other cleaning materials	I- 33.2	1.2 MT/Year	Collection, Storage, Transportation, Disposal at own Integrated Cement Plant Kiln at Rajasthan for Co-processing.

1.4. The authorization shall be in force for a period up to 26/06/2025.

- All other conditions of the previous order No. Consolidated Consent and Authorization (CC&A) - Amendment No. AH-115081, issued vide order No. GPCB/CCA-PN-705/ID:69109/606300, Dated:17/11/2021; shall remain unchanged.
- You are directed to comply with these conditions judiciously.

For and on behalf of  
GUJARAT POLLUTION CONTROL BOARD

  
(V.D. Rakholia)  
Unit Head - Godhra



# GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN, SECTOR 10-A,  
GANDHINAGAR - 382010,  
(T) 079-23232152

By R.P.A.D.

## AMENDMENT OF CONSOLIDATED CONSENT AND AUTHORIZATION (CC&A)

No. GPCB/CCA-PN-705(2)/ID: 69109/

Date: 11/08/2023

To,  
M/s J K Cement Limited (ID: 69109),  
Sr. No. 1327, 1333, 1334, 1336, 1342/3,  
Village : Vadadala-388255,  
Tal. Balasinor, Dist. Mahisagar.

**Sub :** Amendment of Consolidated Consent and Authorization (CC&A) of this Board under the provisions of The Air Prevention and Control of Pollution Act – 1981, and The Hazardous and Other Wastes (Management and Transboundary Movement) Rules - 2016, framed under The Environmental (Protection) Act – 1986.

**Ref :** 1. CCA-Fresh No. AWH-109494, issued vide letter No. GPCB/CCA-PN-705/ID:69109/569239, Dated : 05/10/2020.  
2. CCA-Amendment No. H-117888, issued vide letter No. GPCB/CCA-PN -705/ID: 69109/638057, Dated : 07/04/2022.  
3. Environment clearance vide letter no. SEIAA/GUJ/EC/3(b)/463/2019, Dated 25/03/2019.  
4. CTE-Amendment No. CTE-122232, issued vide letter No. GPCB/CCA-PN-705(2)/ID: 69109/689728, Dated: 02/12/2022.  
5. Your CCA– Amendment Application Inward ID: 277398, Dated: 17/05/2023.

The Board has granted Consolidated Consent and Authorization (CC&A)-Fresh No. AWH-109494, issued vide order No. GPCB/CCA-PN-705/ID: 69109/569239, Dated : 05/10/2020; CCA-Amendment No. H-117888, issued vide order No. GPCB/CCA-PN -705/ID: 69109/638057, Dated : 07/04/2022; which shall be amended as under:

- Consent Order No. **AH-128013**, Date of issue: **28/07/2023**.
- The validity period of order no. **AH-128013** shall be up to **26/06/2025**.

### **1. SPECIFIC CONDITIONS:**

- Unit shall comply with conditions stipulated in Environment Clearance dated 25/03/2019.

### **2. CONDITION UNDER THE AIR ACT - 1981:**

- The Condition No. 4.1 to 4.4 of consent order no. AWH-109494 shall be amended as under :

**2.1** The following shall be used as fuel.

Sr. No.	Name Of Fuel	Quantity
1.	Coal	20MT/day
2.	Agro waste/bio mass	80MT/day
3.	Diesel	5.24KLD



2.2 The applicant shall install & operate Air Pollution Control Systems in order to achieve norms prescribed below:

2.3 The flue gas emission through stack attached to following shall conform to the standards mentioned below:

Sr. No.	Stack attached to	Stack height in Meter From G.L.	APCM	Parameter	Permissible limit
1.	Hot Air Generator (Diesel based)	30m	Bag House	Particulate Matter	150 mg/ Nm <sup>3</sup>
2.	Hot Air Generator (Coal/ Agro waste/bio mass based)	30m	Bag House	SO <sub>2</sub> NO <sub>x</sub>	100 ppm 50 ppm
3.	D.G. Set (500 KVA)	As per condition no. 2.4.2	As per condition no. 2.4	PM CO NO <sub>x</sub> + HC Smoke limit (light absorption coefficient)	<0.2 g/KW-hr <3.5 g/KW-hr <4.0 g/KW-hr <0.7 m-1

#### 2.4 D.G. Set Standards:-

- 2.4.1 The flue gas emission through stack attached to D.G. Set shall conform to the following standards:
- 2.4.2 The minimum height of stack to be provided with each of the generator set shall be  $H=h+0.2(KVA)^{1/2}$ , where H = Total stack height in meter, h = height of the Building in meters where or by the side of which the generator set is installed.
- 2.4.3 Noise from D.G. set shall be controlled by providing an acoustic enclosure or by treating the room acoustically, at the users end.
- 2.4.4 The acoustic enclosure or acoustic treatment of the room shall be designed for minimum 25 dB(A) insertion loss or for meeting the ambient noise standards, whichever is on the higher side (if the actual ambient Noise is on the higher side, it may not be possible to check the performance of the acoustic enclosure/ acoustic treatment. Under such circumstances the performance may be checked for Noise reduction up to actual ambient noise level, preferably, in the night time). The measurement for insertion loss may be done at different points at 0.5 m from the acoustic enclosure/room, and the averaged.
- 2.4.5 The D.G. Set shall be provided with proper exhaust muffler with insertion loss of minimum 25 dB(A).
- 2.4.6 All efforts shall be made to bring down the noise level due to the D.G. Set, outside the premises, within the ambient noise requirements by proper siting and control measures.
- 2.4.7 Installation of a D.G. Set must be strictly in compliance with the recommendations of the D.G. Set manufacturer.
- 2.4.8 A proper routine and preventive maintenance procedure for the D.G. Set should be set and followed in consultation with the D.G. Set manufacture which would help prevent noise levels of the D.G. Set from deteriorating with use.

### 3. AUTHORISATION FOR THE MANAGEMENT & HANDLING OF HAZARDOUS WASTES Form-2 (See Rule 6 (2)):

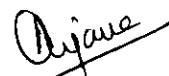
- 3.1 Condition no. 1.3 of consent order no. H-117888 shall be amended as under:
- 3.2 Number of authorization and date of issue: **AH-128013**, Date of issue: **28/07/2023**.
- 3.3 **M/s J K Cement Limited (ID: 69109)**, is hereby granted an authorization to operate facility for following hazardous wastes on the premises situated at Sr. No. 1327, 1333, 1334, 1336, 1342/3, Village : Vadadala, Tal. Balasinor, Dist. Mahisagar.

Sr. No.	Waste	Category & Schedule	Quantity	Mode of Disposal
1.	Chemical gypsum	I - 26.1, I - 38.1, I - 35.3	4000 MT/month	Reception from actual generators having valid consent of Board; Transportation. Storage and Reuse in cement manufacturing.
2.	Empty Barrels/ Discarded containers/liners/bags	I - 33.1	300 Nos./Year	Collection, Storage, Transportation, Disposal at authorized decontamination facility in GPS mounted vehicles through online XGN manifest system.
3.	Used Oil	I - 5.1	5.1 KL/year	Collection, Storage, Transportation, Disposal by selling to registered refiners; in GPS mounted vehicles through online XGN manifest system.
4.	waste./Residues containing oil	I - 5.1	2 KL/year	Collection, Storage, Transportation, Disposal by selling to registered refiners; in GPS mounted vehicles through online XGN manifest system.
5.	Contaminated cotton rags/ other cleaning materials	I - 33.2	1.2 MT/year	Collection, Storage, Transportation & Disposal at own Integrated Cement Plant Kiln at Rajasthan for Co-Processing; in GPS mounted vehicles.

3.4 The authorization shall be in force for a period up to 26/06/2025.

- All other conditions of the previous order No. AWH-109494, issued vide letter No. GPCB/CCA-PN-705/ID: 69109/569239, Dated : 05/10/2020 and order No. H-117888, issued vide letter No. GPCB/CCA-PN -705/ID: 69109/638057, Dated: 07/04/2022; shall remain unchanged.
- You are directed to comply with these conditions judiciously.

For and on behalf of  
GUJARAT POLLUTION CONTROL BOARD



(A.J. Patel)  
Unit Head - Godhra

Outward No:750711,11/08/2023







# Royal

## Environment Auditing & Consultancy Service

Plot No. 19 & 20, B/s. The North Star Nest School, Masoom School Road, Mota Mava, RAJKOT - 360 005.  
Ph.: +91 9099919954 ■ E-mail : royalenvironment@live.com ■ admin@royalconsultancy.com

Ref. No.: 510/12/2024-25

Date: 26/12/2024

### REPORT OF AMBIENT NOISE LEVEL MEASUREMENT

Name of company : JK Cement Limited.

S.no. 1342/3, 1327, 1336, 1334, 1333,

Vill.: Vadadala,

Ta.: Balasinor, Dist.: Mahisagar

Sr. No.	Particulars	Avg. Results in dB(A)	
		Day Time	Night Time
01.	Sampling Time	6:00 AM - 10:00 PM	10:00 PM - 6:00 AM
02.	Date of sampling	19/12/2024	19/12/2024
03.	Prescribed Limits	75	70

#### LOCATIONS

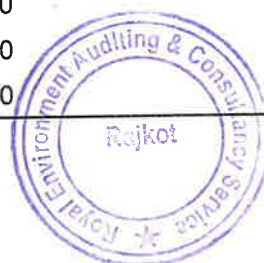
01.	Nr. STP Plant Boundary Towards, Eastern Boundary	71.5	58.3
02.	Nr. Project Office (Plant Boundary), North Direction	69.5	56.7
03.	Nr. Sec. Tower (Plant Boundary), South Direction	68.0	54.8
04.	Nr. Rest Shelter	63.8	58.0

#### CPCB Standards

Area Code	Category of Area / Zone	Limit in dB(A) Leq.	
		Day Time	Night Time
A	Industrial Area	75.0	70.0
B	Commercial Area	65.0	55.0
C	Residential Area	55.0	45.0
D	Silence Zone	50.0	40.0

Instruments used : Sound level meter, Model : SL-4030 (Lutron)

Calibration done on : 17/05/2024



Royal Environment Auditing &amp; Consultancy Service

Analyst



# Royal

## Environment Auditing & Consultancy Service

Plot No. 19 & 20, B/s. The North Star Nest School, Masoom School Road, Mota Mava, RAJKOT - 360 005.  
Ph.: +91 9099919954 ■ E-mail : royalenvironment@live.com ■ admin@royalconsultancy.com

Ref. No. : 511/12/2024-25

Date: 26/12/2024

### WORK ZONE NOISE LEVEL MEASUREMENT

**Name of company : JK Cement Limited.**

S.no. 1342/3, 1327, 1336, 1334, 1333,

Vill.: Vadadala,

Ta.: Balasinor, Dist.: Mahisagar

Date of sampling : 19/12/2024

Sr. No.	Location of Sampling	Results Avg. in dB(A)
Permissible Limit for 8:00 Hrs.		90.0 dB
01.	COMPRESSOR ROOM AREA	72.5
02.	CEMENT MILL AREA	72.4
03.	UNLOADING AREA	69.8
04.	PACKING PLANT AREA	69.8

Instruments used : Sound level meter, Model : SL 4030 (LUTRON)

Calibration Done on : 17/05/2024

Royal Environment Auditing & Consultancy Service



Analyst





# Royal

## Environment Auditing & Consultancy Service

Plot No. 19 & 20, B/s. The North Star Nest School, Masoom School Road, Mota Mava, RAJKOT - 360 005.  
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Ref. No.: 610/03/2024-25

Date: 26/03/2025

### REPORT OF AMBIENT NOISE LEVEL MEASUREMENT

Name of company : JK Cement Limited.

S.no. 1342/3, 1327, 1336, 1334, 1333,

Vill.: Vadadala,

Ta.: Balasinor, Dist.: Mahisagar

Sr. No.	Particulars	Avg. Results in dB(A)	
		Day Time	Night Time
01.	Sampling Time	6:00 AM - 10:00 PM	10:00 PM - 6:00 AM
02.	Date of sampling	21/03/2025	21/03/2025
03.	Prescribed Limits	75	70

#### LOCATIONS

01.	Nr. STP Plant Boundary Towards, Eastern Boundary	72.8	60.8
02.	Nr. Project Office (Plant Boundary), North Direction	70.9	58.7
03.	Nr. Sec. Tower (Plant Boundary), South Direction	69.9	56.4
04.	Nr. Rest Shelter	65.3	59.6

#### CPCB Standards

Area Code	Category of Area / Zone	Limit in dB(A) Leq.	
		Day Time	Night Time
A	Industrial Area	75.0	70.0
B	Commercial Area	65.0	55.0
C	Residential Area	55.0	45.0
D	Silence Zone	50.0	40.0

Instruments used : Sound level meter, Model : SL-4030 (Lutron)

Calibration done on : 17/05/2024

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**પર્યાવરણ સ્વીકૃતિ સંબંધિત જાહેર સૂચના**

પર્યાવરણ, જંગલ અને આબોહવા ફેરફાર મંત્રાલય, (એમ.એ.ઈ.એફ.સી.સી.) ભારત સરકાર, નવી દિલ્હીના પરિપત્ર નં. EIA Notification dated ૧૪.૦૬.૨૦૦૬ ના સંદર્ભમાં મેસર્સ જે. કે. સિમેન્ટ વર્ક્સ (કલિન્કર ગ્રાઈન્ડિંગ યુનિટ) ગામ-વડદલા, તા. બાલાસિનોર, જિ. મહિસાગર (ગુજરાત) શ્રેણી - ૩(બી)ની પ્રસ્તાવિત પરિયોજના માટે પર્યાવરણની મંજૂરી SEIAA, ગુજરાત દ્વારા આપવામાં આવેલ છે. આ જાહેરાત જાહેર જનતાની માહિતી માટે આપવામાં આવેલ છે.

પર્યાવરણની મંજૂરીનો પત્ર ક્રમાંક - SEIAA/GUJ/EC/3(b)/463/2019, તારીખ ૨૫/૦૩/૨૦૧૯ની નકલ ગુજરાત પ્રદૂષણ નિયંત્રણ બોર્ડ, પર્યાવરણ ભવન, ગાંધીનગર (ગુજરાત) અને વેબસાઈટ <https://gpcb.gujarat.gov.in> ઉપર પણ ઉપલબ્ધ છે.

યુનિટ હેડ,  
જે કે સિમેન્ટ વર્ક્સ, ગામ-વડદલા,  
તાલુકો-બાલાસિનોર, જિલ્લો-મહિસાગર (ગુજરાત)

**Public Notice for Environment Clearance**

M/s. J.K. Cement Works (Proposed Clinker Grinding Unit), Village-Vadadala, Taluka - Balasinor, District - Mahisagar (Gujarat) obtained Environment Clearance from SEIAA, Gujarat as per EIA Notification dated 14.09.2006 of MoEF&CC, GOI. The copy of Environment Clearance Letter No. SEIAA/GUJ/EC/3(b)/463/2019 dated 25.03.2019 is available on Gujarat Pollution Control Board, Paryavaran Bhawan, Gandhinagar (Gujarat) and Website <https://gpcb.gujarat.gov.in>.

Unit Head, J.K. Cement Works,  
Village Vadadala, Taluka Balasinor,  
District Mahisagar  
(Gujarat)



## Posters displayed in Plant



CCR Office area



BRU RO shed



CCR Cafeteria



Canteen



Out Gate



Logistic Office



Material Gate



CCR Notice Board





## Banner Display

