

BL/EMD/MoEF/F 01/009

Date: 18/11/2023

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

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:
April 2023 to September 2023.

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: **April 2023 to September 2023** 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 for 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

(Gopal Gupta)
Grinding - Unit Head



Encl.: As above

- Cc to: 1. The Member Secretary, GPCB, Paryawaran Bhawan, Sector- 10 A, Gandhi Nagar (Gujarat). E-mail: ms-gpcb@gujarat.gov.in
2. The Regional Officer, GPCB, 20, Haidri Society, Near DSP Office, Gita Nagar, GODHRA (Gujarat) 389 001, E-mail: ro-gpcb-godh@gujarat.gov.in
3. The Regional Directorate, CPCB, Parivesh Bhawan, Opp. Ward No. 10, VMC Office, Subhanpura, VADODARA-390023. E-mail: prasoon_gargava@yahoo.com & westzonecpcb@yahoo.com
4. The Chief Conservator of Forests (C), Ministry of Environment Forest and Climate Change, Regional Office (WZ), Kendriya Paryavaran Bhawan, E-5, Arera Colony, Link Road-3, Ravi Shankar Nagar, BHOPAL-462016, E-mail: rowz.bpl-mef@nic.in

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Balasinor (Gujarat) | Fujairah

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Six Monthly Compliance Report of Environment Clearances of J.K. Cement Works, Stand Alone Grinding Unit at S. No.: 1342/3, 1327, 1336, 1328, 1333 & 1334, Village: Vadadala, Taluka: Balasinor, District: Mahisagar (Gujarat)	From: Apr., 2023 To: Sep, 2023
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Name & Location of Project	:	M/s. J.K. Cement Works, Cement Grinding Unit at S. No.: 1342/3, 1327, 1336, 1328, 1333 & 1334, Village: Vadadala, Taluka: Balasinor, Dist.: Mahisagar (Gujarat)
Clearance Letter No. & Date	:	SEIAA/GUJ/EC/3(b)/463/2019, Dated: 25th March, 2019
Detail Of Project As Per EC Letter	:	Stand Alone Grinding Unit of Capacity 94500 MT/Month (1.0 Million TPA)
Period of Compliance Report	:	April 2023 to September 2023

S. No.	Conditions	Compliance Status
A	CONDITIONS:	
A-1	SPECIFIC CONDITION:	
1.	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 & CC&A.	Not Applicable. It's a Clinker Grinding & Packing Unit & No use of Limestone.
2.	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.	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.
3.	Complete Zero Liquid Discharge (ZLD) status shall be maintained all the time and there shall be no drainage connection from the premises.	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. The treated waste water is used in green belt development.
4.	Unit shall comply provisions of MoEFCC's O.M. No. 22-65/2017-IA.III dated 01/05/2018 regarding Corporate Environment Responsibility (CER). Fund allocation for Corporate Environment Responsibility (CER) shall be made as per the said OM dated 01/05/2018 for various activities therein. Item-wise details along with time bound action plan shall be prepared and submitted to the concern authorities.	Detailed CER Plan along with budgetary allocation has submitted to the SEIAA, Gujarat along with Final EIA report. However, Rs. 18.82 Lakh expended in various CER/CSR activities during FY: 2023-24. (April-2023 to September-2023) Detail of same is given in <u>Annexure -1.</u>

Detail Expenditure Incurred Towards CER/CSR for the FY: 2023-24

Sr. No.	Date	Particulars	Distributed to	Price Value
1	14-04-2023	Tree Guard	Balasinor Police Station	68,080
2	14-04-2023	School uniform	Badharpura Primery School (Vadadla Gram Panchayat)	20,790
3	22-04-2023	Renovation	Govt. School Wanghroli	8,18,567



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	4	31-05-2023	Computer Desktop	Lotus high School- Thermal	14,514
	5	23-06-2023	STREET LIGHT LSRI MINI 20W LED	Kalupur Primary School	8,437
	6	23-06-2023	CEMENT BENCHES	Kalupur Primary School	15,340
	7	26-06-2023	CEMENT BENCHES	Kantharji Primary School	15,340
	8	06-07-2023	CEMENT BENCHES	Kalupur Primary School Harijan Colony Branch No.04	12,272
	9	02-08-2023	CEMENT BENCHES	Jetholi Gram Panchayat	15,340
	10	02-08-2023	STREET LIGHT LSRI MINI 20W LED	Jetholi Gram Panchayat	12,656
	11	02-08-2023	STREET LIGHT LSRI MINI 20W LED	Jorapura Gram Panchayat	21,093
	12	22-08-2023	GYM CENTER DEVELOPMENT	Balasinor	6,36,662
	13	05-09-2023	CEMENT BENCHES	Wanghroli	24,544
	14	05-09-2023	OTHWAL VILLAGE -TOILET CONSTRUCTION	Othwad	1,69,135
	15	29-09-2023	MEDICAL CAMP ORG UNDER-CER	Handiya	30,000
			FY23-24	Total	1882769
5.	Unit shall comply all the applicable standard conditions prescribed in Office Memorandum (OM) published by MoEF&CC vide no.: F. No. 22-34/2018-IA.III dated 09/08/2018 for Stand-alone Cement grinding units without Captive Power Plant as mentioned at Sr. no. xii			Compliance of the standard EC condition has been submitted with letter No.: BL/EMD/MoEF/F 01/004, dated: 26.05.2021.	
6.	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R. No. 612 (E) dated 25 th August, 2014 (Cement) and subsequent amendment dated 9 th 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			Continuous Emission Monitoring System (CEMS)/Opacity Meter at Cement Mill Stack has been installed and connected to CPCB & GPCB servers. Calibration certificate enclosed as Annexure-2 .	



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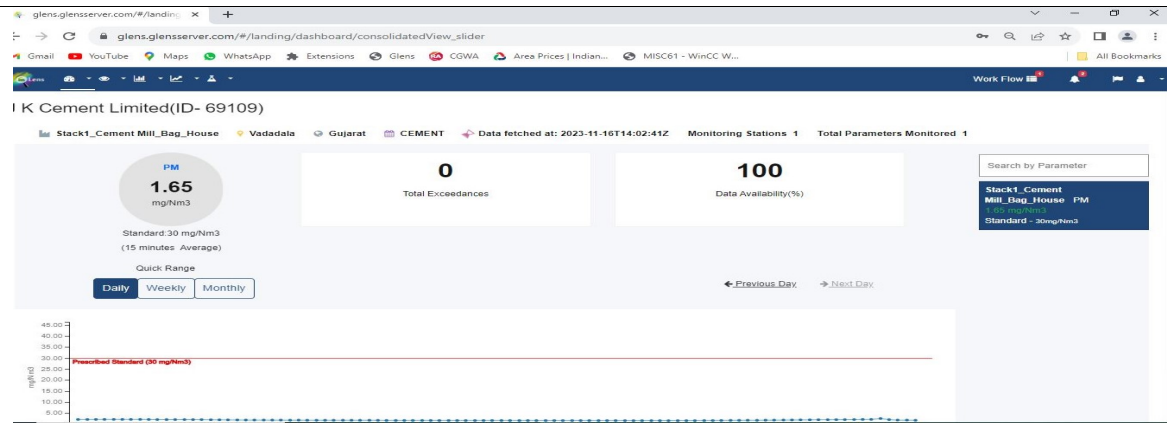
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**From: Apr., 2023
To: Sep, 2023**



7. The project proponent must strictly adhere to the stipulations made by the Gujarat Pollution Control Board, State Government and/or any other statutory authority. **Agreed.**
8. 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. **Ambient air quality for the PM10, PM2.5, SO2 and NOx are being maintained under prescribed limit. Detail AAQM Report is enclosed as Annexure-3**

Monthly Average Results of AAQ Monitoring for the period: April, 2023 to Sep, 2023:

STATION-1: NEAR STP PLANT BOUNDARY TOWARDS EAST DIRECTION					
Month	UoM	PM ₁₀	PM _{2.5}	SO ₂	NO _x
Apr-23	µg/m ³	20.45	22.84	11.60	20.34
May-23	µg/m ³	38.72	24.68	10.86	15.21
Jun-23	µg/m ³	38.95	24.05	12.21	21.15
July-23	µg/m ³	37.46	27.92	12.26	21.55
Aug-23	µg/m ³	42.36	39.37	10.41	16.99
Sep-23	µg/m ³	41.88	35.65	10.21	16.69

STATION-2: EAR PROJECT OFFICE PLANT BOUNDARY TOWARDS NORTH DIRECTION					
Month	UoM	PM ₁₀	PM _{2.5}	SO ₂	NO _x
Apr-23	µg/m ³	17.26	24.48	11.71	22.17
May-23	µg/m ³	37.52	23.05	13.30	21.45
Jun-23	µg/m ³	35.44	25.62	11.96	22.11
July-23	µg/m ³	40.31	26.84	11.31	16.35
Aug-23	µg/m ³	42.36	39.37	10.41	16.99
Sep-23	µg/m ³	35.00	26.82	10.09	16.42



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		STATION-3: NEAR SECURITY TOWER PLANT BOUNDARY TOWARDS SOUTH DIRECTION					
		Month	UoM	PM ₁₀	PM _{2.5}	SO ₂	NO _x
		Apr-23	µg/m ³	21.51	24.03	10.08	16.40
		May-23	µg/m ³	34.32	29.11	14.76	20.81
		Jun-23	µg/m ³	38.73	24.67	10.04	21.06
		July-23	µg/m ³	42.95	26.06	11.31	16.35
		Aug-23	µg/m ³	41.88	35.65	10.21	16.69
		Sep-23	µg/m ³	39.90	30.85	11.34	15.20

9.	The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (In case of the presence of schedule-I species in the study area).	Not Applicable, as there is no any Schedule-I species presence / found in the study area.
10.	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act, 1986.	Fugitive emission monitoring is being carried out on quarterly basis through the MoEF & CC recognize laboratory. Detail fugitive emission monitoring report is enclosed as Annexure -4.
11.	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/ Regional Office along with the Six Monthly Compliance Report.	EMP proposed in EIA report has been implemented. Detail of EMP implemented are as follows: - <div><div>1. Bag House/Bag filters provided at all transfer points/dust generating sources.</div><div>2. Transportation of raw material and finished product is being carried out in closed bulker and covered trucks.</div><div>3. Storm water drainage constructed and to optimum utilization of overflow water and rain water harvesting structures constructed within the plant premises.</div><div>4. Regular monitoring of sewage treatment plant is being done and logbook is maintained. Treated domestic waste water is being utilized in plantation.</div><div>5. 100% Dust collected in various APCE's are being recycled in cement manufacturing process.</div><div>6. Ear-muffs are provided to all workers, who are engaged in high noise area. Tested and certified equipment's being used for construction activities.</div><div>7. Low noise equipment along with acoustic enclosure procured and regular noise level monitoring is being carried out.</div><div>8. Periodical maintenance of machines are being carried out.</div><div>9. CSR activities are in process.</div></div>



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		Detail expenditure incurred towards implementation of EMP for the FY: 2023-24 is given below:-			
		S. No.	Particulars	Capital Cost (in Lakh)	Recurring Cost for the FY: 2023-24 (In Lakh)
		1	Air	615.49	0.68
		2	Water	240	0.59
		3	Noise	7.3	0.59
		4	Ecological and Biodiversity (Plantation)	9	0.96
		Total Expenditures (In Lakh)		872	2.82
12.	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R. No. 612 (E) dated 25 th August, 2014 (Cement) and subsequent amendment dated 9 th 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			Please refer the compliance status of above condition No.: 6.	
13.	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act, 1986			Please refer the compliance status of above condition No.: 10.	
14.	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.			<p>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 APCD's has been submitted vide letter No.: BL/EMD/MoEF/F 01/004, dated 26.05.2021.</p> <p>Photographs of the Cement Mill Bag House and Main Bag Filter installed at material transfer points as enclosed below.</p> 	



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15.	Ensure covered transportation and conveying of raw material to prevent spillage and dust generation; Use closed bulkers for carrying fly ash	<p>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 below.</p> 
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16.	Transportation of coal, to the extent permitted by road, shall be carried out by covered trucks/ conveyors. Effective control measures such as regular water/mist sprinkling/rain gun etc. shall be carried out in critical areas prone to air pollution (with higher values of PM ₁₀ / PM _{2.5}) such as haul road, loading/unloading and transfer points. Fugitive dust emissions from all sources shall be controlled regularly. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central/State Pollution Control Board.	<p>Raw materials and finished products are being transported through covered conveyors and trucks. Water spray system and road sweeping machines had been deployed at loading and unloading area to control fugitive dust emission. Ambient air quality monitoring results are found well within the prescribed limits. For, detail AAQM results, please refer the <u>Annexure-3.</u></p>
17.	Pollution control system in the cement plant shall be provided as per the CREP Guidelines of CPCB.	<p>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</p>
18.	All the issues raised in the public hearing shall be comprehensively addressed / complied with in a time bound manner.	<p>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 CER/CSR details, please refer <u>Annexure-1</u></p>

Compliance Status of Action Plan submitted against the issues raised during Public Hearing held on 20.12.2018 for proposed Stand Alone Grinding Unit till September, 2023: -

S. No.	Name & Address	Issues Raised	Reply By The Proponent	Compliance Status
1.	Shree Kirtibhai Parmar, Village : Kunjara, Ta : Balasinor,	He represented stating that advertisement of the said public hearing has not been carried out sufficiently. As most of the local people	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	<ul style="list-style-type: none"> Complied



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	Dist. : Mahisagar	of this region are illiterate, they are not able to attend this hearing.	published in two local Gujarati newspapers and one English newspaper one month prior to the hearing.	
2.	Shri Kiritsinh Jhala, Village: Kunjara, Ta: Balasinor, Dist.: Mahisagar	<ul style="list-style-type: none"> He represented who is responsible for distribution of executive summary which you have given in 27 Gram Panchayat? State whether GPCB or the Company. How will a company utilize its CSR, in how many times and from when will it utilize the same and what are its criteria? I am participating in CSR activity of many companies and companies 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? If any project has obtained EC then within how many time appeal is to be filled in the National Green Tribunal? How much far away should be human habitant from this company? 	<ul style="list-style-type: none"> Regional Officer, GPCB replied that copies of executive summary have been given to all the Panchayat as per the procedure. The company's representative showed the power point presentation of the CSR details for 5 years which was shown earlier and provided its detail. The company will utilize 1.5%, that is 309 lakh rupees of total cost of the project that is 20579 lakh rupees as CER. The company will use 2% of the average profit of 3 years' profit of the company for CSR. It is wrong that the company doesn't utilize its CSR fund because we have to send report of CSR and CER spent during 6 months at end of every 6 month to the ministry. And audits of the same are carried out at regular intervals. 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 website also. Regional officer stated that, this issue may be represented separately in other forum and the reply of the same will be provided to you. This proposed unit is 2 km away from the human habitants of the Vadadala Village. 	<ul style="list-style-type: none"> Complied Complied CSR activities are being carried out as per action plan for details please refer Annexure-1.
3.	Shri Anil singh Vanraj singh Thakor, Representative of Sarpanch, Village : Vadadala, Ta : Balasinor, Dist. : Mahisagar	<ul style="list-style-type: none"> He represented that we have received the notice 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. We are against the permission given by GPCB to Moriya Enviro and 	<ul style="list-style-type: none"> Company representative welcomed his suggestion about their project. 	<ul style="list-style-type: none"> Not Required



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			we are not against J.K. Cement Company.		
4	Shri Pankaj Kumar Patel Village : Jamyetspura Ta : Balasinor, Dist. : Mahisagar	<ul style="list-style-type: none">• 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.• We are not against this company. We are against Morya Enviro company.• How many kilometers of distance from heritage site can be allowed to set up a plant?• What is the distance between the said company and Dinosaur Fossil Park?• Whether the minutes of this public hearing will be forwarded to the upper level panel for EC?• We have some issues regarding M/s. Maurya Enviro Company. So it is request to be noted.• 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.• Whether the Gram Committee has authority to enter within the company for inspection? It is my	<ul style="list-style-type: none">• 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.• 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.• 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.• 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.• 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.• Chairman stated that, there is no such provision in the law.• 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.	<ul style="list-style-type: none">• Complied• Not Required• Complied• Complied• Not Required	



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Six Monthly Compliance Report of Environment Clearances of J.K. Cement Works, Stand Alone Grinding Unit at S. No.: 1342/3, 1327, 1336, 1328, 1333 & 1334, Village: Vadadala, Taluka: Balasinor, District: Mahisagar (Gujarat)

**From: Apr., 2023
To: Sep, 2023**

		request that proper decision regarding the same to be taken.		
		<ul style="list-style-type: none"> 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. 		
5	Shri Vasantbhai Badoli Gram Panchayat, Representative of Sarpanchshri Village : Balasinor, Dist. : Mahisagar	<ul style="list-style-type: none"> He represented that he welcomes the company. Locals will get employment by the upcoming company. What should be the distance of Morya Enviro company from the heritage site? 	<ul style="list-style-type: none"> Company representatives welcomed his suggestion. Chairperson stated that decision for the same will be taken by the committee. 	<ul style="list-style-type: none"> Not Required Not Required
6	Shri Subhashbhai Patel, Village : Balasinor, Dist. : Mahisagar	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.	Company representative welcomed his suggestion.	<ul style="list-style-type: none"> Not Required
7	Shri Dipenbhai Patel, Village : Vadadala, Ta : Balasinor, Dist. : Mahisagar	<ul style="list-style-type: none"> 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? Whether this company will generate huge pollution? 	<ul style="list-style-type: none"> 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. 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. 	<ul style="list-style-type: none"> Total 439 nos of employment is given to local people's till date. 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



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					<p>Bag filters at various transfer points to control stack and fugitive emissions.</p> <ul style="list-style-type: none">• Low noise equipment are procured in plant premises.• 100% solid waste is being recycled in process.• Generated 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">• 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.• We are against Morya Enviro Company.	Company representative welcomed his representation.	<ul style="list-style-type: none">• Environment management plan is implemented so emissions are under prescribed norms.• Not Required.	
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.	<ul style="list-style-type: none">• Not Required.	
10	Shri Balubhai Sodhar,	He represented that GPCB has granted permission to the company located at	Company representative welcomed his representation about their project.	<ul style="list-style-type: none">• Not Required.	



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		Sarpanchshri Mal Itadi Gram Panchayat	Jamiyapura 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.		
11	Shri Adam M. Shaikh Village : Balasinor, Dist. : Mahisagar	Represented that he is happy that J.K. Cement Company is going to be established here.	Company representative welcomed his representation.	• Not Required.	
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 439 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"> 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. We all are against M/s Morya Enviro Co. located at Jamiyatur and comprehensive probe should be carried out for the same and the same should be resolved. 	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.	• Total 439 nos of employment is given to local people's till date.	



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				• Not Required.
14	Shri Ankit Patel, Managing Trustee, Sahajanand School, Village : Vadadala, Ta : Balasinor, Dist. : Mahisagar	<ul style="list-style-type: none">• He represented that this company is going to be established near our school. When we come to know about the establishment of this 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.• 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.	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.
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 439 nos of employment is given to local people's till date.
16	Shri V.D. Parmar, Village : Vadadala, Ta : Balasinor,	<ul style="list-style-type: none">• He represented to consider the opposition against M/s Morya Enviro Company.• Every coin has two sides. The said company will provide employment	Company representative replied the presenter showing the photographs of Hariyana plant that that plant is of 2 million ton and the upcoming plant is of 1 million ton. However, there is no pollution in Hariyana Plant. The upcoming plant	• Total 439 nos of employment is given to local people's till date.



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	Dist. : Mahisag	which is welcome. But this kind of company emits dust which causes diseases like silicosis. We request the company to avoid adverse effect on human or animal.	is of modern technology which will be supplied by F.S.L. company 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.	<ul style="list-style-type: none"> 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.
A-2	WATER: -			
19.	Total water requirement for the project shall not exceed 95 KLD. Unit shall reuse 7 KLD of treated sewage for gardening & plantation within premises and hence, fresh water requirements shall not exceed 88 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.		Water NOC from CGWA has been obtained vide NOC No.: CGWA/NOC/IND/REN/1/2021/6102, which is valid till 27/05/2024. Copy of the NOC Letter is attached as Annexure-5 .	
20.	There shall be no industrial waste water generation & no discharge from the proposed activity.		Our plant is based on dry process technology. Hence, there is no any wastewater generated from cement manufacturing process.	
21.	Domestic wastewater generation shall be 7 KLD and it shall be treated through adequate capacity STP and treated sewage shall be reused for gardening/plantation within premises		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-6	
22.	During monsoon season when treated sewage effluent may not be required for the plantation / Gardening / Green belt purpose, it shall be stored within premises. There shall be no discharge of waste water outside the premises in any case.		Unit has reused the treated sewage effluent in cement mill for cooling /spray purpose. There is no discharge of waste water outside the premises.	
23.	Unit shall provide buffer water storage tank of adequate capacity for storage of treated waste water during rainy days.		Unit has provide buffer water storage tank of 10 KL capacity in STP for storage of treated wastewater during rainy days.	
24.	The company shall harvest rainwater from the rooftop of the building to recharge the ground water and to use the same water for the various activities of the project to conserve fresh water. Before recharging the surface run off, pre-treatment must be done to remove suspended matter		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 below.	



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A-3 AIR: -

25.	Unit shall not exceed fuel consumption for HAG and DG Set as mentioned below:	Unit maintaining the fuel consumption for HAG and DG Set as well as emission within the prescribed limits.																																								
	<table><tr><th>S. No.</th><th>Source of emission with capacity</th><th>Stack Height (meter)</th><th>Type of Fuel</th><th>Quantity of Fuel MT/Day</th><th>Type of emissions i.e. Air Pollutants</th><th>Air Pollution Control Measures (APCM)</th></tr><tr><td>1</td><td>DG Set 500 KVA</td><td>As per norms</td><td>Diesel</td><td>240 Liters/ Day</td><td>PM, SO2, NOx, CO</td><td>Noiseless</td></tr><tr><td>2</td><td>HAG (Hot Air Generator)</td><td>No Stack</td><td>Coal</td><td>150 TPD</td><td colspan="2">All Hot Air Goes to close circuit Cement Mill and exit from Bag house through Fan of mill circuit</td></tr><tr><td>3</td><td>HAG (Hot Air Generator)</td><td>No Stack</td><td>Oil/ Diesel</td><td>5 KLD</td><td colspan="2">All Hot Air Goes to close circuit Cement Mill and exit from Bag house through Fan of mill circuit</td></tr></table>	S. No.	Source of emission with capacity	Stack Height (meter)	Type of Fuel	Quantity of Fuel MT/Day	Type of emissions i.e. Air Pollutants	Air Pollution Control Measures (APCM)	1	DG Set 500 KVA	As per norms	Diesel	240 Liters/ Day	PM, SO2, NOx, CO	Noiseless	2	HAG (Hot Air Generator)	No Stack	Coal	150 TPD	All Hot Air Goes to close circuit Cement Mill and exit from Bag house through Fan of mill circuit		3	HAG (Hot Air Generator)	No Stack	Oil/ Diesel	5 KLD	All Hot Air Goes to close circuit Cement Mill and exit from Bag house through Fan of mill circuit														
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26.	Unit shall provide adequate APCM with flue gas generation sources as mentioned above:	Hot Air goes to close circuit of Cement Mill and exit from Bag house through Fan of Cement mill circuit.																																								
27.	Unit shall provide adequate APCM with process gas generation sources as mentioned below:	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.																																								
	<table><tr><th>Sr. No.</th><th>Specific Source of emission (Name of the Product & Process)</th><th>Type of emission</th><th>Stack/Vent Height (meter)</th><th>Air Pollution Control Measures (APCM)</th></tr><tr><td>1</td><td>Cement Mill (Cement)</td><td>PM</td><td>39</td><td>Bag House</td></tr><tr><td>2</td><td>Clinker Hopper</td><td>PM</td><td>30</td><td>De-dusting Bag Filter</td></tr><tr><td>3</td><td>Coal Crusher</td><td>PM</td><td>30</td><td>De-dusting Bag Filter</td></tr><tr><td>4</td><td>Fly Ash Silo</td><td>PM</td><td>36</td><td>De-dusting Bag Filter</td></tr><tr><td>5</td><td>Clinker Silo</td><td>PM</td><td>32</td><td>De-dusting Bag Filter</td></tr><tr><td>6</td><td>Packing Unit No.1</td><td>PM</td><td>36</td><td>Bag Filter</td></tr><tr><td>7</td><td>Packing Unit No.2</td><td>PM</td><td>36</td><td>Bag Filter</td></tr></table>	Sr. No.	Specific Source of emission (Name of the Product & Process)	Type of emission	Stack/Vent Height (meter)	Air Pollution Control Measures (APCM)	1	Cement Mill (Cement)	PM	39	Bag House	2	Clinker Hopper	PM	30	De-dusting Bag Filter	3	Coal Crusher	PM	30	De-dusting Bag Filter	4	Fly Ash Silo	PM	36	De-dusting Bag Filter	5	Clinker Silo	PM	32	De-dusting Bag Filter	6	Packing Unit No.1	PM	36	Bag Filter	7	Packing Unit No.2	PM	36	Bag Filter	
Sr. No.	Specific Source of emission (Name of the Product & Process)	Type of emission	Stack/Vent Height (meter)	Air Pollution Control Measures (APCM)																																						
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4	Fly Ash Silo	PM	36	De-dusting Bag Filter																																						
5	Clinker Silo	PM	32	De-dusting Bag Filter																																						
6	Packing Unit No.1	PM	36	Bag Filter																																						
7	Packing Unit No.2	PM	36	Bag Filter																																						
28.	The above-mentioned measures are indicative and the unit may explore the possibilities of other latest devices also to achieve the better results & better compliance of the air pollution control norms prescribed by the Gujarat Pollution Control Board (GPCB).	Unit has provided 01 no. of Bag House and 18 nos. of Bag Filters to achieve the better results & better compliance of the air pollution control norms prescribed.																																								



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29.	The Reverse Pulse Jet Bag Filters shall be provided with proper metallic casing, adequate stack height and stack monitoring requirement facility	Unit has provide the monitoring facility and Bag House with adequate stack height at Cement Mill.
30.	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.	APCE's has been fabricated, erected and commissioned under guidance and supervision & details has been submitted vide letter No.: BL/ EMD/MoEF/F 01/004, dated 26.05.2021.
31.	The APCM shall be operated efficiently and effectively to achieve the norms prescribed by the GPCB at stack outlet	Efficiency of the bag house is 99.99% 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 <u>Annexure -7.</u>
32.	Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution and shall conform to the EPA Rules for air and noise emission standards.	Unit has provide the acoustic enclosure to the DG sets to mitigate the noise pollution and confirmed to the air and noise emission standards.
33.	Stack/Vents of adequate height shall be provided as per the prevailing norms for flue gas emission/Process gas emission	Please refer the compliance status of above condition No.: 27.
34.	Interlocking facility of the pollution control equipment and the equipment(s) to which it is attached should be provided in such a manner that in the event of pollution control equipment(s) not working, the respective unit(s) is shut down automatically	Noted & complying with.
35.	Regular periodic preventive maintenance of the air pollution control systems shall be carried out during the operation phase.	Noted & complying with.
36.	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.	Noted & complying with.
37.	The fugitive emission in the work zone environment and ambient air quality shall be monitored. The emission shall confirm 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.	Monitoring results for fugitive and ambient air quality are enclosed as annexure 3 & 4 respectively.
a.	Enclosure shall be provided at all loading and unloading operations.	Clinker unload on BRU, DFA unload in concrete silo, Gypsum unload & stored in additive shade.



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b.	Water shall be sprayed on all raw materials stockpile periodically to retain some moisture in top layer except wet gypsum to reduce the fugitive emission.	Raw materials are stored in covered shade details has been submitted vide letter No.: BL/EMD/ MoEF/F 01/004, dated: 26.05.2021. 
c.	All transfer points shall be fully enclosed.	All transfer points are covered. 
d.	Accumulated dust on the ground and other surfaces shall be removed / swept regularly and water the area after sweeping.	Noted & Complied on regular basis
e.	Internal roads shall be either asphalted or paved properly to reduce the fugitive emission during vehicular movement	Internal road cleaning done by sweeping machine on regular basis to reduce the fugitive emission. 



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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	Complying with dust collection and extraction system has been provided to control fugitive dust emissions at various material handling areas. Details has been submitted vide letter No.: BL/EMD/MoEF/F 01/ 004, dated: 26.05.2021.
		
38.	Regular monitoring of ground level concentration of PM10, PM2.5, SO2 & NOx shall be carried out in the impact zone and its records shall be maintained. Ambient air quality levels shall not exceed the standards stipulated by the GPCB. If at any stage these levels are found to exceed the prescribed limits, necessary additional control measures shall be taken immediately. The location of the stations and frequency of monitoring shall be decided in consultation with the GPCB.	<p>Noted and Complying with.</p> <ul style="list-style-type: none"> • 3 Nos. of ambient air quality monitoring station have been installed and regular monitoring are being carried out. • The location of the stations and frequency of monitoring has been decided in consultation with the GPCB. • For results of ambient air quality, please refer <u>Annexure-3</u>.
A-4	SOLID / HAZARDOUS WASTE:	
39.	The company shall strictly comply with the rules and regulations with regards to handling and disposal of Hazardous waste in accordance with the Hazardous and Other Waste (Management and Transboundary Movement) Rules 2016, as may be amended from time to time. Authorization from the GPCB must be obtained for collection/treatment/storage/disposal of hazardous wastes.	Hazardous Waste Authorization from the GPCB has been obtained vide consent order no. AWH-109494, Date of issue: 11/08/2023, Consent order no. AH-115081 Date-23/08/2021, And Consent order no. H-117888 Date-30/03/2022. and Copy enclosed as <u>Annexure-8</u>
40.	Used oil shall be sold only to the registered recycler.	Used oil is being sent to CPCB/GPCB Authorized re-cycler.
41.	The cement dust collected from the different Air Pollution Control Equipment and other collection systems shall be reutilized in the plant itself.	100% Dust collected in various APCE is being recycled in system.
A-5	SAFETY:	
42.	Proper ventilation shall be provided in the work area.	Noted & Complied with Proper ventilation in the working area has been provided.
43.	Personal Protective Equipment shall be provided to workers and its usage shall be ensured and supervised.	Agreed & Complied with Personal Protective Equipment (PPE's) have been provided to workers.
44.	First Aid Box shall be made readily available in adequate quantity in the unit.	First Aid Box has been provided in various sections in plant.
45.	Regular periodic work zone ambient air monitoring shall be carried out for measuring concentrations of cement dust,	Please refer the compliance status of above condition No.: 37.



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	silica dust etc. through qualified industrial hygienist and its records shall be maintained.	
46.	Occupational health surveillance of the workers shall be done and its records shall be maintained. Pre-employment and periodical medical examination for all the workers shall be undertaken on regular basis as per Factories Act & Rules.	Noted & Complying with Occupational health surveillance of the workers has been done & Its records are maintained. Pre-employment and periodical medical examination for all the workers is being undertaken on regular basis as per Factories Act & Rules. Reports are enclosed as Annexure-9 .
47.	All necessary safety measures shall be taken to avoid any kind of accident.	Noted & Complying with All necessary safety measures have been taken to avoid any kind of accident.
48.	Training shall be imparted to all the workers on safety and health aspects.	Noted & Complying with Training & Tool Box Talk (TBT) is being done regularly.
A-6	NOISE:	
49.	The overall noise level in and around the plant area shall be kept well within the prescribed standards by providing noise control measures including acoustic insulation, hoods, silencers, enclosures vibration dampers etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act and Rules. Workplace noise levels for workers shall be as per the Factories Act and Rules.	Noted & Complying with Noise level in and around the plant area are within the norms and reports are enclosed as Annexure-10 .
A-7	CLEANER PRODUCTION AND WASTE MINIMISATION:	
50.	The unit shall undertake the Cleaner Production Assessment study through a reputed institute / organization and shall form a CP team in the company. The recommendations thereof along with the compliance shall be furnished to the GPCB.	There is no waste generation from the plant. However, used oil and grease generated hazardous waste which is being send to Authorized recycler.
51.	Efforts shall be made to use more fly ash in cement manufacturing without compromising the quality of the cement.	Fly ash is being used as per BIS guideline.
A-8	GREEN BELT AND OTHER PLANTATION:	
52.	Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant.	Unit has developed 33% greenbelt. Total 10821 Nos. trees planted by covering 2.66 ha. area out of 8.0 ha. Plant area.
53.	The unit shall develop green belt within the factory premises as per the CPCB guidelines, consisting of at least three rows of trees of local species on periphery. However, if the adequate land is not available within the premises, the unit shall take up adequate plantation at suitable open land on road sides and other open areas in nearby locality or schools in consultation with the Gram Panchayat / GPCB and submit an action plan of plantation for next three years to the GPCB.	Unit has developed the plantation along the periphery of plant premises. Photographs are enclosed below.



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B.	OTHER CONDITIONS:		
54.	Unit shall comply all the applicable standard conditions prescribed in Office Memorandum (OM) published by MoEF&CC vide no. F.No. 22-34/2018-IA.III dated 09/08/2018.	Please refer the compliance status of above condition No.: 5.	
55.	In case of use of spray dryer, the unit shall provide the adequate & efficient APCMs with spray dryer so that there should not be any adverse impact on human health & environment. Unit shall carry out third party monitoring of the proposed Spray dryer & it's APCM through the credible institutes and study report for impacts on Environment and Human Health shall be submitted to GPCB every year along with half yearly compliance report.	Not applicable, as spray dryer will not be used in plant premises.	
56.	The project proponent shall allocate the separate fund for Corporate Environment Responsibility (CER) in accordance to the MoEFCC's Office Memorandum No. F.No.22-65/2017-IA.III dated 01/05/2018 to carry out the activities under CER in affected area around the project. The entire activities proposed under CER shall be monitored and the monitoring report shall be submitted to the regional office of MoEFCC as a part of half-yearly compliance report and to district collector. The monitoring report shall be posted on the website of the project proponent.	Please refer the compliance status of above condition No.: 4.	
57.	In the event of failure of any pollution control system adopted by the unit, the unit shall be safely closed down and shall not be restarted until the desired efficiency of the control equipment has been achieved.	Noted & complied with	
58.	All the recommendations of the Corporate Responsibility of Environment Protection (CREP) shall be strictly followed.	Please refer the compliance status of above condition No.: 17.	
59.	All the recommendations made in the EIA / EMP report of the project submitted by the project proponent shall be implemented effectively.	Unit has implemented all the recommendations made in the EIA / EMP report.	
60.	The project proponent shall also comply with any additional condition that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose of the environmental protection and management.	Agreed, no any additional condition imposed by SEAC or SEIAA.	



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Six Monthly Compliance Report of Environment Clearances of J.K. Cement Works, Stand Alone Grinding Unit at S. No.: 1342/3, 1327, 1336, 1328, 1333 & 1334, Village: Vadadala, Taluka: Balasinor, District: Mahisagar (Gujarat)

**From: Apr., 2023
To: Sep, 2023**

61.	No further expansion or modifications in the plant likely to cause environmental impacts shall be carried out without obtaining prior Environment Clearance from the concerned authority.	No further expansion or modifications in the plant likely to cause environmental impacts
62.	The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Hazardous Wastes (Management, and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules.	Noted & complied with
63.	The granting of Environment Clearance to the project by the SEIAA does not restrain or dilute any legal action to be initiated against the project proponent by any authority including the GPCB, for commencing the construction work and production without obtaining prior Environment Clearance.	Noted & complied with
64.	The project proponent shall comply all the conditions mentioned in "The Companies (Corporate Social Responsibility Policy) Rules, 2014" and its amendments from time to time in a letter and spirit.	Noted & complied with
65.	The project management shall ensure that unit complies with all the environment protection measures, risk mitigation measures and safeguards recommended in the EMP report and Risk Assessment study report as well as proposed by project proponent.	Noted & complied with
66.	The project authorities shall earmark adequate funds to implement the conditions stipulated by SEIAA as well as GPCB along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.	Noted & complied with



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67.	The applicant shall inform the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with the GPCB and may also be seen at the Website of SEIAA and that 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.	Noted & Complied Advertised in two local newspaper on dated 28.03.2019 in The Indian Express & Godhara, Dahod Bhaskar newspaper. Advertisement Copy has been submitted vide letter No.: BL/EMD/MoEFCC/2018-19/F005, dated 28.03.2019.
		<p>પર્યાવરણ સ્વીકૃતિ સંબંધિત જાહેર સૂચના</p> <p>પર્યાવરણ, જંગલ અને આબોહવા ફેરફાર મંત્રાલય, (એમ.ઓ.ઇ.એફ.સી.સી.) ભારત સરકાર, નવી દિલ્હીના પત્રિકા નં. EIA Notification dated ૧૪.૦૯.૨૦૦૬ ના સંદર્ભમાં મેસર્સ જે. કે. સિમેન્ટ વર્ક્સ (કલિન્કર ગ્રાઇન્ડિંગ યુનિટ) ગામ-વડદલા, તા. બાલાસિનોર, જિ. મહિસાગર (ગુજરાત) શ્રેણી - ૩(બી)ની પ્રસ્તાવિત પરિચોજના માટે પર્યાવરણની મંજૂરી SEIAA, ગુજરાત દ્વારા આપવામાં આવેલ છે. આ જાહેરાત જાહેર જનતાની માહિતી માટે આપવામાં આવેલ છે.</p> <p>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 વેબસાઇટ https://gpcb.gujarat.gov.in ઉપર પણ ઉપલબ્ધ છે.</p> <p>યુનિટ હેડ, જે કે સિમેન્ટ વર્ક્સ, ગામ-વડદલા, તાલુકો-બાલાસિનોર, જિલ્લો-મહિસાગર (ગુજરાત)</p>
		<p>Public Notice for Environment Clearance</p> <p>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.</p> <p>Unit Head, J.K. Cement Works, Village Vadadala, Taluka Balasinor, District Mahisagar (Gujarat)</p>
68.	The project proponent shall also comply with any additional condition that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose of the environmental protection and management.	Not Applicable No additional condition imposed by SEAC or SEIAA.
69.	It shall be mandatory for the project management to submit half- yearly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard and soft copies to the regulatory authority concerned, on 1st June and 1st December of each calendar year.	Noted & complying with, Environment Clearance conditions compliance status report is being submitted regularly. Last six-monthly EC compliance report submitted on 01.06.2023.
70.	Concealing factual data or submission of false/ fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted



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**From: Apr., 2023
To: Sep, 2023**

71.	The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.	Noted
72.	The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.	Noted
73.	The company in a time bound manner shall implement these conditions. The SEIAA reserves the right to stipulate additional conditions, if the same is found necessary.	Agreed & Noted.
74.	The project authorities shall inform the GPCB, Regional Office of MoEF and SEIAA about the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	Project work started from 01.04.2019 and Production started on 07.10.2020.
75.	This environmental clearance is valid for seven years from the date of issue.	Agreed & Noted.
76.	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted.
77.	Submission of any false or misleading information or data which is material to screening or scoping or appraisal or decision on the application makes this environment clearance cancelled.	Agreed & noted.
Notification published by MoEF&CC on 12/08/2021. F. No. IA3-22/8/2021-1A.III [150512] & MoEF & CC Office Memorandum dated 18.07.2022		
78.	A report, along with photographs, on the measures taken shall also be included in the six-monthly compliance report being submitted by the project proponents.	Notice of SINGLE USE PLASTIC BAN shared & communicated with all the employees & posters displayed at office & Notice boards. Details of action taken for awareness of SUP BAN are enclosed as <u>Annexure-11</u> .

For, J.K. Cement Works, Balasinor


(Gopal Gupta)
Grinding - Unit Head

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Annexure-I

JK Cement Works

Village : Vadadala, Tahsil: Balasinor, Distt. Mahisagar (Gujarat) Expenditure under Corporate Environment Responsibility (CER)

CER Activities 2023-2024 (Apr-23 to Sep-23) Balasinor, GU

Sr. No.	Date	Particulars	Distributed to	Price Value
1	14-04-2023	Tree Guard	Balasinor Police Station	68,080
2	14-04-2023	School uniform	Badharpura Primery School (Vadadla Gram Panchayat)	20,790
3	22-04-2023	Renovation	Govt. School Wanghroli	8,18,567
4	31-05-2023	Computer Desktop	Lotus high School- Thermal	14,514
5	23-06-2023	STREET LIGHT LSRI MINI 20W LED	Kalupur Primary School	8,437
6	23-06-2023	CEMENT BENCHES	Kalupur Primary School	15,340
7	26-06-2023	CEMENT BENCHES	Kantharji Primary School	15,340
8	06-07-2023	CEMENT BENCHES	Kalupur Primary School Harijan Colony Branch No	12,272
9	02-08-2023	CEMENT BENCHES	Jetholi Gram Panchayat	15,340
10	02-08-2023	STREET LIGHT LSRI MINI 20W LED	Jetholi Gram Panchayat	12,656
11	02-08-2023	STREET LIGHT LSRI MINI 20W LED	Jorapura Gram Panchayat	21,093
12	22-08-2023	GYM CENTER DEVELOPMENT	Balasinor	6,36,662
13	05-09-2023	CEMENT BENCHES	Wanghroli	24,544
14	05-09-2023	OTHWAL VILLAGE -TOILET CONSTRUCTION	Othwad	1,69,135
15	29-09-2023	MEDICAL CAMP ORG UNDER-CER	Handiya	30,000
		FY23-24	Total	1882769

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



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

Report Prepared by:



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

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 : **M. Janardhan**

Signed :



Designation : **Head & Vice President – Environment**

Date : **25th July 2023**

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 1st 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 liner line 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.

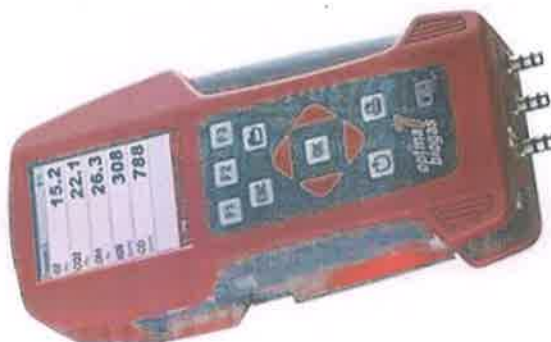


FIGURE-1
PORTABLE COMBUSTION GAS ANALYSER

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"> Envirotech Stack Sampling Kit Validated with calibration Report
Dynamic pressure	<ul style="list-style-type: none"> Incline cum vertical manometer Envirotech Stack Sampling Kit Accuracy: ± 1 [%] of measuring range
Static pressure	<ul style="list-style-type: none"> Incline cum vertical manometer Envirotech Stack Sampling Kit Accuracy: ± 1 [%] of measuring range
Ambient pressure	<ul style="list-style-type: none"> Digital Barometer, Testo 511, Germany Range: 300 – 1200 hPa [mbar] Accuracy: ± 3 hPa

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">Range: 0 - 1300 [°C]Accuracy: $\pm 0.3\% + 1^{\circ}\text{C}$

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.

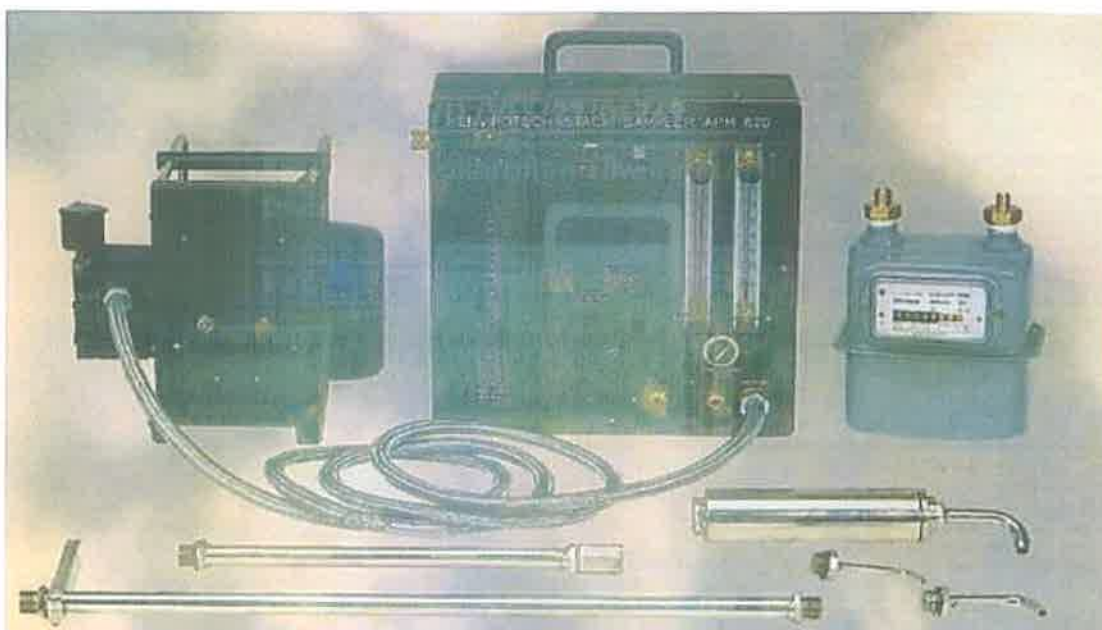


FIGURE-2

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 ²
01	CEMENT MILL STACK	4.6	0.9318	0.154	0.9641

Nomenclature:

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

M : Regression Slope (correction factor)

C : Intercept factor

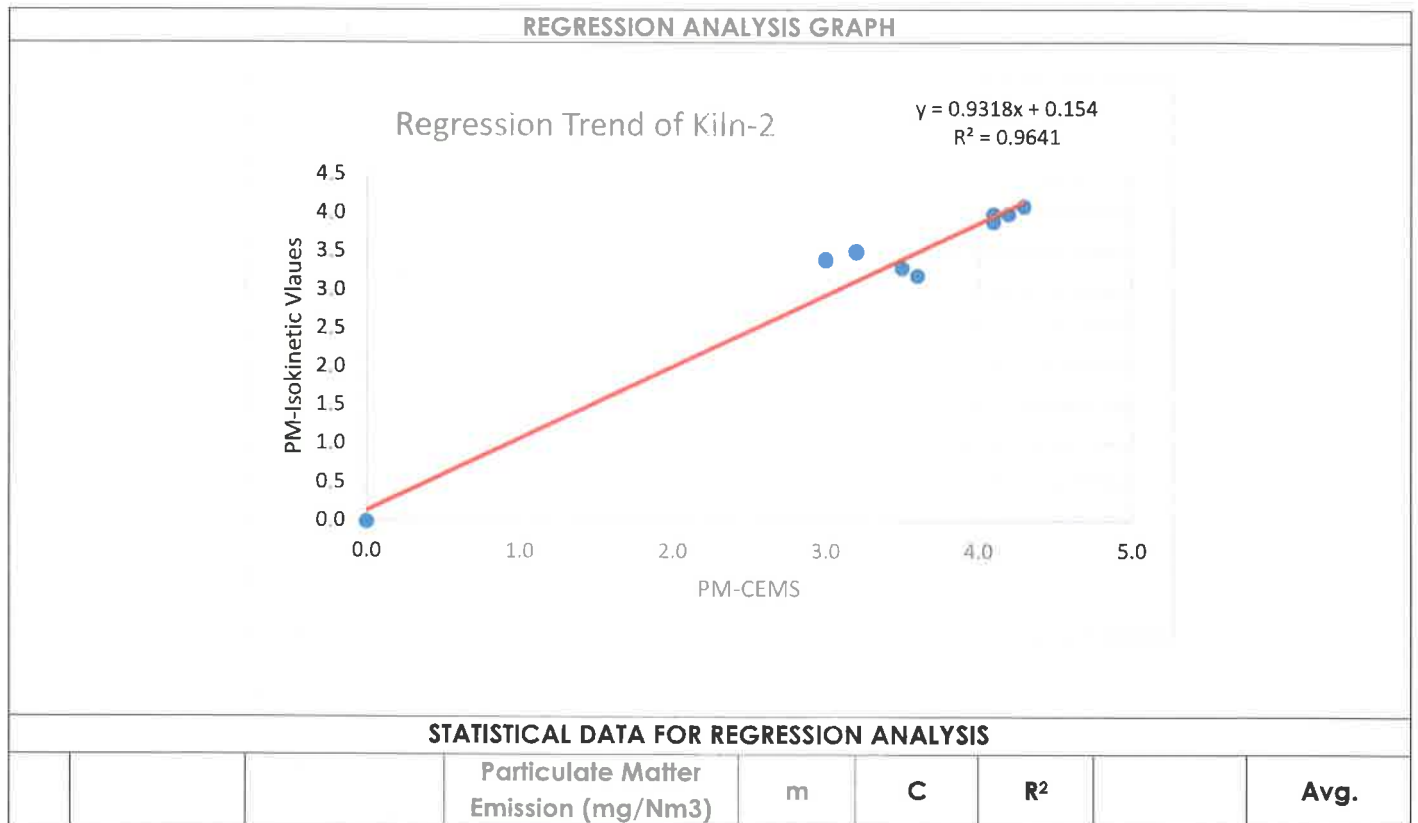
R² : Correlation Coefficient

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



Sr. No	Date of Sampling	Time of Sampling	Iso-Kinetic Value	Avg. CEM Value				Performance Accuracy (%)	Performance Accuracy (%)
1	13.07.2023	11:15 to 11:48	4.1	4.3	0.9318	0.154	0.9641	4.9	4.6
2	13.07.2023	11:55 to 12:25	4.0	4.2				5.0	
3	13.07.2023	12:30 to 13:15	4.1	4.3				4.9	
4	13.07.2023	14:00 to 14:30	3.2	3.6				12.5	
5	13.07.2023	14:35 to 15:10	3.4	3.0				11.8	
6	13.07.2023	15:20 to 15:50	3.5	3.2				8.6	
7	13.07.2023	15:55 to 16:25	3.3	3.5				6.1	
8	13.07.2023	16:30 to 17:10	3.9	4.1				5.1	
9	13.07.2023	17:15 to 17:47	4.0	4.1				2.5	

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 $\leq \pm 10\%$

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 1st 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 22nd November 2013
- 1st Revised Guidelines for Continuous Emission Monitoring Systems; June, 2018.
- USEPA Method-1,2,3,4,5&17
- USEPA Method 6C
- USEPA Method 7E



PM-CEMS Calibration Check Monitoring Report -Cement Division

Unit-Balasinor

Report No-VLL/VLS/23/06769

July 2023

Cement Grinding Unit															
Sr.No	Date	Time	Amb. Temp	Flue Gas Temp	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 %	m	c	R^2
1	13.07.2023	11:28 to 11:58	30	91	6.0	10.1	27	4.1	4.3	4.9	4.9	4.5	0.9318	0.154	0.9641
2	13.07.2023	12:09 to 12:39	30	91	6.1	10.2	27	4.0	4.2	5.0	5.0				
3	13.07.2023	12:49 to 13:19	30	91	6.0	10.1	27	4.1	4.3	4.9	4.9				
4	13.07.2023	13:29 to 13:59	32	88	6.6	10.5	28	3.2	3.6	12.5	12.5				
5	13.07.2023	14:38 to 15:08	32	88	6.6	10.5	28	3.4	3.0	-11.8	11.8				
6	13.07.2023	15:16 to 15:46	32	88	6.5	10.4	28	3.5	3.2	-8.6	8.6				
7	13.07.2023	16:05 to 16:35	32	90	6.7	10.6	29	3.3	3.5	6.1	6.1				
8	13.07.2023	16:45 to 17:15	32	90	6.7	10.6	29	3.9	4.1	5.1	5.1				
9	13.07.2023	17:21 to 17:51	32	90	6.7	10.6	29	4.0	4.1	2.5	2.5				



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

Ref. No. : 3006/06/2023-24

Date : 20/06/2023

AMBIENT AIR QUALITY MONITORING REPORT

Name of company : JK Cement Limited.

S.no. 1342/3, 1327, 1336, 1334, 1333, Vill.: Vadadala,
Ta.: Balasinor, Dist.: Mahisagar

Sr. No.	Particulars	Unit	Nr. STP Plant, Eastern Boundary	Nr. Project Office, North Direction	Nr. Sec. Tower, South Direction	Nr. Rest shelter
01.	Date of sampling	—	10/06/2023	10/06/2023	10/06/2023	10/06/2023
02.	Time of sampling	Hr	09:45	10:30	10:00	10:15
03.	Duration of Sampling	Min.	1440	1440	1440	1440
04.	Dominant Wind Direction (From)	—	SW	SW	SW	SW
05.	Average Wind Speed	Km/Hr	3 to 14	3 to 14	3 to 14	3 to 14
06.	Average flow rate during sampling	m ³ /Hour	1.10	1.10	1.10	1.10
07.	Average flow rate for Gas sampling	LPM	0.2	0.2	0.2	0.20
08.	Permissible Limits of PM 2.5	µg/m ³	60	60	60	60
09.	Measured Concentration of PM 2.5	µg/m ³	32	30	26	27
10.	Permissible Limits of PM 10	µg/m ³	100	100	100	100
11.	Measured Concentration of PM 10	µg/m ³	48	43	50	51
12.	Permissible Limits of SO ₂	µg/m ³	80	80	80	80
13.	Measured Concentration of SO ₂	µg/m ³	11.2	12.5	13.6	13
14.	Permissible Limits of NO ₂	µg/m ³	80	80	80	80
15.	Measured Concentration of NO ₂	µg/m ³	18.4	20.1	22.5	20

Instrument used : 1) Ecotech RDS, Model No. AAS - 217BL, Gaseouse Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 26/12/2022


Royal Environment Auditing & Consultancy Service




Analyst



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

Ref No : 507/09/2023-24

Date : 06/10/2023

AMBIENT AIR QUALITY MONITORING REPORT

Name of company : JK Cement Limited.

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

Ta.: Balasinor, Dist.: Mahisagar

Sr. No.	Particulars	Unit	Nr. STP Plant, Eastern Boundary	Nr. Project Office, North Direction	Nr. Sec. Tower, South Direction	Nr. Rest shelter
01	Date of sampling	---	30/09/2023	30/09/2023	30/09/2023	30/09/2023
02	Time of sampling	Hr	09:30	10:00	10:30	10:45
03	Duration of Sampling	Min.	1440	1440	1440	1440
04	Dominant Wind Direction (From)	---	SW	SW	SW	SW
05	Average Wind Speed	Km/Hr	3 to 18	3 to 18	3 to 18	3 to 18
06	Average flow rate during sampling	m3/Hour	1 10	1 10	1.10	1.10
07	Average flow rate for Gas sampling	LPM	0 2	0 2	0 2	0 2
08	Permissible Limits of PM 2.5	$\mu\text{g}/\text{m}^3$	60	60	60	60
09	Measured Concentration of PM 2.5	$\mu\text{g}/\text{m}^3$	29	35	27	28
10	Permissible Limits of PM 10	$\mu\text{g}/\text{m}^3$	100	100	100	100
11	Measured Concentration of PM 10	$\mu\text{g}/\text{m}^3$	51	48	54	59
12	Permissible Limits of SO ₂	$\mu\text{g}/\text{m}^3$	80	80	80	80
13	Measured Concentration of SO ₂	$\mu\text{g}/\text{m}^3$	12 2	13.5	14.2	16
14	Permissible Limits of NO ₂	$\mu\text{g}/\text{m}^3$	80	80	80	80
15	Measured Concentration of NO ₂	$\mu\text{g}/\text{m}^3$	19 2	21.2	23 1	18

Instrument used : f) Ecotech ROS, Model No AAS - 217BL, Gaseouse Sampling Kit- AAS 109 & PM 2.5 Sampler AAS 127

Calibrate Done on : 26/12/2022

Royal Environment Auditing & Consultancy Service



Chandra
Analyst

J.K. Cement WORKS, BALASINOR (G.J.)						
AMBIENT AIR QUALITY AVERAGE SPM RESULTS						
(ALL VALUES IN MICROGRAMS / CUBIC METER)						
HALF YEARLY REPORT (April'23 to Sep 2023)						
S.No.	Location	Month	Parameters			
			PM10	PM2.5	SO2	NOx
1	NEAR STP PLANT BOUNDARY TOWARDS EAST DIRECTION	Apr-23	20.45	22.84	11.60	20.34
2		May-23	38.72	24.68	10.86	15.21
3		Jun-23	38.95	24.05	12.21	21.15
4		Jul-23	37.46	27.92	12.26	21.55
5		Aug-23	42.36	39.37	10.41	16.99
6		Sep-23	41.88	35.65	10.21	16.69
Half Yearly Average			36.64	29.09	11.26	18.65
1	NEAR PROJECT OFFICE PLANT BOUNDARY TOWARDS NORTH DIRECTION	Apr-23	17.26	24.48	11.71	22.17
2		May-23	37.52	23.05	13.30	21.45
3		Jun-23	35.44	25.62	11.96	22.11
4		Jul-23	40.31	26.84	11.31	16.35
5		Aug-23	42.36	39.37	10.41	16.99
6		Sep-23	35.00	26.82	10.09	16.42
Half Yearly Average			34.65	27.70	11.46	19.25
1	NEAR SECURITY TOWER PLANT BOUNDARY TOWARDS SOUTH DIRECTION	Apr-23	21.51	24.03	10.08	16.40
2		May-23	34.32	29.11	14.76	20.81
3		Jun-23	38.73	24.67	10.04	21.06
4		Jul-23	42.95	26.06	11.31	16.35
5		Aug-23	41.88	35.65	10.21	16.69
6		Sep-23	39.90	30.85	11.34	15.20
Half Yearly Average			36.55	28.40	11.29	17.75


 Virendra
 Reviewed by



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Ref. No.: 508/09/2023-24

Date : 06/10/2023

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

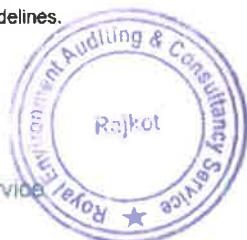
Sr. No.	Particulars	Unit	Location No. 1	Location No. 2
01.	Location of Sampling	---	NEAR UNLOADING AREA	NEAR CEMENT MILL
02.	Date of sampling	---	30/09/2023	30/09/2023
03.	Time of sampling	Hr	09:30	09:45
04.	Duration of Sampling	Min.	480	480
05.	Dominant Wind Direction (From)	---	SW	SW
06.	Average Wind Speed	Km/Hr	1 to 16	1 to 16
07.	Flow rate during sampling	m ³ /Hr	1.0	1.0
08.	Average flow rate for Gas sampling	LPM	0.2	0.2
09.	Permissible Limits of SPM *	µg/m ³	5000	5000
10.	Measured Concentration of SPM	µg/m ³	1425	1555
11.	Measured Silica Dust	mg/m ³	0.015	0.014

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

Calibration done on : 04/03/2023

* Permissible limits of fugitive emission based on CPCB Guidelines.

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Analyst
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Ref. No.: 509/09/2023-24

Date : 06/10/2023

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	---	30/09/2023	30/09/2023
03.	Time of sampling	Hr	09:00	09:15
04.	Duration of Sampling	Min.	480	480
05.	Dominant Wind Direction (From)	---	SW	SW
06.	Average Wind Speed	Km/Hr	2 to 20	2 to 20
07.	Flow rate during sampling	m ³ /Hr	1.0	1.0
08.	Average flow rate for Gas sampling	LPM	0.2	0.2
09.	Permissible Limits of SPM *	µg/m ³	5000	5000
10.	Measured Concentration of SPM	µg/m ³	1624	1745
11.	Measured Silica Dust	mg/m ³	0.013	0.018

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

Calibration done on : 04/03/2023

* Permissible limits of fugitive emission based on CPCB Guidelines

Royal Environment Auditing & Consultancy Service



Analyst

J.K. Cement Works, Balasinor

Fugitive Emission Monitoring Report

HALF YEARLY REPORT (April'23 to Sep 2023)

S.No.	Month/Year	SPM (mg/m3)			
		NEAR UNLOADING AREA	NEAR CEMENT MILL	NEAR FLYASH SILO	NEAR PACKING AREA
1	Apr-23	1.38	1.42	1.43	1.51
2	May-23	1.37	1.34	1.41	1.43
3	Jun-23	1.29	1.14	1.31	1.40
4	Jul-23	1.38	1.43	1.42	1.52
5	Aug-23	1.37	1.34	1.41	1.44
6	Sep-23	1.29	1.13	1.31	1.45
Average		1.35	1.30	1.38	1.46



Virendra

Reviewed by

JK Cement Works, Balasinor

Sep"2023

SN	Name of Employee	PULSE	BLOOD PRESSURE	EYE VISION	HAEMOGL OBIN	TOTAL COUNT	RBS	S CREATININE	SGPT	AUDIOMETRY	PFT	ECG	X-ray	REMARKS
1	Gopal Gupta	78	140/90	NORMAL	12.3	5600	93	0.99	31	NORMAL	NORMAL			NORMAL
2	Parth Mathur	84	140/80	NORMAL	15.2	6500	92	0.88	31	NORMAL	NORMAL			NORMAL
3	Vijay Kumar Swami	76	130/86	NORMAL	13.9	7500	90	1	40	DECREASE HEARING	NORMAL	NORMAL		DECREASE HEARING
4	Samant Gupta	86	140/90	NORMAL	13	6500	98	0.88	31	NORMAL	NORMAL	NORMAL		NORMAL
5	Mehta Rakesh	75	160/90	NORMAL	11.5	7100	104	1	42	DECREASE HEARING	NORMAL	NORMAL		DECREASE HEARING AND HIGH BP
6	Jayswal Vipin	84	136/82	NORMAL	11.9	5600	105	1	30	NORMAL	NORMAL	NORMAL		NORMAL
7	Rahul Kumar Dad	90	144/88	NORMAL	13.9	6500	85	0.78	33	NORMAL	NORMAL			NORMAL
8	Vijay Bahadur Mourya	76	128/70	NORMAL	12.5	7700	86	0.89	34	NORMAL	NORMAL			NORMAL
9	Rajendra Singh Jhala	86	120/84	NORMAL	14.2	7500	86	0.95	24	NORMAL	NORMAL			NORMAL
10	Anil Kumar Singhal	86	140/80	NORMAL	13	6500	110	0.99	32	NORMAL	NORMAL	NORMAL		NORMAL
11	Nitesh Chaurasiya	90	122/66	NORMAL	13.4	6300	85	0.71	39	NORMAL	NORMAL	NORMAL		NORMAL
12	Harakishan .	78	126/80	NORMAL	10.5	4500	112	0.9	26	NORMAL	NORMAL			NORMAL
13	Devendra Gaur	84	120/80	NORMAL	15.6	8500	92	0.95	29	NORMAL	NORMAL	NORMAL		NORMAL
14	Dushyant Singh	90	140/86	NORMAL	12.4	8500	85	0.91	30	NORMAL	NORMAL			NORMAL
15	Priya Prakash	113	130/80	NORMAL	11	8900	84	0.79	21	DECREASE HEARING	NORMAL	ABNORMAL		ABNORMAL ECG AND DECREASE HEARING
16	Raman Veer Sharma	84	140/82	NORMAL	13.2	7400	88	0.99	29	NORMAL	NORMAL			NORMAL
17	Sevak Dhavalkumar Punambhai	75	120/68	NORMAL	14.7	7800	82	0.91	23	NORMAL	NORMAL			NORMAL
18	Jignesh Kumar Morker	86	136/82	NORMAL	13.5	8400	99	0.98	28	NORMAL	NORMAL			NORMAL
19	Solanki Mahendrakumar Dhanabhai	80	130/82	NORMAL	14.5	8400	75	0.98	32	NORMAL	NORMAL			NORMAL
20	Ankit Yadav	74	130/76	NORMAL	11.1	6500	98	0.77	21	NORMAL	NORMAL		NORMAL	NORMAL
21	Yashkumar Hasmukhbhai Rathod	79	130/80	NORMAL	12.8	6300	84	0.79	25	NORMAL	NORMAL			NORMAL
22	Manish Kumar Tiwari	90	130/76	DECREASE NEAR VISION	12.4	6800	104	1	24	NORMAL	NORMAL	NORMAL		DECREASE NEAR VISION
23	Hirenkumar Chandrakant Modi	84	140/80	NORMAL	12	7900	88	0.89	25	NORMAL	NORMAL			NORMAL
24	Ayush Gupta	97	130/80	NORMAL	13	8000	89	0.93	30	NORMAL	NORMAL		NORMAL	NORMAL
25	Ansul Trivedi	77	130/70	NORMAL	13.6	5900	83	0.84	25	NORMAL	NORMAL		NORMAL	NORMAL
26	Bhopal Singh Shaktawat	86	140/84	NORMAL	13.4	5900	96	0.99	37	NORMAL	NORMAL			NORMAL
27	Narpat Singh	70	118/72	NORMAL	14	5500	90	0.93	27	NORMAL	NORMAL		NORMAL	NORMAL
28	PANKAJ KUMAR	74	122/70	NORMAL	14.9	7100	89	0.8	26	NORMAL	NORMAL		NORMAL	NORMAL
29	Shiv Shankar Garg	96	120/80	NORMAL	13.8	8200	89	0.89	28	NORMAL	NORMAL			NORMAL
30	Jay Prakash	86	136/82	NORMAL	11.7	7700	95	0.69	33	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
31	Divakar Tiwari	91	130/82	NORMAL	13.6	5200	95	0.69	25	NORMAL	NORMAL		NORMAL	NORMAL
32	Dipranjan Kumar Tiwari	75	140/70	NORMAL	13.1	6400	70	0.72	27	NORMAL	NORMAL		NORMAL	NORMAL
33	Rahul Kumar Sahu	90	140/88	NORMAL	13	8500	84	0.85	38	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
34	Ranjeet Mangal	88	136/84	NORMAL	13.3	7500	89	0.77	24	NORMAL	NORMAL		NORMAL	NORMAL
35	Mr.Vasudev Ramanbhai Bhoi	86	138/84	NORMAL	12.7	8500	95	0.92	30	NORMAL	NORMAL	NORMAL		NORMAL

SN	Name of Employee	PULSE	BLOOD PRESSURE	EYE VISION	HAEMOGL OBIN	TOTAL COUNT	RBS	S CREATININE	SGPT	AUDIOMETRY	PFT	ECG	X-ray	REMARKS
36	Mr.Sandip Harijan	76	134/78	NORMAL	12.9	7100	89	0.75	22	NORMAL	NORMAL			NORMAL
37	Mr.Bhikhabhai Mehra	86	150/88	NORMAL	12.7	8400	109	0.98	31	NORMAL	NORMAL	NORMAL		NORMAL
38	Mr.Dipak Katariya	104	140/78	NORMAL	14	6700	90	0.98	31	NORMAL	NORMAL			NORMAL
39	Mr.Rizwan Malek	92	132/84	NORMAL	13.9	7800	91	0.89	27	NORMAL	NORMAL			NORMAL
40	Mr.Rakshesh Patel	86	130/84	NORMAL	14.6	9500	93	0.72	33	NORMAL	NORMAL			NORMAL
41	Mr.Vanrajsinh Bharatsinh Solanki	70	130/68	NORMAL	12.6	8000	96	0.88	24	NORMAL	NORMAL	NORMAL		NORMAL
42	Mr.Rajesh Kumar Chauhan	74	136/80	NORMAL	14.2	6800	97	0.91	26	NORMAL	NORMAL	NORMAL		NORMAL
43	Mr.Pradeep Kumar	101	126/76	NORMAL	12.7	5400	83	0.84	29	NORMAL	NORMAL			NORMAL
44	Mr.Sanjay Thakor	80	120/72	NORMAL	12.7	5900	90	0.84	23	NORMAL	NORMAL			NORMAL
45	Mr.Pranshu Pandey	90	140/70	NORMAL	13.5	7700	80	0.79	31	NORMAL	NORMAL		NORMAL	NORMAL
46	Mr.Kishor Kumar Kotakwani	70	126/66	NORMAL	12.1	6400	82	0.76	19	NORMAL	NORMAL			NORMAL
47	Mr.Bhupendra Singh	84	130/80	NORMAL	12.5	6600	106	0.88	23	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
48	Mr.Atri Patel	80	126/78	NORMAL	13.8	8600	86	0.86	23	NORMAL	NORMAL			NORMAL
49	Mr.Deovrat Verma	91	140/86	NORMAL	15.2	8100	85	0.88	29	NORMAL	NORMAL		NORMAL	NORMAL
50	Mr.Kapil Yadav	74	126/74	NORMAL	13.5	7900	87	0.88	37	NORMAL	NORMAL		NORMAL	NORMAL
51	Mr.Jatin Makwana	100	130/80	NORMAL	13.9	6700	89	0.93	36	NORMAL	NORMAL		NORMAL	NORMAL
52	Mr.Sandeep Sharma	89	122/76	NORMAL	11.9	6400	90	0.92	30	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
53	Mr.Ramavatar	68	120/66	NORMAL	13.5	6200	81	0.86	33	NORMAL	NORMAL		NORMAL	NORMAL
54	Mr.Nilesh Rana	103	134/84	NORMAL	14.3	5600	80	0.81	33	NORMAL	NORMAL		NORMAL	NORMAL
55	Anand Purohit	78	126/80	NORMAL	12.8	5800	78	0.81	33	NORMAL	NORMAL		NORMAL	NORMAL
56	Devashish Gokhru	75	140/80	NORMAL	14.4	5400	85	0.85	31	DECREASE HEARING	NORMAL		NORMAL	DECREASE HEARING
57	Patel Jaydipkumar Rameshbhai	80	130/80	NORMAL	14.2	5100	95	0.94	23	NORMAL	NORMAL			NORMAL
58	Pandey Balkrishna Gokulprasad	86	136/82	NORMAL	12.7	6800	99	0.85	25	NORMAL	NORMAL	NORMAL		NORMAL
59	Chauhan Maheshkumar Ramsinh	88	130/84	NORMAL	14.8	6400	85	0.84	33	NORMAL	NORMAL			NORMAL
60	Patel Viral Pravinbhai	84	132/76	NORMAL	14.1	9100	93	0.96	33	NORMAL	NORMAL			NORMAL
61	Nema Likhma Ram	90	132/84	NORMAL	11.8	6300	102	0.96	28	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
62	Omaram Nemaram Meghwal	105	140/80	NORMAL	13.9	8100	82	0.8	25	NORMAL	NORMAL			NORMAL
63	Senva Anilkumar Fulabhai	80	140/82	NORMAL	13.8	7800	89	0.91	35	NORMAL	NORMAL			NORMAL
64	Malek Javidmiya Yasinbhai	96	120/74	NORMAL	12.8	6700	90	0.83	38	NORMAL	NORMAL			NORMAL
65	Dabhi Arunkumar Parvatbhai	99	120/70	NORMAL	13	9500	82	0.73	31	NORMAL	NORMAL			NORMAL
66	Patel Akashbhai Vijaybhai	85	120/70	NORMAL	14.3	4900	85	0.96	24	NORMAL	NORMAL			NORMAL
67	Parmar Mahendrabhai Chhaganbhai	60	136/80	NORMAL	13.6	8500	79	0.91	30	NORMAL	NORMAL	NORMAL		NORMAL
68	Senva Naginbhai Somabhai	78	140/86	NORMAL	14.9	6800	95	0.89	25	NORMAL	NORMAL			NORMAL
69	Hemantkumar Ishvarbhai Vankar	72	130/70	NORMAL	12.3	6300	91	0.96	24	NORMAL	NORMAL		NORMAL	NORMAL
70	Solanki Pradip Balvantbhai	88	132/82	NORMAL	13.5	8400	92	0.88	28	NORMAL	NORMAL			NORMAL
71	Malek Salimmiya Yasinmiya	85	120/70	NORMAL	14.5	6700	98	0.84	32	DECREASE HEARING	NORMAL	NORMAL		DECREASE HEARING
72	Bhangi Amitbhai K	63	140/80	NORMAL	12.3	9500	96	0.89	34	NORMAL	NORMAL			NORMAL
73	Shaikh Tahir Husen G	76	128/74	NORMAL	14.6	7600	79	0.8	20	NORMAL	NORMAL			NORMAL

SN	Name of Employee	PULSE	BLOOD PRESSURE	EYE VISION	HAEMOGL OBIN	TOTAL COUNT	RBS	S CREATININE	SGPT	AUDIOMETRY	PFT	ECG	X-ray	REMARKS
74	Chinubhai Manilal Katariya	94	146/90	NORMAL	15.9	9800	80	0.81	31	NORMAL	NORMAL	NORMAL		HIGH BP
75	Chauhan Vikramsingh Prabhat Singh	72	130/70	NORMAL	12.2	8500	98	0.9	26	NORMAL	NORMAL			NORMAL
76	Bhangi Dinesh Bhai M	88	126/80	NORMAL	12.4	6200	87	0.91	29	NORMAL	NORMAL	NORMAL		NORMAL
77	Patel Pankaj Hashmukh	78	118/76	NORMAL	15.3	4800	86	0.9	21	NORMAL	NORMAL	NORMAL		NORMAL
78	Pathan Avaishkhan Nasullakhan	88	136/84	NORMAL	14.1	8800	84	0.8	26	NORMAL	NORMAL			NORMAL
79	Parmar Vijay Kumar G	91	130/80	NORMAL	12.8	8500	84	0.82	27	NORMAL	NORMAL			NORMAL
80	Parmar Mahesh Kumar	74	120/72	NORMAL	13.8	8900	98	0.98	35	DECREASE HEARING	NORMAL	NORMAL		DECREASE HEARING
81	Om Prakash Bhati	86	130/80	NORMAL	11.9	8600	86	0.84	27	NORMAL	NORMAL			NORMAL
82	Parmar Hasumukhbhai Khodabhai	72	120/70	NORMAL	12.1	9500	85	0.91	30	NORMAL	NORMAL			NORMAL
83	Rathod Harish Chandra Chhatrasinh	84	132/80	NORMAL	13.7	8400	101	0.99	37	NORMAL	NORMAL	NORMAL		NORMAL
84	Sunil Paswan	78	136/80	NORMAL	13.8	6800	88	0.84	23	NORMAL	NORMAL			NORMAL
85	Chauhan Sunilbhai Maheshbhai	76	130/74	NORMAL	13.6	6500	89	0.85	24	NORMAL	NORMAL			NORMAL
86	Shaikh Mohammad Mohsin Abdulrasid	93	130/70	NORMAL	15.2	7600	84	0.86	32	NORMAL	NORMAL			NORMAL
87	Patel Milindkumar Amrutlal	76	126/74	NORMAL	13.7	6800	84	0.89	28	NORMAL	NORMAL			NORMAL
88	Rathod Mukeshkumar Babubhai	66	122/68	NORMAL	12.8	4500	80	0.9	21	NORMAL	NORMAL			NORMAL
89	Parmar Kiritsinh Navabhai	66	120/80	NORMAL	14.6	7100	87	0.78	32	NORMAL	NORMAL			NORMAL
90	Rathod Sanjaykumar Abhesinh	88	140/80	NORMAL	14.2	8400	95	0.9	32	NORMAL	NORMAL			NORMAL
91	Parmar Ajaykuar Mohanbhai	84	110/66	NORMAL	12.4	7300	96	1	26	NORMAL	NORMAL			NORMAL
92	Sodhaparmar Vijaysinh Ishvarbhai	90	120/86	NORMAL	12.5	6400	86	0.79	30	NORMAL	NORMAL			NORMAL
93	Bhatt Devangbhai Atulbhai	84	120/84	NORMAL	13.2	7600	87	0.79	22	NORMAL	NORMAL			NORMAL
94	Sindhva Arvindbhai Maganbhai	88	140/86	NORMAL	13.3	8500	85	0.8	26	NORMAL	NORMAL			NORMAL
95	Pagi Abhesinh Melabhai	88	134/86	NORMAL	14.5	7800	93	0.96	34	NORMAL	NORMAL			NORMAL
96	Pateliya Ishvarbhai Ravjibhai	103	140/80	NORMAL	13.1	8200	87	0.85	25	NORMAL	NORMAL			NORMAL
97	Senva Nareshkumar Umedbhai	84	120/80	NORMAL	13	7700	89	0.93	26	NORMAL	NORMAL			NORMAL
98	Senva Ajaykumar Ratilal	90	130/76	NORMAL	13.6	8400	89	0.84	33	NORMAL	NORMAL			NORMAL
99	Parmar Dharmendra Manharbhai	78	128/76	NORMAL	14.7	6500	92	0.84	21	NORMAL	NORMAL			NORMAL
100	Bharvad Dineshbhai Bhagabhai	70	122/68	NORMAL	12.3	4700	94	0.96	23	NORMAL	NORMAL			NORMAL
101	Parmar Anilbhai Bhikhabhai	90	130/70	NORMAL	12.9	4800	83	0.8	25	NORMAL	NORMAL			NORMAL
102	Parmar Kisankumar Navalbhai	98	130/80	NORMAL	12.5	9100	84	0.73	24	NORMAL	NORMAL			NORMAL
103	Mahera Jagdishbhai Jasantbhai	104	126/86	NORMAL	13.6	8000	86	0.78	24	NORMAL	NORMAL			NORMAL
104	Bhoi Dharmendrakumar Amrutbhai	70	140/88	NORMAL	13.9	6500	98	0.87	29	NORMAL	NORMAL			NORMAL
105	Vaghela Pravinbhai Bharatbhai	90	120/80	NORMAL	12	7300	98	1	41	NORMAL	NORMAL	NORMAL		NORMAL
106	Valand Rameshkumar Dhulabhai	84	134/82	DECREASE NEAR VISION	11.4	6300	80	0.9	29	NORMAL	NORMAL	NORMAL		DECREASE NEAR VISION
107	Parmar Babubhai Somabhai	78	160/94	NORMAL	15.8	8400	96	0.89	36	NORMAL	NORMAL	NORMAL		HIGH B P
108	Mahera Pareshkumar Kanubhai	113	120/80	NORMAL	13.2	6200	88	0.93	24	NORMAL	NORMAL			NORMAL

SN	Name of Employee	PULSE	BLOOD PRESSURE	EYE VISION	HAEMOGL OBIN	TOTAL COUNT	RBS	S CREATININE	SGPT	AUDIOMETRY	PFT	ECG	X-ray	REMARKS
109	Parmar Arvindbhai Arjunbhai	78	132/86	DECREASE NEAR VISION	12.2	7100	94	0.9	24	NORMAL	NORMAL	NORMAL		DECREASE NEAR VISION
110	Sindhva Naginbhai Somabhai	76	122/74	NORMAL	13.9	6400	91	0.79	26	NORMAL	NORMAL			NORMAL
111	Pathan Yashinkhan Ushmankhan	68	140/76	NORMAL	12.2	6500	132	1	32	NORMAL	NORMAL	NORMAL		NORMAL
112	Pateliya Rajeshbhai Somabhai	74	130/76	NORMAL	12.9	8400	89	0.95	33	NORMAL	NORMAL			NORMAL
113	Patel Hirenkumar Rameshbhai	76	122/74	NORMAL	15.9	6500	87	0.9	28	NORMAL	NORMAL			NORMAL
114	Pateliya Amarishkumar Kisorbhai	94	120/70	NORMAL	14.3	7900	81	0.85	30	NORMAL	NORMAL			NORMAL
115	Parmar Jagdishbhai Ishwarbhai	66	128/72	NORMAL	12.9	7800	84	0.93	26	NORMAL	NORMAL			NORMAL
116	Parmar Vijaykumar Kantibhai	104	120/80	NORMAL	13.4	6400	92	0.89	31	NORMAL	NORMAL			NORMAL
117	Mafatbhai Bhoi	68	110/70	NORMAL	11.8	6900	86	0.87	25	NORMAL	NORMAL			NORMAL
118	Bhagirath Solanki	72	120/80	NORMAL	14.5	6200	85	0.99	26	DECREASE HEARING	NORMAL	NORMAL		DECREASE HEARING
119	Bipin Kumar Vaghela	70	122/72	NORMAL	136.9	8400	86	0.99	32	NORMAL	NORMAL			NORMAL
120	Parmar Pratap Singh	62	110/66	NORMAL	13.8	4500	83	0.88	21	NORMAL	NORMAL			NORMAL
121	Ranjitsingh Parmar	68	116/66	NORMAL	13.6	7800	89	0.81	24	NORMAL	NORMAL			NORMAL
122	Diwan Shakirshah Mahmmad Shah	62	100/60	NORMAL	14.2	7800	79	0.7	24	NORMAL	NORMAL			NORMAL
123	Parmar Goutamkumar Chandrasingh	74	122/70	NORMAL	15.7	8400	95	0.69	22	NORMAL	NORMAL			NORMAL
124	Senva Bharatkumar Deshai Bhai	94	120/66	NORMAL	12.8	9100	78	0.74	23	NORMAL	NORMAL			NORMAL
125	Senva Harsad Kumar Laxman Bhai	86	130/84	NORMAL	13.9	8400	86	0.79	24	NORMAL	NORMAL			NORMAL
126	Sindhva Chirag Kumar Vasant Bahi	96	160/94	NORMAL	14.6	6500	87	0.92	35	NORMAL	NORMAL			HIGH B P
127	Bhoi Mahesh Kumar Ramabhai	86	136/82	NORMAL	14.2	5800	95	0.96	32	NORMAL	NORMAL	NORMAL		NORMAL
128	Parmar Dineshbhai Prabhatbhai	80	136/84	NORMAL	13.3	8500	74	0.88	29	NORMAL	NORMAL			NORMAL
129	Solanki Dhulabhai Vagubhai	72	140/86	NORMAL	12.8	8500	95	0.88	32	DECREASE HEARING	NORMAL	NORMAL		DECREASE HEARING
130	Rathod Kamleshkumar Natvarbhai	84	110/60	NORMAL	12.7	5800	92	0.88	24	NORMAL	NORMAL			NORMAL
131	Sharma Tarun Pradipbhai	78	130/80	NORMAL	11.7	9000	82	0.77	23	NORMAL	NORMAL			NORMAL
132	Chavda Vasant Kumar Somabhai	63	130/76	NORMAL	13.9	4500	83	0.87	36	NORMAL	NORMAL			NORMAL
133	Dabhi Kanaiyalal Vaghabhai	102	116/72	NORMAL	13.9	7000	86	0.85	90	NORMAL	NORMAL			NORMAL
134	Mahera Bhaveshkumar Rameshbhai	103	140/80	NORMAL	12.2	7300	79	0.78	22	NORMAL	NORMAL			NORMAL
135	Vankar Bhavesh	102	130/80	NORMAL	12.2	6800	78	0.71	23	NORMAL	NORMAL		NORMAL	NORMAL
136	Mota Ram Meghwal	86	122/70	NORMAL	14.7	7200	97	0.95	35	NORMAL	NORMAL			NORMAL
137	Thakor Natvar Sinh Somsinh	93	120/80	NORMAL	12	7200	89	0.85	31	NORMAL	NORMAL		NORMAL	NORMAL
138	Thakor Jayeshbhai Vikarambhai	92	120/70	NORMAL	12.8	7800	78	0.7	20	NORMAL	NORMAL			NORMAL
139	Sodha Maheshkumar Salambhai	78	130/82	NORMAL						NORMAL			NORMAL	NORMAL

SN	Name of Employee	PULSE	BLOOD PRESSURE	EYE VISION	HAEMOGL OBIN	TOTAL COUNT	RBS	S CREATININE	SGPT	AUDIOMETRY	PFT	ECG	X-ray	REMARKS
140	Shaikh Inayatmiya Hasanmiya	62	116/64	NORMAL	13.5	4800	81	0.99	29	DECREASE HEARING	NORMAL			DECREASE HEARING
141	Bhupendra K. Bariya	74	128/70	NORMAL	14.1	6500	88	0.87	31	NORMAL	NORMAL			NORMAL
142	Sonu Rai	70	118/68	NORMAL	13.5	6200	70	0.68	31	NORMAL	NORMAL			NORMAL
143	Prajapati Daxeshkumar Manibhai	90	140/78	NORMAL	13.6	6800	82	0.78	24	NORMAL	NORMAL			NORMAL
144	Bariya Manharkumar Dashrathbhai	90	138/84	NORMAL	14.2	8300	96	0.79	25	NORMAL	NORMAL		NORMAL	NORMAL
145	Dayal Ram	76	124/74	NORMAL	14.2	4500	81	0.77	24	NORMAL	NORMAL			NORMAL
146	Chauhan Nileshkumar Bharatbhai	109	120/70	NORMAL	11.9	8900	91	0.9	35	NORMAL	NORMAL			NORMAL
147	Parmar Vajeshih Rupabhai	88	140/86	NORMAL	11.6	7100	112	1	27	NORMAL	NORMAL	NORMAL		NORMAL
148	Vasava Ravindrakumar Rameshbhai	70	128/68	NORMAL	12.8	5800	70	0.73	19	NORMAL	NORMAL			NORMAL
149	Rathod Hiteshkumar Anupamsinh	80	122/76	NORMAL	11.8	4900	79	0.75	20	NORMAL	NORMAL			NORMAL
150	Solanki Kanakbhai	92	138/84	NORMAL	12.6	6100	95	1	31	NORMAL	NORMAL	NORMAL		NORMAL
151	Pappu Ram	90	130/80	NORMAL	14.8	4800	84	0.69	29	NORMAL	NORMAL		NORMAL	NORMAL
152	Katariya Laljibhai Dineshbhai	96	142/86	NORMAL	14.8	4900	83	0.88	30	NORMAL	NORMAL			NORMAL
153	Parmar Sanjaykumar Shvruosingh	98	140/80	NORMAL	12.9	6200	98	0.89	35	NORMAL	NORMAL			NORMAL
154	Parmar Pravinbhai Rangeetbhai	72	122/80	NORMAL	16.3	4500	93	0.88	29	NORMAL	NORMAL			NORMAL
155	Parmar Kiranbhai Shantibhai	74	124/70	NORMAL	14.8	7400	92	0.88	26	NORMAL	NORMAL			NORMAL
156	Shaikh Nisharjinani Yashinmiya	80	136/88	NORMAL	13.4	5800	97	0.98	28	NORMAL	NORMAL			NORMAL
157	Divan Ashifsha Ismailsha	98	130/80	NORMAL	14.7	9400	70	0.71	20	NORMAL	NORMAL			NORMAL
158	Pathan Imarankhan Kalukhan	88	138/78	NORMAL	12.8	7900	105	0.95	38	DECREASE HEARING	NORMAL	NORMAL	NORMAL	DECREASE HEARING
159	Shaikh Riyazmiya Akhatarmiya	88	128/80	NORMAL	14.2	5400	80	0.84	23	NORMAL	NORMAL		NORMAL	NORMAL
160	Mukesh Kumar	93	110/70	NORMAL	14.2	4900	93	0.84	33	NORMAL	NORMAL			NORMAL
161	Satyaprakash	83	120/86	NORMAL	14	7500	85	0.8	31	NORMAL	NORMAL		NORMAL	NORMAL
162	Dilip Singh	63	120/70	NORMAL	13.8	6400	84	0.75	33	NORMAL	NORMAL			NORMAL
163	Umeshbhai Mahera	90	132/80	NORMAL	12.6	8100	86	0.9	29	NORMAL	NORMAL			NORMAL
164	Mahammad Asaraf Mahammadsalim	93	130/80	NORMAL	12.5	7800	88	0.76	23	NORMAL	NORMAL		NORMAL	NORMAL
165	Chavda Dilipkumar Dudhabhai	105	136/80	NORMAL	13.7	8200	94	0.89	28	NORMAL	NORMAL			NORMAL
166	Shaikh Tarifamiya	74	124/72	NORMAL	15.8	4800	98	0.96	30	NORMAL	NORMAL		NORMAL	NORMAL
167	Shaikh Faizalbhai Ishakbhai	84	130/80	NORMAL	15	9300	95	0.89	28	NORMAL	NORMAL			NORMAL
168	Katariya Ghanshyambhai Valjibhai	78	116/68	NORMAL	14.2	8500	112	1.1	26	NORMAL	NORMAL	NORMAL		NORMAL
169	Mahera Bhikhabhai Babubhai	71	130/70	NORMAL	14.2	8400	95	0.9	34	NORMAL	NORMAL	NORMAL		NORMAL
170	Parmar Manojkumar Muljibhai	80	130/70	NORMAL	13.5	7800	84	0.93	31	NORMAL	NORMAL			NORMAL
171	Diwan Salimsha Saukatsha	97	136/80	NORMAL	14.2	6900	95	0.63	28	NORMAL	NORMAL			NORMAL
172	Pathan Irfankhan Sahadatkh	88	136/86	NORMAL	15.8	8700	82	0.9	36	NORMAL	NORMAL	NORMAL		NORMAL

SN	Name of Employee	PULSE	BLOOD PRESSURE	EYE VISION	HAEMOGL OBIN	TOTAL COUNT	RBS	S CREATININE	SGPT	AUDIOMETRY	PFT	ECG	X-ray	REMARKS
173	Diwan Mahyodinsha Shabirshah	80	122/66	NORMAL	14.8	9100	75	0.78	22	NORMAL	NORMAL			NORMAL
174	Chauhan Sanjaybhai	74	130/72	NORMAL	13.8	7800	81	0.83	29	NORMAL	NORMAL			NORMAL
175	Shaikh Sabbirahemad Yasinmiya	88	140/90	NORMAL	14.2	4900	84	0.99	27	NORMAL	NORMAL	ABNORM AL		ABNORMAL ECG
176	Sanjaybhai Vithalbhai Bhoi	82	122/74	NORMAL	12.8	8500	70	0.75	22	NORMAL	NORMAL			NORMAL
177	Dabhi Vijaysinh	80	116/70	NORMAL	13.8	8500	93	1	34	NORMAL	NORMAL			NORMAL
178	Mehera Ravindra Kumar	105	120/70	NORMAL	12.3	8900	80	0.78	36	NORMAL	NORMAL		NORMAL	NORMAL
179	Pathan Mohsinkhan Nabikhan	78	118/68	NORMAL	14.2	6500	85	0.75	37	NORMAL	NORMAL			NORMAL
180	Shaikh Husenbhai Ushmanmiya	79	130/80	NORMAL	13.2	5900	91	0.95	34	NORMAL	NORMAL			NORMAL
181	Parmar Ranjitsingh Somabhai	98	126/72	NORMAL	15.2	8000	95	0.96	25	NORMAL	NORMAL		NORMAL	NORMAL
182	Shaikh Usmangni Ishakbhai	106	154/92	NORMAL	12.3	8900	114	1.2	28	DECREASE HEARING	NORMAL	NORMAL	NORMAL	NORMAL
183	Ramanand Bin	90	132/82	NORMAL	14.3	7700	93	0.9	30	NORMAL	NORMAL			NORMAL
184	Rang Bahadur Rajbhar	88	142/86	NORMAL	13.7	7700	87	0.88	27	NORMAL	NORMAL			NORMAL
185	Bharvad Rakeshbhai Jivabhai	81	130/70	NORMAL	15	7900	87	0.69	24	NORMAL	NORMAL			NORMAL
186	Chauhan Bharatsinh Dipabhai	62	116/64	NORMAL	14.3	7400	91	0.9	32	NORMAL	NORMAL		NORMAL	NORMAL
187	Panchal Devangkumar Jyantilal	92	136/84	NORMAL	12.2	8600	95	0.96	32	NORMAL	NORMAL	NORMAL		NORMAL
188	Pathan Ejajuddin Shahbuddin	98	140/80	NORMAL	14	6800	90	0.95	36	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
189	Senva Anilkumar Ravjibhai	76	134/72	NORMAL	14.2	5500	88	0.94	35	NORMAL	NORMAL			NORMAL
190	Bhoi Kalpeshbhai Jayntibhai	110	130/80	NORMAL	13.1	5600	89	0.83	25	NORMAL	NORMAL			NORMAL
191	Divan Junaidsha Navabshah	74	130/84	NORMAL	13.9	6500	78	0.75	19	NORMAL	NORMAL			NORMAL
192	Thakor Yogeshkumar Vijendrasingh	84	130/72	NORMAL	14	6700	77	0.8	22	NORMAL	NORMAL			NORMAL
193	Thakor Naravatbhai	64	130/68	NORMAL	14.2	8500	79	0.77	25	NORMAL	NORMAL			NORMAL
194	Shaikh Soyeabbhai	110	120/66	NORMAL	14.2	6300	85	0.79	24	NORMAL	NORMAL			NORMAL
195	Bariya Ajmelbhai	100	120/70	NORMAL	14.3	8400	83	0.84	32	NORMAL	NORMAL			NORMAL
196	Parmar Nitinkumar Kantibhai	85	130/80	NORMAL	13.5	6100	86	0.92	28	NORMAL	NORMAL		NORMAL	NORMAL
197	Saiyad Shahidali Abbasali	82	130/76	NORMAL	13.6	8100	90	0.95	25	NORMAL	NORMAL		NORMAL	NORMAL
198	Vinod Yadav	84	124/80	NORMAL	12.9	8000	85	0.789	24	NORMAL	NORMAL		NORMAL	NORMAL
199	Shaikh Kasibhusain Habibmiya	78	132/80	NORMAL	14.5	8400	82	0.78	21	NORMAL	NORMAL			NORMAL
200	Malek Tosifmahammad	72	118/70	NORMAL	14.5	8500	88	0.69	31	NORMAL	NORMAL		NORMAL	NORMAL
201	Chavda Kalpeshkumar Dahyabhai	86	130/80	NORMAL	12.4	9000	85	0.79	26	NORMAL	NORMAL		NORMAL	NORMAL
202	Harijan Mahendrabhai Ramabhai	84	132/76	NORMAL	12.6	6500	85	0.9	40	NORMAL	ABNORM AL		NORMAL	NORMAL
203	Parmar Kiran Vithalbhai	78	132/84	NORMAL	15.6	4800	91	0.88	32	NORMAL	NORMAL		NORMAL	NORMAL
204	Solanki Ajit Arjunsighn	72	126/76	NORMAL	11.1	7600	81	0.89	25	NORMAL	NORMAL		NORMAL	NORMAL
205	Bariya Ishvar Raijibhai	74	116/72	NORMAL	12.8	6200	87	0.99	32	NORMAL	NORMAL		NORMAL	NORMAL
206	Jayprakash Bhadi Paswan	89	138/84	NORMAL	13.4	8700	81	0.8	24	NORMAL	NORMAL		NORMAL	NORMAL
207	Shaikh Mahamadsafi Abdulmiya	102	150/100	NORMAL	14.7	8900	83	0.84	25	NORMAL	NORMAL		NORMAL	HIGH BP
208	Parmar Vipulkumar Bhalabhai	90	130/80	NORMAL	11.8	6800	78	0.82	21	NORMAL	NORMAL		NORMAL	NORMAL
209	Chatra Govind Ram	88	120/80	NORMAL	13.5	8400	80	0.81	26	NORMAL	NORMAL		NORMAL	NORMAL
210	Pateliya Rajeshbhai Kalabhai	70	120/78	NORMAL	14	4900	95	0.86	33	NORMAL	NORMAL		NORMAL	NORMAL
211	Parmar Jagdishbhai Kohyabhai	80	130/80	NORMAL	13.5	9500	85	0.81	27	NORMAL	NORMAL		NORMAL	NORMAL

SN	Name of Employee	PULSE	BLOOD PRESSURE	EYE VISION	HAEMOGL OBIN	TOTAL COUNT	RBS	S CREATININE	SGPT	AUDIOMETRY	PFT	ECG	X-ray	REMARKS
212	Pateliya Rajeshbhai Rameshbhai	76	132/80	NORMAL	15.2	8400	88	0.75	22	NORMAL	NORMAL		NORMAL	NORMAL
213	Ankit Thakor	76	116/70	NORMAL	12.6	6800	78	0.76	21	NORMAL	NORMAL		NORMAL	NORMAL
214	Thakor Kanubhai Svarupsinh	76	118/72	NORMAL	14.5	8400	79	0.74	25	NORMAL	NORMAL		NORMAL	NORMAL
215	Senva Ashvinbhai Bhikhabhai	74	122/78	NORMAL	14.8	8400	90	0.79	23	NORMAL	NORMAL		NORMAL	NORMAL
216	Brijeshkumar Rajibhai Mahera	76	110/70	NORMAL	14.2	7700	90	0.87	26	NORMAL	NORMAL			NORMAL
217	Malek Mahirhusen Aman Ullah	70	116/68	NORMAL	13.9	5800	71	0.69	21	NORMAL	NORMAL		NORMAL	NORMAL
218	Parmar Vikaram Ravjibhai	78	134/86	NORMAL	14.2	8400	90	0.84	32	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
219	Parmar Manojbhai Sardarsingh	78	130/76	NORMAL	15.1	8400	82	0.79	29	NORMAL	NORMAL		NORMAL	NORMAL
220	Parmar Jagdish Desaibhai	78	134/82	NORMAL	13.8	7800	91	0.88	26	NORMAL	NORMAL		NORMAL	NORMAL
221	Parmar Kiranbhai Punambhai	72	126/80	NORMAL	15.8	6800	85	0.99	32	NORMAL	NORMAL		NORMAL	NORMAL
222	Parmar Vipulkumar Udabahi	68	116/66	NORMAL	14.2	8700	74	0.71	20	NORMAL	NORMAL		NORMAL	NORMAL
223	Shaikh Abdulrajak Ibraimmiya	86	132/82	NORMAL	14.6	7200	89	0.81	21	NORMAL	NORMAL		NORMAL	NORMAL
224	Parmar Rangitbhai Bhavanbhai	80	140/80	NORMAL	13.9	6800	94	0.98	21	NORMAL	NORMAL		NORMAL	NORMAL
225	Shaikh Rifakat Sabbirbhai	96	140/80	NORMAL	12	4500	95	0.89	34	NORMAL	NORMAL		NORMAL	NORMAL
226	Bhoi Krupeshkumar Rameshbhai	74	120/70	NORMAL	13.2	6800	91	0.78	22	NORMAL	NORMAL		NORMAL	NORMAL
227	Pathan Imrankhan Rasulkhan	72	124/68	NORMAL	14.6	4800	88	0.83	29	NORMAL	NORMAL		NORMAL	NORMAL
228	Mahera Maheshkumar Ramanbhai	70	118/68	NORMAL	13.1	7700	89	0.96	31	NORMAL	NORMAL		NORMAL	NORMAL
229	Parmar Pavankumar Virbhadsrsingh	100	130/82	NORMAL	11	9600	90	0.81	25	NORMAL	NORMAL		NORMAL	NORMAL
230	Pathan Tokirkhan Yasinkhan	68	120/78	NORMAL	13.9	7200	73	0.68	20	NORMAL	NORMAL		NORMAL	NORMAL
231	Shaikh Mahamadjisan Sahidbhai	80	120/70	NORMAL	14.5	8200	79	0.75	24	NORMAL	NORMAL		NORMAL	NORMAL
232	Thakor Bhalabhai Kantibhai	80	120/80	NORMAL	14.5	8400	97	0.9	32	NORMAL	NORMAL		NORMAL	NORMAL
233	Pateliya Ishvarbhai Manilal	91	110/70	NORMAL	11.2	7900	83	0.89	30	NORMAL	NORMAL		NORMAL	NORMAL
234	Parmar Jayeshkumar Sureshbhai	80	130/70	NORMAL	13.9	4500	95	0.88	29	NORMAL	NORMAL		NORMAL	NORMAL
235	Bhoi Vishnubhai Ambalal	66	126/82	NORMAL	14.5	7500	92	0.88	23	NORMAL	NORMAL		NORMAL	NORMAL
236	Rathod Dikul Kumar	76	126/72	NORMAL	13.8	8100	80	0.77	26	NORMAL	NORMAL		NORMAL	NORMAL
237	Mahera Devabhai Balvantbhai	98	136/78	NORMAL	13	9600	81	0.7	21	NORMAL	NORMAL		NORMAL	NORMAL
238	Thakor Girishbhai	70	118/66	NORMAL	14.2	8500	79	0.84	32	NORMAL	NORMAL		NORMAL	NORMAL
239	Thakor Sanjaykumar	86	124/82	NORMAL	14.2	6500	79	0.75	23	NORMAL	NORMAL		NORMAL	NORMAL
240	Radhe Syam	80	128/78	NORMAL	14.2	8700	79	0.88	25	NORMAL	NORMAL		NORMAL	NORMAL
241	Guddu Kumar Rai	70	120/72	NORMAL	13.8	7800	83	0.73	24	NORMAL	NORMAL		NORMAL	NORMAL
242	Shankar Kumar Rai	90	138/84	NORMAL	13	9500	89	0.63	37	NORMAL	NORMAL		NORMAL	NORMAL
243	Pateliya Pravinbhai Punambhai	82	122/80	NORMAL	14	8400	98	0.81	39	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
244	Parmar Hiteshkumar Bharatsinh	74	116/72	NORMAL	14.8	8500	78	0.79	24	NORMAL	NORMAL		NORMAL	NORMAL
245	Katariya Parshotambhai Valjibhai	83	130/70	NORMAL	12.1	5900	118	1.2	27	DECREASE HEARING	NORMAL	NORMAL	NORMAL	DECREASE HEARING
246	Chauhan Ganpatbhai Bharatbhai	74	122/76	NORMAL	11.1	10500	87	0.8	24	NORMAL	NORMAL		NORMAL	NORMAL
247	Guddu Yadav	82	110/66	NORMAL	13.8	6400	79	0.7	23	NORMAL	NORMAL		NORMAL	NORMAL
248	Patel Sagarkumar Ashvinbhai	85	140/80	NORMAL	11.8	5800	84	0.79	28	NORMAL	NORMAL		NORMAL	NORMAL
249	Mahera Ajaykumar Kalabhai	82	136/80	NORMAL	13.2	8500	82	0.8	31	NORMAL	NORMAL		NORMAL	NORMAL
250	Pateliya Bhayjibhai Udesingh	68	124/80	NORMAL	15.8	4900	86	0.9	31	NORMAL	NORMAL		NORMAL	NORMAL
251	Pateliya Rajkumar Dineshbhai	80	130/80	NORMAL	11.7	7100	79	0.78	23	NORMAL	NORMAL		NORMAL	NORMAL
252	Senva Anilkumar Govindbhai	72	132/68	NORMAL	15.3	8500	91	0.87	26	NORMAL	NORMAL		NORMAL	NORMAL

SN	Name of Employee	PULSE	BLOOD PRESSURE	EYE VISION	HAEMOGL OBIN	TOTAL COUNT	RBS	S CREATININE	SGPT	AUDIOMETRY	PFT	ECG	X-ray	REMARKS
253	Parmar Lalabhai Arjunbhai	89	130/76	NORMAL	14.2	8700	92	0.69	27	NORMAL	NORMAL		NORMAL	NORMAL
254	Sagarkumar Dineshbhai Harijan	72	120/70	NORMAL	12.5	4900	94	0.82	31	NORMAL	NORMAL		NORMAL	NORMAL
255	Jay Prakash Singh	78	128/82	NORMAL	13.8	7500	95	0.85	26	NORMAL	NORMAL		NORMAL	NORMAL
256	Udabhai Raijibhai Senva	94	152/96	NORMAL	14.2	7400	92	0.93	39	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
257	Senva Sureshbhai Mangalbhai	90	128/82	NORMAL	11.9	9600	87	0.8	28	NORMAL	NORMAL		NORMAL	NORMAL
258	Bariya Arvindbhai Magabhai	70	110/66	NORMAL	14	9200	89	0.93	33	NORMAL	NORMAL		NORMAL	NORMAL
259	Govind Kumar	82	126/78	NORMAL	13.6	5300	91	0.81	22	NORMAL	NORMAL		NORMAL	NORMAL
260	Manejar Bin	84	124/80	NORMAL	12.5	5900	85	0.86	29	NORMAL	NORMAL		NORMAL	NORMAL
261	Solanki Ashishkumar Kamleshbhai	82	136/80	NORMAL	12.1	6200	78	0.82	26	NORMAL	NORMAL		NORMAL	NORMAL
262	Dhanu Kumar	70	116/64	NORMAL	14	8900	84	0.87	25	NORMAL	NORMAL		NORMAL	NORMAL
263	Balicharan Bin	104	166/96	NORMAL	12.7	6200	111	1.1	40	NORMAL	NORMAL		NORMAL	HIGH BP
264	BHASKAR DWIVEDI	94	130/68	NORMAL	11.7	8400	89	0.8	26	NORMAL	NORMAL			NORMAL



भारत सरकार
जल शक्ति मंत्रालय
जल संसाधन, नदी विकास
और गंगा संरक्षण विभाग
केन्द्रीय भूमि जल प्राधिकरण
Government of India
Ministry of Jal Shakti
Department of Water Resources,
River Development & Ganga Rejuvenation
Central Ground Water Authority

(भूजल निकासी हेतु अनापत्ति प्रमाण पत्र)

NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION

Project Name:	M/s J.k. Cement Works		
Project Address:	Survey No.1342/3,1327 ,1336,1328,1334,village : Vadadala, Taluka: Balasinor Of District :mahisagar, Gujarat		
Village:	Vadadala	Block:	Balasinor
District:	Mahisagar	State:	Gujarat
Pin Code:			
Communication Address:	Kailash Nagar, J.k Cement Works, Nimbahera, District: Chittorgarh , Rajasthan , Pin312617, Nimbahera, Chittorgarh, Rajasthan - 312617		
Address of CGWB Regional Office :	Central Ground Water Board West Central Region, Swami Narayan College, Building, Shah Alam Tolnaka, Ahmadabad, Gujarat - 380022		

1.	NOC No.:	CGWA/NOC/IND/REN/1/2021/6102													
2.	Application No.:	21-4/3637/GJ/IND/2018					3.	Category: (GWRE 2017)	Safe						
4.	Project Status:	Existing Ground Water					5.	NOC Type:	Renewal						
6.	Valid from:	28/05/2021					7.	Valid up to:	27/05/2024						
8.	Ground Water Abstraction Permitted:														
Fresh Water			Saline Water				Dewatering			Total					
m³/day		m³/year		m³/day		m³/year		m³/day		m³/year		m³/day		m³/year	
95.00		34675.00													
9.	Details of ground water abstraction /Dewatering structures														
Total Existing No.:3								Total Proposed No.:0							
		DW	DCB	BW	TW	MP	MPu	DW	DCB	BW	TW	MP	MPu		
Abstraction Structure*		1	0	0	2	0	0	0	0	0	0	0	0		
*DW- Dug Well; DCB-Dug-cum-Bore Well; BW-Bore Well; TW-Tube Well; MP-Mine Pit;MPu-Mine Pumps															
10.	Ground Water Abstraction/Restoration Charges paid (Rs.):							58862.55							
11.	Number of Piezometers(Observation wells) to be constructed/ monitored & Monitoring mechanism.					No. of Piezometers		Monitoring Mechanism							
Manual								DWLR**		DWLR With Telemetry					
						1		0		1		0			
**DWLR - Digital Water Level Recorder															

(Compliance Conditions given overleaf)

This is an auto generated document & need not to be signed.

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011

Phone: (011) 23383561 Fax: 23382051, 23386743

Website: cgwa-noc.gov.in

पानी बचाये - जीवन बचाये
SAVE WATER - SAVE LIFE

Validity of this NOC shall be subject to compliance of the following conditions:

Mandatory conditions:

- 1) Installation of tamper proof digital water flow meter with telemetry on all the abstraction structure(s) shall be mandatory for all users seeking No Objection Certificate and intimation regarding their installation shall be communicated to the CGWA within 30 days of grant of No Objection Certificate.
- 2) Proponents shall mandatorily get water flow meter calibrated from an authorized agency once in a year.
- 3) Construction of purpose-built observation wells (piezometers) for ground water level monitoring shall be mandatory as per Section 14 of Guidelines. Water level data shall be made available to CGWA through web portal. Detailed guidelines for construction of piezometers are given in Annexure-II of the guidelines.
- 4) Proponents shall monitor quality of ground water from the abstraction structure(s) once in a year. Water samples from bore wells/ tube wells / dug wells shall be collected during April/May every year and analysed in NABL accredited laboratories for basic parameters (cations and anions), heavy metals, pesticides/ organic compounds etc. Water quality data shall be made available to CGWA through the web portal.
- 5) In case of mining projects, additional key wells shall be established in consultation with the Regional Director, CGWB for ground water level monitoring four (4) times a year (January, May, August and November) in core as well as buffer zones of the mine.
- 6) In case of mining project the firm shall submit water quality report of mine discharge/ seepage from Govt. approved/ NABL accredited lab.
- 7) The firm shall report compliance of the NOC conditions online in the website (www.cgwa-noc.gov.in) within one year from the date of issue of this NOC.
- 8) Industries abstracting ground water in excess of 100 m³/d shall undertake annual water audit through certified auditors and submit audit reports within three months of completion of the same to CGWA. All such industries shall be required to reduce their ground water use by at least 20% over the next three years through appropriate means.
- 9) Application for renewal can be submitted online from 90 days before the expiry of NOC. Ground water withdrawal, if any, after expiry of NOC shall be illegal & liable for legal action as per provisions of Environment (Protection) Act, 1986.
- 10) This NOC is subject to prevailing Central/State Government rules/laws/norms or Court orders related to construction of tube well/ground water abstraction structure / recharge or conservation structure/discharge of effluents or any such matter as applicable.

General conditions:

- 11) No additional ground water abstraction and/or de-watering structures shall be constructed for this purpose without prior approval of the Central Ground Water Authority (CGWA).
- 12) The proponent shall seek prior permission from CGWA for any increase in quantum of groundwater abstraction (more than that permitted in NOC for specific period).
- 13) Proponents shall install roof top rain water harvesting in the premise as per the existing building bye laws in the premise.
- 14) The project proponent shall take all necessary measures to prevent contamination of ground water in the premises failing which the firm shall be responsible for any consequences arising thereupon.
- 15) In case of industries that are likely to contaminate the ground water, no recharge measures shall be taken up by the firm inside the plant premises. The runoff generated from the rooftop shall be stored and put to beneficial use by the firm.
- 16) Wherever feasible, requirement of water for greenbelt (horticulture) shall be met from recycled / treated waste water.
- 17) Wherever the NOC is for abstraction of saline water and the existing wells (s) is /are yielding fresh water, the same shall be sealed and new tubewell(s) tapping saline water zone shall be constructed within 3 months of the issuance of NOC. The firm shall also ensure safe disposal of saline residue, if any.
- 18) Unexpected variations in inflow of ground water into the mine pit, if any, shall be reported to the concerned Regional Director, Central Ground Water Board.
- 19) In case of violation of any NOC conditions, the applicant shall be liable to pay the penalties as per Section 16 of Guidelines.
- 20) This NOC does not absolve the proponents of their obligation / requirement to obtain other statutory and administrative clearances from appropriate authorities.
- 21) The issue of this NOC does not imply that other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would consider the project on merits and take decisions independently of the NOC.
- 22) In case of change of ownership, new owner of the industry will have to apply for incorporation of necessary changes in the No Objection Certificate with documentary proof within 60 days of taking over possession of the premises.
- 23) This NOC is being issued without any prejudice to the directions of the Hon'ble NGT/court orders in cases related to ground water or any other related matters.
- 24) Proponents, who have installed/constructed artificial recharge structures in compliance of the NOC granted to them previously and have availed rebate of upto 50% (fifty percent) in the ground water abstraction charges/ground water restoration charges, shall continue to regularly maintain artificial recharge structures.
- 25) Industries which are likely to cause ground water pollution e.g. Tanning, Slaughter Houses, Dye, Chemical/ Petrochemical, Coal washeries, pharmaceutical, other hazardous units etc. (as per CPCE list) need to undertake necessary well head protection measures to ensure prevention of ground water pollution as per Annexure III of the guidelines.
- 26) In case of new infrastructure projects having ground water abstraction of more than 20 m³/day, the firm/entity shall ensure implementation of dual water supply system in the projects.
- 27) In case of infrastructure projects, paved/parking area must be covered with interlocking/perforated tiles or other suitable measures to ensure groundwater infiltration/harvesting.
- 28) In case of coal and other base metal mining projects, the project proponent shall use the advance dewatering technology (by construction of series of dewatering abstraction structures) to avoid contamination of surface water.
- 29) The NOC issued is conditional subject to the conditions mentioned in the Public notice dated 27.01.2021 failing which penalty/EC/cancellation of NOC shall be imposed as the case may be.
- 30) This NOC is issued subject to the clearance of Expert Appraisal Committee (EAC) (if applicable).

(Non-compliance of the conditions mentioned above is likely to result in the cancellation of NOC and legal action against the proponent.)



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 : 6005/06/2023-24

Date : 20/06/2023

Work Order No : 4600087592

Job Card No. : JK/2023-24/02

Name of company : JK Cement Limited.

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

Ta.: Balasinor, Dist.: Mahisagar

Attention : Mr. Naresh Meghwal

Date of Sample Receipt : 12/06/2023

Date & Time of Sampling : 10/06/2023 at 10.30 Hrs.

Lab ID : WW/23-24/06/13

Date of Testing : 13th to 17th June 2023

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

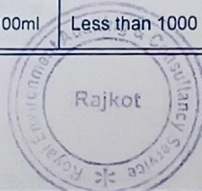
Location of Sample : STP Plant - Treated Sewage Water

Sr. No.	Parameters	Unit	Permissible Limits as per GPCB*	Results	Test Method
01.	pH	—	6.5-9.0	7.89	IS 3025 : Part 11
02	Total Suspended Solids	mg/l	Less than 100	22	IS 3025 : Part 17
03	BOD (3 days at 27 c)	mg/l	30.0	22.6	IS 3025 : Part 44
04.	Fecal Coliform (FC)	MPN/100ml	Less than 1000	16	APHA

* Permissible Limits are as per GPCB CC&A

N.A =Not Applicable

Authorized Signatory



Tested by

* End of Report *

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2 The results relate only to the item tested

Doc. No. F/7 B/03, Issue No. 01, Issue Date : 01-01-22, Ammd No 01, Ammd Date : 23/05/2022

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

TEST REPORT (WASTE WATER)

Test Report No : 3004/06/2023-24

Date : 20/06/2023

Work Order No : 4600087592

Job Card No. : JK/2023-24/02

Name of company : JK Cement Limited.

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

Ta. : Balasinor, Dist. : Mahisagar

Attention : Mr. Sanjeev Kumar Singh

Date of Sample Receipt : 12/06/2023

Date & Time of Sampling : 10/06/2023 at 10.30 Hrs.

Lab ID : WW/23-24/06/12

Date of Testing : 13th to 17th June 2023

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	---	---	8.24	IS 3025 : Part 11
02.	Total Suspended Solids	mg/l	---	138	IS 3025 : Part 17
03.	BOD (3 days at 27 c)	mg/l	---	60	IS 3025 : Part 44
04.	Fecal Coliform (FC)	MPN/100ml	---	N.A.	APHA

* Permissible Limits are as per GPCB CC&A

N.A = Not Applicable

Authorized Signatory



Tested by

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Environment Auditing & Consultancy Service

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

Ref. No. :3001/06/2023-24

Date : 20/06/2023

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

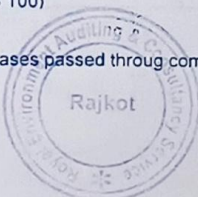
Sr. No.	Particulars	Unit	Stack No. 2	Stack No. 1
01.	Date of sampling	---	10/06/2023	10/06/2023
02.	Time of sampling	Hr	10:45	12:00
03.	Stack Attached to #	---	Packer No. 1	Cement Mill
04.	Air Pollution Control Measures	---	Bag Filter	Bag House
05.	Stack Height	Meter	36.0	39
06.	Stack Diameter	Meter	1.10	1.5
08.	Stack Temperature	°C	39	92
09.	Ambient Temperature	°C	31	31
10.	Average Velocity of Flue Gases	M/Sec.	7.3	7.6
11.	Isokinetic flow rate for P.M. Sampling	LPM	14	17
12.	Permissible Limit for P.M.*	mg/Nm ³	150	150
13.	Measured Concentration of P.M.	mg/Nm ³	11.23	16.82
14.	Opacity Meter reading during monitoring	mg/Nm ³	11.45	17.16
15.	Measured Concentration of SO ₂	mg/Nm ³	21.23	23.2
16.	Measured Concentration of Nox	mg/Nm ³	4.9	5.8

Instruments used : Ecotech make Stack Sampler (ESS 100)

* Permissible Limits are as per GPCB CC&A

Calibration done on : 26/12/2022

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



Royal Environment Auditing & Consultancy Service

Analyst



Royal

Environment Auditing & Consultancy Service

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

Ref. No. :3003/06/2023-24

Date : 20/06/2023

REPORT OF STACK EMISSION ANALYSIS

Name of company : JK Cement Limited.

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

Vill.: Vadadala,

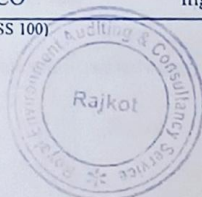
Ta.: Balasinor, Dist.: Mahisagar

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

Sr. No.	Particulars	Unit	Stack No. 4
01.	Date of sampling	---	10.06.2023
02.	Time of sampling	Hr	14:00
03.	Stack Attached to	---	D.G.Set 400 KVA
05.	Stack Height	Meter	11
06.	Stack Diameter	Meter	---
07.	Stack Temperature	°C	118
08.	Ambient Temperature	°C	32
09.	Average Velocity of Flue Gases	M/Sec.	7.6
10.	Isokinetic flow rate for P.M. Sampling	LPM	18
11.	Gaseous Sampling Flow Rate	LPM	2.0
12.	Permissible Limit for P.M. *	mg/Nm3	150
13.	Measured Concentration of P.M.	mg/Nm3	24.3
14.	Permissible Limit for SO2 *	mg/Nm3	100
15.	Measured Concentration of SO2	mg/Nm3	30.2
16.	Permissible Limit for NOx *	mg/Nm3	50
17.	Measured Concentration of NOx	mg/Nm3	6.2
18.	Measured Concentration of CO	mg/Nm3	22.8

Instruments used : Ecotech make Stack Sampler (ESS 100)

Calibration done on : 26/12/2022



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

Ref No. : 502/09/2023-24

Date : 06/10/2023

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	---	30/09/2023
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	85
09.	Ambient Temperature	°C	31
10.	Average Velocity of Flue Gases	M/Sec.	7.2
11.	Isokinetic flow rate for P.M. Sampling	LPM	30
12.	Permissible Limit for P.M.*	mg/Nm ³	150
13.	Measured Concentration of P.M.	mg/Nm ³	6.12
14.	Opacity Meter reading during monitoring	mg/Nm ³	6.24
15.	Measured Concentration of SO ₂	mg/Nm ³	21.2
16.	Measured Concentration of Nox	mg/Nm ³	6.2

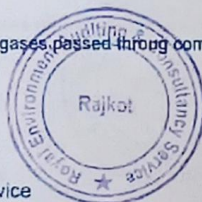
Instruments used : Ecotech make Stack Sampler (ESS 100)

* Permissible Limits are as per GPCB CC&A

Calibration done on : 26/12/2022

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

Royal Environment Auditing & Consultancy Service



Analyst



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

Ref. No. : 501/09/2023-24

Date : 06/10/2023

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	---	30/09/2023
02.	Time of sampling	Hr	11:30
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	51
09.	Ambient Temperature	° C	30
10.	Average Velocity of Flue Gases	M/Sec.	7.1
11.	Isokinetic flow rate for P.M. Sampling	LPM	28
12.	Permissible Limit for P.M.*	mg/Nm ³	150
13.	Measured Concentration of P.M.	mg/Nm ³	4.12
15.	Measured Concentration of SO ₂	mg/Nm ³	18.21
16.	Measured Concentration of Nox	mg/Nm ³	5.2

Instruments used : Ecotech make Stack Sampler (ESS 100)

* Permissible Limits are as per GPCB CC&A

Calibration done on : 26/12/2022

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

Royal Environment Auditing & Consultancy Service



Analyst
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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. : 504/09/2023-24

Date : 06/10/2023

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	---	30.09.2023
02.	Time of sampling	Hr	15:00
03.	Stack Attached to	---	D.G.Set 400 KVA
05.	Stack Height	Meter	11
06.	Stack Diameter	Meter	---
07.	Stack Temperature	°C	121
08.	Ambient Temperature	°C	31
09.	Average Velocity of Flue Gases	M/Sec.	7.1
10.	Isokinetic flow rate for P.M. Sampling	LPM	19
11.	Gaseous Sampling Flow Rate	LPM	2.0
12.	Permissible Limit for P.M. *	mg/Nm3	150
13.	Measured Concentration of P.M	mg/Nm3	26.1
14.	Permissible Limit for SO2 *	ppm	100
15.	Measured Concentration of SO2	ppm	31.2
16.	Permissible Limit for NOx *	ppm	50
17.	Measured Concentration of NOx	ppm	7.5
18.	Measured Concentration of CO	mg/Nm3	23.1

Instruments used : Ecotech make Stack Sampler (ESS 100)

Calibration done on : 26/12/2022



Royal Environment Auditing & Consultancy Service

Chand
Analyst

J.K.CEMENT WORKS, BALASINOR
BALASINOR- AHMEDABAD INDORE ROAD, VILLAGE- VADADALA, TEH. BALASINOR, MAHISAGAR (G.J.)
PARTICULATE MATTER EMISSION MONITORING REPORT OF PACKER STACK-2

HALF YEARLY REPORT (April/23 to Sep 2023)										
Month	Date	Name of Stack	Cross Sectional Area of duct (in M ²)	Stack Gases Temp. (in °K)	Gases Velocity (in M / Sec.)	Flow of gases (in NM ³ /Sec.)	Duration of sampling (in Min.)	Dust Conc. (Mg/NM ³)	Mean Dust Conc. (in Mg/NM ³)	Emission (in Ts/Day)
Apr-23	07.04.2023	Packer	0.95	304	7.67	7.14	40.00	8.3	7.8	0.005
	13.04.2023		0.95	305	7.24	6.72	40.00	5.0		0.003
	24.04.2023		0.95	303	6.94	6.48	40.00	9.6		0.005
	31.04.2023		0.95	305	7.33	6.80	40.00	8.4		0.005
May-23	05.05.2023	Packer	0.95	307	6.70	6.18	40.00	8.7	7.6	0.005
	12.05.2023		0.95	308	7.09	6.52	40.00	8.3		0.005
	19.05.2023		0.95	306	7.34	6.79	40.00	5.5		0.003
	28.05.2023		0.95	308	7.34	6.79	40.00	7.8		0.005
Jun-23	03.06.2023	Packer	0.95	305	7.05	6.54	40.00	8.9	7.9	0.005
	16.06.2023		0.95	306	7.33	6.78	40.00	6.7		0.004
	21.06.2023		0.95	304	7.22	6.72	40.00	7.8		0.005
	29.06.2023		0.95	304	7.15	6.66	40.00	8.3		0.005
Jul-23	04.07.2023	Packer	0.95	301	7.63	7.18	40.00	8.2	7.7	0.005
	13.07.2023		0.95	300	7.18	6.78	40.00	4.8		0.003
	22.07.2023		0.95	301	6.92	6.51	40.00	9.4		0.005
	28.07.2023		0.95	301	7.28	6.85	40.00	8.3		0.005
Aug-23	08.08.2023	Packer	0.95	307	6.70	6.18	40.00	8.7	7.5	0.005
	13.08.2023		0.95	308	7.09	6.52	40.00	8.1		0.005
	20.08.2023		0.95	306	7.34	6.79	40.00	5.3		0.003
	25.08.2023		0.95	308	7.34	6.79	40.00	7.8		0.005
Sep-23	04.09.2023	Packer	0.95	305	7.01	6.51	40.00	9.2	8.1	0.005
	11.09.2023		0.95	306	7.27	6.73	40.00	6.9		0.004
	19.09.2023		0.95	304	7.19	6.70	40.00	7.8		0.005
	28.09.2023		0.95	304	7.10	6.61	40.00	8.3		0.005

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Reviewed by

J.K.CEMENT WORKS, BALASINOR
BALASINOR- AHMEDABAD INDORE ROAD, VILLAGE- VADADALA, TEH, BALASINOR, MAHISAGAR (G.J.)
PARTICULATE MATTER EMISSION MONITORING REPORT OF PACKER/TRANSPORT LINE STACK-3

HALF YEARLY REPORT(April'23 to Sep 2023)										
Month	Date	Name of Stack	Cross Sectional Area of duct (in M2)	Stack Gases Temp. (in ° K)	Gases Velocity (in M / Sec.)	Flow of gases (in NM3/Sec.)	Duration of sampling (in Min.)	Dust Conc. (Mg/NM3)	Mean Dust Conc. (in Mg/NM3)	Emission (in Ts/Day)
Apr-23	07.04.2023	Transport Line Packer	0.44	304	7.05	3.04	40.00	7.9	7.7	0.002
	13.04.2023		0.44	303	7.31	3.16	40.00	6.8		0.002
	24.04.2023		0.44	303	7.03	3.04	40.00	8.3		0.002
	31.04.2023		0.44	304	7.41	3.20	40.00	7.8		0.002
May-23	05.05.2023	Transport Line Packer	0.44	307	6.50	2.78	40.00	6.9	7.9	0.002
	12.05.2023		0.44	308	6.71	2.86	40.00	8.8		0.002
	19.05.2023		0.44	306	7.16	3.07	40.00	7.1		0.002
	28.05.2023		0.44	308	7.09	2.87	40.00	8.8		0.002
Jun-23	03.06.2023	Transport Line Packer	0.44	305	6.64	3.03	40.00	7.9	7.8	0.003
	16.06.2023		0.44	305	6.88	3.10	40.00	8.5		0.003
	21.06.2023		0.44	304	6.48	3.08	40.00	7.8		0.003
	29.06.2023		0.44	305	6.62	3.15	40.00	6.9		0.002
Jul-23	04.07.2023	Transport Line Packer	0.44	301	7.01	3.05	40.00	7.8	7.6	0.002
	13.07.2023		0.44	300	7.27	3.18	40.00	6.7		0.002
	22.07.2023		0.44	301	7.01	3.05	40.00	8.2		0.002
	28.07.2023		0.44	301	7.37	3.21	40.00	7.8		0.002
Aug-23	08.08.2023	Transport Line Packer	0.44	307	6.50	2.78	40.00	6.7	7.4	0.002
	13.08.2023		0.44	308	6.71	2.86	40.00	8.2		0.002
	20.08.2023		0.44	306	7.16	3.07	40.00	7.1		0.002
	25.08.2023		0.44	308	7.09	2.87	40.00	7.4		0.002
Sep-23	04.09.2023	Transport Line Packer	0.44	305	6.64	3.03	40.00	7.9	7.8	0.003
	11.09.2023		0.44	305	6.88	3.10	40.00	8.5		0.003
	19.09.2023		0.44	304	6.48	3.08	40.00	7.8		0.003
	28.09.2023		0.44	305	6.62	3.15	40.00	6.9		0.002

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Reviewed by

J.K.CEMENT WORKS, BALASINOR
BALASINOR- AHMEDABAD INDORE ROAD, VILLAGE- VADADALA, TEH. BALASINOR, MAHISAGAR (G.J.)
PARTICULATE MATTER EMISSION MONITORING REPORT OF CEMENT MILL STACK-1 (STACK EMISSION)

HALF YEARLY REPORT (April'23 to Sep. 2023)

Month	Date	Name of Stack	Cross Sectional Area of duct (in M ²)	Stack Gases Temp. (in ° K)	Gases Velocity (in M / Sec.)	Flow of gases (in NM3/Sec.)	Duration of sampling (in Min.)	Dust Conc. (Mg/NM3)	Mean Dust Conc. (in Mg/NM3)	Emission (in Ts/Day)
Apr-23	07.04.2023	CEMENT MILL	1.77	372	9.96	14.12	30.00	5.7	6.3	0.007
	14.04.2023		1.77	369	10.38	14.84	30.00	6.8		0.009
	21.04.2023		1.77	372	9.55	13.54	28.00	5.5		0.006
May-23	28.04.2023	CEMENT MILL	1.77	370	9.77	13.93	30.00	7.2	6.7	0.009
	06.05.2023		1.77	351	13.00	19.54	40.00	7.9		0.013
	13.05.2023		1.77	347	13.38	20.34	40.00	6.1		0.011
	20.05.2023		1.77	348	13.73	20.81	40.00	4.8		0.009
	27.05.2023		1.77	371	9.75	13.60	40.00	7.9		0.008
Jun-23	08.06.2023	CEMENT MILL	1.77	371	9.63	13.69	30.00	4.8	4.5	0.006
	15.06.2023		1.77	370	9.84	14.03	30.00	4.1		0.005
	17.06.2023		1.77	370	10.11	14.41	28.00	1.1		0.001
	29.06.2023		1.77	370	9.60	13.69	30.00	8.0		0.009
Jul-23	07.07.2023	CEMENT MILL	0.95	302	7.64	7.16	40.00	5.1	5.4	0.003
	14.07.2023		0.95	300	7.18	6.78	40.00	7.2		0.004
	21.07.2023		0.95	301	6.92	6.51	40.00	4.3		0.002
	28.07.2023		0.95	304	7.32	6.82	40.00	4.9		0.003
Aug-23	07.08.2023	CEMENT MILL	0.95	307	6.70	6.18	40.00	8.7	7.5	0.005
	14.08.2023		0.95	308	7.09	6.52	40.00	8.1		0.005
	21.08.2023		0.95	306	7.34	6.79	40.00	5.3		0.003
	27.08.2023		0.95	308	7.34	6.79	40.00	7.8		0.005
Sep-23	08.09.2023	CEMENT MILL	0.95	305	7.02	6.52	40.00	7.8	4.7	0.004
	15.09.2023		0.95	306	7.27	6.73	40.00	5.7		0.003
	17.09.2023		0.95	304	7.19	6.70	40.00	4.2		0.002
	30.09.2023		0.95	304	7.14	6.65	40.00	1.2		0.001

virendra
Reviewed by



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 ³
2.	Hot Air Generator (Coal/ Agro waste/bio mass based)	30m	Bag House	SO ₂ NO _x	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 _x + 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)):

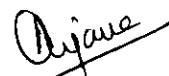
- 3.1 Condition no. 1.3 of consent order no. H-117888 shall be amended as under:
- 3.2 Number of authorization and date of issue: **AH-128013**, Date of issue: **28/07/2023**.
- 3.3 **M/s J K Cement Limited (ID: 69109)**, is hereby granted an authorization to operate facility for following hazardous 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



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.

1. Consent Order No. **AWH-109494**, Date of issue : **28/09/2020**
2. 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 ³
2.	D.G.Set (500 KVA)	11 meter	---	SO ₂ NO _x	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 ³
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 ₁₀]	60 µg/M ³	100 µg/M ³
Particulate matter-2.5[PM _{2.5}]	40 µg/M ³	60 µg/M ³
Sulphur Dioxide	50 µg/M ³	80 µg/M ³
Oxides of Nitrogen	40 µg/M ³	80 µg/M ³

- 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 14th 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 30th for the period ensuring 31st 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_x burners may be provided to avoid excessive formulation of NO_x. Only LSHS will be used as fuel during the critical months to ensure that SO₂ 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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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



Royal

Environment Auditing & Consultancy Service

Plot No. 19 & 20, B/6, The North Star Nest School, Maeoom School Road, Mota Mava, RAJKOT - 360 005.
Ph.: +91 9099919954 ■ E-mail : royalenviroment@live.com ■ admin@royalconsultancy.com

Ref. No. :309/06/2023-24

Date : 20/06/2023

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 6:00 AM - 10:00 PM	Night Time 10:00 PM - 6:00 AM
01.	Sampling Time		
02.	Date of sampling	10/06/2023	10/06/2023
03.	Prescribed Limits	75	70
	LOCATIONS		
01.	Nr. STP Plant Boundary Towards, Eastern Boundary	68.7	57.5
02.	Nr. Project Office (Plant Boundary), North Direction	62.3	53.9
	Nr. Sec. Tower (Plant Boundary), South Direction	64.8	56.2
04.	Nr. Rest Shelter	63.5	55.1

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 : 04/03/2023



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

Ref. No. : 510/09/2023-24

Date :06/10/2023

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 6:00 AM - 10:00 PM	Night Time 10:00 PM - 6:00 AM
01.	Sampling Time		
02.	Date of sampling	30/09/2023	30/09/2023
03.	Prescribed Limits	75	70
	LOCATIONS		
01.	Nr. STP Plant Boundary Towards, Eastern Boundary	69.2	54.2
02.	Nr. Project Office (Plant Boundary), North Direction	63.2	52.3
	Nr. Sec. Tower (Plant Boundary), South Direction	66.2	57.2
04.	Nr. Rest Shelter	64.2	56.3

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 :04/03/2023




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

Ref. No. : 511/09/2023-24

Date :06/10/2023

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 : 30/09/2023

Sr. No.	Location of Sampling	Results Avg. in dB(A)
Permissible Limit for 8:00 Hrs.		90.0 dB
01.	COMPRESSOR ROOM AREA	72.1
02.	CEMENT MILL AREA	68.2
03.	UNLOADING AREA	70.1
04.	PACKING PLANT AREA	66.2

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

Calibration Done on : 04/03/2023

Royal Environment Auditing & Consultancy Service



Chand
Analyst

J.K.CEMENT WORKS BALASINOR,							
WORK ZONE NOISE LEVEL MONITORING DATA							
Sr.No.	Month	Day / Night	COMPRESSOR ROOM AREA	CEMENT MILL AREA	UNLOADING AREA	PACKING PLANT AREA	Near DG set
1	01-Apr-23	Day	78.00	74.00	70.00	70.00	62
2	01-May-23	Day	76.00	78.00	72.00	74.00	61
3	01-Jun-23	Day	76.00	76.00	68.00	71.00	62
4	01-Jul-23	Day	74.00	72.00	68.00	71.00	61
5	01-Aug-23	Day	78.00	76.00	72.00	72.00	62
6	01-Sep-23	Day	76.00	74.00	70.00	71.00	63
Average		Day	76	75	70	72	-

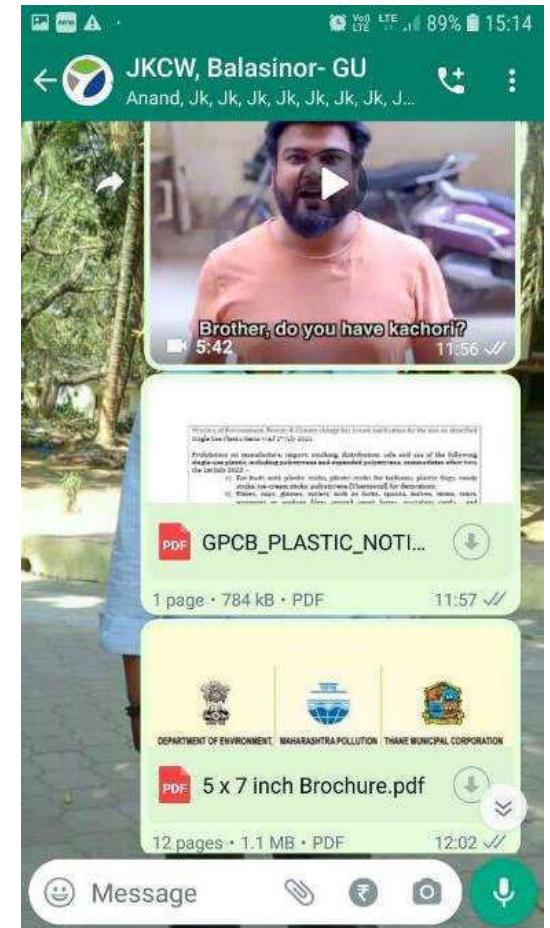

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Reviewed by

J.K.CEMENT WORKS BALASINOR , Village: Vadadala, Tehsil: Balasinor, District: Mahisagar (Gujarat)				
AMBIENT NOISE LEVEL MONITORING DATA				
Month	Day / Night	NEAR STP PLANT BOUNDARY TOWARDS EAST DIRECTION	NEAR PROJECT OFFICE PLANT BOUNDARY TOWARDS NORTH DIRECTION	NEAR SECURITY TOWER PLANT BOUNDARY TOWARDS SOUTH DIRECTION
Apr-23	Day dB(A)	61	64	60
	Night dB(A)	51	54	51
May-23	Day dB(A)	62	63	61
	Night dB(A)	52	53	50
Jun-23	Day dB(A)	62	61	60
	Night dB(A)	52	54	52
Jul-23	Day dB(A)	61	63	61
	Night dB(A)	51	54	52
Aug-23	Day dB(A)	62	63	60
	Night dB(A)	52	52	52
Sep-23	Day dB(A)	60	63	60
	Night dB(A)	53	54	51
Average	Day dB(A)	61	63	60
	Night dB(A)	52	54	51



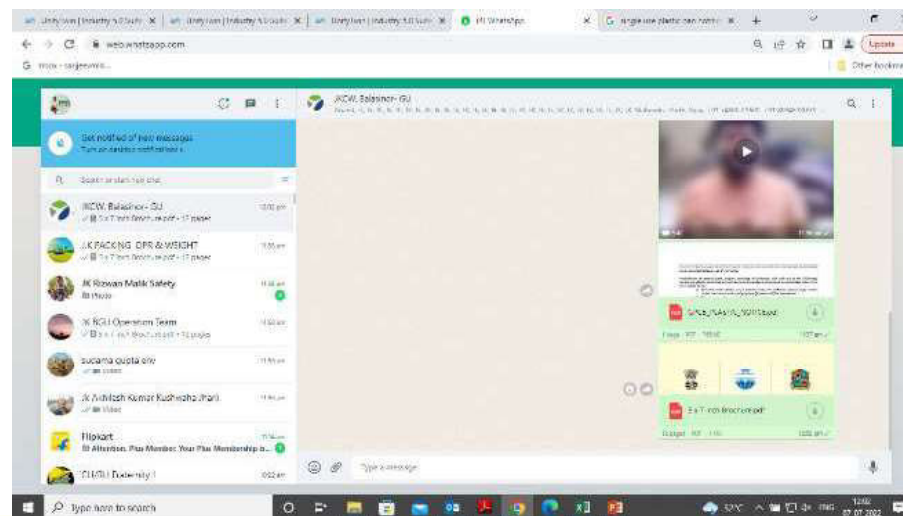
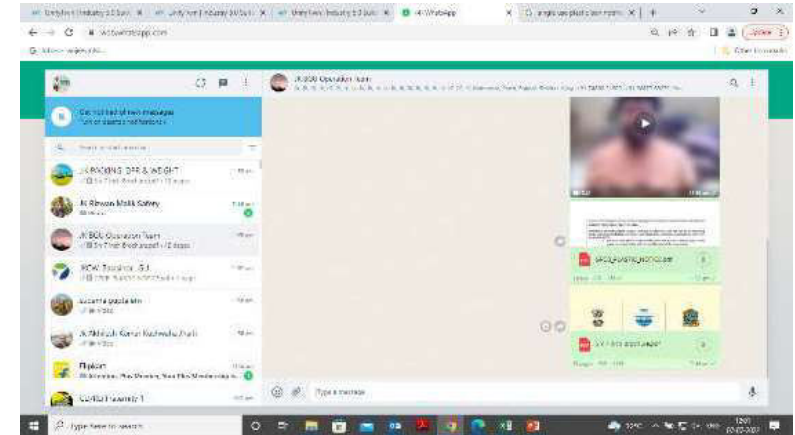
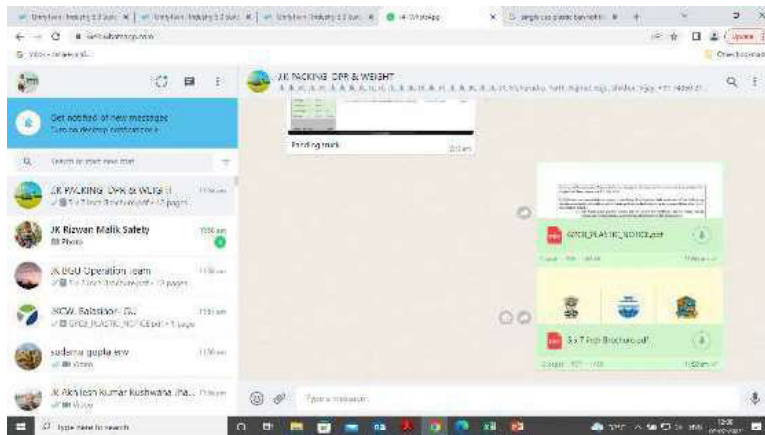
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SUP BAN – All WhatsApp Group Communication





Shared in all WhatsApp group





Posters displayed in Plant



CCR Office area



BRU RO shed



CCR Cafeteria



Canteen



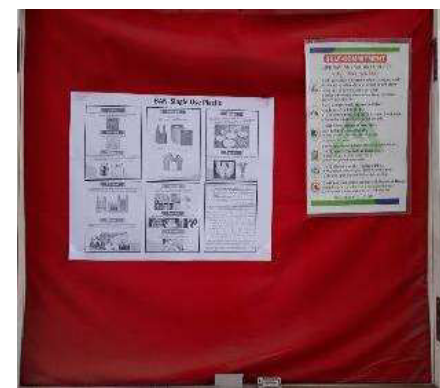
Out Gate



Logistic Office



Material Gate



CCR Notice Board



Banner Display

