

GTN/WH/MINES/RO-MOEF/COMP./125/324

To,

Ministry of Environment Forest & Climate Change
Integrated Regional Office, Jaipur
A-209 & 218, "ARANYA BHAWAN"
Jhalana Institutional Area,
Jaipur-302004 (Raj)

Regd. A/D
Date: 15.05.2025

EC Letter No.: J-11015/03/2009-IA-II (M) dated 30.08.2010

Sub.: Six monthly Compliance Report from the period of Oct 2024 to March. 2025 in respect of
Dhanappa limestone Mines, Tehsil Merta city, District Nagaur, Rajasthan

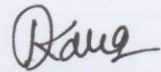
Sir,

Please find enclosed herewith the six-monthly compliance report from the period of Oct 2024 to
March. 2025 of our Dhanappa Limestone mines near village Dhanappa, Tehsil Merta city, District Nagaur
in Rajasthan admeasuring 400.00 ha. And M.L. 03/1993.

Thanks

Yours Truly,

For JK White Cement Works
(Unit of JK Cement Ltd)


(Deepak Kalla)
Sr. General Manager (Mines)

Enc.: - Monitoring Reports.

325
CC: The Additional Director (S),
Ministry of Environment & Forests,
Paryavaran Bhavan, CGO Complex,
Lodi Road. New Delhi -110003

Regd. A/D

326
CC: Member Secretary
Rajasthan State Pollution Control Board,
4th Institutional Area, Jhalana Doongari,
Jaipur - 302004

Regd. A/D

Corporate Office

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Manufacturing Units at:

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SIX MONTHLY COMPLIANCE REPORT

Name of the Project: Dhanappa Limestone Mine (ML No. 03/93)

Enc. Clearance Letter No.: J-11015/03/2009-IA-II(M) dated 30.08.2010

Period of Compliance Report: Oct. 2024 to March. 2025

S. No.	A. SPECIFIC CONDITIONS	COMPLIANCE STATUS
(i)	The project proponent shall obtain Consent to Establish and Consent to Operate from the Rajasthan State Pollution Control Board and effectively implement all the conditions stipulated therein.	The Consent to Establish and Consent to Operate obtained from RSPCB vide letter no. F (Mines)/Nagaur (Merta) /43 (1)/2010 -2011/6693-6697 dated 25.01.2011 and F (Mines)/Nagaur (Merta) /2652(1)/2017 -2018/4988-4992 dated 20.12.2022 respectively.
(ii)	Environmental Clearance is granted subject to final outcome of Hon'ble Supreme Court of India in Contempt Petition © No. 412/2004 in IA No. 833 in Writ Petition © No. 202 of 1995, as may be applicable to this project.	The area doesn't falls in Aravalli hills range therefore doesn't cover by the order of the Hon'ble Supreme Court dated 08.04.2005 in the contempt petition © 412/2004 in the writ petition 202 of 1995 in the matter of Godavarman vs Union of India, however we are communicating our agreement for final outcome of above said petition, as may be applicable for this project.
(iii)	The environmental clearance is subject to approval of the State Land Use Department, Government of Rajasthan for diversion of agricultural land for non-agricultural use.	Agreed
(iv)	Necessary prior permission from the Competent Authority as may be applicable for use of grazing land for mining purpose shall be obtained.	Mining lease renewal was granted for 20 years from 08/04/1994 to 07/04/2014 and extended up to 07.04.2034 as per the MMDR Amendment ACT 2015. The permission for mining was granted by State Department of Mines & Geology, Govt. of Rajasthan.
(v)	The project proponent shall develop fodder plots in the non-mineralized area in lieu of use of grazing land.	The fodder plots in the non-mineralized area shall be developed in lieu of use of grazing land.
(vi)	The mining operation shall be restricted to above ground water table and it should not intersect the groundwater table. In case of working below the ground water table, prior approval of the Ministry of Environment and Forest and the Central Ground Water Authority shall be obtained, for which a detailed hydro-geological study shall be carried out.	The avg. the ultimate working depth of mine will be 25 m bgl whereas the groundwater table in the area is more than 80 m bgl in the area during post-monsoon so no ground water intersection will be there due to mining operations.
(vii)	The project proponent shall ensure that no natural watercourse and/or water resources are	Shall be complied with.

	obstructed due to any mining operations. Adequate measures shall be taken for protection of the 1 st order and 2 nd order streams, if any emanating/ passing through the mine lease during the course of mining operation.	
(viii)	The top soil shall temporarily be stored at earmarked sit (s) only & it should not be kept unutilized for long. The top soil shall be used for land reclamation & plantation.	Topsoil availability is very poor. Topsoil available, if any, is being utilized by means of spreading on reclaimed (backfilled) area for plantation purposes simultaneously with mining operations.
(ix)	The overburden (OB) generated during the mining operation shall be concurrently backfilled. The existing waste dump shall be liquidated by the end of the 7 th year and thereafter there shall be no external OB dump. The entire excavated area of 156.12 ha, shall be backfilled and reclaimed by plantation. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status should be submitted to the Ministry of Environment & Forests and its Regional Office, Lucknow on six monthly basis.	Presently OB/waste is being backfilled in the worked out area for the reclamation & rehabilitation point of view. The phased restoration, reclamation and rehabilitation are being carried out as per MCDR. A total of 59.33 ha area has been backfilled by the end of March. 2024 and is kept continue.
(x)	Catch drains and siltation ponds of the appropriate size shall be constructed for the working pit, temporary soil, OB and mineral dumps to arrest flow of silt and sediment directly into the agricultural fields, the Jojri Nadi and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains should be regularly desilted particularly after the monsoon and maintained properly. Garland drains, settling tanks and check dams of appropriate size, gradient and length shall be constructed both around the mine pit and the temporary overburden dumps to prevent runoff of water and flow of sediments directly into the agricultural fields, the Jojri Nadi and other water bodies and sump capacity should be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt material. Sedimentation pits should be constructed at the corners of the garland drains and desilted at regular intervals.	Catch drains and siltation ponds of appropriate size have been constructed to arrest silt and sediment flows from the mine pit and temporary overburden dump. The water collected in the mine pit is being utilized for watering the mine area, roads, green belt development etc.

(xi)	Dimension of the retaining wall at the toe of the temporary OB dumps and the OB benches within the mine to check run-off and siltation should be based on the rain fall data.	Retaining walls at the toe of the OB dumps have been constructed.
(xii)	Plantation shall be raised in an area of 172.2 ha including a 7.5m wide green belt in the safety zone around the mining lease, backfilled and reclaimed area, along the roads etc. by planting the native species in consultation with the local DFO/Agriculture Department. The density of the trees should be around 1000 plants per ha. Greenbelt shall be developed all along the mine lease area in a phased manner and shall be completed within first five years.	Presently 58.22 ha area is covered under greenbelt/plantation up to March 2025. We have planted 3262 nos. of plant saplings covering 3.2 ha area on back filled ML area during the current financial year 2024-25. Plantation shall be raised in an area of 172.2 ha area during the mine life along periphery, along road and on backfilled and dump area.
(xiii)	Effective safeguard measures, such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as around crushing and screening plant, loading and unloading point and all transfer points. Extensive water sprinkling shall be carried out on haul roads. It should be ensured that the ambient air quality parameters conform to the norms prescribed by the Central pollution Control Board in this regard.	Water spraying arrangement on haul roads, dump, and trucks (loading & unloading) has been provided to control the fugitive dust emission. Regular monitoring for ambient air quality has been carried out; results are well within the stipulated norms.
(xiv)	The project authority should implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board.	We are maintaining Seven no. of rainwater harvesting stations and utilizing rain water collected in mining pits for plantation and spraying on haul roads.
(xv)	The project proponent shall undertake provision of artificial recharge to ground water through rainwater harvesting to the tune of 2.5 to 3.0 ML/year in the area in consultation with the Rajasthan State Ground Water Department.	The project of rainwater harvesting has been completed. We have constructed seven rainwater harvesting stations within lease area and maintaining them in good conditions for recharging the ground water.
(xvi)	Regular monitoring of ground water level and quality shall be carried out in and around the mine lease by establishing a network of existing wells and installing new piezometers during the mining operation. The periodic monitoring [(at least four times in a year – pre-monsoon (April-May), monsoon (August), post monsoon (November) and winter (January); one in each season)] shall be carried out in consultation with the State Ground Water Board /Central Ground Water Authority and the data thus collected may be sent regularly to the Ministry	<p>We are doing regular monitoring of ground water level in the mines as per guideline. Piezometers are installed and complete monitoring record is maintained.</p> <p>Comply with conditions, ground water level monitoring details are being regularly submitted to the concerned office.</p>

	of Environment and Forest and its Regional Office Lucknow, the Central Ground Water Authority and the Regional Director, Central Ground Water Board. If at any stage, it is observed that the groundwater table is getting depleted due to the mining activity; necessary corrective measures shall be carried out.	
(xvii)	Appropriate mitigative measures shall be taken to prevent pollution of the Jojri Nadi in consultation with the State Pollution Control Board.	The Nadi Jojri flows at about 1.25 km south of the lease area which is a seasonal one. No impact is envisaged due to mining activities on this said Nadi.
(xviii)	The project proponent shall obtain necessary prior permission of the component authorities for drawl of requisite quantity of water (surface water Ground water, if any) required for the project.	Not applicable. The water requirement for the site is being met from the mine sump water and nearby area.
(xix)	Suitable rainwater harvesting measures on long term basis shall be planned and implemented in consultation with the Regional Director, Central Ground Water Board.	We have planned and implemented seven nos.of rain water harvesting structures in the lease area.
(xx)	The project proponent shall be ensure that the fluoride level in the water to be used for drinking purpose in this area are within prescribed limits by making provision of RO System.	The J.K. White Cement Works Management already has installed RO System in the factory colony for workers, staff. The management also installed RO System in village Gotan for nearby villagers to check fluoride level.
(xxi)	Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance vehicles used in mining operations and in transportation of mineral. The mineral transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded.	All the vehicles used for mining operations are on hired basis and we supervise & force them for periodic maintenance & servicing. PUC certified vehicles are being used.
(xxii)	The project proponent shall take specific safeguard measure to control RSPM levels in the area.	Safeguard measures area being taken to control RSPM levels in the area. The RSPM results area within the stipulated norms.
(xxiii)	Blast vibration study shall be carried out. Based on the same, charge per delay should be so adjusted that there is no adverse impact in the surrounding area due to vibration.	Blast Vibration Study is being regularly carried out and no adverse impact of blasting in the surrounding area due to vibration.
(xxiv)	Controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.	Blasting operation is being carried out during the daytime only. Controlled blasting is being practiced by using most advance and safe technology

		i.e. Shock Tubes Blasting by competent persons and also as per recommendations made in Blast Vibration Studies Report.
(xxv)	Drills shall either be operated with dust extractors or equipped with water injection system.	Wet drilling operation is being practiced.
(xxvi)	Mineral handling area shall be provided with the adequate number of high efficiency dust extraction system. Loading and unloading areas including all the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated.	Not applicable as handling of mineral is being carried out by manual means only. No loading of limestone by mechanized means.
(xxvii)	Sewage treatment plant shall be installed for the colony. ETP shall be provided for the workshop and wastewater generated during the mining operation.	Not applicable, as no effluents are envisaged from mine. The workers come from nearby villages.
(xxviii)	Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly.	Pre-placement medical examination and periodical medical examination is being carried out and records are maintained.
(xxix)	Digital processing of the entire lease area using remote sensing technique should be done regularly once in three years for monitoring land use pattern and report submitted to MOEF and its Regional Office located at Lucknow.	Digital Processing of the entire lease area using remote sensing technique is being conducted regularly once in every three years. Latest digital processing has been done during 2023-24 by Mr. Shailendra Kumar Soni (QP), Jodhpur and report has been sent to MOEF and its regional Office.
(xxx)	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after the completion of the project.	Not applicable as it is mining project hence no construction activity is involved.
(xxxi)	The critical parameters such as RSPM (Particulate matter with size less than 10 micron i.e. PM ₁₀), NO _x in the ambient air within the impact zone, peak particle velocity at 300m distance or within the nearest habitation, whichever is closer shall be monitored periodically. Further, quality of discharge water shall also be monitored [(TDS, DO, pH and Total Suspended Solids (TSS)]. The monitored	Ambient Air Quality-monitoring stations have been set up in mines area. Periodical monitoring is being carried out by our environment Cell and third party monitoring is being also done. All the parameters w. r. t. SPM, RSPM, NO _x , SO ₂ are well within the stipulated norms. Annexure-I.

	data shall be uploaded on the website of the company as well as displayed on a display board at the project site at a suitable location near the main gate of the Company in public domain. The Circular No. J-20012/1/2006-IA.II(M) dated 27.05.2009 issued by Ministry of Environment and Forest, which is available on the website of the Ministry www.envfor.nic.in shall also be referred in this regard for its compliance.	The monitored data have been displayed on a display board at the Mine site. No water is being discharged from the lease area.
(xxxii)	A Final Mine Closure Plan along with details of Corpus Fund should be submitted to the Ministry of Environment & Forest 5 years in advance of final closure for approval.	A final mine closure plan along with details of Corpus Fund shall be submitted to the Ministry of Environment & Forest well before as directed.
	B. General Conditions	
(i)	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment & Forest.	No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment & Forests.
(ii)	No change in the calendar plan including excavation, quantum of mineral limestone and waste should be made.	No change in the calendar plan including excavation, quantum of mineral limestone and waste is made.
(iii)	Conservation measures for protection of flora and fauna in the core & buffer zone should be drawn up in consultation with the local forest and wildlife department and effectively implemented.	No endangered to endemic species of flora and fauna found in the study area. However 10 hectares of land has been developed for conservation of flora and fauna in the area.
(iv)	Four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for RSPM (Particulate matter with size less than 10 micron i.e. PM ₁₀), NO _x monitoring. Location of the stations should be decided based on the meteorological, topographical features and environmentally and meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board.	Ambient Air Quality-monitoring stations have been set up in the Core and Buffer zone. Regular monitoring of AAQ is being carried out.
(v)	Data on ambient air quality RSPM (Particulate matter with size less than 10 micron i.e., PM ₁₀), NO _x should be regularly submitted to the Ministry of Environment and Forest including its Regional office located at Lucknow and the	Data on ambient air quality RSPM (Particulate matter with size less than 10 micron i.e., PM ₁₀), NO _x is attached herewith. Annexure –I

	State Pollution Control Board / Central Pollution Control Board once in six month.	
(vi)	Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.	Water spraying arrangement on haul roads, unloading of waste trucks has been provided to control the fugitive dust emission. Blasted/ fragmented limestone loading in trucks is by manual means so no dust generation is envisaged.
(vii)	Measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs / muffs.	All the equipment are maintained properly & workers are provided with all necessary PPE. Noise monitoring is being done & results are well within the prescribed norms.
(viii)	Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May, 1993 and 31 st December, 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluent.	Not applicable. There is no generation of industrial waste water from the Dhanappa Limestone Mines.
(ix)	Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.	PPE has been provided to persons working in such areas & time to time training about safety & awareness is given to all the workers. Occupational health surveillance program of the workers is being conducted periodically. There is no occupational disease observed so far.
(x)	A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.	A separate environmental management cell with suitable qualified personnel has been set-up.
(xi)	The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry of Environment and Forests and its Regional Office located at Lucknow.	The funds earmarked for environmental protection measures were kept in a separate account and not diverted for other purposes. Expenditure incurred for the environmental protection measures during the compliance period is Rs. 20.55 lacs.
(xii)	The project authorities should inform to the Regional Office located at Lucknow regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	The mining project in question is an operative mining unit since 1987.

(xiii)	The Regional Office of this Ministry located at Lucknow shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data/ information/ monitoring reports.	We are extending full cooperation to the officer (s) of the Regional Office by furnishing the requisite data/ information/ monitoring reports regularly.
(xiv)	The project proponent shall submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the Ministry of Environment and Forests, its Regional Office Lucknow, the respective Zonal Office of Central Pollution Control Board the State Pollution Control Board. The proponent shall upload the status of compliance of the EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the Ministry of Environment and Forest, Lucknow, the respective Zonal Office of Central Pollution Control Board and the State Pollution Control Board.	The reports on the status of compliance of stipulated EC conditions including results of monitoring is being sent to concern offices within time frame (Both in hard copies as well as by e-mail) The status of compliance in hard copies is being done.
(xv)	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad / Municipal Corporation, Urban Local Body and the Local NGO, If any, from whom suggestions / representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	Copy of clearance letter has sent to the concerned Panchayat / Local NGO.
(xvi)	The State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industry Centre and the Collector's Office / Tehsildar's Office for 30 days.	Complied with.
(xvii)	The environmental statement for each financial year ending 31 st March in form –V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the Regional Office of the Ministry of Environment and Forests, Lucknow by e-mail.	The Environmental Statement for the financial year April 2023 to 31 st March 2024 has been submitted in August. 2024

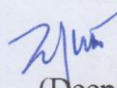
(xviii)	The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of clearance letter is available with the State Pollution Control Board and also at web site of the Ministry of Environment and Forest at http://envfor.nic.in and a copy of the same should be forwarded to the Regional Office of this Ministry located at Lucknow	Advertisement of Environmental Clearance published in Rajasthan Patrika & Dainik Bhaskar dated 10 Sept. 2010.
3	The Ministry of other competent authority may alter/ modify the above conditions or stipulate any further condition in the interest of environment protection.	Agreed
4	Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.	Agreed
5	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 Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/High Court of Rajasthan and any other Court of Law relating to subject matter.	We are communicating our agreement to fulfill the other statutory requirements under any law/ rules/ notifications if any applicable.
6	Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Authority Act, 1997.	Agreed

Thanking you,

Yours faithfully

For J.K. White Cement Works

(Unit of J.K. Cement Ltd.)



(Deepak Kumawat)

Sr. Manager-Mines

Sample Number: VTL/AA/01-04
Name & Address of the Party: M/s JK White Cement Works, Gotan (Unit of JK Cement Ltd.)Dhanappa Limestone Mines (ML.No.03/93) Village-Dhanappa, Teh.-Merta, Dist.- Nagaur, Raj.

Report No.: VTL/A/2412300003-06/A
Format No.: 7.8 F 02
Party Reference No.: NIL

Sample Description : Ambient Air Quality Monitoring

Report Date: 04/01/2025
Period of Analysis: 30/12/2024 – 04/01/2025
Receipt Date: 30/12/2024

General Information:-

Sample collected by : VTL Team
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Clear sky
Date of Sampling : 26/12/2024 to 27/12/2024
Ambient Temperature (°C) : Min. 13°C, Max. 23 °C
Surrounding Activity : Human , Vehicular & Mining Activities
Scope of Monitoring : Regulatory Requirement
Sampling & Analysis Protocol : IS-5182 & CPCB Guidelines
Sampling Duration : 24 hrs.
Parameter Required : As Per Work Order

Sr.	Parameter	Protocol	Location & Lat. Long (Core Zone)				Unit	NAAQS 2009
			Mines Office (ML.No.-03/93)	Pit No.-1 (ML.No.-03/93)	Pit No.-2 (ML.No.-03/93)	Pit No.-3 (ML.No.-03/93)		
			73°45'41"E 26°33'53"N	73°46'22"E 26°33'34"N	73°46'9"E 26°33'38"N	73°46'5"E 26°33'52"N		
1.	Particulate Matter (PM10)	IS: 5182 (P-23), 2006, RA 2022	64.23	65.29	59.14	66.74	µg/m ³	100
2.	Particulate Matter (PM2.5)	IS 5182 (P-24) -2019	29.66	32.85	28.44	32.48	µg/m ³	60
3.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2):Sec 1 2023	8.12	7.26	7.98	9.58	µg/m ³	80
4.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), 2006 RA 2022	15.75	16.98	13.15	17.24	µg/m ³	80
5.	Carbon Monoxide (as CO)	IS:5182 (P-10) -1999, RA2019 (NDIR)	0.65	0.59	0.63	0.55	mg/m ³	4
6.	Benzene (as C ₆ H ₆)	IS: 5182 (P-11)-2006, RA.2017	*BLQ(**LOQ1.0)	*BLQ(**LOQ1.0)	*BLQ(**LOQ1.0)	*BLQ(**LOQ1.0)	µg/m ³	5
7.	Ammonia (as NH ₃)	IS 5182 (P-25) -2018	*BLQ(**LOQ10.0)	*BLQ(**LOQ10.0)	*BLQ(**LOQ10.0)	*BLQ(**LOQ10.0)	µg/m ³	400
8.	Ozone (as O ₃)	IS:5182 (P-9):1974, RA.2019	8.23	10.52	7.95	9.26	µg/m ³	180
9.	Lead (as Pb)	IS:5182 (P-22):2004, RA.2019	*BLQ(**LOQ0.02)	*BLQ(**LOQ0.02)	*BLQ(**LOQ0.02)	*BLQ(**LOQ0.02)	µg/m ³	1
10.	Arsenic (as As)	VTL/STP/02/SOP/09	*BLQ(**LOQ0.5)	*BLQ(**LOQ0.5)	*BLQ(**LOQ0.5)	*BLQ(**LOQ0.5)	ng/m ³	6
11.	Nickel (as Ni)	IS 5182 (P-26) -2020	*BLQ(**LOQ5.0)	*BLQ(**LOQ5.0)	*BLQ(**LOQ5.0)	*BLQ(**LOQ5.0)	ng/m ³	20
12.	Benzo (a) Pyrene	IS:5182 (P-12):2004, RA.2019	*BLQ(**LOQ0.2)	*BLQ(**LOQ0.2)	*BLQ(**LOQ0.2)	*BLQ(**LOQ0.2)	ng/m ³	1

End of the Report-----

Checked By



RK Yadav
Lab Incharge
Authorized Signatory

Approved & Certified EPA 1986 Recognised, ISO:9001 and OHSAS:45001 Certified

Vibrant Techno Lab Pvt. Ltd.

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0141-2954638

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www.vibranttechnolab.com



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Sample Number: VTL/AN/01-04

Name & Address of the Party: M/s JK White Cement Works, Gotan

(Unit of JK Cement Ltd.)Dhanappa Limestone

Mines (ML.No.03/93) Village- Dhanappa, Teh.-
Merta, Dist.- Nagaur, Raj.

Sample Description: Ambient Noise Level Monitoring

Scope of Monitoring: Regulatory Requirement

Protocol Used: IS 9989

Instrument Used: SLM

TEST REPORT



TC-11227

Report No.: VTL/N/2412300003-06/A

Format No.: 7.8 F 04

Party Reference No.: NIL

Report Date: 04/01/2025

Receipt Date: 30/12/2024

Sampling Duration: 24 Hrs.

Sample Collected by: VTL Team

Instrument

Calibration Status

Calibrated

Ambient Noise Level Monitoring Results

General Information:-

Meteorological condition during monitoring

: Clear sky

Date of Monitoring

: 26/12/2024 to 27/12/2024

Time of Monitoring

: 06:00 AM to 06:00AM

Ambient Temperature (°C)

: Min. 13°C, Max. 23 °C

Surrounding Activity

: Human , Vehicular & Mining Activities

Parameter Required

: As per Work Order

Sr.	Test Parameter	Protocol	Location & Latlong (Core Zone)							
			Mines Office (ML.No.-03/93)		Pit No.-1 (ML.No.- 03/93)		Pit No.-2 (ML.No.- 03/93)		Pit No.-3 (ML.No.- 03/93)	
			73°45'41"E 26°33'53"N		73°46'22"E 26°33'34"N		73°46'9"E 26°33'38"N		73°46'5"E 26°33'52"N	
1.	Leq, dB(A)	IS:9989-1981, RA 2020	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
			53.6	40.9	51.2	42.4	53.4	41.0	57.1	44.8

Category of Zones	Leq in dB (A)	
	Day	Night
Industrial	75	70
Commercial	65	55
Residential	55	45
Silence Zone	50	40

1. Day Time is from 6.00 AM to 10.00 PM.
2. Night Time is reckoned between 10.00 PM to 6.00 AM.
3. Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeakers and bursting of crackers is banned in these zones.
Note: Mixed categories of areas be declared as one of the four above mentioned categories by the competent Authority and the corresponding standards shall apply

-----End of the Report-----

Checked By



RK Yadav

Lab Incharge

Authorized Signatory

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Vibrant Techno Lab Pvt. Ltd.

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**VIBRANT***"Experience the unimaginable"*

Sample Number : VTL/SW/01

Name & Address of the Party : M/s JK White Cement Works, Gotan
(Unit of JK Cement LTD.) Dhanappa Limestone Mines
(ML. No. 03/93) Village Dhanappa, Teh.- Merta,
Dist.- Nagaur Rajasthan

Sample Description : SURFACE WATER

Sampling Location : Dhanappa Mine (ML.No.-03/93)

Sample Collected By : VTL Team

Preservation : Suitable Preservation

Method of sampling : IS :3025

TEST REPORT

TC-11227

ULR No. : TC1122725000000013F

Report No. : VTL/W/2412300013/A

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 04/01/2025

Period of Analysis : 30/12/2024-04/01/2025

Receipt Date : 30/12/2024

Sampling Date : 26/12/2024

Sampling Type : Grab

Sample Quantity : 2 Ltr.

Coordinates : 73°45'59" & 26°35'27"

S.No.	Test Parameters	Test Method	Results	Unit
1	pH value	IS : 3025 (P-11) : 2022	7.62	--
2	Turbidity	IS : 3025 (P- 10) : 2023	4.3	NTU
3	Total Dissolved Solids (TDS)	IS : 3025 (P-16) : 2023	255	mg/L
4	Chloride (as Cl)	IS: 3025 (P-32) : 1988, RA 2019	65.8	mg/L
5	Sulphate as (SO4)	IS: 3025 (P- 24): Sec.1 : 2022 (Clause 5.0)	36.2	mg/L
6	Total Alkalinity (as CaCO3)	IS: 3025 (P- 23) : 2023	87.1	mg/L
7	Total Suspended Solids (TSS)	IS: 3025 (P-17) : 2022	*BLQ(**LOQ-5.0)	mg/L
8	Electrical Conductance	IS: 3025 (P-14): 2013 RA 2019	442	µS/cm
9	Total Hardness (CaCO3)	IS: 3025 (P- 21) : 2009, RA 2019	71.3	mg/L
10	Calcium (as Ca)	IS : 3025 (P-40) : 2024	23.8	mg/L
11	Magnesium (as Mg)	IS : 3025 (P- 46) : 2023	2.89	mg/L
12	Fluoride (as F)	APHA 24th Edition, 4500F-D: 2023	0.38	mg/L
13	Nitrate (as NO3)	IS 3025 : P 34 : Sec 1 : 2023 (Clause 6.4)	8.36	mg/L
14	Phenolic compounds	APHA 24th Edition, 5530C: 2023	*BLQ(**LOQ- 0.05)	mg/L
15	Dissolved oxygen (DO)	IS : 3025 (P -38) : 1989, RA 2019	5.9	mg/L
16	Biochemical Oxygen Demand (BOD) (3 days at 27°C)	IS: 3025 (P-44) : 2023	11.3	mg/L
17	Chemical Oxygen Demand (COD)	IS : 3025 (P- 58) : 2023	55.8	mg/L
18	Sodium (as Na)	APHA 24th Edition, 3500-Na: 2023	23.8	mg/L
19	Potassium (as K)	APHA 24th Edition, 3500-K: 2023	7.15	mg/L
20	Faecal Coliform	APHA 24th Edition, 9221-C :2023	Absent	MPN/100ml
21	Total Coliform	IS 15185: 2016 RA 2021	Absent	cfu/100ml
22	Iron (as Fe)	APHA 24th Edition 3111 B, 2023	0.28	mg/L
23	Zinc (as Zn)	APHA 24th Edition 3111 B, 2023	0.35	mg/L



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**VIBRANT***"Experience the unimaginable"*

Sample Number : VTL/SW/01

TEST REPORT

TC-11227

ULR No. : TC1122725000000013F

Report No. : VTL/W/2412300013/A

S.No.	Test Parameters	Test Method	Results	Unit
24	Copper (as Cu)	APHA 24th Edition 3111 B, 2023	*BLQ(**LOQ- 0.02)	mg/L
25	Manganese (as Mn)	APHA 24th Edition 3111 B, 2023	*BLQ(**LOQ- 0.05)	mg/L
26	Lead (as Pb)	APHA 24th Edition 3111 B, 2023	*BLQ(**LOQ- 0.005)	mg/L
27	Arsenic (as As)	APHA 24th Edition 3114 C, 2023	*BLQ(**LOQ- 0.005)	mg/L
28	E Coli	IS :15185 : 2016 RA 2021	Absent	cfu/100ml
29	Boron (as B)	APHA 24th Edition 4500B-C : 2023	*BLQ(**LOQ- 0.2)	mg/L
30	Chromium (as Cr)	APHA 24th Edition 3111 B, 2023	*BLQ(**LOQ- 0.02)	mg/L
31	Cadmium (as Cd)	APHA 24th Edition 3111 B, 2023	*BLQ(**LOQ- 0.002)	mg/L
32	Selenium (as Se)	APHA 24th Edition 3114 C, 2023	*BLQ(**LOQ- 0.005)	mg/L
33	Mercury (as Hg)	APHA 24th Edition 3112B: 2023	*BLQ(**LOQ- 0.001)	mg/L
34	Nickel (as Ni)	APHA 24th Edition 3111 B, 2023	*BLQ(**LOQ- 0.01)	mg/L
35	Silver (as Ag)	APHA 24th Edition 3111 B, 2023	*BLQ(**LOQ- 0.05)	mg/L

*BLQ Blow limit of Quantification **LOQ Limit of Quantification

End of Report

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TEST REPORT

Sample Number : VTL/SW/01

Name & Address of the Party : M/s JK White Cement Works, Gotan
(Unit of JK Cement LTD.) Dhanappa Limestone Mines
(ML. No. 03/93) Village Dhanappa, Teh.- Merta,
Dist.- Nagaur Rajasthan

Sample Description : SURFACE WATER

Sampling Location : Dhanappa Mine (ML.No.-03/93)

Sample Collected By : VTL Team

Preservation : Suitable Preservation

Method of sampling : IS :3025

Report No. : VTL/W/2412300013/B

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 04/01/2025

Period of Analysis : 30/12/2024-04/01/2025

Receipt Date : 30/12/2024

Sampling Date : 26/12/2024

Sampling Type : Grab

Sample Quantity : 2 Ltr.

Coordinates : 73°45'59" & 26°35'27"

S.No.	Test Parameters	Test Method	Results	Unit
1	Colour	IS : 3025 (P-4) : 2021	*BLQ(**LOQ-1)	Hazen
2	Odour	IS : 3025 (P-5) : 2018	Agreeable	--
3	Residual Free Chlorine (RFC)	IS 3025 (P- 26): 2021 (Clause 7.0)	*BLQ(**LOQ- 0.2)	mg/L
4	Cyanide (as CN)	IS 3025 (P 27/Sec 1) :2021	*BLQ(**LOQ- 0.02)	mg/L
5	Aluminium (as Al)	IS : 3025 : (P-55) 2003, RA 2019	*BLQ(**LOQ- 0.03)	mg/L

*BLQ Blow limit of Quantification **LOQ Limit of Quantification

End of Report



Checked by



RK Yadav

Lab Incharge

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VIBRANT

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Name & Address of the Party

VTL/AA/01-04

M/s JK White Cement Works, Gotan
(Unit of JK Cement Ltd.)Dhanappa
Limestone Mines (ML.No.03/93,75/90)
Village- Dhanappa, Teh.- Merta, Dist.-
Nagaur, Raj.

Sample Description :

Ambient Air Quality Monitoring

TEST REPORT



TC-11227

Report No.:

VTL/A/2412300021-24/A

Format No.:

7.8 F 02

Party Reference No.:

NIL

Report Date:

04/01/2025

Period of Analysis:

30/12/2024 -04/01/2025

Receipt Date

30/12/2024

General Information:-

Sample collected by

: VTL Team

Instrument Calibration Status

: Calibrated

Meteorological condition during monitoring

: Clear sky

Date of Sampling

: 26/12/2024 to 27/12/2024

Ambient Temperature (°C)

: Min. 13°C, Max. 23 °C

Surrounding Activity

: Human , Vehicular & Mining Activities

Scope of Monitoring

: Regulatory Requirement

Sampling & Analysis Protocol

: IS-5182 & CPCB Guidelines

Sampling Duration

: 24 hrs.

Parameter Required

: As Per Work Order

Sr.	Parameter	Protocol	Location & Lat. Long (Buffer Zone)				Unit	NAAQS 2009
			Dhanappa Vill. (ML.- 03/93,75/90)	Basni Vill. (ML.- 03/93,75/90)	Ramnagar Vill. (ML.- 03/93,75/90)	Pundlu Vill. (ML.- 03/93,75/90)		
			73°44'45"E 26°33'57"N	73°48'37"E 26°36'31"N	73°45'19"E 26°36'42"N	73°48'41"E 26°32'57"N		
1.	Particulate Matter (PM10)	IS: 5182 (P-23), 2006, RA 2022	56.24	60.45	65.12	58.96	µg/m³	100
2.	Particulate Matter (PM2.5)	IS 5182 (P-24) -2019	27.16	29.54	32.55	28.44	µg/m³	60
3.	Sulphur Dioxide (SO2)	IS: 5182 (P-2):Sec 1 2023	6.88	7.45	9.74	7.59	µg/m³	80
4.	Nitrogen Dioxide (NO2)	IS: 5182 (P-6), 2006 RA 2022	12.96	13.85	16.35	15.08	µg/m³	80
5.	Carbon Monoxide (as CO)	IS:5182 (P-10) -1999, RA2019 (NDIR)	0.56	0.59	0.61	0.54	mg/m³	4
6.	Benzene (as C6H6)	IS: 5182 (P-11)-2006, RA.2017	*BLQ(**LOQ1.0)	*BLQ(**LOQ1.0)	*BLQ(**LOQ1.0)	*BLQ(**LOQ1.0)	µg/m³	5
7.	Ammonia (as NH3)	IS 5182 (P-25) -2018	*BLQ(**LOQ10.0)	*BLQ(**LOQ10.0)	*BLQ(**LOQ10.0)	*BLQ(**LOQ10.0)	µg/m³	400
8.	Ozone (as O3)	IS:5182 (P-9):1974, RA.2019	6.25	5.96	10.81	9.01	µg/m³	180
9.	Lead (as Pb)	IS:5182 (P-22):2004, RA.2019	*BLQ(**LOQ0.02)	*BLQ(**LOQ0.02)	*BLQ(**LOQ0.02)	*BLQ(**LOQ0.02)	µg/m³	1
10.	Arsenic (as As)	VTL/STP/02/SOP/09	*BLQ(**LOQ0.5)	*BLQ(**LOQ0.5)	*BLQ(**LOQ0.5)	*BLQ(**LOQ0.5)	ng/m³	6
11.	Nickel (as Ni)	IS 5182 (P-26) -2020	*BLQ(**LOQ5.0)	*BLQ(**LOQ5.0)	*BLQ(**LOQ5.0)	*BLQ(**LOQ5.0)	ng/m³	20
12.	Benzo (a) Pyrene	IS:5182 (P-12):2004, RA.2019	*BLQ(**LOQ0.2)	*BLQ(**LOQ0.2)	*BLQ(**LOQ0.2)	*BLQ(**LOQ0.2)	ng/m³	1

End of the Report

Checked By

RK Yadav

Lab Incharge

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Term & conditions PTO

Sample Number:	VTL/AN/01-04	Report No.:	VTL/N/2412300021-24/A
Name & Address of the Party:	M/s JK White Cement Works, Gotan (Unit of JK Cement Ltd.) Dhanappa Limestone Mines (ML.No.03/93, 75/90) Village- Dhanappa, Teh.- Merta, Dist.- Nagaur, Raj.	Format No.:	7.8 F 04
Sample Description:	Ambient Noise Level Monitoring	Party Reference No.:	NIL
Scope of Monitoring	Regulatory Requirement	Report Date:	04/01/2025
Protocol Used:	IS 9989	Receipt Date:	30/12/2024
Instrument Used:	SLM	Sampling Duration	24 Hrs.
		Sample Collected by	VTL Team
		Instrument	Calibrated
		Calibration Status	

Ambient Noise Level Monitoring Results

General Information:-

Meteorological condition during monitoring	: Clear sky
Date of Monitoring	: 26/12/2024 to 27/12/2024
Time of Monitoring	: 06:00 AM to 06:00AM
Ambient Temperature (°C)	: Min. 13°C, Max. 23°C
Surrounding Activity	: Human, Vehicular & Mining Activities
Parameter Required	: As per Work Order

Sr.	Test Parameter	Protocol	Location & Latlong (Buffer Zone)							
			Dhanappa Vill. (ML.- 03/93,75/90)		Basni Vill. (ML.-03/93,75/90)		Ramnagar Vill. (ML.-03/93,75/90)		Pundlu Vill. (ML.- 03/93,75/90)	
			73°44'45"E 26°33'57"N		73°48'37"E 26°36'31"N		73°45'19"E 26°36'42"N		73°48'41"E 26°32'57"N	
1.	Leq, dB(A)	IS:9989-1981, RA 2020	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
			50.6	40.3	51.8	41.1	53.7	43.5	49.1	40.5

Category of Zones	Leq in dB (A)	
	Day	Night
Industrial	75	70
Commercial	65	55
Residential	55	45
Silence Zone	50	40

1. Day Time is from 6.00 AM to 10.00 PM.
2. Night Time is reckoned between 10.00 PM to 6.00 AM.
3. Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeakers and bursting of crackers is banned in these zones.
Note: Mixed categories of areas be declared as one of the four above mentioned categories by the competent Authority and the corresponding standards shall apply

-----End of the Report-----

Checked By



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Sample Number: VTL/AA/01-04
Name & Address of the Party: M/s JK White Cement Works, Gotan (Unit of JK Cement Ltd.) Dhanappa Limestone Mines (ML.No.03/93) Village- Dhanappa, Teh.-Merta, Dist.- Nagaur, Raj.

Report No.: VTL/A/2503270001-04/A
Format No.: 7.8 F 02
Party Reference No.: NIL

Sample Description : Ambient Air Quality Monitoring

Report Date: 31/03/2025
Period of Analysis: 27 - 31/03/2025
Receipt Date: 27/03/2025

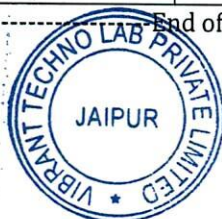
General Information:-

Sample collected by : VTL Team
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Clear sky
Date of Sampling : 24/03/2025 to 25/03/2025
Ambient Temperature (°C) : Min. 22°C, Max. 39 °C
Surrounding Activity : Human , Vehicular & Mining Activities
Scope of Monitoring : Regulatory Requirement
Sampling & Analysis Protocol : IS-5182 & CPCB Guidelines
Sampling Duration : 24 hrs.
Parameter Required : As Per Work Order

Sr.	Parameter	Protocol	Location & Lat. Long (Core Zone)				Unit	NAAQS 2009
			Mines Office (ML.No.-03/93)	Pit No.-1 (ML.No.-03/93)	Pit No.-2 (ML.No.-03/93)	Pit No.-3 (ML.No.-03/93)		
			73°45'41"E 26°33'53"N	73°46'22"E 26°33'34"N	73°46'9"E 26°33'38"N	73°46'5"E 26°33'52"N		
1.	Particulate Matter (PM10)	IS: 5182 (P-23), 2006, RA 2022	67.12	69.87	64.28	70.68	µg/m³	100
2.	Particulate Matter (PM2.5)	IS 5182 (P-24) -2019	30.24	35.12	32.63	36.51	µg/m³	60
3.	Sulphur Dioxide (SO2)	IS: 5182 (P-2):Sec 1 2023	9.42	10.56	8.74	9.12	µg/m³	80
4.	Nitrogen Dioxide (NO2)	IS: 5182 (P-6), 2006 RA 2022	17.36	20.84	16.59	18.35	µg/m³	80
5.	Carbon Monoxide (as CO)	IS:5182 (P-10) -1999, RA2019 (NDIR)	0.69	0.62	0.73	0.82	mg/m³	4
6.	Benzene (as C6H6)	IS: 5182 (P-11)-2006, RA.2022	*BLQ(**LOQ1.0)	*BLQ(**LOQ1.0)	*BLQ(**LOQ1.0)	*BLQ(**LOQ1.0)	µg/m³	5
7.	Ammonia (as NH3)	IS 5182 (P-25) -2018	*BLQ(**LOQ10.0)	*BLQ(**LOQ10.0)	*BLQ(**LOQ10.0)	*BLQ(**LOQ10.0)	µg/m³	400
8.	Ozone (as O3)	IS:5182 (P-9):1974, RA.2019	9.89	12.34	10.46	14.52	µg/m³	180
9.	Lead (as Pb)	IS:5182 (P-22):2004, RA.2019	*BLQ(**LOQ0.02)	*BLQ(**LOQ0.02)	*BLQ(**LOQ0.02)	*BLQ(**LOQ0.02)	µg/m³	1
10.	Arsenic (as As)	VTL/STP/02/SOP/09	*BLQ(**LOQ0.5)	*BLQ(**LOQ0.5)	*BLQ(**LOQ0.5)	*BLQ(**LOQ0.5)	ng/m³	6
11.	Nickel (as Ni)	IS 5182 (P-26) -2020	*BLQ(**LOQ5.0)	*BLQ(**LOQ5.0)	*BLQ(**LOQ5.0)	*BLQ(**LOQ5.0)	ng/m³	20
12.	Benzo (a) Pyrene	IS:5182 (P-12):2004, RA.2019	*BLQ(**LOQ0.2)	*BLQ(**LOQ0.2)	*BLQ(**LOQ0.2)	*BLQ(**LOQ0.2)	ng/m³	1

End of the Report-----

Checked By



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Sample Number: VTL/AN/01-04
Name & Address of the Party: M/s JK White Cement Works, Gotan
(Unit of JK Cement Ltd.) Dhanappa Limestone
Mines (ML.No.03/93) Village- Dhanappa, Teh.-
Merta, Dist.- Nagaur, Raj.
Sample Description: Ambient Noise Level Monitoring
Scope of Monitoring: Regulatory Requirement
Protocol Used: IS 9989
Instrument Used: SLM

Report No.: VTL/N/2503270001-04/A
Format No.: 7.8 F 04
Party Reference No.: NIL
Report Date: 31/03/2025
Receipt Date: 27/03/2024
Sampling Duration: 24 Hrs.
Sample Collected by: VTL Team
Instrument Calibration Status: Calibrated

Ambient Noise Level Monitoring Results

General Information:-

Meteorological condition during monitoring : Clear sky
Date of Monitoring : 24/03/2025 to 25/03/2025
Time of Monitoring : 06:00 AM to 06:00AM
Ambient Temperature (°C) : Min. 22°C, Max. 39 °C
Surrounding Activity : Human , Vehicular & Mining Activities
Parameter Required : As per Work Order

Sr.	Test Parameter	Protocol	Location & Latlong)(Core Zone)							
			Mines Office (ML.No.-03/93)		Pit No.-1 (ML.No.- 03/93)		Pit No.-2 (ML.No.- 03/93)		Pit No.-3 (ML.No.- 03/93)	
			73°45'41"E 26°33'53"N		73°46'22"E 26°33'34"N		73°46'9"E 26°33'38"N		73°46'5"E 26°33'52"N	
1.	Noise Level Leq, dB(A)	IS:9989-1981, RA 2020	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
			52.1	39.5	50.9	40.0	51.6	42.4	55.7	43.2

Category of Zones	Leq in dB (A)	
	Day	Night
Industrial	75	70
Commercial	65	55
Residential	55	45
Silence Zone	50	40

1. Day Time is from 6.00 AM to 10.00 PM.
2. Night Time is reckoned between 10.00 PM to 6.00 AM.
3. Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones.
Note: Mixed categories of areas be declared as one of the four above mentioned categories by the competent Authority and the corresponding standards shall apply

-----End of the Report-----

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**VIBRANT**

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Sample Number : VTL/GW/12

Name & Address of the Party : M/s JK White Cement Works, Gotan
(Unit of JK Cement LTD.) Dhanappa Limestone
Mines (ML No. 3/93), Vill- Dhanappa, Tehsil- Merta,
Nagaur Rajasthan

Sample Description : Water Sample
Sampling Location : Dhanappa Village (03/93)
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

ULR No. : TC112272500000398F
Report No. : VTL/W/2503270012/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 31/03/2025
Period of Analysis : 27/03/2025-31/03/2025
Receipt Date : 27/03/2025
Sampling Date : 23/03/2025
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : 73°45'59" & 26°35'27"



TC-11227

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	pH (at 25°C)	IS : 3025 (P-11) : 2022	7.38	--	6.5 to 8.5	No Relaxation
2	Colour	IS : 3025:(P-4) : 2021	*BLQ(**LOQ-5.0)	Hazen	5	15
3	Turbidity	IS : 3025: (P-10): 2023	*BLQ(**LOQ-1.0)	NTU	1	5
4	Total Hardness (as CaCO ₃)	IS: 3025 (P-21): 2009, RA 2019	377.40	mg/l	200	600
5	Calcium (as Ca)	IS: 3025 (P- 40): 2024	81.76	mg/l	75	200
6	Total Alkalinity (as CaCO ₃)	IS: 3025 (P-23):2023	381.90	mg/l	200	600
7	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	874.73	mg/l	250	1000
8	Magnesium (as Mg)	IS: 3025 (P-46): 2023	42.14	mg/l	30	100
9	Total Dissolved Solids	IS :3025 (P-16): 2023	1986	mg/l	500	2000
10	Sulphate (as SO ₄)	IS: 3025 (P-24): Sec-1 :2022 (Clause 5.0)	132.24	mg/l	200	400
11	Fluoride (as F)	APHA 24th Edition ,4500 F-D :2023	1.21	mg/l	1.0	1.5
12	Nitrate (as NO ₃)	IS: 3025 (P-34): Sec-1 :2023 (Clause 6.4)	41.20	mg/l	45.0	No Relaxation
13	Iron (as Fe)	APHA 24th Edition , 3111B,2023	0.55	mg/l	1.0	No Relaxation
14	Aluminium (as Al)	IS 3025 (P-55): 2003, RA 2019	*BLQ(**LOQ-0.03)	mg/l	0.03	0.2
15	Boron (as B)	APHA 24th Edition ,4500 B-C :2023	*BLQ(**LOQ-0.2)	mg/l	0.5	2.4
16	Total Chromium (as Cr)	APHA 24th Edition , 3111B,2023	*BLQ(**LOQ-0.02)	mg/l	0.05	No Relaxation
17	Phenolic Compounds	APHA 24th Edition ,5530 C :	*BLQ(**LOQ-0.001)	mg/l	0.001	0.002



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**VIBRANT**

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Sample Number : VTL/GW/12

TEST REPORT

TC-11227

ULR No. : TC112272500000398F

Report No. : VTL/W/2503270012/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
17	(C6H5OH)	2023				
18	Zinc (as Zn)	APHA 24th Edition , 3111B,2023	0.62	mg/l	5.0	15.0
19	Copper (as Cu)	APHA 24th Edition , 3111B,2023	*BLQ(**LOQ-0.02)	mg/l	0.05	1.5
20	Manganese (as Mn)	APHA 24th Edition , 3111B,2023	*BLQ(**LOQ-0.05)	mg/l	0.1	0.3
21	Cadmium (as Cd)	APHA 24th Edition , 3111B,2023	*BLQ(**LOQ-0.002)	mg/l	0.003	No Relaxation
22	Lead (as Pb)	APHA 24th Edition , 3111B,2023	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
23	Selenium (as Se)	APHA 24th Edition , 3114C,2023	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
24	Arsenic (as As)	APHA 24th Edition , 3114C,2023	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
25	Mercury (as Hg)	APHA 24th Edition , 3112 B,2023	*BLQ(**LOQ-0.001)	mg/l	0.001	No Relaxation
26	Total Coliform	IS : 15185 : 2016 RA 2021	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
27	E.Coli	IS : 15185 : 2016 RA 2021	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
28	Ammonia (as Total Ammonia-N)	IS-3025 (P-34)- Sec-1:2023 (Clause-5.3)	*BLQ(**LOQ-0.3)	mg/l	0.5	No Relaxation
29	Silver as Ag	APHA 24th Edition , 3111B,2023	*BLQ(**LOQ-0.05)	mg/l	0.1	No relaxation
30	Nickel as Ni	APHA 24th Edition , 3111B,2023	*BLQ(**LOQ-0.01)	mg/l	0.02	No relaxation
31	Free Residual Chlorine	IS 3025 (P-26):2021 Clause 7.0)	*BLQ(**LOQ-0.2)	mg/l	0.2	1.0
32	Sodium as Na	APHA 24th Edition,3500-Na, :	153.65	mg/l	-	-



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TEST REPORT



VIBRANT

"Experience the unimaginable"

Sample Number: VTL/GW/12

ULR No. : TC112272500000398F

Report No. : VTL/W/2503270012/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
32		2023				
33	Potassium as K	APHA 24th Edition,3500-K, : 2023	20.92	mg/l	-	-

*BLQ-Below Limit Of Quantification, **LOQ- Limit of Quantification

End of Report



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**VIBRANT***"Experience the unimaginable"***TEST REPORT**

Sample Number : VTL/GW/12

Name & Address of the Party : M/s JK White Cement Works, Gotan
(Unit of JK Cement LTD.) Dhanappa Limestone
Mines (ML No. 3/93), Vill- Dhanappa, Tehsil- Merta,
Nagaur Rajasthan

Sample Description : Water Sample
Sampling Location : Dhanappa Village (03/93)
Sample Collected By : VTL Team
Preservation : Suitable Preservation
Method of sampling : IS :3025

Report No. : VTL/W/2503270012/B
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 31/03/2025
Period of Analysis : 27/03/2025-31/03/2025
Receipt Date : 27/03/2025
Sampling Date : 23/03/2025
Sampling Type : Grab
Sample Quantity : 2 Ltr.
Coordinates : 73°45'59" & 26°35'27"

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	Odour	IS : 3025 (P-5) : 2018	Agreeable	--	Agreeable	Agreeable
2	Taste	IS :3025 (P-8): 2023	Agreeable	--	Agreeable	Agreeable
3	Mineral Oil	IS 3025 (P-39) 1989	*BLQ(**LOQ-0.05)	mg/l	0.5	No Relaxation
4	Anionic Detergents (as MBAS)	IS 3025 (P-68) : 2019	*BLQ(**LOQ-0.05)	mg/l	0.2	1.0
5	Sulphide	IS 3025 (P-29) :1986 RA 2019 Idometric	*BLQ(**LOQ-0.04)	mg/l	0.05	No Relaxation
6	Chloramines as CL2	IS 3025 (P-26) :2021 (Clause 7.0)	*BLQ(**LOQ-0.05)	mg/l	4.0	No relaxation
7	Barium as Ba	APHA 24th Edition , 3500-Ba : 2023	*BLQ(**LOQ-0.02)	mg/l	0.7	No relaxation
8	Molybdenum	APHA 24th Edition , 3500-Ma : 2023	*BLQ(**LOQ-0.01)	mg/l	0.07	No relaxation
9	Polynuclear-aromatic Hydrocarbon (PAH)	APHA 24th Edition,6440 : 2023	*BLQ(**LOQ-0.0001)	mg/l	0.0001	No relaxation
10	Polychlorinated biphenyls (PCB)	APHA 24th Edition,6431, 2023	*BLQ(**LOQ-0.0001)	mg/l	0.0005	No relaxation

*BLQ-Below Limit Of Quantification, **LOQ- Limit of Quantification

End of Report



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Name & Address of the Party

VTL/AA/01-04
M/s JK White Cement Works, Gotan
(Unit of JK Cement Ltd.)Dhanappa
Limestone Mines (ML.No.03/93,75/90)
Village- Dhanappa, Teh.- Merta, Dist.-
Nagaur, Raj.
Sample Description : Ambient Air Quality Monitoring

Report No.: VTL/A/25032700021-24/A
Format No.: 7.8 F 02
Party Reference No.: NIL
Report Date: 31/03/2025
Period of Analysis: 27 -31/03/2025
Receipt Date: 27/03/2025

General Information:-

Sample collected by : VTL Team
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Clear sky
Date of Sampling : 24/03/2025 to 25/03/2025
Ambient Temperature (°C) : Min. 22°C, Max. 39 °C
Surrounding Activity : Human , Vehicular & Mining Activities
Scope of Monitoring : Regulatory Requirement
Sampling & Analysis Protocol : IS-5182 & CPCB Guidelines
Sampling Duration : 24 hrs.
Parameter Required : As Per Work Order

Sr.	Parameter	Protocol	Location & Lat. Long (Buffer Zone)				Unit	NAAQS 2009
			Dhanappa Vill. (ML.- 03/93,75/90)	Basni Vill. (ML.- 03/93,75/90)	Ramnagar Vill. (ML.- 03/93,75/90)	Pundlu Vill. (ML.- 03/93,75/90)		
			73°44'45"E 26°33'57"N	73°48'37"E 26°36'31"N	73°45'19"E 26°36'42"N	73°48'41"E 26°32'57"N		
1.	Particulate Matter (PM10)	IS: 5182 (P-23), 2006, RA 2022	59.36	65.42	68.75	62.44	µg/m³	100
2.	Particulate Matter (PM2.5)	IS 5182 (P-24) -2019	30.12	33.27	35.62	31.76	µg/m³	60
3.	Sulphur Dioxide (SO2)	IS: 5182 (P-2):Sec 1 2023	8.37	9.74	10.00	8.21	µg/m³	80
4.	Nitrogen Dioxide (NO2)	IS: 5182 (P-6), 2006 RA 2022	15.20	17.89	19.28	16.42	µg/m³	80
5.	Carbon Monoxide (as CO)	IS:5182 (P-10) -1999, RA2019 (NDIR)	0.60	0.69	0.74	0.58	mg/m³	4
6.	Benzene (as C6H6)	IS: 5182 (P-11)-2006, RA.2022	*BLQ(**LOQ1.0)	*BLQ(**LOQ1.0)	*BLQ(**LOQ1.0)	*BLQ(**LOQ1.0)	µg/m³	5
7.	Ammonia (as NH3)	IS 5182 (P-25) -2018	*BLQ(**LOQ10.0)	*BLQ(**LOQ10.0)	*BLQ(**LOQ10.0)	*BLQ(**LOQ10.0)	µg/m³	400
8.	Ozone (as O3)	IS:5182 (P-9):1974, RA.2019	8.67	10.56	12.28	11.19	µg/m³	180
9.	Lead (as Pb)	IS:5182 (P-22):2004, RA.2019	*BLQ(**LOQ0.02)	*BLQ(**LOQ0.02)	*BLQ(**LOQ0.02)	*BLQ(**LOQ0.02)	µg/m³	1
10.	Arsenic (as As)	VTL/STP/02/SOP/09	*BLQ(**LOQ0.5)	*BLQ(**LOQ0.5)	*BLQ(**LOQ0.5)	*BLQ(**LOQ0.5)	ng/m³	6
11.	Nickel (as Ni)	IS 5182 (P-26) -2020	*BLQ(**LOQ5.0)	*BLQ(**LOQ5.0)	*BLQ(**LOQ5.0)	*BLQ(**LOQ5.0)	ng/m³	20
12.	Benzo (a) Pyrene	IS:5182 (P-12):2004, RA.2019	*BLQ(**LOQ0.2)	*BLQ(**LOQ0.2)	*BLQ(**LOQ0.2)	*BLQ(**LOQ0.2)	ng/m³	1

-----End of the Report-----

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Sample Number:	VTL/AN/01-04	Report No.:	VTL/N/2503270021-24/A
Name & Address of the Party:	M/s JK White Cement Works, Gotan (Unit of JK Cement Ltd.)Dhanappa Limestone Mines (ML.No.03/93, 75/90) Village- Dhanappa, Teh.- Merta, Dist.- Nagaur, Raj.	Format No.:	7.8 F 04
Sample Description:	Ambient Noise Level Monitoring	Party Reference No.:	NIL
Scope of Monitoring	Regulatory Requirement	Report Date:	31/03/2025
Protocol Used:	IS 9989	Receipt Date:	27/03/2024
Instrument Used:	SLM	Sampling Duration	24 Hrs.
		Sample Collected by	VTL Team
		Instrument Calibration Status	Calibrated

Ambient Noise Level Monitoring Results

General Information:-

Meteorological condition during monitoring	: Clear sky
Date of Monitoring	: 24/03/2025 to 25/03/2025
Time of Monitoring	: 06:00 AM to 06:00AM
Ambient Temperature (°C)	: Min. 22°C, Max. 39°C
Surrounding Activity	: Human , Vehicular & Mining Activities
Parameter Required	: As per Work Order

Sr.	Test Parameter	Protocol	Location & Latlong (Buffer Zone)							
			Dhanappa Vill. (ML.- 03/93,75/90)		Basni Vill. (ML.-03/93,75/90)		Ramnagar Vill. (ML.-03/93,75/90)		Pundlu Vill. (ML.- 03/93,75/90)	
			73°44'45"E 26°33'57"N		73°48'37"E 26°36'31"N		73°45'19"E 26°36'42"N		73°48'41"E 26°32'57"N	
1.	Noise Level Leq, dB(A)	IS:9989-1981, RA 2020	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
			52.4	41.9	49.2	38.7	50.8	39.6	53.4	42.0

Category of Zones	Leq in dB (A)	
	Day	Night
Industrial	75	70
Commercial	65	55
Residential	55	45
Silence Zone	50	40

1. Day Time is from 6.00 AM to 10.00 PM.
2. Night Time is reckoned between 10.00 PM to 6.00 AM.
3. Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones.
Note: Mixed categories of areas be declared as one of the four above mentioned categories by the competent Authority and the corresponding standards shall apply

-----End of the Report-----

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