

Regd. A/D

Date: 14.05.2024

GTN/WH/MINES/RO-MOEF/COMP./125 883  
To,  
Ministry of Environment Forest & Climate Change  
Integrated Regional Office, Jaipur  
A-209 & 218," ARANYA BHAWAN"  
Jhalana Institutional Area,  
Jaipur-302004 (Raj)

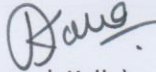
EC Letter No.: J-11015/03/2009-IA-II (M) dated 30.08.2010

Sub.: Six monthly Compliance Report from the period of Oct. 2023 to March 2024 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. 2023 to March 2024 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.

884  
CC: The Additional Director (S),  
Ministry of Environment & Forests,  
Paryavaran Bhavan, CGO Complex,  
Lodi Road. New Delhi -110003

Regd. A/D

885  
CC: Member Secretary  
Rajasthan State Pollution Control Board,  
4<sup>th</sup> Institutional Area, Jhalana Doongari,  
Jaipur - 302004

Regd. A/D

## Corporate Office

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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. 2023 to March. 2024

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. ultimate working depth of mine will be 25 m bgl whereas the ground water 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	Shall be complied with.

	natural watercourse and/or water resources are obstructed due to any mining operations. Adequate measures shall be taken for protection of the 1 <sup>st</sup> order and 2 <sup>nd</sup> 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 <sup>th</sup> 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 55.86 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 over burden 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	Catch drains and siltation ponds of appropriate size have been constructed to arrest silt and sediment flows from mine pit and temporary over burden dump. The water collected in mine pit is being utilized for watering the mine area, roads, green belt development etc.

	garland drains and desilted at regular intervals.	
(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 has 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 55.91 ha area is covered under greenbelt/plantation up to March.2024. We have planted 3933 nos. of plant saplings covering 3.92 ha area on back filled ML area during the current financial year 20223-24. 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	We are doing regular monitoring of ground water level in the mines as per guideline. Piezometers are installed and complete monitoring record is maintained.  Comply with conditions, ground water level monitoring details are being regularly submitted to the concerned office.

	collected may be sent regularly to the Ministry 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 <sub>10</sub> ), NO <sub>x</sub> 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	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 <sub>x</sub> , SO <sub>2</sub> are well within the stipulated

	Total Suspended Solids (TSS)]. The monitored 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 <a href="http://www.envfor.nic.in">www.envfor.nic.in</a> shall also be referred in this regard for its compliance.	norms. Annexure-I. 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>B. General Conditions</b>	
(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 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 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 <sub>10</sub> ), NO <sub>x</sub> 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 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 <sub>10</sub> ), NO <sub>x</sub> 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 <sub>10</sub> ), NO <sub>x</sub> 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's 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 <sup>th</sup> May, 1993 and 31 <sup>st</sup> 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 person working in such area & 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 kept in a separate account and not diverted for other purpose. Expenditure incurred for the environmental protection measures during the compliance period is Rs. 12.56 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 <sup>st</sup> 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 financial year April 2022 to 31 <sup>st</sup> March 2023 has been submitted in August. 2023

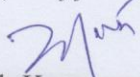
(xviii)	The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and 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 <a href="http://envfor.nic.in">http://envfor.nic.in</a> 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/2312250001-04/A  
Format No.: 7.8 F 02  
Party Reference No.: NIL

Sample Description : Ambient Air Quality Monitoring

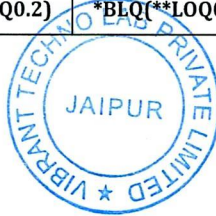
Report Date: 28/12/2023  
Period of Analysis: 25-28/12/2023  
Receipt Date: 25/12/2023

General Information:-

Sample collected by : VTL Team  
Instrument Calibration Status : Calibrated  
Meteorological condition during monitoring : Clear sky  
Date of Sampling : 21/12/2023 to 22/12/2023  
Ambient Temperature (°C) : Min. 11°C, Max. 30 °C  
Surrounding Activity : Human , Vehicular & Plant 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				Unit	NAAQS 2009
			Mines Office (ML.No.-03/93)(Core Zone)	Pit No.-1 (ML.No.-03/93)(Core Zone)	Pit No.-2 (ML.No.-03/93)(Core Zone)	Pit No.-3 (ML.No.-03/93)(Core Zone)		
			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 2017	63.21	66.12	60.58	65.87	µg/m <sup>3</sup>	100
2.	Particulate Matter (PM2.5)	IS 5182 (P-24) -2019	33.25	35.32	32.15	34.12	µg/m <sup>3</sup>	60
3.	Nitrogen Dioxide (NO2)	IS: 5182 (P-6), 2006 RA 2018	17.55	18.42	16.12	16.48	µg/m <sup>3</sup>	80
4.	Sulphur Dioxide (SO2)	IS: 5182 (P-2), 2001, RA 2018	8.65	9.45	8.02	9.97	µg/m <sup>3</sup>	80
5.	Benzene (as C6H6)	IS: 5182 (P-11)-2006, RA.2017	*BLQ(**LOQ1.0)	*BLQ(**LOQ1.0)	*BLQ(**LOQ1.0)	*BLQ(**LOQ1.0)	µg/m <sup>3</sup>	5
6.	Ammonia (as NH3)	3 <sup>rd</sup> Ed. 1988, Method No. 401	*BLQ(**LOQ2.0)	*BLQ(**LOQ2.0)	*BLQ(**LOQ2.0)	*BLQ(**LOQ2.0)	µg/m <sup>3</sup>	400
7.	Ozone (as O3)	IS:5182 (P-9):1974, RA.2019	7.03	7.68	6.98	7.84	µg/m <sup>3</sup>	180
8.	Lead (as pb)	IS:5182 (P-22):2004, RA.2019	*BLQ(**LOQ0.02)	*BLQ(**LOQ0.02)	*BLQ(**LOQ0.02)	*BLQ(**LOQ0.02)	µg/m <sup>3</sup>	1
9.	Arsenic (as As)	3 <sup>rd</sup> Ed. 1988, Method No. 302	*BLQ(**LOQ0.15)	*BLQ(**LOQ0.15)	*BLQ(**LOQ0.15)	*BLQ(**LOQ0.15)	ng/m <sup>3</sup>	6
10.	Nickel (as Ni)	USEPA Compendium IO-3.2, 1999	*BLQ(**LOQ5.0)	*BLQ(**LOQ5.0)	*BLQ(**LOQ5.0)	*BLQ(**LOQ5.0)	ng/m <sup>3</sup>	20
11.	Benzo (a) Pyrene	IS:5182 (P-12):2004, RA.2019	*BLQ(**LOQ0.2)	*BLQ(**LOQ0.2)	*BLQ(**LOQ0.2)	*BLQ(**LOQ0.2)	ng/m <sup>3</sup>	1

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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TEST REPORT

Sample Number: VTL/AA/01-04 Report No.: VTL/A/2312250001-04/B  
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. Format No.: 7.8 F 02 Party Reference No.: N/L  
Sample Description: Ambient Air Quality Monitoring Report Date: 25/12/2023 Period of Analysis: 25-28/12/2023 Receipt Date: 25/12/2023

General Information:-

Sample collected by : VTL Team  
Instrument Calibration Status : Calibrated  
Meteorological condition during monitoring : Clear sky  
Date of Sampling : 21/12/2023 to 22/12/2023  
Ambient Temperature (°C) : Min. 11°C, Max. 30 °C  
Surrounding Activity : Human , Vehicular & Plant 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				Unit	NAAQS 2009
			Mines Office (ML.No.-03/93)(Core Zone)	Pit No.-1 (ML.No.-03/93)(Core Zone)	Pit No.-2 (ML.No.-03/93)(Core Zone)	Pit No.-3 (ML.No.-03/93)(Core Zone)		
			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.	Carbon Monoxide (as CO)	Lab SOP no. VTL/STP/02:2022, STP-08	0.51	0.53	0.55	0.68	mg/m <sup>3</sup>	4

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

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RK Yadav  
Lab Incharge  
Authorized Signatory 

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Sample Number:

Name & Address of the Party:

Sample Description:

Scope of Monitoring

Protocol Used:

Instrument Used:

VTL/AN/01-04

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.

Ambient Noise Level Monitoring

Regulatory Requirement

IS 9989

SLM

**TEST REPORT**



TC-11227

Report No.:

Format No.:

Party Reference No.:

Report Date:

Receipt Date:

Sampling Duration

Sample Collected by

Instrument

Calibration Status

VTL/N/2312250001-04/A

7.8 F 04

NIL

28/12/2023

25/12/2023

24 Hrs.

VTL Team

Calibrated

**Ambient Noise Level Monitoring Results**

**General Information:-**

Meteorological condition during monitoring : Clear sky  
Date of Monitoring : 21/12/2023 to 22/12/2023  
Time of Monitoring : 06:00 AM to 06:00AM  
Ambient Temperature (°C) : Min. 11°C, Max. 30 °C  
Surrounding Activity : Human , Vehicular & Plant Activities  
Parameter Required : As per Work Order

Sr.	Test Parameter	Protocol	Location & Latlong							
			Mines Office (ML.No.- 03/93)(Core Zone)		Pit No.-1 (ML.No.- 03/93)(Core Zone)		Pit No.-2 (ML.No.- 03/93)(Core Zone)		Pit No.-3 (ML.No.- 03/93)(Core Zone)	
			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
			53.2	42.8	57.4	46.8	55.7	45.1	58.7	47.2

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

- Day Time is from 6.00 AM to 10.00 PM.
  - Night Time is reckoned between 10.00 PM to 6.00 AM.
  - 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-----

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**TEST REPORT**



TC-11227

ULR No. : TC112272300000671F  
 Report No. : VTL/W/2312250012/A  
 Format No : 7.8 F-01  
 Party Reference No : NIL  
 Report Date : 28/12/2023  
 Period of Analysis : 25/12/2023-28/12/2023  
 Receipt Date : 25/12/2023  
 Sampling Date : 22/12/2023  
 Sampling Type : Grao  
 Sample Quantity : 2 Ltr.  
 Coordinates : 73°46'9" & 26°33'38"

Sample Number : VTL/W/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 : Water Sample  
 Sampling Location : Dhanappa Village (Tubewell M.L.No.-03/93)  
 Sample Collected By : VTL Team  
 Preservation : Suitable Preservation  
 Method of sampling : IS :3025

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	7.44	--	6.5 to 8.5	No Relaxation
2	Turbidity	IS : 3025: (P-10)1984, RA 2017	*BLQ(**LOQ-1.0)	NTU	1	5
3	Total Hardness (as CaCO3)	IS: 3025 (P-21): 2009, RA 2019	350.00	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	62.12	mg/l	75	200
5	Total Alkalinity (as CaCO3)	IS: 3025 (P-23): 1986, RA 2019	365.75	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	382.86	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	47.39	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	1245.20	mg/l	500	2000
9	Sulphate (as SO4)	IS: 3025 (P-24): 1986, RA 2022	110.03	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	1.18	mg/l	1.0	1.5
11	Nitrate (as NO3)	IS: 3025 (P-34): 1988	19.54	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.35	mg/l	1.0	No Relaxation
13	Aluminium (as Al)	IS 3025 (P-55): 2003, RA 2019	*BLQ(**LOQ-0.03 )	mg/l	0.03	0.2
14	Boron (as B)	APHA 23rd Edition, 4500B,2017	*BLQ(**LOQ-0.2)	mg/l	0.5	1.0
15	Total Chromium (as Cr)	APHA 23rd Edition 2017 3113 B, 2017	*BLQ(**LOQ-0.02)	mg/l	0.05	No Relaxation
16	Phenolic Compounds (C6H5OH)	APHA 23rd Edition 5530C: 2017	*BLQ(**LOQ-0.001)	mg/l	0.001	0.002
17	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.44	mg/l	5.0	15.0



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# TEST REPORT



TC-11227

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ULR No. : TC112272300000671F

Report No. : \ TLW/2312250012/A

Sample Number : VTLW/01

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.05	1.5
19	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BLQ(**LOQ-0.05)	mg/l	0.1	0.3
20	Cadmium (as Cd)	APHA 23rd Edition, 3030D, 3113 B, 2017	*BLQ(**LOQ-0.002)	mg/l	0.003	No Relaxation
21	Lead (as Pb)	APHA 23rd Edition, 3030D, 3113 B, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
22	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
23	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	0.05
24	Mercury (as Hg)	APHA 23rd edition, 3114C 2017	*BLQ(**LOQ-0.001)	mg/l	0.001	No Relaxation
25	Total Coliform	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
26	E.Coli	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
27	Ammonia (as N)	IS-3025 (P-34)- 1988,Sec. RA :2022	*BLQ(**LOQ-0.3)	mg/l	0.5	No Relaxation
28	Sulphide	IS 3025 (P-29) :1986 RA 2019 Idometric	*BLQ(**LOQ-0.1)	mg/l	0.05	No Relaxation
29	Nickel as Ni	APHA 23rd Edition,3030D,3113B 2017	*BLQ(**LOQ-0.01)	mg/l	0.02	No relaxation
30	Free Residual Chlorine	IS 3025 (P-26):2021	*BLQ(**LOQ-0.2)	mg/l	0.2	1.0
31	Sodium as Na	APHA 23rd Edition 3500B 2017	370.63	mg/l	-	-
32	Potassium as K	APHA 23rd Edition,3030D,3113 B 2017	22.63	mg/l	-	-



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Sample Number : VTLW/01

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

\*\*\*End of Report\*\*\*

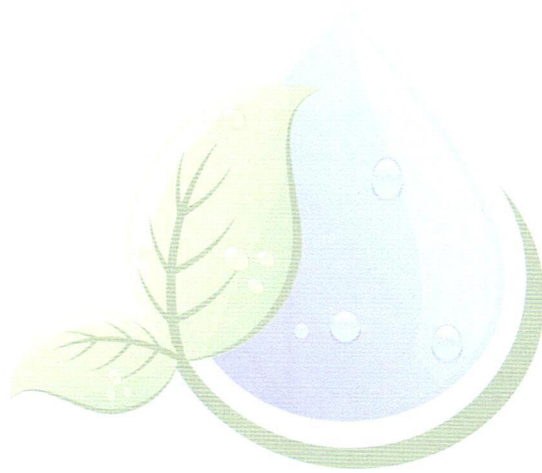
TEST REPORT



TC-11227

ULR No. : TC112272300000671F

Report No. : VTLW/2312250012/A



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# TEST REPORT

## VIBRANT

"Experience the unimaginable"

Sample Number : VTLW/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

Report No. : VTLW/2312250012/B

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 28/12/2023

Period of Analysis : 25/12/2023-28/12/2023

Receipt Date : 25/12/2023

Sampling Date : 22/12/2023

Sampling Type : Grab

Sample Quantity : 2 Ltr.

Coordinates : 73°46'9" & 26°33'38"

Sample Description : Water Sample  
Sampling Location : Dhanappa Village (Tubewell M.L.No.-03/93)  
Sample Collected By : VTL Team  
Preservation : Suitable Preservation  
Method of sampling : IS :3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	Colour	IS : 3025:(P-4)1983, :RA 2017	*BLQ(**LOQ-5.0)	Hazen	5	15
2	Odour	IS : 3025 (P-5) : RA 2018	Agreeable	--	Agreeable	Agreeable
3	Taste	IS :3025 (P-8): 1984 RA 2017	Agreeable	--	Agreeable	Agreeable
4	Mineral Oil	IS 3025 (P-39) 1989	*BLQ(**LOQ-0.05)	mg/l	0.5	No Relaxation
5	Anionic Detergents (as MBAS)	APHA 23rd Edition , 5540C 2017	*BLQ(**LOQ-0.05)	mg/l	0.2	1.0
6	Silver as Ag	APHA 23rd Edition, 3111B 2017	*BLQ(**LOQ-0.01)	mg/l	0.1	No relaxation
7	Chloramines as CL2	APHA 23rd Edition,4500G 2017	*BLQ(**LOQ-0.5)	mg/l	4.0	No relaxation
8	Barium as Ba	APHA 23rd Edition,3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.7	No relaxation
9	Molybdenum	APHA 23rd Edition,3111B 2017	*BLQ(**LOQ-0.5)	mg/l	0.07	No relaxation
10	Polynuclear-aromatic Hydrocarbon (PAH)	APHA 23rd Edition,5175/6630 2017	*BLQ(**LOQ-0.01)	mg/l	0.0001	No relaxation
11	Polychlorinated biphenyls (PCB)	APHA 23rd Edition,6440, 2017	*BLQ(**LOQ-0.01)	mg/l	0.0005	No relaxation

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

\*\*\*End of Report\*\*\*



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**TEST REPORT**



TC-11227

**Sample Number :** VTL/SW/02  
**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

**ULR No. :** TC112272300000673F  
**Report No. :** VTLW/2312250013/A  
**Format No :** 7.8 F-01  
**Party Reference No :** NIL  
**Report Date :** 28/12/2023  
**Period of Analysis :** 25/12/2023-28/12/2023  
**Receipt Date :** 25/12/2023  
**Sampling Date :** 22/12/2023  
**Sampling Type :** Grab  
**Sample Quantity :** 2 Ltr.  
**Coordinates :** 73°46'9" & 26°33'38"

**Sample Description :** Water Sample  
**Sampling Location :** Dhanappa Village (Surface Water M.L.No.-03/93)  
**Sample Collected By :** VTL Team  
**Preservation :** Suitable Preservation  
**Method of sampling :** IS :3025

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	7.79	--	6.5 to 8.5	No Relaxation
2	Turbidity	IS : 3025: (P-10)1984, RA 2017	*BLQ(**LOQ-1.0)	NTU	1	5
3	Total Hardness (as CaCO3)	IS: 3025 (P-21): 2009, RA 2019	44.00	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	8.02	mg/l	75	200
5	Total Alkalinity (as CaCO3)	IS: 3025 (P-23): 1986, RA 2019	38.00	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	57.43	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	5.83	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	195.20	mg/l	500	2000
9	Sulphate (as SO4)	IS: 3025 (P-24): 1986, RA 2022	15.53	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	0.24	mg/l	1.0	1.5
11	Nitrate (as NO3)	IS: 3025 (P-34): 1988	9.28	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.16	mg/l	1.0	No Relaxation
13	Aluminium (as Al)	IS 3025 (P-55): 2003, RA 2019	*BLQ(**LOQ-0.03 )	mg/l	0.03	0.2
14	Boron (as B)	APHA 23rd Edition, 4500B,2017	*BLQ(**LOQ-0.2)	mg/l	0.5	1.0
15	Total Chromium (as Cr)	APHA 23rd Edition 2017 3113 B, 2017	*BLQ(**LOQ-0.02)	mg/l	0.05	No Relaxation
16	Phenolic Compounds (C6H5OH)	APHA 23rd Edition 5530C: 2017	*BLQ(**LOQ-0.001)	mg/l	0.001	0.002
17	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.28	mg/l	5.0	15.0



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# TEST REPORT



TC-11227

## VIBRANT

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Sample Number : VTL/SW/02

ULR No. : TC112272300000673F

Report No. : VTL/W/2312250013/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.05	1.5
19	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BLQ(**LOQ-0.05)	mg/l	0.1	0.3
20	Cadmium (as Cd)	APHA 23rd Edition, 3030D, 3113 B, 2017	*BLQ(**LOQ-0.002)	mg/l	0.003	No Relaxation
21	Lead (as Pb)	APHA 23rd Edition, 3030D, 3113 B, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
22	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
23	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	0.05
24	Mercury (as Hg)	APHA 23rd edition, 3114C 2017	*BLQ(**LOQ-0.001)	mg/l	0.001	No Relaxation
25	Total Coliform	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
26	E.Coli	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
27	Ammonia (as N)	IS-3025 (P-34)- 1988, Sec. RA :2022	*BLQ(**LOQ-0.3)	mg/l	0.5	No Relaxation
28	Sulphide	IS 3025 (P-29) :1986 RA 2019 Idometric	*BLQ(**LOQ-0.1)	mg/l	0.05	No Relaxation
29	Nickel as Ni	APHA 23rd Edition, 3030D, 3113B 2017	*BLQ(**LOQ-0.01)	mg/l	0.02	No relaxation
30	Free Residual Chlorine	IS 3025 (P-26):2021	*BLQ(**LOQ-0.2)	mg/l	0.2	1.0
31	Sodium as Na	APHA 23rd Edition 3500B 2017	52.50	mg/l	-	-
32	Potassium as K	APHA 23rd Edition, 3030D, 3113 B 2017	4.31	mg/l	-	-



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TEST REPORT



TC-11227

**VIBRANT**

*"Experience the unimaginable"*

Sample Number : VTL/SW/02

ULR No. : TC112272300000673F  
Report No. : VTLW/2312250013/A

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

\*\*\*End of Report\*\*\*



**VIBRANT**

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**TEST REPORT**

Sample Number : VTL/SW/02

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

Report No. : VTLW/2312250013/B

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 28/12/2023

Period of Analysis : 25/12/2023-28/12/2023

Receipt Date : 25/12/2023

Sampling Date : 22/12/2023

Sampling Type : Grab

Sample Quantity : 2 Ltr.

Coordinates : 73°46'9" & 26°33'38"

Sample Description : Water Sample  
Sampling Location : Dhanappa Village (Surface Water M.L.No.-03/93)  
Sample Collected By : VTL Team  
Preservation : Suitable Preservation  
Method of sampling : IS :3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	Colour	IS : 3025:(P-4)1983, :RA 2017	*BLQ(**LOQ-5.0)	Hazen	5	15
2	Odour	IS : 3025 (P-5) : RA 2018	Agreeable	--	Agreeable	Agreeable
3	Taste	IS :3025 (P-8): 1984 RA 2017	Agreeable	--	Agreeable	Agreeable
4	Mineral Oil	IS 3025 (P-39) 1989	*BLQ(**LOQ-0.05)	mg/l	0.5	No Relaxation
5	Anionic Detergents (as MBAS)	APHA 23rd Edition , 5540C 2017	*BLQ(**LOQ-0.05)	mg/l	0.2	1.0
6	Silver as Ag	APHA 23rd Edition, 3111B 2017	*BLQ(**LOQ-0.01)	mg/l	0.1	No relaxation
7	Chloramines as CL2	APHA 23rd Edition,4500G 2017	*BLQ(**LOQ-0.5)	mg/l	4.0	No relaxation
8	Barium as Ba	APHA 23rd Edition,3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.7	No relaxation
9	Molybdenum	APHA 23rd Edition,3111B 2017	*BLQ(**LOQ-0.5)	mg/l	0.07	No relaxation
10	Polynuclear-aromatic Hydrocarbon (PAH)	APHA 23rd Edition,5175/6630 2017	*BLQ(**LOQ-0.01)	mg/l	0.0001	No relaxation
11	Polychlorinated biphenyls (PCB)	APHA 23rd Edition,6440, 2017	*BLQ(**LOQ-0.01)	mg/l	0.0005	No relaxation

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

\*\*\*End of Report\*\*\*



Checked by



RK Yadav   
Lab Incharge  
Authorized Signatory



**VIBRANT**

"Experience the unimaginable"

Sample Number:  
Name & Address of the Party

VTL/AA/10-13  
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 Air Quality Monitoring

**TEST REPORT**



TC-11227

Report No.: VTL/A/2312250010-13/A  
Format No.: 7.8 F 02  
Party Reference No.: NIL  
Report Date: 28/12/2023  
Period of Analysis: 25-28/12/2023  
Receipt Date: 25/12/2023

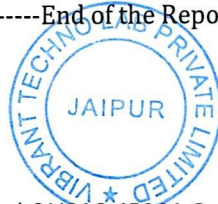
**General Information:-**

Sample collected by : VTL Team  
Instrument Calibration Status : Calibrated  
Meteorological condition during monitoring : Clear sky  
Date of Sampling : 21/12/2023 to 22/12/2023  
Ambient Temperature (°C) : Min. 11°C, Max. 30 °C  
Surrounding Activity : Human , Vehicular & Other 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				Unit	NAAQS 2009
			Dhanappa Vill. (ML.- 03/93,75/90 ,25/2006) (Buffer Zone)	Basni Vill. (ML.- 03/93,75/90, 25/2006) (Buffer Zone)	Ramnagar Vill. (ML.- 03/93,75/90, 25/2006) (Buffer Zone)	Pundlu Vill. (ML.- 03/93,75/90, 25/2006) (Buffer Zone)		
			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 2017	57.45	63.14	60.85	61.23	µg/m <sup>3</sup>	100
2.	Particulate Matter (PM2.5)	IS 5182 (P-24) -2019	30.85	31.45	30.25	31.65	µg/m <sup>3</sup>	60
3.	Nitrogen Dioxide (NO2)	IS: 5182 (P-6), 2006 RA 2018	12.45	16.85	14.03	16.35	µg/m <sup>3</sup>	80
4.	Sulphur Dioxide (SO2)	IS: 5182 (P-2), 2001, RA 2018	7.21	8.74	7.85	9.82	µg/m <sup>3</sup>	80
5.	Benzene (as C6H6)	IS: 5182 (P-11)-2006, RA.2017	*BLQ(**LOQ1.0)	*BLQ(**LOQ1.0)	*BLQ(**LOQ1.0)	*BLQ(**LOQ1.0)	µg/m <sup>3</sup>	5
6.	Ammonia (as NH3)	3rd Ed. 1988, Method No. 401	*BLQ(**LOQ2.0)	*BLQ(**LOQ2.0)	*BLQ(**LOQ2.0)	*BLQ(**LOQ2.0)	µg/m <sup>3</sup>	400
7.	Ozone (as O3)	IS:5182 (P-9):1974, RA.2019	8.45	9.35	8.29	9.16	µg/m <sup>3</sup>	180
8.	Lead (as pb)	IS:5182 (P-22):2004, RA.2019	*BLQ(**LOQ0.02)	*BLQ(**LOQ0.02)	*BLQ(**LOQ0.02)	*BLQ(**LOQ0.02)	µg/m <sup>3</sup>	1
9.	Arsenic (as As)	3rd Ed. 1988, Method No. 302	*BLQ(**LOQ0.15)	*BLQ(**LOQ0.15)	*BLQ(**LOQ0.15)	*BLQ(**LOQ0.15)	ng/m <sup>3</sup>	6
10.	Nickel (as Ni)	USEPA Compendium IO-3.2, 1999	*BLQ(**LOQ5.0)	*BLQ(**LOQ5.0)	*BLQ(**LOQ5.0)	*BLQ(**LOQ5.0)	ng/m <sup>3</sup>	20
11.	Benzo (a) Pyrene	IS:5182 (P-12):2004, RA.2019	*BLQ(**LOQ0.2)	*BLQ(**LOQ0.2)	*BLQ(**LOQ0.2)	*BLQ(**LOQ0.2)	ng/m <sup>3</sup>	1

-----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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# TEST REPORT

**VIBRANT**  
"Experience the unimaginable"

**Sample Number:** VTL/AA/10-13  
**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/2312250010-13/B  
**Format No.:** 7.8 F 02  
**Party Reference No.:** NIL  
**Report Date:** 28/12/2023  
**Period of Analysis:** 25-28/12/2023  
**Receipt Date** 25/12/2023

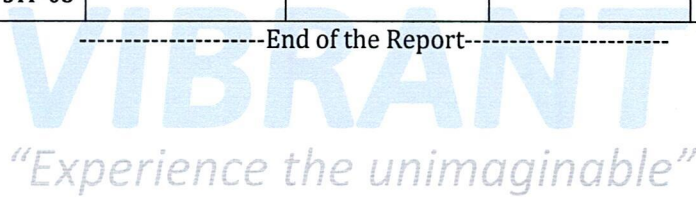
**Sample Description :** Ambient Air Quality Monitoring

**General Information:-**

**Sample collected by** : VTL Team  
**Instrument Calibration Status** : Calibrated  
**Meteorological condition during monitoring** : Clear sky  
**Date of Sampling** : 21/12/2023 to 22/12/2023  
**Ambient Temperature (°C)** : Min. 11°C, Max. 30 °C  
**Surrounding Activity** : Human , Vehicular & Other 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				Unit	NAAQS 2009
			Dhanappa Vill. (ML.- 03/93,75/90 ,25/2006) (Buffer Zone)	Basni Vill. (ML.- 03/93,75/90, 25/2006) (Buffer Zone)	Ramnagar Vill. (ML.- 03/93,75/90, 25/2006) (Buffer Zone)	Pundlu Vill. (ML.- 03/93,75/90, 25/2006) (Buffer Zone)		
			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.	Carbon Monoxide (as CO)	Lab SOP no. VTL/STP/02:2022, STP-08	0.50	0.58	0.56	0.57	mg/m <sup>3</sup>	4

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



Checked By



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Lab Incharge  
Authorized Signatory

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**Vibrant Techno Lab Pvt. Ltd.**

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Sample Number: VTL/AN/10-13  
 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/2312250010-13/A  
 Format No.: 7.8 F 04  
 Party Reference No.: NIL  
 Report Date: 28/12/2023  
 Receipt Date: 25/12/2023  
 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 : 21/12/2023 to 22/12/2023  
 Time of Monitoring : 06:00 AM to 06:00AM  
 Ambient Temperature (°C) : Min. 11°C, Max. 30 °C  
 Surrounding Activity : Human , Vehicular & Plant Activities  
 Parameter Required : As per Work Order

Sr.	Test Parameter	Protocol	Location & Latlong							
			Dhanappa Vill. (ML.-03/93,75/90 ,25/2006) (Buffer Zone) 73°44'45"E 26°33'57"N		Basni Vill. (ML.-03/93,75/90, 25/2006) (Buffer Zone) 73°48'37"E 26°36'31"N		Ramnagar Vill. (ML.-03/93,75/90, 25/2006) (Buffer Zone) 73°45'19"E 26°36'42"N		Pundlu Vill. (ML.-03/93,75/90, 25/2006) (Buffer Zone) 73°48'41"E 26°32'57"N	
			Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
1.	Leq, dB(A)	IS:9989-1981, RA 2020	53.2	42.1	54.1	52.6	50.9	41.8	52.4	43.7

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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Sample Number: VTL/AA/01-04 Report No.: VTL/A/2403210001-04/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) Village-Dhanappa, Teh.- Merta, Dist.- Nagaur, Raj. Format No.: 7.8 F 02  
 Party Reference No.: NIL  
 Report Date: 24/03/2024  
 Sample Description: Ambient Air Quality Monitoring Period of Analysis: 21-24/03/2024  
 Receipt Date: 21/03/2024

General Information:-  
 Sample collected by : VTL Team  
 Instrument Calibration Status : Calibrated  
 Meteorological condition during monitoring : Clear sky  
 Date of Sampling : 16/03/2024 to 17/03/2024  
 Ambient Temperature (°C) : Min. 15°C, Max. 32 °C  
 Surrounding Activity : Human, Vehicular & Plant 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				Unit	NAAQS 2009
			Mines Office (ML.No.-03/93)(Core Zone)	Pit No.-1 (ML.No.-03/93)(Core Zone)	Pit No.-2 (ML.No.-03/93)(Core Zone)	Pit No.-3 (ML.No.-03/93)(Core Zone)		
			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 2017	61.15	63.54	57.19	63.26	µg/m <sup>3</sup>	100
2.	Particulate Matter (PM2.5)	IS 5182 (P-24) - 2019	32.45	34.47	31.75	33.69	µg/m <sup>3</sup>	60
3.	Nitrogen Dioxide (NO2)	IS: 5182 (P-6), 2006 RA 2018	16.29	17.34	15.17	15.69	µg/m <sup>3</sup>	80
4.	Sulphur Dioxide (SO2)	IS: 5182 (P-2), 2001, RA 2018	7.59	8.23	7.11	8.86	µg/m <sup>3</sup>	80
5.	Benzene (as C6H6)	IS: 5182 (P-11)-2006, RA.2017	*BLQ(**LOQ1.0)	*BLQ(**LOQ1.0)	*BLQ(**LOQ1.0)	*BLQ(**LOQ1.0)	µg/m <sup>3</sup>	5
6.	Ammonia (as NH3)	3 <sup>rd</sup> Ed. 1988, Method No. 401	*BLQ(**LOQ2.0)	*BLQ(**LOQ2.0)	*BLQ(**LOQ2.0)	*BLQ(**LOQ2.0)	µg/m <sup>3</sup>	400
7.	Ozone (as O3)	IS:5182 (P-9):1974, RA.2019	6.83	6.47	5.99	6.74	µg/m <sup>3</sup>	180
8.	Lead (as pb)	IS:5182 (P-22):2004, RA.2019	*BLQ(**LOQ0.02)	*BLQ(**LOQ0.02)	*BLQ(**LOQ0.02)	*BLQ(**LOQ0.02)	µg/m <sup>3</sup>	1
9.	Arsenic (as As)	3 <sup>rd</sup> Ed. 1988, Method No. 302	*BLQ(**LOQ0.15)	*BLQ(**LOQ0.15)	*BLQ(**LOQ0.15)	*BLQ(**LOQ0.15)	ng/m <sup>3</sup>	6
10.	Nickel (as Ni)	USEPA Compendium IO-3.2, 1999	*BLQ(**LOQ5.0)	*BLQ(**LOQ5.0)	*BLQ(**LOQ5.0)	*BLQ(**LOQ5.0)	ng/m <sup>3</sup>	20
11.	Benzo (a) Pyrene	IS:5182 (P-12):2004, RA.2019	*BLQ(**LOQ0.2)	*BLQ(**LOQ0.2)	*BLQ(**LOQ0.2)	*BLQ(**LOQ0.2)	ng/m <sup>3</sup>	1

Checked By



RK Yadav  
Lab Incharge  
Authorized Signatory

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Vibrant Techno Lab Pvt. Ltd.

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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/2403210001-04/B  
**Format No.:** 7.8 F 02  
**Party Reference No.:** NIL

**Sample Description :** Ambient Air Quality Monitoring

**Report Date:** 24/03/2024  
**Period of Analysis:** 21-24/03/2024  
**Receipt Date** 21/03/2024

**General Information:-**

**Sample collected by** : VTL Team  
**Instrument Calibration Status** : Calibrated  
**Meteorological condition during monitoring** : Clear sky  
**Date of Sampling** : 16/03/2024 to 17/03/2024  
**Ambient Temperature (°C)** : Min. 15°C, Max. 32 °C  
**Surrounding Activity** : Human , Vehicular & Plant 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				Unit	NAAQS 2009
			Mines Office (ML.No.-03/93)(Core Zone)	Pit No.-1 (ML.No.-03/93)(Core Zone)	Pit No.-2 (ML.No.-03/93)(Core Zone)	Pit No.-3 (ML.No.-03/93)(Core Zone)		
			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		
12.	Carbon Monoxide (as CO)	Lab SOP no. VTL/STP/02:2022, STP-08	0.50	0.51	0.54	0.65	mg/m <sup>3</sup>	4

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

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**Lab Incharge**  
 Authorized Signatory 

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Sample Number:	VTL/AN/01-04	Report No.:	VTL/N/2403210001-04/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) 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:	24/03/2024
Protocol Used:	IS 9989	Receipt Date:	21/03/2024
Instrument Used:	SLM	Sampling Duration	24 Hrs.
		Sample Collected by	VTL Team
		Instrument	Calibrated
		Calibration Status	Calibrated

**Ambient Noise Level Monitoring Results**

**General Information:-**

Meteorological condition during monitoring	: Clear sky
Date of Monitoring	: 16/03/2024 to 17/03/2024
Time of Monitoring	: 06:00 AM to 06:00AM
Ambient Temperature (°C)	: Min. 15°C, Max. 32 °C
Surrounding Activity	: Human , Vehicular & Plant Activities
Parameter Required	: As per Work Order

Sr.	Test Parameter	Protocol	Location & Latlong							
			Mines Office (ML.No.- 03/93)(Core Zone)		Pit No.-1 (ML.No.- 03/93)(Core Zone)		Pit No.-2 (ML.No.- 03/93)(Core Zone)		Pit No.-3 (ML.No.- 03/93)(Core Zone)	
			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
			52.4	41.6	55.3	45.9	54.3	44.3	57.6	46.8

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



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Lab Incharge  
Authorized Signatory

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# TEST REPORT



TC-11227

## VIBRANT

"Experience the unimaginable"

Sample Number : VTL/GW/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 : Water Sample

Sampling Location : Dhanappa Village (Tubewell M.L.No.-03/93)

Sample Collected By : VTL Team

Preservation : Suitable Preservation

Method of sampling : IS :3025

ULR No. : TC1122724000000316F

Report No. : VTLW/2403210009/A

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 29/03/2024

Period of Analysis : 21/03/2024-29/03/2024

Receipt Date : 21/03/2024

Sampling Date : 18/03/2024

Sampling Type : Grab

Sample Quantity : 2 Ltr.

Coordinates : 73°46'9" & 26°33'38"

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	7.58	--	6.5 to 8.5	No Relaxation
2	Turbidity	IS : 3025: (P-10)1984, RA 2017	*BLQ(**LOQ-1.0)	NTU	1	5
3	Total Hardness (as CaCO3)	IS: 3025 (P-21): 2009, RA 2019	370.00	mg/l	200	600
4	Calcium (as Ca)	IS: 3025 (P- 40): 1991 RA 2019	64.12	mg/l	75	200
5	Total Alkalinity (as CaCO3)	IS: 3025 (P-23): 1986, RA 2019	380.00	mg/l	200	600
6	Chloride (as Cl)	IS: 3025 (P-32): 1988, RA 2019	368.68	mg/l	250	1000
7	Magnesium (as Mg)	IS: 3025 (P-46): 1994, RA 2019	51.03	mg/l	30	100
8	Total Dissolved Solids	IS :3025 (P-16): 1984, RA 2017	1406.80	mg/l	500	2000
9	Sulphate (as SO4)	IS: 3025 (P-24): 1986, RA 2022	122.97	mg/l	200	400
10	Fluoride (as F)	APHA 23rd Edition ,4500FD :2017	1.22	mg/l	1.0	1.5
11	Nitrate (as NO3)	IS: 3025 (P-34): 1988	39.85	mg/l	45.0	No Relaxation
12	Iron (as Fe)	APHA 23rd Edition , 3111B,2017	0.41	mg/l	1.0	No Relaxation
13	Aluminium (as Al)	IS 3025 (P-55): 2003, RA 2019	*BLQ(**LOQ-0.03 )	mg/l	0.03	0.2
14	Boron (as B)	APHA 23rd Edition, 4500B,2017	*BLQ(**LOQ-0.2)	mg/l	0.5	2.4
15	Total Chromium (as Cr)	APHA 23rd Edition 2017 3113 B, 2017	*BLQ(**LOQ-0.02)	mg/l	0.05	No Relaxation
16	Phenolic Compounds (C6H5OH)	APHA 23rd Edition 5530C: 2017	*BLQ(**LOQ-0.001)	mg/l	0.001	0.002
17	Zinc (as Zn)	APHA 23rd Edition,3030D, 3113 B , 2017	0.51	mg/l	5.0	15.0



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Page No. 1/3

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# TEST REPORT



TC-11227

## VIBRANT

"Experience the unimaginable"

Sample Number : VTL/GW/01

ULR No. : TC112272400000316F

Report No. : VTLW/2403210009/A

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
18	Copper (as Cu)	APHA 23rd Edition 3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.05	1.5
19	Manganese (as Mn)	APHA 23rd Edition, 3030D, 3111 B, 2017	*BLQ(**LOQ-0.05)	mg/l	0.1	0.3
20	Cadmium (as Cd)	APHA 23rd Edition, 3030D, 3113 B, 2017	*BLQ(**LOQ-0.002)	mg/l	0.003	No Relaxation
21	Lead (as Pb)	APHA 23rd Edition, 3030D, 3113 B,2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
22	Selenium (as Se)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
23	Arsenic (as As)	APHA 23rd Edition, 3114C, 2017	*BLQ(**LOQ-0.005)	mg/l	0.01	No Relaxation
24	Mercury (as Hg)	APHA 23rd edition, 3114C 2017	*BLQ(**LOQ-0.001)	mg/l	0.001	No Relaxation
25	Total Coliform	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
26	E.Coli	IS : 15185 : 2016	Absent	per 100 ml	Shall not be detectable in any 100 ml sample	--
27	Ammonia (as N)	IS-3025 (P-34)- 1988,Sec. RA :2022	*BLQ(**LOQ-0.3)	mg/l	0.5	No Relaxation
28	Sulphide	IS 3025 (P-29) :1986 RA 2019 Idometric	*BLQ(**LOQ-0.1)	mg/l	0.05	No Relaxation
29	Nickel as Ni	APHA 23rd Edition,3030D,3113B 2017	*BLQ(**LOQ-0.01)	mg/l	0.02	No relaxation
30	Free Residual Chlorine	IS 3025 (P-26):2021	*BLQ(**LOQ-0.2)	mg/l	0.2	1.0
31	Sodium as Na	APHA 23rd Edition 3500B 2017	388.75	mg/l	-	-
32	Potassium as K	APHA 23rd Edition,3030D,3113 B 2017	23.50	mg/l	-	-



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TEST REPORT



TC-11227

**VIBRANT**

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Sample Number : VTL/GW/01

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

\*\*\*End of Report\*\*\*

ULR No. : TC1122724000000316F

Report No. : VTLW/2403210009/A



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# TEST REPORT



## VIBRANT

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**Sample Number :** VTL/GW/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

**Report No. :** VTL/W/2403210009/B  
**Format No :** 7.8 F-01  
**Party Reference No :** NIL  
**Report Date :** 29/03/2024  
**Period of Analysis :** 21/03/2024-29/03/2024  
**Receipt Date :** 21/03/2024  
**Sampling Date :** 18/03/2024  
**Sampling Type :** Grab  
**Sample Quantity :** 2 Ltr.  
**Coordinates :** 73°46'9" & 26°33'38"

**Sample Description :** Water Sample  
**Sampling Location :** Dhanappa Village (Tubewell M.L.No.-03/93)  
**Sample Collected By :** VTL Team  
**Preservation :** Suitable Preservation  
**Method of sampling :** IS :3025

S.No.	Test Parameters	Test Method	Results	Units	IS:10500-2012	
					Acceptable Limit	Permissible Limit
1	Colour	IS : 3025:(P-4)1983, :RA 2017	*BLQ(**LOQ-5.0)	Hazen	5	15
2	Odour	IS : 3025 (P-5) : RA 2018	Agreeable	--	Agreeable	Agreeable
3	Taste	IS :3025 (P-8): 1984 RA 2017	Agreeable	--	Agreeable	Agreeable
4	Anionic Detergents (as MBAS)	APHA 23rd Edition , 5540C 2017	*BLQ(**LOQ-0.05)	mg/l	0.2	1.0
5	Silver as Ag	APHA 23rd Edition, 3111B 2017	*BLQ(**LOQ-0.01)	mg/l	0.1	No relaxation
6	Chloramines as CL2	APHA 23rd Edition,4500G 2017	*BLQ(**LOQ-0.5)	mg/l	4.0	No relaxation
7	Barium as Ba	APHA 23rd Edition,3111B 2017	*BLQ(**LOQ-0.02)	mg/l	0.7	No relaxation
8	Molybdenum	APHA 23rd Edition,3111B 2017	*BLQ(**LOQ-0.5)	mg/l	0.07	No relaxation
9	Polynuclear-aromatic Hydrocarbon (PAH)	APHA 23rd Edition,5175/6630 2017	*BLQ(**LOQ-0.01)	mg/l	0.0001	No relaxation
10	Polychlorinated biphenyls (PCB)	APHA 23rd Edition,6440, 2017	*BLQ(**LOQ-0.01)	mg/l	0.0005	No relaxation

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

\*\*\*End of Report\*\*\*



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Sample Number: VTL/AA/10-13 Report No.: VTL/A/2403210010-13/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) Village-Dhanappa, Teh.- Merta, Dist.- Nagaur, Raj. Format No.: 7.8 F 02  
 Party Reference No.: NIL  
 Report Date: 24/03/2024  
 Sample Description: Ambient Air Quality Monitoring Period of Analysis: 21-24/03/2024  
 Receipt Date: 21/03/2024

General Information:-  
 Sample collected by : VTL Team  
 Instrument Calibration Status : Calibrated  
 Meteorological condition during monitoring : Clear sky  
 Date of Sampling : 16/03/2024 to 17/03/2024  
 Ambient Temperature (°C) : Min. 15°C, Max. 32°C  
 Surrounding Activity : Human, Vehicular & Other 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				Unit	NAAQS 2009
			Dhanappa Vill. (ML-03/93,75/90,25/2006) (Buffer Zone)	Basni Vill. (ML-03/93,75/90,25/2006) (Buffer Zone)	Ramnagar Vill. (ML-03/93,75/90,25/2006) (Buffer Zone)	Pundlu Vill. (ML-03/93,75/90,25/2006) (Buffer Zone)		
			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 2017	54.35	61.19	58.47	60.54	µg/m <sup>3</sup>	100
2.	Particulate Matter (PM2.5)	IS 5182 (P-24) - 2019	28.87	30.39	28.27	29.08	µg/m <sup>3</sup>	60
3.	Nitrogen Dioxide (NO <sub>2</sub> )	IS: 5182 (P-6), 2006 RA 2018	11.44	15.23	13.08	15.53	µg/m <sup>3</sup>	80
4.	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (P-2), 2001, RA 2018	6.05	7.64	6.96	8.29	µg/m <sup>3</sup>	80
5.	Benzene (as C <sub>6</sub> H <sub>6</sub> )	IS: 5182 (P-11)-2006, RA.2017	*BLQ(**LOQ1.0)	*BLQ(**LOQ1.0)	*BLQ(**LOQ1.0)	*BLQ(**LOQ1.0)	µg/m <sup>3</sup>	5
6.	Ammonia (as NH <sub>3</sub> )	3 <sup>rd</sup> Ed. 1988, Method No. 401	*BLQ(**LOQ2.0)	*BLQ(**LOQ2.0)	*BLQ(**LOQ2.0)	*BLQ(**LOQ2.0)	µg/m <sup>3</sup>	400
7.	Ozone (as O <sub>3</sub> )	IS:5182 (P-9):1974, RA.2019	7.48	8.51	7.24	8.59	µg/m <sup>3</sup>	180
8.	Lead (as pb)	IS:5182 (P-22):2004, RA.2019	*BLQ(**LOQ0.02)	*BLQ(**LOQ0.02)	*BLQ(**LOQ0.02)	*BLQ(**LOQ0.02)	µg/m <sup>3</sup>	1
9.	Arsenic (as As)	3 <sup>rd</sup> Ed. 1988, Method No. 302	*BLQ(**LOQ0.15)	*BLQ(**LOQ0.15)	*BLQ(**LOQ0.15)	*BLQ(**LOQ0.15)	ng/m <sup>3</sup>	6
10.	Nickel (as Ni)	USEPA Compendium IO-3.2, 1999	*BLQ(**LOQ5.0)	*BLQ(**LOQ5.0)	*BLQ(**LOQ5.0)	*BLQ(**LOQ5.0)	ng/m <sup>3</sup>	20
11.	Benzo (a) Pyrene	IS:5182 (P-12):2004, RA.2019	*BLQ(**LOQ0.2)	*BLQ(**LOQ0.2)	*BLQ(**LOQ0.2)	*BLQ(**LOQ0.2)	ng/m <sup>3</sup>	1



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 Lab Incharge  
 Authorized Signatory



Sample Number: VTL/AA/10-13 Report No.: VTL/A/2403210010-13/B  
 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. Format No.: 7.8 F 02  
 Party Reference No.: NIL  
 Report Date: 24/03/2024  
 Sample Description : Ambient Air Quality Monitoring Period of Analysis: 21-24/03/2024  
 Receipt Date: 21/03/2024

General Information:-  
 Sample collected by : VTL Team  
 Instrument Calibration Status : Calibrated  
 Meteorological condition during monitoring : Clear sky  
 Date of Sampling : 16/03/2024 to 17/03/2024  
 Ambient Temperature (°C) : Min. 15°C, Max. 32°C  
 Surrounding Activity : Human , Vehicular & Other 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				Unit	NAAQS 2009
			Dhanappa Vill. (ML.- 03/93,75/90,25/2006)	Basni Vill. (ML.- 03/93,75/90,25/2006)	Ramnagar Vill. (ML.- 03/93,75/90,25/2006)	Pundlu Vill. (ML.- 03/93,75/90,25/2006)		
			(Buffer Zone) 73°44'45"E 26°33'57"N	(Buffer Zone) 73°48'37"E 26°36'31"N	(Buffer Zone) 73°45'19"E 26°36'42"N	(Buffer Zone) 73°48'41"E 26°32'57"N		
1.	Carbon Monoxide (as CO)	Lab SOP no. VTL/STP/02:2022, STP-08	0.49	0.55	0.53	0.55	mg/m <sup>3</sup>	4

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

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<b>Sample Number:</b>	VTL/AN/10-13	<b>Report No.:</b>	VTL/N/2403210010-13/A
<b>Name &amp; Address of the Party:</b>	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.	<b>Format No.:</b>	7.8 F 04
<b>Sample Description:</b>	Ambient Noise Level Monitoring	<b>Party Reference No.:</b>	NIL
<b>Scope of Monitoring</b>	Regulatory Requirement	<b>Report Date:</b>	24/03/2024
<b>Protocol Used:</b>	IS 9989	<b>Receipt Date:</b>	21/03/2024
<b>Instrument Used:</b>	SLM	<b>Sampling Duration</b>	24 Hrs.
		<b>Sample Collected by</b>	VTL Team
		<b>Instrument Calibration Status</b>	Calibrated

**Ambient Noise Level Monitoring Results**

**General Information:-**  
**Meteorological condition during monitoring** : Clear sky  
**Date of Monitoring** : 16/03/2024 to 17/03/2024  
**Time of Monitoring** : 06:00 AM to 06:00AM  
**Ambient Temperature (°C)** : Min. 15°C, Max. 32°C  
**Surrounding Activity** : Human , Vehicular & Plant Activities  
**Parameter Required** : As per Work Order

Sr.	Test Parameter	Protocol	Location & Latlong							
			Dhanappa Vill. (ML.-03/93,75/90 ,25/2006) (Buffer Zone)		Basni Vill. (ML.-03/93,75/90, 25/2006) (Buffer Zone)		Ramnagar Vill. (ML.-03/93,75/90, 25/2006) (Buffer Zone)		Pundlu Vill. (ML.-03/93,75/90, 25/2006) (Buffer Zone)	
			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
			54.6	43.2	53.4	51.7	50.8	40.3	51.9	42.5

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-----

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