

No. JK-MIU/ENV/2025-26/93/153

Date – 25-11-2025

To
The Deputy Director,
Ministry of Environment, Forest Climate Change (MoEFCC)
Govt. of India, Indira Paryavaran Bhavan,
New Delhi- 110 003

Sub: Half Yearly Environmental Clearance Compliance report for the period of April - 2025 to September-2025 (1st Half) for Halki Limestone Mine of M/S JK Cement Ltd at Village- Halki, Taluka- Mudhol, District- Bagalkot (Karnataka).

Ref: EC. No: J-11015/384/2006-1A. II(M), dtd.21-01-2008.

Dear Sir,

With reference to aforesaid subject and reference matter, we are hereby submitting the enclosed pointwise environmental clearance compliance report for the period from April - 2025 to September-2025 (1st Half) of Halki Limestone Mine of M/S JK Cement Ltd (Limestone production of 2 MTPA) at Village-Halki, Taluka-Mudhol, District-Bagalkot, Karnataka.

This for your kind perusal and acknowledge the receipt

Thanking you

Yours faithfully

For Halki Limestone Mine
(Unit: JK Cement Ltd)



Prabhat Singh Parihar
(Unit Head)

Corporate Office

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Enclosures: As above

Cc

- 1- The Addl. Principal Chief Conservator of Forest (C), Ministry of Environment & Forest, Regional Office (South Zone), Koramangala, Bangalore.
- 2- Chairman, Central Pollution Control Board, Parivesh Bhavan, East Arjun Nagar, New Delhi
- 3- Scientist 'D' & Incharge, Central Pollution Control Board, 1st & 2nd Floors, Nisarga Bhavan, A-Block, Thimmaiah, Main Road, 7thD Cross, Shivanagar, Opp. Pushpanjali Theatre, Bengaluru
- 4- Member Secretary, Karnataka Pollution Control Board, Church Street, Bangalore
- 5- The Environmental officer, Karnataka State Pollution Control Board, Bagalkot – 587102

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Halki Limestone Mine(2344(A), Village- Halki, Taluk- Mudhol, Dist.- Bagalkot, KarnatakaMoEF Letter No. J-11015/384/2006-1A. II(M) /dated. 21st January 2008

EC Compliance Report of Halki Limestone Mine (ML area 124.24 ha & 2.0 MTPA of limestone Production) of M/s J.K Cement Ltd., at village Halki, in Mudhol Taluk, Bagalkot, Dist. (Karnataka) for the Period **April 2025 to September 2025**

S.No	Condition	Compliance status
A.	Specific Conditions	
i)	Land use patterns of nearby villages shall be studied and action plan for abatement and compensation for damage to agriculture land /common property land as applicable due to mining activity shall be submitted to the Regional office of the Ministry within six months. Annual status of implementation of the plan and expenditure thereon shall be reported to the regional office of the ministry.	Compiled. It has been studied with the EIA which was submitted to the concerned authority. Mining is being done as per IBM approved modified mining Plan so there is no damage to agriculture land /common property. Environmental expenditure is attached as Annexure-6
ii)	Need based assessment for the nearby villages shall be conducted to study economic measures which can help in upliftment of poor section of society such as development of fodder farm, fruit orchard, vocational training etc. Year wise allocation of funds for implementation of these economic measures shall be reported to the regional office of the ministry within six months.	Complying, surrounding village people are sustaining their livelihood in this project. The literacy rate and living standards were enhanced due to increased earning capacity of villagers, better medical facilities, transportation and communication facilities. For socio economic development we have allocated funds to the nearby villagers. A copy of CSR expenditures enclosed as Annexure-7 .
iii)	A no mining zone barrier of 50 m from the canal passing through the lease areas on both sides shall be demarcated and the area shall be afforested with thick species of native vegetation.	Compiled. The mining zone barrier of 50 m from the channel passing through the lease areas on both sides has been demarcated and afforested with local species like Neem, Tapasi, and Gulmohar. It is also planned to shift the canal outside the lease area.
iv)	Recommendations of NEERI, Nagpur, as mentioned in their report on status of Environment – “Action plan ” for the State of Karnataka, as applicable to this project, shall be reported to the Regional office of the Ministry.	Not Applicable. As per the email communication, dated 15.12.2009 with NEERI director, NEERI has not prepared any report on status of Environment- “Action plan” for state of Karnataka.
v)	Conservation plan for wild life shall be prepared in consultation of with the Chief wild life warden and shall be implemented within six months. Necessary allocation of fund for implementation of the same and the status of implementation of the plan shall be reported to the regional office of the Ministry.	Not Applicable. As there is no forest area nearby mining lease, however we had applied to forest department on 25.08.2007. Branch forest office, Lokapur had inspected the site on 27.08.2007 and submitted a letter to zonal forest office, Mudhol on 28.08.2007 and zonal forest office Mudhol had submitted report to Deputy conservator of forest, Bagalkot Division, Bagalkot on dated 28.08.2007, detailed report states that there is no schedule- 1 Species

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		available in 10 KM radius area, hence conservation plan for wildlife is not applicable.
vi)	Measures for control and preventions of soil erosion and management of silt shall be prepared and submitted to the Regional office of the ministry within six months	Compiled. Soil erosion control measures have been mentioned in EIA which is already submitted to MOEF.
vii)	Water quality both for surface as well as ground water in the core zone shall be regularly monitored for contamination due to mining activity and records maintained. In case contamination is observed, measures for control and action taken shall be reported to the State Government as well as the Regional Office of the Ministry within six months.	Complying. Water quality is being monitored regularly and no contamination is observed. Water quality reports of surface (mine pit) as well as ground water in the core zone is attached as Annexure-5
viii)	Water bodies shall be developed and utilized to develop Pisciculture. Fishermen cooperative society shall be established with the land losers (if any) and specially the poorer section as members of society. Initial financial assistance either in the form of shared money or other wise and managerial assistance shall be provided so that the members themselves can run the affairs of the society in due course. The project proponent shall arrange marketing tie up so that the society gets fair price of their produce and the profits are equitably shared by the members of the society as regular source of income.	Noted. During final closure of mine, Mining pit will be developed as water body and to be utilized to develop Pisciculture.
ix)	Action taken report on issues raised during the public hearing shall be submitted to the Ministry and the State Governments within six months.	Complied and it has been submitted.
x)	Occupational health and safety measures for the workers including training on malaria eradication, HIV, health effects on exposure to mineral dust etc. shall be carried out. The company shall engage a full-time doctor who is trained in occupational health surveillance. Records of the health of the workers shall be maintained.	Complying. Initial and periodical medical examinations of all mine workers are being done on regular basis as required under Mine Rule 1955 and training on various medical aspects are being imparted. The company has engaged fulltime doctor who is trained in Occupational health surveillance. Records are being maintained.
xi)	Top soil/solid waste (if any) shall be stacked properly with proper slope and adequate safe guards and shall back filled for reclamation and rehabilitation of the mined area	Complying. Top soil is being utilized for plantation and solid waste is being stacked properly with proper slope and adequate safe guards have been provided.

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xii)	Over burden if any shall be stacked at earmarked dump site(s) only and shall not be kept active for long period. The maximum height of the dump shall not be exceed 30m, each stage shall preferably be of 10m and overall slope of the dump shall not exceeded 28°. The OB dump shall be backfilled. The OB scientifically vegetated with suitable native species to prevent erosion and surface run off. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self –sustaining. Compliance status shall be submitted to the Ministry of Environment Forests on six monthly bases.	Complying. Over burden is being stacked at earmarked dump site as planned in mining plan. Presently, dumps are active. After completion of dumps, planation will be done. Presently dump height is 18 meters with two stages and overall slope is maintained less than 28°. The OB dump is being scientifically vegetated with suitable native species to prevent erosion and surface run off. Compliance report is being submitted to the Ministry of Environment and Forest on six monthly basis.
xiii)	Garland drains shall be constructed to arrest silt and sediment flows from soil, and mineral dumps. The water so collected shall be utilized for watering the mine areas, roads, green belt development etc. The drains shall be regularly de-silted particularly after monsoon and maintained properly. Garland drain of appropriate size, gradient and length shall be designed keeping 50% safety margin over and above peak sudden rain fall (based on 50 years' data) and maximum discharge in the area adjoining the mine site. Sump capacity will also provide adequate retention period to allow proper settling of silt materials. Sedimentation pits shall be constructed at the corners of the garland drains and desilted at regular intervals. Check dams and gully checks shall be constructed across nallahs (if any) flowing through the lease area.	Complying. Garland drains have been made around dumps and pit. The collected water in the pit is being used for green belt development and spraying on haul roads for controlling fugitive dust emission. There is no nallah within the lease area.
xiv)	Slope of mining bench and ultimate pit limit shall be as per the mining scheme approved by Indian Bureau of mines.	Complying. Slope of mining bench and ultimate pit limit are followed as per the mining plan approved by Indian Bureau of mines.
xv)	Green Belt Development shall be carried out considering CPCB guidelines including selection of plan species and in consultation with DFO. Herbs, shrubs shall also form a part of a forestation programme besides tree plantation. Plantation shall be raised in 22.0 ha around the ML area, haul roads, OB dump sites etc. the density of the trees shall be not	Complying. Green Belt Development is being done with native species and in consultation with DFO as committed in the Mining plan.

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	less than 2500 plants per ha. The company shall involve local people with the help of self-help group for plantation programme.	
xvi)	Details of the year wise afforestation programme already under take as well as proposed to be taken of including rehabilitation of mined out areas shall be submitted to the Ministry within six months.	Compiled. Details of the year wise afforestation programme are already submitted to MoEF and plantation is being done as per mining plan.
xvii)	The project authority shall implement suitable conservation measures to augment ground water resource in the areas in consultation with the Regional Director, Central Ground Water Board. Status of implementation shall be reported to the regional office of the Ministry from time to time.	Complying. Surface/rain water harvested in the pit recharges ground water as water percolates downwards due to inclined strata.
xviii)	Prior permission from the competent authority shall be obtained for extraction of ground water, if any.	Compiled. Prior permission taken from Karnataka Ground water authority for extraction of ground water.
xix)	Drilling and blasting (if any) shall be conducted by using dust extractors/ wet drilling.	Complying. Wet drilling is being followed.
xx)	Vehicles used for transportation of ores and other mining operation shall have valid permission as prescribed under Central Motor Vehicles rules,1989 and its amendments. Transporting of ores shall be done covered with a tarpaulin or other suitable enclosures so that no dust particles /fine matter escape during the course of transportation. No overloading of ores for transportation shall be undertaken.	Complying. Vehicles used for transportation of ores and other mining operations have valid permission as prescribed under Central Motor Vehicles rules,1989 and its amendments. It is ensured that no spillage occurs during transportation.
xxi)	Village roads through which transportation of ores are being carried out shall be regularly maintained by the company at its own expenses.	Complying. Village roads through which transportation is being carried out is regularly maintained by the company at its own expenses.
xxii)	A final mine closure plan, along with details of corpus funds, shall be submitted to the Ministry of Environments &Forests within six months, in advance of final mine closure for approval.	Noted.
B	General Condition:	
i)	No change in mining technology and scope of working shall be made without prior approval of Ministry of Environment& Forests.	Agreed.

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ii)	No change in calendar plan including excavation, quantum of mineral, limestone and waste shall be made.	Agreed.
iii)	Four Ambient Air Quality – monitoring station shall be established in the core zone as well as in the buffer zone for RPM, SPM, SO ₂ , NO _X monitoring. Location of the stations should be decided based on the metrological data, Topographical features and Environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board.	Compiled. Four Ambient Air Quality monitoring stations have been established in the core and buffer zone.
iv)	Data on Ambient Air Quality (RSPM, SPM, SO ₂ , and NO _X) should be regularly submitted to the Ministry including its Regional Office located at Bangalore and the State Pollution Control Board/Central Pollution Control Boards once in six months.	Complying. Ambient air quality data is being submitted regularly to MoEF, Bangalore and SPCB/CPCB. AAQM data is attached as Annexure-2 .
v)	Fugitive dust emissions from all the sources shall be controlled regularly. Water spraying arrangements on haul roads, loading and unloading and at transfer points shall be provided and properly maintained.	Complying. Water is sprayed on the haul roads, loading and unloading points by tankers. Fugitive Dust emission reports enclosed as Annexure-3 .
vi)	Measures shall be taken for control of noise level below 85 dBA in the work environments. Workers engaged in operations of HEMM, etc shall be provided with ear plugs/ muffs.	Complying earplugs/ muffs have been provided. Noise Monitoring report enclosed as Annexure-4 .
Vii)	Industrial waste water (Works shop and waste water from the mine should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December 1993 or as amended from time to time. Oil and Grease trap shall be installed before discharge of effluents.	Not applicable, there is no workshop in the mines area and no waste water discharged from mines.
viii)	Personnel working in dusty areas shall be provided with protective respiratory devices and they shall also be imparted adequate training and information of Safety and Health aspects.	Complying. Personnel working in dusty areas have been provided with protective respiratory devices and adequate training and information of Safety and Health aspects provided.
ix)	A separate Environmental Management cell with suitable qualified personnel shall be set up the control of Senior Executive, who will be report directly to the head of the organization.	Compiled. A separate Environmental Management cell with suitable qualified personnel has been set up under the control of a Senior Executive, who is reporting directly to the head of the organization.

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X)	The project authorities shall inform to the Regional Office of the Ministry located at Bangalore regarding date of financial closures and final approval of the project by the concern authorities and the date of start of land development work.	Compiled.
xi)	The funds earmarked for Environmental Protection measures shall be kept in separate account and shall not be diverted for other purpose. Year wise expenditure shall be reported to the Ministry and its Regional office located at Bangalore.	Compiled.
xii)	The project authorities shall inform to the Regional Office of the Ministry located at Bangalore regarding date of financial closures and final approval of the project by the concern authorities and the date of start of land development work.	Compiled.
xiii)	The Regional Office of the Ministry, Bangalore shall monitor compliance of the stipulated conditions. The project authorities shall extend full cooperation to the officer(s) of the Regional office by furnishing the requisite data/ information /monitoring reports.	Agreed.
xiv)	A copy of clearance letter will be marked to concerned panchayat /local NGO, if any from whom suggestion /representation has been received while processing the proposal.	Compiled.
xv)	State Pollution Control Board shall display a copy of the clearance letter at the Regional Office, District Industry Centre and collector's office /Tahsildar's office for 30 days.	Noted.
xvi)	The project authorities shall advertise at least in two local Newspapers widely circulated , one of which shall be in the vernacular languages of the localities concern within 7days of issue of the clearance letter informing that the project has been accorded Environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at web site of the Ministry of the Environment & Forests at http://www.envfor.nic.in and a copy of the same shall be forwarded to the Regional Office of the Ministry located at Bangalore.	Compiled.

Annexure-2

J.K. Cement Works, Muddapur
 (Unit: J K Cement Ltd.)
 Halki Lime Stone Mine
 AAQ Monitoring Report

Sr. No.	Locations	Parameters	Unit	Results						Min.	Max.	Avg.
				Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25			
1	Near Halki Mines Office	PM10	µg/m3	53.0	53.0	59.0	56.0	53.0	58.0	53.0	59.0	55.3
		PM2.5	µg/m3	19.0	16.0	19.0	12.0	22.0	15.0	12.0	22.0	17.2
		SO2	µg/m3	13.0	17.0	12.0	20.0	18.0	6.3	6.3	20.0	14.4
		NO2	µg/m3	17.0	18.0	18.0	17.0	15.0	13.6	13.6	18.0	16.4
2	Near Boundary Side	PM10	µg/m3	59.0	51.0	52.0	54.0	52.0	58.0	51.0	59.0	54.3
		PM2.5	µg/m3	24.0	20.0	20.0	24.0	19.0	13.0	13.0	24.0	20.0
		SO2	µg/m3	17.0	14.0	16.0	18.0	15.0	5.8	5.8	18.0	14.3
		NO2	µg/m3	10.0	10.0	21.0	15.0	10.0	12.7	10.0	21.0	13.1
3	Halki Village	PM10	µg/m3	52.0	57.0	51.0	58.0	56.0	50.0	50.0	58.0	54.0
		PM2.5	µg/m3	17.0	13.0	17.0	15.0	24.0	26.0	13.0	26.0	18.7
		SO2	µg/m3	16.0	18.0	13.0	10.0	21.0	12.0	10.0	21.0	15.0
		NO2	µg/m3	21.0	11.0	18.0	18.0	19.0	22.4	11.0	22.4	18.2
4	Metgudda Village	PM10	µg/m3	57.0	60.0	60.0	53.0	54.0	55.0	53.0	60.0	56.5
		PM2.5	µg/m3	14.0	23.0	15.0	18.0	12.0	17.0	12.0	23.0	16.5
		SO2	µg/m3	12.0	21.0	21.0	16.0	16.0	7.5	7.5	21.0	15.6
		NO2	µg/m3	18.0	19.0	17.0	12.0	13.0	14.3	12.0	19.0	15.6

Note: Monitoring done by MoEFCC recognized Lab



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AIR QUALITY MONITORING DATA

1. Name of the Project	:	M/s. JK Cement Works, Muddapur,
2. Name of the Client	:	(Unit: J.K.Cement Ltd), P.O. Muddapur-587122, Dist. Bagalkot (Karnataka) India
3. Sample Collected By	:	Ribhu Samvikalpa Labs LLP
4. Particulars of Sample Collected	:	Source Emission Air Quality Monitoring
5. Sample Condition	:	Satisfactory
6. Analysis Start Date	:	01.09.2025
7. Analysis Completion Date	:	02.09.2025
8. Report Issue Date	:	06.09.2025
9. Month of Monitoring	:	July 2025
10. Environmental condition at the time of sampling	:	29.8°C
11. Unique Lab Report Number	:	TC159762500000000404F

Name of the Station/ Date of Sample Collection	Lab Sample Code	Particulars of Sample Collected			
		SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)
NAAQ standards 2009					
AAQM Locations for Halki Mines		80 ($\mu\text{g}/\text{m}^3$)	80 ($\mu\text{g}/\text{m}^3$)	100 ($\mu\text{g}/\text{m}^3$)	60 ($\mu\text{g}/\text{m}^3$)
AV- Near Halki mines office					
31.08.2025	422, 422, 978, 802	18	15	53	22
AVI- North Boundary Side					
31.08.2025	421, 421, 981, 805	15	10	52	19
AVII-Halki Village					
31.08.2025	420, 420, 988, 812	21	19	56	24
AVIII- Metgudda Village					
30.08.2025	423, 423, 985, 809	16	13	54	12

END OF REPORT

Note: 1. SO₂ – Sulfur Dioxide, NO₂ – Nitrogen Dioxide, PM₁₀ – Particulate Matter (size less than 10 μm), PM_{2.5} – Particulate Matter (size less than 2.5 μm).

2. The above results are related only to the samples collected & tested on the particular date and time.

3. RA – Reaffirmed.

ANALYZED BY:

 (Aishwarya Patil)
 Analyst

VERIFIED BY:

 (P. Harikala)
 Technical Manager

AUTHORISED SIGNATORY:

 (M. Shashikala)
 Head of the Laboratory

Annexure-3

HALKI LIME STONE MINES

(Unit : J.K. Cement Ltd.)

Fugitive Emission Monitoring Report of Halki mines

SI. No.	MONTH/YEAR	SPM (mg/m3)			
		Loading Area	Drilling Area	Haulage Area	Waste Dumping Site
1	Jun-25	0.96	0.90	0.86	0.98
2	Sep-25	0.87	0.98	0.90	1.06
Minimum		0.87	0.90	0.86	0.98
Maximum		0.96	0.98	0.90	1.06
Average		0.92	0.94	0.88	1.02



RIBHU SAMVIKALPA LABS LLP

Environmental laboratory, Accredited by NABL (ISO/IEC: 17025:2017),
Vide certificate No: TC-15976 And Certified by ISO (45001:2018)

FUGITIVE EMISSION AIR QUALITY MONITORING DATA

1. Name of the Industry : M/s. JK Cement Works, Muddapur,
 2. Address : (Unit: J.K.Cement Ltd), P.O. Muddapur-587122,
 3. Sample Collected By : Dist. Bagalkot (Karnataka) India
 4. Particulars of Sample Collected : Ribhu Samvikalpa Labs LLP
 5. Sample Condition : Fugitive Emission Air Quality Monitoring
 6. Analysis Start Date : Satisfactory
 7. Analysis Completion Date : 06.09.2025
 8. Report Issue Date : 06.09.2025
 9. Month of Monitoring : 25.09.2025
 10. Environmental condition at the time of : September 2025
 sampling : 29.9°C
 11. Method adopted (Sampling & Analysis) : IS 5182 (Part 4) :2006

Sl. No.	Date of Sample Collection	Name of the Station	Lab Sample Code	SPM (mg/m ³)	IBM Standard (mg/m ³)
Fugitive Locations for Halki Mines					
1.	01.09.2025	Drilling Area	38	0.98	1.2
2.	01.09.2025	Loading Area	36	0.87	1.2
3.	01.09.2025	Haulage Road	37	0.90	1.2
4.	01.09.2025	Waste Dumping Site	35	1.06	1.2

END OF REPORT

Note: 1. SPM – Suspended Particulate Matter.

2. The above results are related only to the samples collected & tested on the particular date and time.

ANALYZED BY:

(Aishwarya Patil)
 Analyst

VERIFIED BY:

(P. Harika)
 Technical Manager

AUTHORISED SIGNATORY:

(M. Shashikala)
 Head of the Laboratory

J K Cement Works, Muddapur

(Unit: J.K. Cement Ltd.)
Halki Limestone Mines

Noise Monitoring Report

Sl. No.	Location Name	Core Zone											
		Apr-25		May-25		Jun-25		Jul-25		Aug-25		Sep-25	
		Max (dB) Leq	Min (dB) Leq										
1	Halki Mines Drilling Time	67.43	61.51	64.32	58.76	62.56	55.12	60.94	52.47	61.36	51.75	68.3	62.5
2	Halki Mines Waste Dump Site	63.21	59.13	62.42	56.54	60.58	52.28	64.56	54.76	59.86	53.49	65.9	63.2
3	Halki Mines Service Road	64.25	55.48	60.75	53.76	62.38	51.54	64.75	53.88	61.55	52.85	66.4	56.3
4	Excavator Halki Mine	60.17	57.52	59.75	51.54	61.53	50.85	62.65	51.27	60.87	52.58	61.3	56.3

Note: Monitoring done by MoEFCC recognized Lab

J K Cement Works, Muddapur

(Unit: J.K. Cement Ltd.)
Halki Limestone Mines

Noise Monitoring Report

Buffer Zone

Sl. No.	Location Name	Apr-25		May-25		Jun-25		Jul-25		Aug-25		Sep-25		Minimum		Maximum		Average	
		Day (dB) Leq	Night (dB) Leq	Day (dB) Leq	Night (dB) Leq	Day (dB) Leq	Night (dB) Leq	Day (dB) Leq	Night (dB) Leq										
1	Halki Mines North Boundary	60.2	52.8	62.34	53.41	59.82	50.42	60.65	51.34	64.34	52.51	63.3	54.3	59.82	50.42	64.34	54.3	61.8	52.5
2	Halki Mines Office	50.3	40.2	50.46	41.25	51.55	42.36	53.28	43.21	52.16	42.31	52.4	42.2	50.3	40.2	53.3	43.2	51.7	41.9

Note: Monitoring done by MoEFCC recognized Lab



RIBHU SAMVIKALPA LABS LLP

Environmental laboratory, Accredited by NABL (ISO/IEC: 17025:2017),
Vide certificate No: TC-15976 And Certified by ISO (45001:2018)

NOISE LEVEL MONITORING DATA

1. Name of the Client : M/s. JK Cement Works, Muddapur,
2. Address : (Unit: J.K.Cement Ltd), P.O. Muddapur-587122, Dist.Bagalkot (Karnataka) India
3. Sample Collected By : Ribhu Samvikalpa Labs LLP
4. Particulars of Sample Collected : Noise Monitoring
5. Sample Condition : Satisfactory
6. Monitoring Date : 01.09.2025
7. Month of Monitoring : September 2025

I. Halki Mines (Buffer Zone) :

Sl. No.	Code	Sampling Location	Date	Unit	Day	
					Max.	Min.
1.	N1	Halki Mines North Boundary	01.09.2025	dB	63.3	54.3
2.	N2	Halki Mines Office	01.09.2025	dB	52.4	42.2

II. Halki Mines (Core Zone) :

Sl. No.	Code	Sampling Location	Date	Unit	Day	
					Max.	Min.
1.	N1	Halki Mines Drilling Time	01.09.2025	dB	68.3	62.5
2.	N2	Halki Mines Waste Dump Site	01.09.2025	dB	65.9	63.2
3.	N3	Halki Mines Service Road	01.09.2025	dB	66.4	56.3
4.	N4	Excavator Halki Mine	01.09.2025	dB	61.3	56.3

MOEF ambient Noise standards in dB(A) Leq (No.41, Dt 11.01.2010)	Residential Area limits dB(A) Leq		Industrial Area limits dB(A) Leq	
	Day time	Night time	Day time	Night time
	55	45	75	70
Method Adopted	Integrated Sound Level Meter			

Note: 1. The above results are related only to the samples collected & tested on the particular date and time

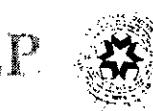
MONITORED BY:

(G.Dhavaleshwar)
Analyst

VERIFIED BY:

(P.Harika)
Technical Manager

AUTHORISED SIGNATORY: (M. Shaktikala)
Head of the Laboratory



Analysis Report of Mines Pit Water

1. Name of the Industry	:	M/s. JK Cement Works, Muddapur, (Unit: J.K.Cement Ltd), P.O.Muddapur-
2. Address	:	587122, Dist.Bagalkot (Karnataka) India
3. Sample collected by	:	Ribhu Samvikalpa Labs LLP
4. Name of the Location	:	Halki Mines
5. Particulars of sample collected	:	Mines Pit Water
6. Field Sample code	:	JKSW7
7. Lab Sample Code	:	RSL W 148
8. Date of sample collection	:	04.09.2025
9. Date of sample Received	:	04.09.2025
10. Date of sample Analyzed	:	04.09.2025 to 13.09.2025
11. Report Issue Date	:	25.09.2025
12. Method of Sampling	:	IS:17614 (Part-I) 2021
13. Environmental condition at the time of sampling	:	29.5°C
14. Unique Lab Report Number	:	TC1597625000000000418F

Sl. No	Parameters	Protocol	Unit of Measurement	General Standards for Inland Surface water Schedule-VI (EPA-'86)	Limits
				Results	
				Sept.'-25	

PHYSICAL

1.	Colour	IS: 3025 (PART 4)- 1984, RA-2021, Platinum cobalt Method	Hazen units	2	-
2.	Conductivity	IS:3025 (PART 14)-1984, RA-2019, Electrometric method	µs/cms	921	-
3.	Total Dissolved Solids	IS:3025 (part 16)-1984, RA-2017, Gravimetric method	mg/L	598	-
4.	pH	IS:3025 (part 11)-1983, RA-2022, Electrometric method	-	7.20	5.50 to 9.0
5.	Turbidity	IS:3025 (part 10)-1984, RA-2017, Nephelometric method	NTU	0.70	-

CHEMICAL

6.	Dissolved Phosphate as PO ₄	IS:3025 (part 31)-1988, RA-2021 Stannous chloride method	mg/L	0.069	5
7.	Sodium as Na	IS:3025 (part 45)-1993, RA-2019 Flame Emissionphotometric method	mg/L	112.4	-
8.	Potassium as K	IS:3025 (part 17)-1984, RA-2019 Flame Emissionphotometric method	mg/L	1.40	-
9.	Calcium as Ca	IS:3025 (part 40)-1991, RA-2019 EDTA Titrimetric method	mg/L	41.68	-
10.	Magnesium as Mg	APHA 23 rd Edition 3500-B-Mg By calculation	mg/L	27.67	-
11.	Total Hardness as CaCO ₃	IS:3025 (part 21)-1983, RA-2019 EDTA Titrimetric method	mg/L	218	-
12.	Chloride as Cl	IS:3025 (part 32)-1988, RA-2019 Argentometric Method	mg/L	56.48	-
13.	Sulphate as SO ₄	APHA 23 rd Edition 4500-SO ₄ ²⁻ -E (P.NO.4-190-191) Turbidimetric method	mg/L	16.73	-

Cont'd...



RIBHU SAMVIKALPA LABS LLP

Environmental laboratory, Accredited by NABL (ISO/IEC: 17025:2017),
Vide certificate No: TC-15976 And Certified by ISO (45001:2018)



Certificate No: TC-15976

Sl. No	Parameters	Protocol	Unit of Measurement	Results	General Standards for Inland Surface water Schedule-VI (EPA-'86)
					Sept.'-25
14.	Fluoride as F	APHA 23 rd Edition 4500-F D. (P.NO. 4-87 - 88)SPADNS Method	mg/L	1.32	2
15.	Nitrate Nitrogen as NO ₃	IS:3025 (part 34)-1988, RA-2019 Chromotropic acid method	mg/L	2.52	10
16.	Total Alkalinity as CaCO ₃	IS:3025 (part 23)-1986, RA-2019 Indicator method	mg/L	50	-
TRACE METALS					
17.	Total Iron as Fe	APHA 23 rd Edition 3111B (p.no.3-19) Direct Air Acetylene Flame Method	mg/L	BDL	3
18.	Nickel as Ni	APHA 23 rd Edition 3111B (p.no.3-19) Direct Air Acetylene Flame Method	mg/L	BDL	3
19.	Manganese as Mn	APHA 23 rd Edition 3111B. (p.no.3-19) Direct Air Acetylene Flame Method	mg/L	BDL	2
20.	Copper as Cu	APHA 23 rd Edition 3111B. (p.no.3-19) Direct Air Acetylene Flame Method	mg/L	BDL	3
21.	Zinc as Zn	APHA 23 rd Edition 3111 B. (p.no.3-19) Direct Air Acetylene Flame Method	mg/L	BDL	3
22.	Lead as Pb	APHA 23 rd Edition 3111 B. (p.no.3-19) Direct Air Acetylene Flame Method	mg/L	BDL	0.10
23.	Chromium as Cr	APHA 23 rd Edition 3111 B. (p.no.3-18) Direct Air Acetylene Flame Method	mg/L	BDL	2

End of Report

Note: 1. RA: Reaffirmed BDL- Below detectable limit, (For trace metals <0.1, Oil & grease <4.0).
2. The above results are related only to the samples collected & tested on the particular date and time.

ANALYZED BY:

1. (G.Dhavaleshwar)
Analyst

2. (Aishwarya Patil)
Analyst

VERIFIED BY:

(P.Harika)
Technical Manager

AUTHORISED SIGNATORY:

(M. Shashikala)
Head of the Laboratory



RIBHU SAMVIKALPA LABS LLP

Environmental laboratory, Accredited by NABL (ISO/IEC: 17025:2017).
Vide certificate No: TC-15976 And Certified by ISO (45001:2018)

Analysis Report of Mines Pit Water

1. Name of the Industry	:	M/s. JK Cement Works, Muddapur, (Unit: J.K.Cement Ltd), P.O. Muddapur-
2. Address	:	587122, Dist.Bagalkot (Karnataka) India
3. Sample collected by	:	Ribhu Samvikalpa Labs LLP
4. Name of the Location	:	Halki Mines
5. Particulars of sample collected	:	Mines Pit Water
6. Field Sample code	:	JKSW7
7. Lab Sample Code	:	RSL W 148
8. Date of sample collection	:	04.09.2025
9. Date of sample Received	:	04.09.2025
10. Date of sample Analyzed	:	04.09.2025 to 13.09.2025
11. Report Issue Date	:	25.09.2025
12. Method of Sampling	:	IS:17614 (Part-I) 2021

Sl. No	Parameters	Protocol	Unit of Measurement	Results	General Standards for Inland Surface water Schedule-VI (EPA-'86)
				Sept-'25	Limits
TRACE METALS					
1.	Mercury as Hg	APHA 23 rd Edition 3112 B. (p.no.3-23) Direct Air Acetylene e Flame Method	mg/L	BDL	0.01

End of Report

Note: 1. BDL- Below detectable limit. (Mercury <0.001).
2. The above results are related only to the samples collected & tested on the particular date and time.

ANALYZED BY:

1. (G.Dhavaleshwar)
Analyst

2. (Aishwarya Patil)
Analyst

VERIFIED BY:

(P.Harika)
Technical Manager

AUTHORISED SIGNATORY:

(M. Shashikala)
Head of the Laboratory

M/s. JK Cement Works Muddapur**Environmental Expenditure for Halki Limestone Mine-2344(A)**
Apr 2025 to Sep 2025

Sl. No.	Particulars	Cost (In Rs.)	Remarks
1	Pollution Control	3017550.00	Water Tankers
2	Pollution Monitoring	83050.00	Third Party
3	Occupational Health & Safety	0.00	
4	Green belt	204200.00	Plantation & Gardener Salary
5	Reclamation	0.0	
6	Others	180000.00	JCB
	Total	34,84800.00	Rupees Thirty Four Lacs Eighty Four Thousand & Eight Hundred Only


Mines Manager**Halki Limestone Mine**

Details of CSR Expenditure for 2024-25

Sr.No	Focus area	Particulars	Amount [Rs]
1	Health	Support for Health care, Training and Medical Aid	1,96,500.00
2	Education	Education aid and Support for Schools	49,57,563.00
3	Rural Transformation	Rural Development & Other Welfare Activities	31,15,969.20
4	Other	Miscellaneous Activities	6,71,100.00
Grand Total			89,41,132.20