

o/c

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

3015

Regd. A/D

Date: 15.11.2021

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 April. 2021 to Sept. - 2021 in respect of Dhanappa limestone Mines, Tehsil Merta city, District Nagaur, Rajasthan

Sir,

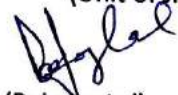
Please find enclosed herewith the six monthly compliance report from the period of April. 2021 to Sept. - 2021 of our Dhanappa Limestone mines near village Dhanappa, Tehsil Merta city, District Nagaur in Rajasthan admeasuring 400.00 ha. And M.L. 03/1993.

Thanks

Yours Truly,

For JK White Cement Works

(Unit of JK Cement Ltd)



(Bajrang Lal)

General Manager (Mines)

Enc.: - Monitoring Reports.

CC: The Additional Director (S),

Ministry of Environment & Forests,

Paryavaran Bhavan, CGO Complex,

Lodi Road. New Delhi -110003

Regd. A/D

CC: Member Secretary

Rajasthan State Pollution Control Board,

4th Institutional Area, Jhalana Doongari,

Jaipur - 302004

Regd. A/D

3016

3017

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: April. 2021 to September. 2021

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 -2018/9170-9174 dated 31.01.2018 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	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

	Forest and the Central Ground Water Authority shall be obtained, for which a detailed hydro-geological study shall be carried out.	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 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.	Shall be complied with.
(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 47.95 ha area has been backfilled by the end of Sept. 2021 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	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.

	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.	
(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 50.07 ha area is covered under greenbelt/plantation up to September. 2021. We have planted 3937 nos. of plant saplings covering 3.9 ha area in our ML area during the current financial year 2021-22. 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	We are doing regular monitoring of ground water level in the mines as per guideline.

	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 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.	<p>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>
(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)	<p>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.</p> <p>The mineral transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded.</p>	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 2020-21 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), NOx 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 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.	<p>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.</p> <p>All the parameters w. r. t. SPM, RSPM, NOx, SO₂ are well within the stipulated norms. Annexure-I.</p> <p>The monitored data have been displayed on a display board at the Mine site.</p> <p>No water is being discharged from the lease area.</p>
(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 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	No endangered to endemic species of flora and fauna found in the study area. However 10 hectares land has been

	and wildlife department and effectively implemented.	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 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 State Pollution Control Board / Central Pollution Control Board once in six month.	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
(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 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.	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

	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.	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. 12.01 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 financial year April 2020 to 31 st March 2021 has been submitted in Sept. 2021.
(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.
(xix)	The Ministry of other competent authority may alter/ modify the above conditions or stipulate any further condition in the interest of environment protection.	Agreed
(xx)	Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the	Agreed

	provisions of the Environment (Protection) Act, 1986.	
(xxi)	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.
(xxii)	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.)

(Bajrang Lal)

General Manager-Mines



Test Report

Sample Number : VEL/JK/AA/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 Rajasthan

Report No. : VEL/A/2106210005/A

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 28/06/2021

Period of Analysis : 21/06/2021-28/06/2021

Receipt Date : 21/06/2021

Sample Description : AMBIENT AIR

General Information

Sampling Location : Dhanappa Village- (Buffer Zone of MI.No. 03/93, 75/90, 25/2006)
Sample Collected by : VEL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VEL/JAI/RDS/07/FPS/10
Instrument Calibration Status : Calibrated
Latitude : 26°33'50"
Longitude : 73°44'51"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 13/06/2021 To 14/06/2021
Time of Monitoring : 16.28 to 16.20 Hrs.
Ambient Temperature (°C) : Min. 26 Max. 38
Surrounding Activity : Human, Vehicular & Other Activities
Scope of Monitoring : Regulatory Requirement
Sampling & Analysis Protocol : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As Per Work Order

S.No.	Parameters	Test Method	Results	Units	Limit as per CPCB
1	Particulate Matter (as PM -10)	IS:5182 (P- 23)-2006,RA. 2017	74.24	µg/m³	100
2	Particulate Matter (as PM - 2.5)	IS:5182 (P- 24)-2019	32.99	µg/m³	60
3	Nitrogen Dioxides (as NO2)	IS:5182 (P- 6)-2006 RA.2017	13.11	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2017	9.11	µg/m³	80
5	Benzene (as C6H6)	IS 5182 (P-11)-2006 RA.2017	BDL (*DL1.0)	µg/m³	5.0
6	Ammonia (as NH3)	Methods of air sampling and analysis,3rd ed.,1988, Method No. 401	BDL (*DL 2.0)	µg/m³	400.0
7	Ozone (as O3)	IS 5182 (P-9):1974 RA.2014	8.61	µg/m³	180.0
8	Lead (as Pb)	IS 5182 (P-22) : 2004 RA.2014	BDL (*DL 0.02)	µg/m³	1.0
9	Arsenic (as As)	Methods of air sampling and analysis,3rd ed.,1988, Method No.302	BDL (*DL1.0)	ng/m³	6.0
10	Nickel (as Ni)	USEPA compendium IO-3.2,1999	BDL (*DL 5.0)	ng/m³	20.0
11	Benzo (alpha) Pyrene-Particulate Phase Only	IS:5182 (P-12):2004 RA.2014	BDL (*DL 0.5)	ng/m³	1.0

DINESH PALSANIYA
DY TECHNICAL MANAGER

RAJKUMAR YADAV
G M LAB OPERATION
Page No. 1/2



Vardan EnviroLab



TC-6652

Laboratory: Plot No 24 & 25, Narayan Vihar, B-Block, Jaipur(Rajasthan)-302020
MoEF& CC Recognized | ISO 9001 | ISO 45001|


Test Report

Sample Number : VEL/JK/AA/13

Report No. : VEL/A/2106210005/A

*BDL-Below Detection Limit, **DL-Detection Limit

End of Report


DINESH PALSANIYA
(Checked By)
DY TECHNICAL MANAGER

RAJ KUMAR YADAV

(Authorized Signatory)
G M LAB OPERATION



Test Report

Sample Number : VEL/JK/AA/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 Rajasthan

Report No. : VEL/A/2106210005/B

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 28/06/2021

Period of Analysis : 21/06/2021-28/06/2021

Receipt Date : 21/06/2021

Sample Description : AMBIENT AIR

General Information

Sampling Location : Dhanappa Village- (Buffer Zone of ML.No. 03/93, 75/90, 25/2006)
Sample Collected by : VEL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VEL/JAI/RDS/07/FPS/10
Instrument Calibration Status : Calibrated
Latitude : 26°33'50"
Longitude : 73°44'51"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 13/06/2021 To 14/06/2021
Time of Monitoring : 16.28 to 16.20 Hrs.
Ambient Temperature (°C) : Min. 26 Max. 38
Surrounding Activity : Human, Vehicular & Other Activities
Scope of Monitoring : Regulatory Requirement
Sampling & Analysis Protocol : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As Per Work Order

S.No.	Parameters	Test Method	Results	Units	Limit as per CPCB
1	Carbon Monoxide (as CO)	By Analyzer	0.46	mg/m ³	4.0

*BDL-Below Detection Limit, **DL-Detection Limit

DINESH PALSANIYA

End of Report

Checked By: AI, MANAGER

RAJ KUMAR YADAV
(Authorized Signatory)

G M LAB OPERATION



Test Report

Sample Number : VEL/JK/AA/14

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. : VEL/A/2106210006/A

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 28/06/2021

Period of Analysis : 21/06/2021-28/06/2021

Receipt Date : 21/06/2021

Sample Description : AMBIENT AIR

General Information

Sampling Location : Basni Village- (Buffer Zone of MI.No. 03/93, 75/90, 25/2006)
Sample Collected by : VEL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VEL/JAI/RDS/33/FPS/37
Instrument Calibration Status : Calibrated
Latitude : 26°36'31"
Longitude : 73°48'70"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 13/06/2021 To 14/06/2021
Time of Monitoring : 16.00 to 16.10 Hrs.
Ambient Temperature (°C) : Min. 26 Max. 38
Surrounding Activity : Human, Vehicular & Other Activities
Scope of Monitoring : Regulatory Requirement
Sampling & Analysis Protocol : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As Per Work Order

S.No.	Parameters	Test Method	Results	Units	Limit as per CPCB
1	Particulate Matter (as PM -10)	IS:5182 (P- 23)-2006,RA. 2017	74.06	µg/m ³	100
2	Particulate Matter (as PM - 2.5)	IS:5182 (P- 24)-2019	38.55	µg/m ³	60
3	Nitrogen Dioxides (as NO ₂)	IS:5182 (P- 6)-2006 RA.2017	19.37	µg/m ³	80
4	Sulphur Dioxide (as SO ₂)	IS:5182 (P- 2)-2001, RA. 2017	10.41	µg/m ³	80
5	Benzene (as C ₆ H ₆)	IS 5182 (P-11)-2006 RA.2017	BDL (*DL1.0)	µg/m ³	5.0
6	Ammonia (as NH ₃)	Methods of air sampling and analysis,3rd ed.,1988, Method No. 401	BDL (*DL 2.0)	µg/m ³	400.0
7	Ozone (as O ₃)	IS 5182 (P-9):1974 RA.2014	10.33	µg/m ³	180.0
8	Lead (as Pb)	IS 5182 (P-22) : 2004 RA.2014	BDL (*DL 0.02)	µg/m ³	1.0
9	Arsenic (as As)	Methods of air sampling and analysis,3rd ed.,1988, Method No.302	BDL (*DL1.0)	ng/m ³	6.0
10	Nickel (as Ni)	USEPA compendium IO-3.2,1999	BDL (*DL 5.0)	ng/m ³	20.0
11	Benzo (alpha) Pyrene-Particulate Phase Only	IS:5182 (P-12):2004 RA.2014	BDL (*DL 0.5)	ng/m ³	1.0

BY TECHNICAL MANAGER

RAJ KUMAR YADAV

G M LALPANI



Vardan EnviroLab



Laboratory: Plot No 24 & 25, Narayan Vihar, B-Block, Jaipur(Rajasthan)-302020
MoEF& CC Recognized | ISO 9001 | ISO 45001|

Test Report

Sample Number : VEL/JK/AA/14

Report No. : VEL/A/2106210006/A

BDL*(Below Detection Limit)** DL Detection Limit

End of Report

DINESH PALSANIYA

RAJ KUMAR YADAV

(Checked By)
DY. TECHNICAL MANAGER

(Authorized Signatory)
C M LAB OPERATION



Test Report

Sample Number : VEL/JK/AA/14

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. : VEL/A/2106210006/B

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 28/06/2021

Period of Analysis : 21/06/2021-28/06/2021

Receipt Date : 21/06/2021

Sample Description : AMBIENT AIR

General Information

Sampling Location : Basni Village- (Buffer Zone of MI.No. 03/93, 75/90, 25/2006)
Sample Collected by : VEL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VEL/JAI/RDS/33/FPS/37
Instrument Calibration Status : Calibrated
Latitude : 26°36'31"
Longitude : 73°48'70"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 13/06/2021 To 14/06/2021
Time of Monitoring : 16.00 to 16.10 Hrs.
Ambient Temperature (°C) : Min. 26 Max. 38
Surrounding Activity : Human, Vehicular & Other Activities
Scope of Monitoring : Regulatory Requirement
Sampling & Analysis Protocol : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As Per Work Order

S.No.	Parameters	Test Method	Results	Units	Limit as per CPCB
1	Carbon Monoxide (as CO)	By Analyzer	0.49	mg/m ³	4.0

BDL*(Below Detection Limit)** DL Detection Limit

End of Report

DINESH PALSANIYA

(Checked By)

DX TECHNICAL MANAGER

RAJ KUMAR YADAV

(Authorized Signatory)

G M LAB OPERATION



Test Report

Sample Number : VEL/JK/AA/15

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. : VEL/A/2106210007/A

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 28/06/2021

Period of Analysis : 21/06/2021-28/06/2021

Receipt Date : 21/06/2021

Sample Description : AMBIENT AIR

General Information

Sampling Location : Ramnagar Village- (Buffer Zone of MI.No. 03/93, 75/90, 25/2006)
 Sample Collected by : VEL Team
 Sampling Equipment used : RDS/FPS
 Instrument Code : VEL/JAI/RDS/10/FPS/08
 Instrument Calibration Status : Calibrated
 Latitude : 26°36'42"
 Longitude : 73°45'18"
 Meteorological condition during monitoring : Clear Sky
 Date of Monitoring : 13/06/2021 To 14/06/2021
 Time of Monitoring : 15.40 to 15.40 Hrs.
 Ambient Temperature (°C) : Min. 26 Max. 38
 Surrounding Activity : Human, Vehicular & Other Activities
 Scope of Monitoring : Regulatory Requirement
 Sampling & Analysis Protocol : IS :5182
 Sampling Duration : 24 Hrs.
 Parameter Required : As Per Work Order

S.No.	Parameters	Test Method	Results	Units	Limit as per CPCB
1	Particulate Matter (as PM -10)	IS:5182 (P- 23)-2006,RA. 2017	70.79	µg/m³	100
2	Particulate Matter (as PM - 2.5)	IS:5182 (P- 24)-2019	38.57	µg/m³	60
3	Nitrogen Dioxides (as NO2)	IS:5182 (P- 6)-2006 RA.2017	17.61	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2017	9.04	µg/m³	80
5	Benzene (as C6H6)	IS 5182 (P-11)-2006 RA.2017	BDL (*DL1.0)	µg/m³	5.0
6	Ammonia (as NH3)	Methods of air sampling and analysis,3rd ed.,1988, Method No. 401	BDL (*DL 2.0)	µg/m³	400.0
7	Ozone (as O3)	IS 5182 (P-9):1974 RA.2014	10.33	µg/m³	180.0
8	Lead (as Pb)	IS 5182 (P-22) : 2004 RA.2014	BDL (*DL 0.02)	µg/m³	1.0
9	Arsenic (as As)	Methods of air sampling and analysis,3rd ed.,1988, Method No.302	BDL (*DL1.0)	ng/m³	6.0
10	Nickel (as Ni)	USEPA compendium IO-3.2,1999	BDL (*DL 5.0)	ng/m³	20.0
11	Benzo (alpha) Pyrene-Particulate Phase Only	IS:5182 (P-12):2004 RA.2014	BDL (*DL 0.5)	ng/m³	1.0

DINESH PALSANIYA

BY TECHNICAL MANAGER

RAJ KUMAR YADAV

G M LAB OPERATION



Test Report

Sample Number : VEL/JK/AA/15

Report No. : VEL/A/2106210007/A

BDL*Below Detection Limit ** DL Detection Limit

End of Report

DINESH PALSANIYA

(Checked By)

BY TECHNICAL MANAGER

RAJ KUMAR YADAV

(Authorized Signatory)

LABORATION



Test Report

Sample Number : VEL/JK/AA/15

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. : VEL/A/2106210007/B

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 28/06/2021

Period of Analysis : 21/06/2021-28/06/2021

Receipt Date : 21/06/2021

Sample Description : AMBIENT AIR

General Information

Sampling Location : Ramnagar Village- (Buffer Zone of MI.No. 03/93, 75/90, 25/2006)
Sample Collected by : VEL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VEL/JAI/RDS/10/FPS/08
Instrument Calibration Status : Calibrated
Latitude : 26°36'42"
Longitude : 73°45'18"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 13/06/2021 To 14/06/2021
Time of Monitoring : 15.40 to 15.40 Hrs.
Ambient Temperature (°C) : Min. 26 Max. 38
Surrounding Activity : Human, Vehicular & Other Activities
Scope of Monitoring : Regulatory Requirement
Sampling & Analysis Protocol : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As Per Work Order

S.No.	Parameters	Test Method	Results	Units	Limit as per CPCB
1	Carbon Monoxide (as CO)	By Analyzer	0.46	mg/m ³	4.0

BDL*Below Detection Limit ** DL Detection Limit

End of Report

DINESH PALSANIYA

(Checked By)
DY. TECHNICAL MANAGER

RAJ KUMAR YADAV

(Authorized Signatory)

G M LAB OPERATION



Test Report

Sample Number : VEL/JK/AA/16

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. : VEL/A/2106210008/A

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 28/06/2021

Period of Analysis : 21/06/2021-28/06/2021

Receipt Date : 21/06/2021

Sample Description : AMBIENT AIR

General Information

Sampling Location : Pundlu Village- (Buffer Zone of MI.No. 03/93, 75/90, 25/2006)
 Sample Collected by : VEL Team
 Sampling Equipment used : RDS/FPS
 Instrument Code : VEL/JAI/RDS/32/FPS/26
 Instrument Calibration Status : Calibrated
 Latitude : 26°33'44"
 Longitude : 73°47'14"
 Meteorological condition during monitoring : Clear Sky
 Date of Monitoring : 13/06/2021 To 14/06/2021
 Time of Monitoring : 16.40 to 16.40 Hrs.
 Ambient Temperature (°C) : Min. 26 Max. 38
 Surrounding Activity : Human, Vehicular & Other Activities
 Scope of Monitoring : Regulatory Requirement
 Sampling & Analysis Protocol : IS :5182
 Sampling Duration : 24 Hrs
 Parameter Required : As Per Work Order

S.No.	Parameters	Test Method	Results	Units	Limit as per CPCB
1	Particulate Matter (as PM -10)	IS:5182 (P- 23)-2006,RA. 2017	69.55	µg/m³	100
2	Particulate Matter (as PM - 2.5)	IS:5182 (P- 24)-2019	37.10	µg/m³	60
3	Nitrogen Dioxides (as NO2)	IS:5182 (P- 6)-2006 RA.2017	15.93	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2017	9.40	µg/m³	80
5	Benzene (as C6H6)	IS 5182 (P-11)-2006 RA.2017	BDL (*DL1.0)	µg/m³	5.0
6	Ammonia (as NH3)	Methods of air sampling and analysis,3rd ed.,1988, Method No. 401	BDL (*DL 2.0)	µg/m³	400.0
7	Ozone (as O3)	IS 5182 (P-9):1974 RA.2014	8.61	µg/m³	180.0
8	Lead (as Pb)	IS 5182 (P-22) : 2004 RA.2014	BDL (*DL 0.02)	µg/m³	1.0
9	Arsenic (as As)	Methods of air sampling and analysis,3rd ed.,1988, Method No.302	BDL (*DL1.0)	ng/m³	6.0
10	Nickel (as Ni)	USEPA compendium IO-3.2,1999	BDL (*DL 5.0)	ng/m³	20.0
11	Benzo (alpha) Pyrene-Particulate Phase Only	IS:5182 (P-12):2004 RA.2014	BDL (*DL 0.5)	ng/m³	1.0

Dinesh
 DY TECHNICAL MANAGER

Raj Kumar Yadav
 RAJ KUMAR YADAV

G M LAB OPERATION
 Page No. 1/2



Vardan EnviroLab



Laboratory: Plot No 24 & 25, Narayan Vihar, B-Block, Jaipur(Rajasthan)-302020
MoEF& CC Recognized | ISO 9001 | ISO 45001|

Test Report

Sample Number : VEL/JK/AA/16

Report No. : VEL/A/2106210008/A

BDL*Below Detection Limit ** DL Detection Limit

End of Report

DINESH SANIYA

(Checked By)

DY TECHNICAL MANAGER

RAJ KUMAR YADAV

(Authorized Signatory)

G M LAB OPERATION



Test Report

Sample Number : VEL/JK/AA/16

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. : VEL/A/2106210008/B

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 28/06/2021

Period of Analysis : 21/06/2021-28/06/2021

Receipt Date : 21/06/2021

Sample Description : AMBIENT AIR

General Information

Sampling Location : Pundlu Village- (Buffer Zone of MI.No. 03/93, 75/90, 25/2006)
Sample Collected by : VEL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VEL/JAI/RDS/32/FPS/26
Instrument Calibration Status : Calibrated
Latitude : 26°33'44"
Longitude : 73°47'14"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 13/06/2021 To 14/06/2021
Time of Monitoring : 16.40 to 16.40 Hrs.
Ambient Temperature (°C) : Min. 26 Max. 38
Surrounding Activity : Human, Vehicular & Other Activities
Scope of Monitoring : Regulatory Requirement
Sampling & Analysis Protocol : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As Per Work Order

S.No.	Parameters	Test Method	Results	Units	Limit as per CPCB
1	Carbon Monoxide (as CO)	By Analyzer	0.48	mg/m ³	4.0

BDL*Below Detection Limit ** DL Detection Limit

End of Report

DINESH PALSANIYA
(Checked By)
DY TECHNICAL MANAGER

RAJ KUMAR YADAV
(Authorized Signatory)
G M LAB OPERATION



Test Report

Sample Number : VEL/JK/AA/09

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

Report No. : VEL/A/2106210009/A

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 28/06/2021

Period of Analysis : 21/06/2021-28/06/2021

Receipt Date : 21/06/2021

Sample Description : AMBIENT AIR

General Information

Sampling Location : Pit -1 (MI. No. 03/93)
 Sample Collected by : VEL Team
 Sampling Equipment used : RDS/FPS
 Instrument Code : VEL/JAI/RDS/32/FPS/26
 Instrument Calibration Status : Calibrated
 Latitude : 26°33'51"
 Longitude : 73°46'50"
 Meteorological condition during monitoring : Clear Sky
 Date of Monitoring : 12/06/2021 To 13/06/2021
 Time of Monitoring : 16.20 to 16.20 Hrs.
 Ambient Temperature (°C) : Min. 28 Max. 40
 Surrounding Activity : Human, Vehicular & Other Activities
 Scope of Monitoring : Regulatory Requirement
 Sampling & Analysis Protocol : IS :5182
 Sampling Duration : 24 Hrs.
 Parameter Required : As Per Work Order

S.No.	Parameters	Test Method	Results	Units	Limit as per CPCB
1	Particulate Matter (as PM -10)	IS:5182 (P- 23)-2006,RA. 2017	68.60	µg/m³	100
2	Particulate Matter (as PM - 2.5)	IS:5182 (P- 24)-2019	30.39	µg/m³	60
3	Nitrogen Dioxides (as NO2)	IS:5182 (P- 6)-2006 RA.2017	16.94	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2017	8.95	µg/m³	80
5	Benzene (as C6H6)	IS 5182 (P-11)-2006 RA.2017	BDL (*DL1.0)	µg/m³	5.0
6	Ammonia (as NH3)	Methods of air sampling and analysis,3rd ed.,1988, Method No. 401	BDL (*DL 2.0)	µg/m³	400.0
7	Ozone (as O3)	IS 5182 (P-9):1974 RA.2014	7.74	µg/m³	180.0
8	Lead (as Pb)	IS 5182 (P-22) : 2004 RA.2014	BDL (*DL 0.02)	µg/m³	1.0
9	Arsenic (as As)	Methods of air sampling and analysis,3rd ed.,1988, Method No.302	BDL (*DL1.0)	ng/m³	6.0
10	Nickel (as Ni)	USEPA compendium IO-3.2,1999	BDL (*DL 5.0)	ng/m³	20.0
11	Benzo (alpha) Pyrene-Particulate Phase Only	IS:5182 (P-12):2004 RA.2014	BDL (*DL 0.5)	ng/m³	1.0

DINESH PALSANIYA

TECHNICAL MANAGER

RAJ KUMAR YADAV

G M LAB OPERATION

Page No. 1/2



Test Report

Sample Number : VEL/JK/AA/09

Report No. : VEL/A/2106210009/A

BDL* Below Detection Limit ** DL Detection Limit

End of Report

DINESH PALSANIYA

(Checked By)

BY TECHNICAL MANAGER

RAJ KUMAR YADAV

(Authorized Signatory)

G M LAB OPERATION



Test Report

Sample Number : VEL/JK/AA/09

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

Report No. : VEL/A/2106210009/B

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 28/06/2021

Period of Analysis : 21/06/2021-28/06/2021

Receipt Date : 21/06/2021

Sample Description : AMBIENT AIR

General Information

Sampling Location : Pit -1 (ML No. 03/93)
Sample Collected by : VEL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VEL/JAI/RDS/32/FPS/26
Instrument Calibration Status : Calibrated
Latitude : 26°33'51"
Longitude : 73°46'50"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 12/06/2021 To 13/06/2021
Time of Monitoring : 16.20 to 16.20 Hrs.
Ambient Temperature (°C) : Min. 28 Max. 40
Surrounding Activity : Human, Vehicular & Other Activities
Scope of Monitoring : Regulatory Requirement
Sampling & Analysis Protocol : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As Per Work Order

S.No.	Parameters	Test Method	Results	Units	Limit as per CPCB
1	Carbon Monoxide (as CO)	By Analyzer	0.49	mg/m ³	4.0

BDL* Below Detection Limit ** DL Detection Limit

End of Report

DINESH PALSANIYA

(Checked By)

DX TECHNICAL MANAGER

RAJ KUMAR YADAV

(Authorized Signatory)

G M LAB OPERATION



Test Report

Sample Number : VEL/JK/AA/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

Report No. : VEL/A/2106210010/A

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 28/06/2021

Period of Analysis : 21/06/2021-28/06/2021

Receipt Date : 21/06/2021

Sample Description : AMBIENT AIR

General Information

Sampling Location : Mines Office (ML No. 03/93)
Sample Collected by : VEL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VEL/JAI/RDS/10/FPS/08
Instrument Calibration Status : Calibrated
Latitude : 26°33'52"
Longitude : 73°45'42"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 12/06/2021 To 13/06/2021
Time of Monitoring : 15.20 to 15.20 Hrs.
Ambient Temperature (°C) : Min. 28 Max. 40
Surrounding Activity : Human, Vehicular & Other Activities
Scope of Monitoring : Regulatory Requirement
Sampling & Analysis Protocol : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As Per Work Order

S.No.	Parameters	Test Method	Results	Units	Limit as per CPCB
1	Particulate Matter (as PM -10)	IS:5182 (P- 23)-2006,RA. 2017	67.84	µg/m³	100
2	Particulate Matter (as PM - 2.5)	IS:5182 (P- 24)-2019	27.96	µg/m³	60
3	Nitrogen Dioxides (as NO2)	IS:5182 (P- 6)-2006 RA.2017	15.79	µg/m³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2017	8.77	µg/m³	80
5	Benzene (as C6H6)	IS 5182 (P-11)-2006 RA.2017	BDL (*DL1.0)	µg/m³	5.0
6	Ammonia (as NH3)	Methods of air sampling and analysis,3rd ed.,1988, Method No. 401	BDL (*DL 2.0)	µg/m³	400.0
7	Ozone (as O3)	IS 5182 (P-9):1974 RA.2014	6.88	µg/m³	180.0
8	Lead (as Pb)	IS 5182 (P-22) : 2004 RA.2014	BDL (*DL 0.02)	µg/m³	1.0
9	Arsenic (as As)	Methods of air sampling and analysis,3rd ed.,1988, Method No.302	BDL (*DL1.0)	ng/m³	6.0
10	Nickel (as Ni)	USEPA compendium IO-3.2,1999	BDL (*DL 5.0)	ng/m³	20.0
11	Benzo (alpha) Pyrene-Particulate Phase Only	IS:5182 (P-12):2004 RA.2014	BDL (*DL 0.5)	ng/m³	1.0

DINESH PALSANIYA

DY TECHNICAL MANAGER

RAJ KUMAR YADAV

G M LAB OPERATION

Page No. 1/2



Vardan EnviroLab



TC-6652

Laboratory: Plot No 24 & 25, Narayan Vihar, B-Block, Jaipur(Rajasthan)-302020
MoEF& CC Recognized | ISO 9001 | ISO 45001 |

Test Report

Sample Number : VEL/JK/AA/12

Report No. : VEL/A/2106210010/A

*BDL-Below Detection Limit, *DL-Detection Limit.

End of Report

DINESH PALSHANI

Min
DY TECHNICAL MANAGER
(Checked By)

RAJ KUMAR YADAV

(Authorized Signatory)

G M LAB OPERATION



Test Report

Sample Number : VEL/JK/AA/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

Report No. : VEL/A/2106210010/B

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 28/06/2021

Period of Analysis : 21/06/2021-28/06/2021

Receipt Date : 21/06/2021

Sample Description : AMBIENT AIR

General Information

Sampling Location : Mines Office (MI. No. 03/93)

Sample Collected by : VEL Team

Sampling Equipment used : RDS/FPS

Instrument Code : VEL/JAI/RDS/10/FPS/08

Instrument Calibration Status : Calibrated

Latitude : 26°33'52"

Longitude : 73°45'42"

Meteorological condition during monitoring : Clear Sky

Date of Monitoring : 12/06/2021 To 13/06/2021

Time of Monitoring : 15.20 to 15.20 Hrs.

Ambient Temperature (°C) : Min. 28 Max. 40

Surrounding Activity : Human, Vehicular & Other Activities

Scope of Monitoring : Regulatory Requirement

Sampling & Analysis Protocol : IS :5182

Sampling Duration : 24 Hrs.

Parameter Required : As Per Work Order

S.No.	Parameters	Test Method	Results	Units	Limit as per CPCB
1	Carbon Monoxide (as CO)	By Analyzer	0.47	mg/m ³	4.0

*BDL-Below Detection Limit, **DL-Detection Limit.

End of Report

DINESH PALSANIYA
(Checked By)
DY TECHNICAL MANAGER

RAJ KUMAR YADAV
(Authorized Signatory)
G M LAB OPERATION



Test Report

Sample Number : VEL/JK/AA/11

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

Report No. : VEL/A/2106210011/A

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 28/06/2021

Period of Analysis : 21/06/2021-28/06/2021

Receipt Date : 21/06/2021

Sample Description : AMBIENT AIR

General Information

Sampling Location : Pit- 3 (ML. No. 03/93)
Sample Collected by : VEL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VEL/JAI/RDS/33/FPS/27
Instrument Calibration Status : Calibrated
Latitude : 26°33'51"
Longitude : 73°46'50"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 12/06/2021 To 13/06/2021
Time of Monitoring : 16.50 to 16.50 Hrs.
Ambient Temperature (°C) : Min. 28 Max. 40
Surrounding Activity : Human, Vehicular & Other Activities
Scope of Monitoring : Regulatory Requirement
Sampling & Analysis Protocol : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As Per Work Order

S.No.	Parameters	Test Method	Results	Units	Limit as per CPCB
1	Particulate Matter (as PM -10)	IS:5182 (P- 23)-2006,RA. 2017	78.63	µg/m ³	100
2	Particulate Matter (as PM - 2.5)	IS:5182 (P- 24)-2019	35.04	µg/m ³	60
3	Nitrogen Dioxides (as NO2)	IS:5182 (P- 6)-2006 RA.2017	20.17	µg/m ³	80
4	Sulphur Dioxide (as SO2)	IS:5182 (P- 2)-2001, RA. 2017	13.59	µg/m ³	80
5	Benzene (as C6H6)	IS 5182 (P-11)-2006 RA.2017	BDL (*DL1.0)	µg/m ³	5.0
6	Ammonia (as NH3)	Methods of air sampling and analysis,3rd ed.,1988, Method No. 401	4.30	µg/m ³	400.0
7	Ozone (as O3)	IS 5182 (P-9):1974 RA.2014	10.33	µg/m ³	180.0
8	Lead (as Pb)	IS 5182 (P-22) : 2004 RA.2014	0.11	µg/m ³	1.0
9	Arsenic (as As)	Methods of air sampling and analysis,3rd ed.,1988, Method No.302	BDL (*DL1.0)	ng/m ³	6.0
10	Nickel (as Ni)	USEPA compendium IO-3.2,1999	BDL (*DL 5.0)	ng/m ³	20.0
11	Benzo (alpha) Pyrene-Particulate Phase Only	IS:5182 (P-12):2004 RA.2014	BDL (*DL 0.5)	ng/m ³	1.0

DINESH PALSANIYA
TECHNICAL MANAGER

RAJ KUMAR YADAV
G M LAB OPERATION



Test Report

Sample Number : VEL/JK/AA/11

Report No. : VEL/A/2106210011/A

BDL(Below Detection Limit),DL(Detection Limit)

End of Report

DINESH PALSANIYA
(Checked By)
DY TECHNICAL MANAGER

RAJ KUMAR YADAV
(Authorized Signatory)
G M LAB OPERATION



Test Report

Sample Number : VEL/JK/AA/11

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

Report No. : VEL/A/2106210011/B

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 28/06/2021

Period of Analysis : 21/06/2021-28/06/2021

Receipt Date : 21/06/2021

Sample Description : AMBIENT AIR

General Information

Sampling Location : Pit- 3 (Ml. No. 03/93)
Sample Collected by : VEL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VEL/JAI/RDS/33/FPS/27
Instrument Calibration Status : Calibrated
Latitude : 26°33'51"
Longitude : 73°46'50"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 12/06/2021 To 13/06/2021
Time of Monitoring : 16.50 to 16.50 Hrs.
Ambient Temperature (°C) : Min. 28 Max. 40
Surrounding Activity : Human, Vehicular & Other Activities
Scope of Monitoring : Regulatory Requirement
Sampling & Analysis Protocol : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As Per Work Order

S.No.	Parameters	Test Method	Results	Units	Limit as per CPCB
1	Carbon Monoxide (as CO)	By Analyzer	0.77	mg/m ³	4.0

BDL(Below Detection Limit),DL(Detection Limit)

End of Report

DINESH PALSANIYA
(Checked By)
DY TECHNICAL MANAGER

RAJ KUMAR YADAV
(Authorized Signatory)
G M LAB OPERATION



Test Report

Sample Number : VEL/JK/AA/10

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

(Unit of JK Cement LTD.) Dhanappa Limestone Mines

(ML No. 3/93), VIII- Dhanappa, Tehsil- Merta, Nagaur

Rajasthan

Report No. : VEL/A/2106210012/A

Format No : 7 8 F-01

Party Reference No : NIL

Report Date : 28/06/2021

Period of Analysis : 21/06/2021-28/06/2021

Receipt Date : 21/06/2021

Sample Description : AMBIENT AIR

General Information

Sampling Location : Pit- 2 (ML. No. 03/93)
 Sample Collected by : VEL Team
 Sampling Equipment used : RDS/FPS
 Instrument Code : VEL/JAI/RDS/07/FPS/10
 Instrument Calibration Status : Calibrated
 Latitude : 26°33'28"
 Longitude : 73°46'90"
 Meteorological condition during monitoring : Clear Sky
 Date of Monitoring : 12/06/2021 To 13/06/2021
 Time of Monitoring : 15.50 to 15.50 Hrs.
 Ambient Temperature (°C) : Min. 28 Max. 40
 Surrounding Activity : Human, Vehicular & Other Activities
 Scope of Monitoring : Regulatory Requirement
 Sampling & Analysis Protocol : IS :5182
 Sampling Duration : 24 Hrs.
 Parameter Required : As Per Work Order

S.No.	Parameters	Test Method	Results	Units	Limit as per CPCB
1	Particulate Matter (as PM -10)	IS:5182 (P- 23)-2006,RA. 2017	70.93	µg/m ³	100
2	Particulate Matter (as PM - 2.5)	IS:5182 (P- 24)-2019	32.74	µg/m ³	60
3	Nitrogen Dioxides (as NO ₂)	IS:5182 (P- 6)-2006 RA.2017	16.69	µg/m ³	80
4	Sulphur Dioxide (as SO ₂)	IS:5182 (P- 2)-2001, RA. 2017	9.19	µg/m ³	80
5	Benzene (as C ₆ H ₆)	IS 5182 (P-11)-2006 RA.2017	BDL (*DL1.0)	µg/m ³	5.0
6	Ammonia (as NH ₃)	Methods of air sampling and analysis,3rd ed.,1988, Method No. 401	BDL (*DL 2.0)	µg/m ³	400.0
7	Ozone (as O ₃)	IS 5182 (P-9):1974 RA.2014	8.61	µg/m ³	180.0
8	Lead (as Pb)	IS 5182 (P-22) : 2004 RA.2014	BDL (*DL 0.02)	µg/m ³	1.0
9	Arsenic (as As)	Methods of air sampling and analysis,3rd ed.,1988, Method No.302	BDL (*DL1.0)	ng/m ³	6.0
10	Nickel (as Ni)	USEPA compendium IO-3.2,1999	BDL (*DL 5.0)	ng/m ³	20.0
11	Benzo (alpha) Pyrene-Particulate Phase Only	IS:5182 (P-12):2004 RA.2014	BDL (*DL 0.5)	ng/m ³	1.0

DINESH PALSANIYA

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Test Report

Sample Number : VEL/JK/AA/10

Report No. : VEL/A/2106210012/A

*BDL-Below Detection Limit, **DL-Detection Limit.

End of Report


DINESH PALSANIYA

(Checked By)

SV TECHNICAL MANAGER


RAJ KUMAR YADAV

(Authorized Signatory)

G M LAB OPERATION



Test Report

Sample Number : VEL/JK/AA/10

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

Report No. : VEL/A/2106210012/B
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 28/06/2021
Period of Analysis : 21/06/2021-28/06/2021
Receipt Date : 21/06/2021

Sample Description : AMBIENT AIR

General Information
Sampling Location : Pit- 2 (ML No. 03/93)
Sample Collected by : VEL Team
Sampling Equipment used : RDS/FPS
Instrument Code : VEL/JAI/RDS/07/FPS/10
Instrument Calibration Status : Calibrated
Latitude : 26°33'28"
Longitude : 73°46'90"
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 12/06/2021 To 13/06/2021
Time of Monitoring : 15.50 to 15.50 Hrs.
Ambient Temperature (°C) : Min. 28 Max. 40
Surrounding Activity : Human, Vehicular & Other Activities
Scope of Monitoring : Regulatory Requirement
Sampling & Analysis Protocol : IS :5182
Sampling Duration : 24 Hrs.
Parameter Required : As Per Work Order

S.No.	Parameters	Test Method	Results	Units	Limit as per CPCB
1	Carbon Monoxide (as CO)	By Analyzer	0.49	mg/m ³	4.0

*BDL-Below Detection Limit, **DL-Detection Limit.

End of Report

DINESH PALSANIYA

(Checked By)

NY TECHNICAL MANAGER

RAJKUMAR YADAV

(Authorized Signatory)

G M LAB OPERATION



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
ISO 9001 | ISO 14001 | ISO 45001

Test Report

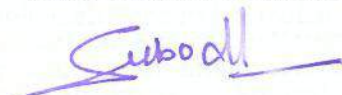
Sample Number: VEL/JK/A/01
Name & Address of the Party: M/s JK White Cement Works, Gotan (unit of JK Cement LTD) Dhanappa Lime Stone Mines (M.L. No. -03/93) Village Dhanappa, Tehsil- Merta Dist.Nagaur (Rajasthan)
Report No.: VEL/A/2109290009
Format No.: 7.8 F 01
Party Reference No.: NIL
Report Date: 04/10/2021
Period of Analysis: 29/09/2021-04/10/2021
Receipt Date: 29/09/2021
Sample Description: Ambient Air Quality Monitoring

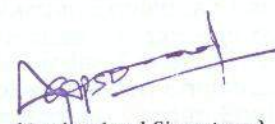
General Information:-

Sampling Location : Pit -1 (M.L. No. 03/93) (Core Zone)
Sample collected by : VEL Team
Sampling Equipment used : RDS & FPS
Instrument Code : VEL/RDS/FPS/10/08
Instrument Calibration Status : Calibrated
Latitude : 26°33'29"
Longitude : 73°46'19"
Meteorological condition during monitoring : Cloudy sky
Date of Sampling : 24/09/2021 to 25/09/2021
Time of Sampling : 11:00 to 11:11 Hrs.
Ambient Temperature (°C) : Min. 25°C, Max. 31 °C
Surrounding Activity : Human & Vehicular Activities
Scope of Monitoring : Regulatory Requirement
Sampling & Analysis Protocol : IS-5182 & CPCB Guidelines
Sampling Duration : 24 hrs.
Parameter Required : As Per Work Order

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	*SOP No. VEL/SOP/01, Section No. SP 63	28.96	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), 2006	65.10	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Reaffirmed-2006	16.25	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Reaffirmed-2012	8.80	µg/m ³	80
5.	Carbon Monoxide (CO)	IS: 5182 (P-10), Reaffirmed-2003	0.39	mg/m ³	4
6.	Ammonia (NH ₃)	IS:11255(P-6), Reaffirmed-2009	BDL (DL 2.0)	µg/m ³	400
7.	Lead (Pb)	IS: 5182 (P-22), Reaffirmed-2009	BDL (DL 0.02)	µg/m ³	1
8.	Benzene (C ₆ H ₆)	IS: 5182 (P-11), 2004	BDL (DL 1.0)	µg/m ³	05
9.	Benzo(a)pyrene, (B(a)P)	IS: 5182 (P-12), 2004	BDL (DL 0.5)	ng/m ³	01
10.	Ozone (O ₃)	IS: 5182 (P-9), Reaffirmed-2003	6.92	µg/m ³	180
11.	Arsenic as (As)	IS: 5182 (P-22), Reaffirmed-2009	BDL (DL 1.0)	ng/ m ³	6
12.	Nickel as (Ni)	IS: 5182 (P-22), Reaffirmed-2009	BDL (DL 5.0)	ng/ m ³	20

Note :-*BDL-Below Detecation Limit,**DL-Detecation Limit.


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Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
ISO 9001 | ISO 14001 | ISO 45001

Test Report

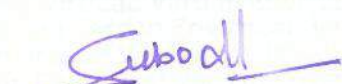
Sample Number: VEL/JK/A/02
Name & Address of the Party: M/s JK White Cement Works, Gotan
(unit of JK Cement LTD) Dhanappa Lime
Stone Mines (M.L. No. -03/93)
Village Dhanappa, Tehsil- Merta
Dist.Nagaur (Rajasthan)
Report No.: VEL/A/2109290010
Format No.: 7.8 F 01
Party Reference No.: NIL
Report Date: 04/10/2021
Period of Analysis: 29/09/2021-04/10/2021
Receipt Date: 29/09/2021
Sample Description: Ambient Air Quality Monitoring


General Information:-

Sampling Location : Pit-2 (M.L. No-03/93) (Core Zone)
Sample collected by : VEL Team
Sampling Equipment used : RDS & FPS
Instrument Code : VEL/RDS/FPS/09/27
Instrument Calibration Status : Calibrated
Latitude : 26°33'28"
Longitude : 73°46'10"
Meteorological condition during monitoring : Cloudy Sky
Date of Sampling : 24/09/2021 to 25/09/2021
Time of Sampling : 10:30 to 10:30 Hrs.
Ambient Temperature (°C) : Min. 25°C, Max. 31 °C
Surrounding Activity : Human & Vehicular Activities
Scope of Monitoring : Regulatory Requirement
Sampling & Analysis Protocol : IS-5182 & CPCB Guidelines
Sampling Duration : 24 hrs.
Parameter Required : As Per Work Order

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	#SOP No. VEL/SOP/01, Section No. SP 63	31.78	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), 2006	69.35	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Reaffirmed-2006	15.96	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Reaffirmed-2012	7.94	µg/m ³	80
5.	Carbon Monoxide (CO)	IS: 5182 (P-10), Reaffirmed-2003	8.44	mg/m ³	4
6.	Ammonia (NH ₃)	IS: 11255 (P-6), Reaffirmed-2009	BDL (DL 2.0)	µg/m ³	400
7.	Lead (Pb)	IS: 5182 (P-22), Reaffirmed-2009	BDL (DL 0.02)	µg/m ³	1
8.	Benzene (C ₆ H ₆)	IS: 5182 (P-11), 2004	BDL (DL 1.0)	µg/m ³	05
9.	Benzo(a)pyrene, (B(a)P)	IS: 5182 (P-12), 2004	BDL (DL 0.5)	ng/m ³	01
10.	Ozone (O ₃)	IS: 5182 (P-9), Reaffirmed-2003	7.69	µg/m ³	180
11.	Arsenic as (As)	IS: 5182 (P-22), Reaffirmed-2009	BDL (DL 1.0)	ng/m ³	6
12.	Nickel as (Ni)	IS: 5182 (P-22), Reaffirmed-2009	BDL (DL 5.0)	ng/m ³	20

Note :- *BDL-Below Detection Limit, **DL-Detection Limit.


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Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number: VEL/JK/A/03
Name & Address of the Party: M/s JK White Cement Works, Gotan
(unit of JK Cement LTD) Dhanappa Lime
Stone Mines (M.L. No. -03/93)
Village Dhanappa, Tehsil- Merta
Dist.Nagaur (Rajasthan)

Report No.: VEL/A/2109290011
Format No.: 7.8 F 01
Party Reference No.: NIL

Sample Description: Ambient Air Quality Monitoring

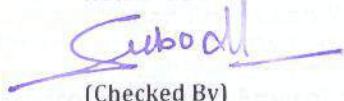
Report Date: 04/10/2021
Period of Analysis: 29/09/2021-04/10/2021
Receipt Date: 29/09/2021

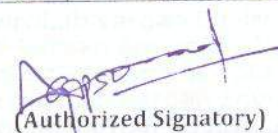
General Information:-

Sampling Location : Pit -3 (M.L. No. 03/93) (Core Zone)
Sample collected by : VEL Team
Sampling Equipment used : RDS & FPS
Instrument Code : VEL/RDS/FPS/13/26
Instrument Calibration Status : Calibrated
Latitude : 26°33'54"
Longitude : 73°46'06"
Meteorological condition during monitoring : Cloudy Sky
Date of Sampling : 24/09/2021 to 25/09/2021
Time of Sampling : 11:30 to 11:30 Hrs.
Ambient Temperature (°C) : Min. 25°C, Max. 31 °C
Surrounding Activity : Human & Vehicular Activities
Scope of Monitoring : Regulatory Requirement
Sampling & Analysis Protocol : IS-5182 & CPCB Guidelines
Sampling Duration : 24 hrs.
Parameter Required : As Per Work Order

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	*SOP No. VEL/SOP/01, Section No. SP 63	34.12	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), 2006	77.25	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Reaffirmed-2006	12.12	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Reaffirmed-2012	7.94	µg/m ³	80
5.	Carbon Monoxide (CO)	IS: 5182 (P-10), Reaffirmed-2003	0.39	mg/m ³	4
6.	Ammonia (NH ₃)	IS:11255(P-6), Reaffirmed-2009	BDL (DL 2.0)	µg/m ³	400
7.	Lead (Pb)	IS: 5182 (P-22), Reaffirmed-2009	BDL (DL 0.02)	µg/m ³	1
8.	Benzene (C ₆ H ₆)	IS: 5182 (P-11), 2004	BDL (DL 1.0)	µg/m ³	05
9.	Benzo(a)pyrene, (B(a)P)	IS: 5182 (P-12), 2004	BDL (DL 0.5)	ng/m ³	01
10.	Ozone (O ₃)	IS: 5182 (P-9), Reaffirmed-2003	9.91	µg/m ³	180
11.	Arsenic as (As)	IS: 5182 (P-22), Reaffirmed-2009	BDL (DL 1.0)	ng/ m ³	6
12.	Nickel as (Ni)	IS: 5182 (P-22), Reaffirmed-2009	BDL (DL 5.0)	ng/ m ³	20

Note :-*BDL-Below Detection Limit, **DL-Detection Limit.


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Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
ISO 9001 | ISO 14001 | ISO 45001

Test Report

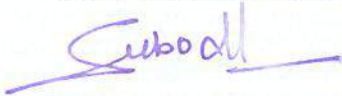
Sample Number: VEL/JK/A/04
Name & Address of the Party: M/s JK White Cement Works, Gotan
(unit of JK Cement LTD) Dhanappa Lime
Stone Mines (M.L. No. -03/93)
Village Dhanappa, Tehsil- Merta
Dist.Nagaur (Rajasthan)
Report No.: VEL/A/2109290012
Format No.: 7.8 F 01
Party Reference No.: NIL
Report Date: 04/10/2021
Period of Analysis: 29/09/2021-04/10/2021
Receipt Date: 29/09/2021
Sample Description: Ambient Air Quality Monitoring

General Information:-

Sampling Location : Mines Office (Ml. No. 03/93) (Core Zone)
Sample collected by : VEL Team
Sampling Equipment used : RDS & FPS
Instrument Code : VEL/RDS/FPS/10/08
Instrument Calibration Status : Calibrated
Latitude : 26°33'53"
Longitude : 73°45'42"
Meteorological condition during monitoring : Cloudy Sky
Date of Sampling : 24/09/2021 to 25/09/2021
Time of Sampling : 11:50 to 11:50 Hrs.
Ambient Temperature (°C) : Min. 25°C, Max. 31 °C
Surrounding Activity : Human & Vehicular Activities
Scope of Monitoring : Regulatory Requirement
Sampling & Analysis Protocol : IS-5182 & CPCB Guidelines
Sampling Duration : 24 hrs.
Parameter Required : As Per Work Order

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	#SOP No. VEL/SOP/01, Section No. SP 63	28.55	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), 2006	69.17	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Reaffirmed-2006	17.42	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Reaffirmed-2012	7.96	µg/m ³	80
5.	Carbon Monoxide (CO)	IS: 5182 (P-10), Reaffirmed-2003	0.45	mg/m ³	4
6.	Ammonia (NH ₃)	IS:11255(P-6), Reaffirmed-2009	BDL (DL 2.0)	µg/m ³	400
7.	Lead (Pb)	IS: 5182 (P-22), Reaffirmed-2009	BDL (DL 0.02)	µg/m ³	1
8.	Benzene (C ₆ H ₆)	IS: 5182 (P-11), 2004	BDL (DL 1.0)	µg/m ³	05
9.	Benzo(a)pyrene, (B(a)P)	IS: 5182 (P-12), 2004	BDL (DL 0.5)	ng/m ³	01
10.	Ozone (O ₃)	IS: 5182 (P-9), Reaffirmed-2003	6.45	µg/m ³	180
11.	Arsenic as (As)	IS: 5182 (P-22), Reaffirmed-2009	BDL (DL 1.0)	ng/m ³	6
12.	Nickel as (Ni)	IS: 5182 (P-22), Reaffirmed-2009	BDL (DL 5.0)	ng/m ³	20

Note :-*BDL-Below Detecation Limit,**DL-Detecation Limit.



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Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
ISO 9001 | ISO 14001 | ISO 45001

Test Report

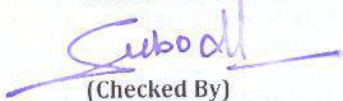
Sample Number: VEL/JK/A/05
Name & Address of the Party: M/s JK White Cement Works, Gotan (unit of JK Cement LTD) Dhanappa Lime Stone Mines (M.L. No. -03/93) Village Dhanappa, Tehsil- Merta Dist.Nagaur (Rajasthan)
Report No.: VEL/A/2109290013
Format No.: 7.8 F 01
Party Reference No.: NIL
Report Date: 04/10/2021
Period of Analysis: 29/09/2021-04/10/2021
Receipt Date: 29/09/2021
Sample Description: Ambient Air Quality Monitoring

General Information:-

Sampling Location: Dhanappa Village (Buffer zone MI. No. 03/93, 75/90,25/2006)
Sample collected by: VEL Team
Sampling Equipment used: RDS &FPS
Instrument Code: VEL/RDS/FPS/32/07
Instrument Calibration Status: Calibrated
Latitude: 26°33'51"
Longitude: 73°44'51"
Meteorological condition during monitoring: Cloudy Sky
Date of Sampling: 23/09/2021 to 24/09/2021
Time of Sampling: 10:30 to 10:30 Hrs.
Ambient Temperature (°C): Min. 24°C, Max. 31 °C
Surrounding Activity: Human & Vehicular Activities
Scope of Monitoring: Regulatory Requirement
Sampling & Analysis Protocol: IS-5182 & CPCB Guidelines
Sampling Duration: 24 hrs.
Parameter Required: As Per Work Order

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	*SOP No. VEL/SOP/01, Section No. SP 63	31.06	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), 2006	73.65	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Reaffirmed-2006	14.21	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Reaffirmed-2012	8.17	µg/m ³	80
5.	Carbon Monoxide (CO)	IS: 5182 (P-10), Reaffirmed-2003	0.32	mg/m ³	4
6.	Ammonia (NH ₃)	IS:11255(P-6), Reaffirmed-2009	BDL (DL 2.0)	µg/m ³	400
7.	Lead (Pb)	IS: 5182 (P-22), Reaffirmed-2009	BDL (DL 0.02)	µg/m ³	1
8.	Benzene(C ₆ H ₆)	IS: 5182 (P-11), 2004	BDL (DL 1.0)	µg/m ³	05
9.	Benzo(a)pyrene,(B(a)P)	IS: 5182 (P-12), 2004	BDL (DL 0.5)	ng/m ³	01
10.	Ozone (O ₃)	IS: 5182 (P-9), Reaffirmed-2003	7.00	µg/m ³	180
11.	Arsenic as (As)	IS: 5182 (P-22), Reaffirmed-2009	BDL (DL 1.0)	ng/ m ³	6
12.	Nickel as (Ni)	IS: 5182 (P-22), Reaffirmed-2009	BDL (DL 5.0)	ng/ m ³	20

Note :- *BDL-Below Detecation Limit ,**DL-Detecation Limit.


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Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
ISO 9001 | ISO 14001 | ISO 45001

Test Report

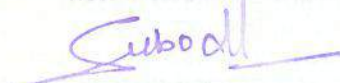
Sample Number: VEL/JK/A/06
Name & Address of the Party: M/s JK White Cement Works, Gotan (unit of JK Cement LTD) Dhanappa Lime Stone Mines (M.L. No. -03/93) Village Dhanappa, Tehsil- Merta Dist.Nagaur (Rajasthan)
Report No.: VEL/A/2109290014
Format No.: 7.8 F 01
Party Reference No.: NIL
Report Date: 04/10/2021
Period of Analysis: 29/09/2021-04/10/2021
Receipt Date: 29/09/2021
Sample Description: Ambient Air Quality Monitoring

General Information:-

Sampling Location: Village Basni (Buffer zone Ml. No. 03/93, 75/90,25/2006)
Sample collected by: VEL Team
Sampling Equipment used: RDS & FPS
Instrument Code: VEL/RDS/FPS/10/08
Instrument Calibration Status: Calibrated
Latitude: 26°36'32"
Longitude: 73°48'37"
Meteorological condition during monitoring: Cloudy Sky
Date of Sampling: 23/09/2021 to 24/09/2021
Time of Sampling: 11:20 to 11:20 Hrs.
Ambient Temperature (°C): Min. 24°C, Max. 31 °C
Surrounding Activity: Human & Vehicular Activities
Scope of Monitoring: Regulatory Requirement
Sampling & Analysis Protocol: IS-5182 & CPCB Guidelines
Sampling Duration: 24 hrs.
Parameter Required: As Per Work Order

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	*SOP No. VEL/SOP/01, Section No. SP 63	36.24	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), 2006	72.55	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Reaffirmed-2006	17.48	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Reaffirmed-2012	9.65	µg/m ³	80
5.	Carbon Monoxide (CO)	IS: 5182 (P-10), Reaffirmed-2003	0.45	mg/m ³	4
6.	Ammonia (NH ₃)	IS:11255(P-6), Reaffirmed-2009	BDL (DL 2.0)	µg/m ³	400
7.	Lead (Pb)	IS: 5182 (P-22), Reaffirmed-2009	BDL (DL 0.02)	µg/m ³	1
8.	Benzene (C ₆ H ₆)	IS: 5182 (P-11), 2004	BDL (DL 1.0)	µg/m ³	05
9.	Benzo(a)pyrene,(B(a)P)	IS: 5182 (P-12), 2004	BDL (DL 0.5)	ng/m ³	01
10.	Ozone (O ₃)	IS: 5182 (P-9), Reaffirmed-2003	9.97	µg/m ³	180
11.	Arsenic as (As)	IS: 5182 (P-22), Reaffirmed-2009	BDL (DL 1.0)	ng/ m ³	6
12.	Nickel as (Ni)	IS: 5182 (P-22), Reaffirmed-2009	BDL (DL 5.0)	ng/ m ³	20

Note :- *BDL-Below Detecation Limit ,**DL-Detecation Limit.


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Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number: VEL/JK/A/07
Name & Address of the Party: M/s JK White Cement Works, Gotan (unit of JK Cement LTD) Dhanappa Lime Stone Mines (M.L. No. -03/93) Village Dhanappa, Tehsil- Merta Dist.Nagaur (Rajasthan)
Report No.: VEL/A/2109290015
Format No.: 7.8 F 01
Party Reference No.: NIL
Report Date: 04/10/2021
Period of Analysis: 29/09/2021-04/10/2021
Receipt Date: 29/09/2021
Sample Description: Ambient Air Quality Monitoring

General Information:-

Sampling Location: Village Ramnagar (Buffer zone MI. No. 03/93, 75/90,25/2006)
Sample collected by: VEL Team
Sampling Equipment used: RDS &FPS
Instrument Code: VEL/RDS/FPS/13/26
Instrument Calibration Status: Calibrated
Latitude: 26°36'42"
Longitude: 73°45'18"
Meteorological condition during monitoring: Cloudy Sky
Date of Sampling: 23/09/2021 to 24/09/2021
Time of Sampling: 11:00 to 11:00 Hrs.
Ambient Temperature (°C): Min. 24°C, Max. 31 °C
Surrounding Activity: Human & Vehicular Activities
Scope of Monitoring: Regulatory Requirement
Sampling & Analysis Protocol: IS-5182 & CPCB Guidelines
Sampling Duration: 24 hrs.
Parameter Required: As Per Work Order

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	#SOP No. VEL/SOP/01, Section No. SP 63	35.50	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), 2006	74.69	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Reaffirmed-2006	18.14	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Reaffirmed-2012	9.81	µg/m ³	80
5.	Carbon Monoxide (CO)	IS: 5182 (P-10), Reaffirmed-2003	0.33	mg/m ³	4
6.	Ammonia (NH ₃)	IS:11255(P-6), Reaffirmed-2009	BDL (DL 2.0)	µg/m ³	400
7.	Lead (Pb)	IS: 5182 (P-22), Reaffirmed-2009	BDL (DL 0.02)	µg/m ³	1
8.	Benzene (C ₆ H ₆)	IS: 5182 (P-11), 2004	BDL (DL 1.0)	µg/m ³	05
9.	Benzo(a)pyrene, (B(a)P)	IS: 5182 (P-12), 2004	BDL (DL 0.5)	ng/m ³	01
10.	Ozone (O ₃)	IS: 5182 (P-9), Reaffirmed-2003	8.57	µg/m ³	180
11.	Arsenic as (As)	IS: 5182 (P-22), Reaffirmed-2009	BDL (DL 1.0)	ng/m ³	6
12.	Nickel as (Ni)	IS: 5182 (P-22), Reaffirmed-2009	BDL (DL 5.0)	ng/m ³	20

Note :-*BDL-Below Detecation Limit,**DL-Detecation Limit.

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Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number: VEL/JK/A/08
Name & Address of the Party: M/s JK White Cement Works, Gotan
(unit of JK Cement LTD) Dhanappa Lime
Stone Mines (M.L. No. -03/93)
Village Dhanappa, Tehsil- Merta
Dist.Nagaur (Rajasthan)
Report No.: VEL/A/2109290016
Format No.: 7.8 F 01
Party Reference No.: NIL
Report Date: 04/10/2021
Period of Analysis: 29/09/2021-04/10/2021
Receipt Date: 29/09/2021
Sample Description: Ambient Air Quality Monitoring

General Information:-

Sampling Location: Village Pundlu (Buffer zone MI. No. 03/93,
75/90,25/2006)
Sample collected by: VEL Team
Sampling Equipment used: RDS & FPS
Instrument Code: VEL/RDS/FPS/09/27
Instrument Calibration Status: Calibrated
Latitude: 26°32'57"
Longitude: 73°48'41"
Meteorological condition during monitoring: Cloudy Sky
Date of Sampling: 23/09/2021 to 24/09/2021
Time of Sampling: 10:00 to 10:00 Hrs.
Ambient Temperature (°C): Min. 24°C, Max. 31 °C
Surrounding Activity: Human & Vehicular Activities
Scope of Monitoring: Regulatory Requirement
Sampling & Analysis Protocol: IS-5182 & CPCB Guidelines
Sampling Duration: 24 hrs.
Parameter Required: As Per Work Order

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	#SOP No. VEL/SOP/01, Section No. SP 63	36.84	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), 2006	73.59	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Reaffirmed-2006	16.96	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Reaffirmed-2012	9.36	µg/m ³	80
5.	Carbon Monoxide (CO)	IS: 5182 (P-10), Reaffirmed-2003	0.31	mg/m ³	4
6.	Ammonia (NH ₃)	IS:11255(P-6), Reaffirmed-2009	BDL (DL 2.0)	µg/m ³	400
7.	Lead (Pb)	IS: 5182 (P-22), Reaffirmed-2009	BDL (DL 0.02)	µg/m ³	1
8.	Benzene(C ₆ H ₆)	IS: 5182 (P-11), 2004	BDL (DL 1.0)	µg/m ³	05
9.	Benzo(a)pyrene,(B(a)P)	IS: 5182 (P-12), 2004	BDL (DL 0.5)	ng/m ³	01
10.	Ozone (O ₃)	IS: 5182 (P-9), Reaffirmed-2003	7.77	µg/m ³	180
11.	Arsenic as (As)	IS: 5182 (P-22), Reaffirmed-2009	BDL (DL 1.0)	ng/ m ³	6
12.	Nickel as (Ni)	IS: 5182 (P-22), Reaffirmed-2009	BDL (DL 5.0)	ng/ m ³	20

Note :-*BDL-Below Detecation Limit, **DL-Detecation Limit.

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Test Report

Sample Number : VEL/JK/AN/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 : Ambient Noise
Scope of Monitoring : Regulatory Requirement
Protocol Used : IS 9989; IS 9876
Instrument Used : SLM
Report No. : VEL/N/2106210005/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 28/06/2021
Receipt Date : 21/06/2021
Sampling Duration : 24 Hrs.
Sample Collected by : VEL Team
Instrument : Calibrated
Calibration Status :

General Information

Sampling Location : Pundlu Village- (Buffer Zone MI.No. 03/93, 75/90, 25/2006)
Instrument Code : VEL/JAI/SLM/07
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 13/06/2021 To 14/06/2021
Time of Monitoring : 06.00 to 06.00 Hrs.
Ambient Temperature (°C) : Min. 26 Max. 38
Surrounding Activity : Human, Vehicular & Other Activities
Parameter Required : As Per Work Order

S.No.	Test Parameters	Protocol	Test Result dB (A)	
			Day Time	Night Time
1	L max	IS: 9989-1981, IS 9876: 1981	70.3	54.8
2	L min	IS: 9989-1981, IS 9876: 1981	49.5	39.1
3	Leq	IS: 9989-1981, IS 9876: 1981	54.69	43.56

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. SilenceZone is defined as an area up to 100m around premises of Hospitals, Educational Institutions 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 Report

DINESH PALSANIYA

RAJ KUNAR YADAV

(Authorized Signatory)

G M LAB OPERATION

(Checked By)

DY TECHNICAL MANAGER



Test Report

Sample Number : VEL/JK/AN/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
 Sample Description : Ambient Noise
 Scope of Monitoring : Regulatory Requirement
 Protocol Used : IS 9989; IS 9876
 Instrument Used : SLM

Report No. : VEL/N/2106210006/A
 Format No : 7.8 F-01
 Party Reference No : NIL
 Report Date : 28/06/2021
 Receipt Date : 21/06/2021
 Sampling Duration : 24 Hrs.
 Sample Collected by : VEL Team
 Instrument : Calibrated
 Calibration Status

General Information

Sampling Location : Dhanappa Village- (Buffer Zone MI.No. 03/93, 75/90, 25/2006)
 Instrument Code : VEL/JAI/SLM/10
 Meteorological condition during monitoring : Clear Sky
 Date of Monitoring : 13/06/2021 To 14/06/2021
 Time of Monitoring : 06.00 to 06.00 Hrs.
 Ambient Temperature (°C) : Min. 26 Max. 38
 Surrounding Activity : Human, Vehicular & Other Activities
 Parameter Required : As Per Work Order

S.No.	Test Parameters	Protocol	Test Result dB (A)	
			Day Time	Night Time
1	L max	IS: 9989-1981, IS 9876: 1981	69.5	55.9
2	L min	IS: 9989-1981, IS 9876: 1981	48.1	39.2
3	Leq	IS: 9989-1981, IS 9876: 1981	53.87	43.51

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. SilenceZone is defined as an area up to 100m around premises of Hospitals, Educational Institutions 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 Report

DINESH PALSANIYA

RAJ KUMAR YADAV

(Authorized Signatory)

G M LAB OPERATION

(Checked By)
 DY TECHNICAL MANAGER



Test Report

Sample Number : VEL/JK/AN/03

Report No. : VEL/N/2106210007/A

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

Format No : 7.8 F-01

(Unit of JK Cement LTD.) Dhanappa Limestone Mines

Party Reference No : NIL

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

Report Date : 28/06/2021

Nagaur Rajasthan

Receipt Date : 21/06/2021

Sample Description : Ambient Noise

Sampling Duration : 24 Hrs

Scope of Monitoring : Regulatory Requirement

Sample Collected by : VEL Team

Protocol Used : IS 9989; IS 9876

Instrument : Calibrated

Instrument Used : SLM

Calibration Status

General Information

Sampling Location : Ramnagar Village- (Buffer Zone of MI.No. 03/93, 75/90, 25/2006)

Instrument Code : VEL/JAI/SLM/08

Meteorological condition during monitoring : Clear Sky

Date of Monitoring : 13/06/2021 To 14/06/2021

Time of Monitoring : 06.00 to 06.00 Hrs.

Ambient Temperature (°C) : Min. 26 Max. 38

Surrounding Activity : Human, Vehicular & Other Activities

Parameter Required : As Per Work Order

S.No.	Test Parameters	Protocol	Test Result dB (A)	
			Day Time	Night Time
1	L max	IS: 9989-1981, IS 9876: 1981	68.5	53.6
2	L min	IS: 9989-1981, IS 9876: 1981	47.2	38.1
3	Leq	IS: 9989-1981, IS 9876: 1981	52.63	42.57

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. SilenceZone is defined as an area up to 100m around premises of Hospitals, Educational Institutions 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 Report

DINESH PALSANIYA

RAJ KUMAR YADAV

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DY TECHNICAL MANAGER

G M LAB OPERATION



Test Report

Sample Number : VEL/JK/AN/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 Rajasthan
Sample Description : Ambient Noise
Scope of Monitoring : Regulatory Requirement
Protocol Used : IS 9989, IS 9876
Instrument Used : SLM
Report No. : VEL/N/2106210008/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 28/06/2021
Receipt Date : 21/06/2021
Sampling Duration : 24 Hrs.
Sample Collected by : VEL Team
Instrument : Calibrated
Calibration Status

General Information

Sampling Location : Basni Village- (Buffer Zone of ML.No. 03/93, 75/90, 25/2006)
Instrument Code : VEL/JAI/SLM/09
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 13/06/2021 To 14/06/2021
Time of Monitoring : 06.00 to 06.00 Hrs.
Ambient Temperature (°C) : Min. 26 Max. 38
Surrounding Activity : Human, Vehicular & Other Activities
Parameter Required : As Per Work Order

S.No.	Test Parameters	Protocol	Test Result dB (A)	
			Day Time	Night Time
1	L max	IS: 9989-1981, IS 9876: 1981	71.6	55.8
2	L min	IS: 9989-1981, IS 9876: 1981	48.3	40.3
3	Leq	IS: 9989-1981, IS 9876: 1981	54.36	44.62

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. SilenceZone is defined as an area up to 100m around premises of Hospitals, Educational Institutions 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 Report

DINESH PALSANIY

(Checked By)

TECHNICAL MANAGER

RAJ KUMAR YADAV
(Authorized Signatory)

G M LAB OPERATION



Test Report

Sample Number : VEL/JK/AN/01
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 : Ambient Noise
Scope of Monitoring : Regulatory Requirement
Protocol Used : IS 9989, IS 9876
Instrument Used : SLM

Report No. : VEL/N/2106210009/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 28/06/2021
Receipt Date : 21/06/2021
Sampling Duration : 24 Hrs.
Sample Collected by : VEL Team
Instrument : Calibrated
Calibration Status

General Information
Sampling Location : Mines Office (ML No. 03/93)
Instrument Code : VEL/JAI/SLM/10
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 12/06/2021 To 13/06/2021
Time of Monitoring : 06.00 to 06.00 Hrs.
Ambient Temperature (°C) : Min. 28 Max. 40
Surrounding Activity : Human, Vehicular & Other Activities
Parameter Required : As Per Work Order

S.No.	Test Parameters	Protocol	Test Result dB (A)	
			Day Time	Night Time
1	L max	IS: 9989-1981, IS 9876: 1981	70.6	56.2
2	L min	IS: 9989-1981, IS 9876: 1981	49.2	39.7
3	Leq	IS: 9989-1981, IS 9876: 1981	53.87	43.65

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. SilenceZone is defined as an area up to 100m around premises of Hospitals, Educational Institutions 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 Report

DINAKAR PALSANIYA
(Checked By)
DY TECHNICAL MANAGER

RAJ KUMAR YADAV
(Authorized Signatory)
G M LAB OPERATION



Test Report

Sample Number : VEL/JK/AN/02

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

Report No. : VEL/N/2106210010/A

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 28/06/2021

Receipt Date : 21/06/2021

Sampling Duration : 24 Hrs

Sample Collected by : VEL Team

Instrument : Calibrated

Calibration Status

Sample Description

: Ambient Noise

Scope of Monitoring

: Regulatory Requirement

Protocol Used

: IS 9989; IS 9876

Instrument Used

: SLM

General Information

Sampling Location

: Pit-3 (MI. No. 03/93)

Instrument Code

: VEL/JAI/SLM/09

Meteorological condition during monitoring

: Clear Sky

Date of Monitoring

: 12/06/2021 To 13/06/2021

Time of Monitoring

: 06.00 to 06.00 Hrs.

Ambient Temperature (°C)

: Min. 28 Max. 40

Surrounding Activity

: Human, Vehicular & Other Activities

Parameter Required

: As Per Work Order

S.No.	Test Parameters	Protocol	Test Result dB (A)	
			Day Time	Night Time
1	L max	IS: 9989-1981, IS 9876: 1981	71.3	56.8
2	L min	IS: 9989-1981, IS 9876: 1981	50.8	40.3
3	Leq	IS: 9989-1981, IS 9876: 1981	58.1	46.2

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. SilenceZone is defined as an area up to 100m around premises of Hospitals, Educational Institutions 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 Report

DINESH PALSANIYA

(Checked By)

TECHNICAL MANAGER

RAJ KUMAR YADAV

(Authorized Signatory)

G M LAB OPERATION



Test Report

Sample Number : VEL/JK/AN/03
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 : Ambient Noise
Scope of Monitoring : Regulatory Requirement
Protocol Used : IS 9989; IS 9876
Instrument Used : SLM
Report No. : VEL/N/2106210011/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 28/06/2021
Receipt Date : 21/06/2021
Sampling Duration : 24 Hrs.
Sample Collected by : VEL Team
Instrument : Calibrated
Calibration Status :

General Information

Sampling Location : Pit- 2 (ML. No. 03/93)
Instrument Code : VEL/JAI/SLM/08
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 12/06/2021 To 13/06/2021
Time of Monitoring : 06.00 to 06.00 Hrs.
Ambient Temperature (°C) : Min. 28 Max. 40
Surrounding Activity : Human, Vehicular & Other Activities
Parameter Required : As Per Work Order

S.No.	Test Parameters	Protocol	Test Result dB (A)	
			Day Time	Night Time
1	L max	IS: 9989-1981, IS 9876: 1981	69.3	56.2
2	L min	IS: 9989-1981, IS 9876: 1981	47.5	39.7
3	Leq	IS: 9989-1981, IS 9876: 1981	56.2	46.12

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. SilenceZone is defined as an area up to 100m around premises of Hospitals, Educational Institutions 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 Report

DINESH PALSANIYA

(Checked By)

TECHNICAL MANAGER

RAJ KUMAR YADAV

(Authorized Signatory)

G M LAB OPERATION



Test Report

Sample Number : VEL/JK/AN/04
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 : Ambient Noise
Scope of Monitoring : Regulatory Requirement
Protocol Used : IS 9989; IS 9876
Instrument Used : SLM

Report No. : VEL/N/2106210012/A
Format No : 7.8 F-01
Party Reference No : NIL
Report Date : 28/06/2021
Receipt Date : 21/06/2021
Sampling Duration : 24 Hrs.
Sample Collected by : VEL Team
Instrument : Calibrated
Calibration Status

General Information

Sampling Location : Pit- 1 (ML. No. 03/93)
Instrument Code : VEL/JAI/SLM/07
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 12/06/2021 To 13/06/2021
Time of Monitoring : 06.00 to 06.00 Hrs.
Ambient Temperature (°C) : Min. 28 Max. 40
Surrounding Activity : Human, Vehicular & Other Activities
Parameter Required : As Per Work Order

S.No.	Test Parameters	Protocol	Test Result dB (A)	
			Day Time	Night Time
1	L max	IS: 9989-1981, IS 9876: 1981	72.5	56.8
2	L min	IS: 9989-1981, IS 9876: 1981	50.6	41.7
3	Leq	IS: 9989-1981, IS 9876: 1981	58.1	46.5

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. SilenceZone is defined as an area up to 100m around premises of Hospitals, Educational Institutions 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 Report

DINESH PALSANIYA

RAJ KUMAR YADAV

(Checked By)

(Authorized Signatory)

TECHNICAL MANAGER

G M LAB OPERATION



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number:	VEL/JK/AN/01	Report No.:	VEL /N/2109290009
Name & Address of the Party:	M/s JK White Cement Works, Gotan (unit of JK Cement LTD) Dhanappa Lime Stone Mines (M.L. No. -03/93) Village Dhanappa, Tehsil- Merta Dist.Nagaur (Rajasthan)	Format No.:	7.8 F 01
Sample Description:	Ambient Noise Level Monitoring	Party Reference No.:	NIL
Scope of Monitoring	Regulatory Requirement	Reporting Date:	04/10/2021
Protocol Used:	IS 9989: IS 9876	Receipt Date:	29/09/2021
Instrument Used	SLM	Sampling Duration	24 Hrs.
		Sample Collected by	VEL Team
		Instrument Calibration Status	Calibrated

General Information:-

Sampling Location	: Pit -1(ML. No. 03/93)(Core Zone)
Instrument Code	: VEL/SLM/13
Meteorological condition during monitoring	: Clear sky
Date of Monitoring	: 24/09/2021 to 25/09/2021
Time of Monitoring	: 06:00 AM to 06:00AM
Ambient Temperature (°C)	: Min. 25°C, Max. 31 °C
Surrounding Activity	: Human & Vehicular Activities
Parameter Required	: As per Work Order

Sr.No.	Test Parameter	Protocol	Test Result dB(A)	
			Day Time	Night Time
1.	L max	IS:9989,IS9876:1981	72.1	57.2
2.	L min	IS:9989,IS9876:1981	51.8	42.8
3.	Leq	IS:9989,IS9876:1981	57.69	45.96

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

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VEL/E/1/TR/PN5446

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Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number:	VEL/JK/AN/02	Report No.:	VEL /N/2109290010
Name & Address of the Party:	M/s JK White Cement Works, Gotan (unit of JK Cement LTD) Dhanappa Lime Stone Mines [M.L. No. -03/93] Village Dhanappa ,Tehsil- Merta Dist.Nagaur (Rajasthan)	Format No.:	7.8 F 01
		Party Reference No.:	NIL
Sample Description:	Ambient Noise Level Monitoring	Reporting Date:	04/10/2021
Scope of Monitoring	Regulatory Requirement	Receipt Date:	29/09/2021
Protocol Used:	IS 9989: IS 9876	Sampling Duration	24 Hrs.
Instrument Used	SLM	Sample Collected by	VEL Team
		Instrument Calibration Status	Calibrated

General Information:-

Sampling Location	: Pit -2 (ML. No. 03/93)(Core Zone)
Instrument Code	: VEL/SLM/04
Meteorological condition during monitoring	: Clear sky
Date of Monitoring	: 24/09/2021 to 25/09/2021
Time of Monitoring	: 06:00 AM to 06:00AM
Ambient Temperature (°C)	: Min. 26°C, Max. 32 °C
Surrounding Activity	: Human & Vehicular Activities
Parameter Required	: As per Work Order

Sr.No.	Test Parameter	Protocol	Test Result dB(A)	
			Day Time	Night Time
1.	L max	IS:9989,IS9876:1981	70.9	57.9
2.	L min	IS:9989,IS9876:1981	49.5	41.7
3.	Leq	IS:9989,IS9876:1981	55.96	47.74

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

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VEL/E/I/TR/PN5447

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Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number:	VEL/JK/AN/03	Report No.:	VEL /N/2109290011
Name & Address of the Party:	M/s JK White Cement Works, Gotan (unit of JK Cement LTD) Dhanappa Lime Stone Mines (M.L. No. -03/93) Village Dhanappa ,Tehsil- Merta Dist.Nagaur (Rajasthan)	Format No.:	7.8 F 01
Sample Description:	Ambient Noise Level Monitoring	Party Reference No.:	NIL
Scope of Monitoring	Regulatory Requirement	Reporting Date:	04/10/2021
Protocol Used:	IS 9989: IS 9876	Receipt Date:	29/09/2021
Instrument Used	SLM	Sampling Duration	24 Hrs.
		Sample Collected by	VEL Team
		Instrument Calibration Status	Calibrated

General Information:-

Sampling Location	: Pit -3 (ML. No. 03/93)(Core Zone)
Instrument Code	: VEL/SLM/01
Meteorological condition during monitoring	: Clear sky
Date of Monitoring	: 24/09/2021 to 25/09/2021
Time of Monitoring	: 06:00 AM to 06:00AM
Ambient Temperature (°C)	: Min. 25°C, Max. 31 °C
Surrounding Activity	: Human & Vehicular Activities
Parameter Required	: As per Work Order

Sr.No.	Test Parameter	Protocol	Test Result dB(A)	
			Day Time	Night Time
1.	L max	IS:9989,IS9876:1981	72.4	58.6
2.	L min	IS:9989,IS9876:1981	50.2	41.4
3.	Leq	IS:9989,IS9876:1981	57.36	46.87

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

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Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number:	VEL/JK/AN/04	Report No.:	VEL /N/2109290012
Name & Address of the Party:	M/s JK White Cement Works, Gotan (unit of JK Cement LTD) Dhanappa Lime Stone Mines (M.L. No. -03/93) Village Dhanappa ,Tehsil- Merta Dist.Nagaur (Rajasthan)	Format No.:	7.8 F 01
Sample Description:	Ambient Noise Level Monitoring	Party Reference No.:	NIL
Scope of Monitoring	Regulatory Requirement	Reporting Date:	04/10/2021
Protocol Used:	IS 9989: IS 9876	Receipt Date:	29/09/2021
Instrument Used	SLM	Sampling Duration	24 Hrs.
		Sample Collected by	VEL Team
		Instrument Calibration Status	Calibrated

General Information:-

Sampling Location	: Mines Office (ML.No.03/93) (Core Zone)
Instrument Code	: VEL/SLM/02
Meteorological condition during monitoring	: Clear sky
Date of Monitoring	: 23/09/2021 to 24/09/2021
Time of Monitoring	: 06:00 AM to 06:00AM
Ambient Temperature (°C)	: Min. 26°C, Max. 32 °C
Surrounding Activity	: Human & Vehicular Activities
Parameter Required	: As per Work Order

Sr.No.	Test Parameter	Protocol	Test Result dB(A)	
			Day Time	Night Time
1.	L max,	IS:9989,IS9876:1981	69.9	57.4
2.	L min	IS:9989,IS9876:1981	49.1	39.6
3.	Leq	IS:9989,IS9876:1981	54.23	43.79

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

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VEL/E/1/TR/PN5449

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Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number:	VEL/JK/AN/05	Report No.:	VEL /N/2109290013
Name & Address of the Party:	M/s JK White Cement Works, Gotan (unit of JK Cement LTD) Dhanappa Lime Stone Mines (M.L. No. -03/93) Village Dhanappa ,Tehsil- Merta Dist.Nagaur (Rajasthan)	Format No.:	7.8 F 01
		Party Reference No.:	NIL
Sample Description:	Ambient Noise Level Monitoring	Reporting Date:	04/10/2021
Scope of Monitoring	Regulatory Requirement	Receipt Date:	29/09/2021
Protocol Used:	IS 9989: IS 9876	Sampling Duration	24 Hrs.
Instrument Used	SLM	Sample Collected by	VEL Team
		Instrument Calibration Status	Calibrated

General Information:-

Sampling Location	: Dhanappa Village (Buffer Zone ML. No.03/93,75/90,25/2006)
Instrument Code	: VEL/SLM/13
Meteorological condition during monitoring	: Clear sky
Date of Monitoring	: 25/09/2021 to 26/09/2021
Time of Monitoring	: 06:00 AM to 06:00AM
Ambient Temperature (°C)	: Min. 26°C, Max. 32 °C
Surrounding Activity	: Human & Vehicular Activities
Parameter Required	: As per Work Order

Sr.No.	Test Parameter	Protocol	Test Result dB(A)	
			Day Time	Night Time
1.	L max	IS:9989,IS9876:1981	70.4	56.7
2.	L min	IS:9989,IS9876:1981	47.6	38.9
3.	Leq	IS:9989,IS9876:1981	54.14	44.17

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

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Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number:	VEL/JK/AN/06	Report No.:	VEL /N/2109290013
Name & Address of the Party:	M/s JK White Cement Works, Gotan (unit of JK Cement LTD) Dhanappa Lime Stone Mines (M.L. No. -03/93) Village Dhanappa ,Tehsil- Merta Dist.Nagaur (Rajasthan)	Format No.:	7.8 F 01
Sample Description:	Ambient Noise Level Monitoring	Party Reference No.:	NIL
Scope of Monitoring	Regulatory Requirement	Reporting Date:	04/10/2021
Protocol Used:	IS 9989: IS 9876	Receipt Date:	29/09/2021
Instrument Used	SLM	Sampling Duration	24 Hrs.
		Sample Collected by	VEL Team
		Instrument Calibration Status	Calibrated

General Information:-

Sampling Location	Dhanappa Village (Buffer Zone ML. No.03/93,75/90,25/2006)
Instrument Code	: VEL/SLM/13
Meteorological condition during monitoring	: Clear sky
Date of Monitoring	: 25/09/2021 to 26/09/2021
Time of Monitoring	: 06:00 AM to 06:00AM
Ambient Temperature (°C)	: Min. 26°C, Max. 32 °C
Surrounding Activity	: Human & Vehicular Activities
Parameter Required	: As per Work Order

Sr.No.	Test Parameter	Protocol	Test Result dB(A)	
			Day Time	Night Time
1.	L max	IS:9989,IS9876:1981	70.4	56.7
2.	L min	IS:9989,IS9876:1981	47.6	38.9
3.	Leq	IS:9989,IS9876:1981	54.14	44.17

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

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Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number:	VEL/JK/AN/07	Report No.:	VEL /N/2109290013
Name & Address of the Party:	M/s JK White Cement Works, Gotan (unit of JK Cement LTD) Dhanappa Lime Stone Mines (M.L. No. -03/93) Village Dhanappa ,Tehsil- Merta Dist.Nagaur (Rajasthan)	Format No.:	7.8 F 01
Sample Description:	Ambient Noise Level Monitoring	Party Reference No.:	NIL
Scope of Monitoring	Regulatory Requirement	Reporting Date:	04/10/2021
Protocol Used:	IS 9989: IS 9876	Receipt Date:	29/09/2021
Instrument Used	SLM	Sampling Duration	24 Hrs.
		Sample Collected by	VEL Team
		Instrument Calibration Status	Calibrated

General Information:-

Sampling Location	: Dhanappa Village (Buffer Zone ML. No.03/93,75/90,25/2006)
Instrument Code	: VEL/SLM/13
Meteorological condition during monitoring	: Clear sky
Date of Monitoring	: 25/09/2021 to 26/09/2021
Time of Monitoring	: 06:00 AM to 06:00AM
Ambient Temperature (°C)	: Min. 26°C, Max. 32 °C
Surrounding Activity	: Human & Vehicular Activities
Parameter Required	: As per Work Order

Sr.No.	Test Parameter	Protocol	Test Result dB(A)	
			Day Time	Night Time
1.	L max	IS:9989,IS9876:1981	70.4	56.7
2.	L min	IS:9989,IS9876:1981	47.6	38.9
3.	Leq	IS:9989,IS9876:1981	54.14	44.17

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

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VEL/E/1/TR/PN5452

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Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number:	VEL/JK/AN/08	Report No.:	VEL/N/2109290014
Name & Address of the Party:	M/s JK White Cement Works, Gotan (unit of JK Cement LTD) Dhanappa Lime Stone Mines (M.L. No. -03/93) Village Dhanappa, Tehsil- Merta Dist. Nagaur (Rajasthan)	Format No.:	7.8 F 01
Sample Description:	Ambient Noise Level Monitoring	Party Reference No.:	NIL
Scope of Monitoring	Regulatory Requirement	Reporting Date:	04/10/2021
Protocol Used:	IS 9989: IS 9876	Receipt Date:	29/09/2021
Instrument Used	SLM	Sampling Duration	24 Hrs.
		Sample Collected by	VEL Team
		Instrument Calibration Status	Calibrated

General Information:-

Sampling Location	Basni Village (Buffer Zone ML. No.03/93,75/90,25/2006)
Instrument Code	: VEL/SLM/04
Meteorological condition during monitoring	: Clear sky
Date of Monitoring	: 25/09/2021 to 26/09/2021
Time of Monitoring	: 06:00 AM to 06:00AM
Ambient Temperature (°C)	: Min. 26°C, Max. 32 °C
Surrounding Activity	: Human & Vehicular Activities
Parameter Required	: As per Work Order

Sr.No.	Test Parameter	Protocol	Test Result dB(A)	
			Day Time	Night Time
1.	L max	IS:9989,IS9876:1981	72.5	56.2
2.	L min	IS:9989,IS9876:1981	46.9	39.5
3.	Leq	IS:9989,IS9876:1981	53.62	43.52

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

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Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
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Test Report

Sample Number:	VEL/JK/AN/09	Report No.:	VEL /N/2109290015
Name & Address of the Party:	M/s JK White Cement Works, Gotan (unit of JK Cement LTD) Dhanappa Lime Stone Mines (M.L. No. -03/93) Village Dhanappa, Tehsil- Merta Dist. Nagaur (Rajasthan)	Format No.:	7.8 F 01
Sample Description:	Ambient Noise Level Monitoring	Party Reference No.:	NIL
Scope of Monitoring	Regulatory Requirement	Reporting Date:	04/10/2021
Protocol Used:	IS 9989: IS 9876	Receipt Date:	29/09/2021
Instrument Used	SLM	Sampling Duration	24 Hrs.
		Sample Collected by	VEL Team
		Instrument Calibration Status	Calibrated

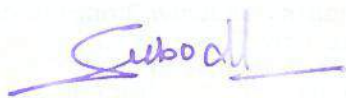
General Information:-

Sampling Location	Ramnagar Village (Buffer Zone ML. No.03/93,75/90,25/2006)
Instrument Code	: VEL/SLM/01
Meteorological condition during monitoring	: Clear sky
Date of Monitoring	: 25/09/2021 to 26/09/2021
Time of Monitoring	: 06:00 AM to 06:00AM
Ambient Temperature (°C)	: Min. 26°C, Max. 32 °C
Surrounding Activity	: Human & Vehicular Activities
Parameter Required	: As per Work Order

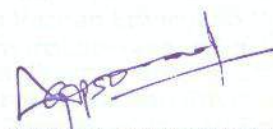
Sr.No.	Test Parameter	Protocol	Test Result dB(A)	
			Day Time	Night Time
1.	L max	IS:9989,IS9876:1981	69.1	57.8
2.	L min	IS:9989,IS9876:1981	46.4	39.2
3.	Leq	IS:9989,IS9876:1981	53.10	43.31

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



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VEL/E/1/TR/PN5454

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Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number:	VEL/JK/AN/10	Report No.:	VEL /N/2109290016
Name & Address of the Party:	M/s JK White Cement Works, Gotan (unit of JK Cement LTD) Dhanappa Lime Stone Mines (M.L. No. -03/93) Village Dhanappa ,Tehsil- Merta Dist.Nagaur (Rajasthan)	Format No.:	7.8 F 01
		Party Reference No.:	NIL
Sample Description:	Ambient Noise Level Monitoring	Reporting Date:	04/10/2021
Scope of Monitoring	Regulatory Requirement	Receipt Date:	29/09/2021
Protocol Used:	IS 9989: IS 9876	Sampling Duration	24 Hrs.
Instrument Used	SLM	Sample Collected by	VEL Team
		Instrument Calibration Status	Calibrated

General Information:-

Sampling Location	: Pandlu Village (Buffer Zone ML. No.03/93,75/90,25/2006)
Instrument Code	: VEL/SLM/02
Meteorological condition during monitoring	: Clear sky
Date of Monitoring	: 25/09/2021 to 26/09/2021
Time of Monitoring	: 06:00 AM to 06:00AM
Ambient Temperature (°C)	: Min. 26°C, Max. 32 °C
Surrounding Activity	: Human & Vehicular Activities
Parameter Required	: As per Work Order

Sr. No.	Test Parameter	Protocol	Test Result dB(A)	
			Day Time	Night Time
1.	L max	IS:9989,IS9876:1981	71.4	56.4
2.	L min	IS:9989,IS9876:1981	48.6	38.7
3.	Leq	IS:9989,IS9876:1981	54.11	42.63

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

(Checked By)

(Authorized Signatory)



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Test Report

Sample Number : VEL/W/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

Report No. : VEL/W/2106210009/A

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 28/06/2021

Period of Analysis : 21/06/2021-28/06/2021

Receipt Date : 21/06/2021

Sampling Date : 14/06/2021

Sampling Quantity : 2 Ltr.

Sampling Type : Grab

Sample Description : GROUND WATER

Location : Dhanappa Village(Tubewell) (ML. No. 03/93)

Sample Collected by : VEL Team

Preservation : Suitable Preservation

Sampling and Analysis Protocol : IS 10500 -2012

S.No.	Parameters	Protocols	Results	Units	IS:10500-2012	
					Acceptable Limits	Permissible Limits
1	pH	IS 3025 (P-11): 1983 Reaff. 2017	7.48	--	6.5 to 8.5	No Relaxation
2	Total Dissolved Solids	IS 3025 (P-16): 1984 Reaff 2017	1906.6	mg/l	500	2000
3	Total Alkalinity (as CaCO ₃)	IS: 3025 (Part 23): 1986, Reaff. 2019	353.08	mg/l	200	600
4	Total Hardness (as CaCO ₃)	IS: 3025 (Part 21): 2009, Reaff. 2019	461.04	mg/l	200	600
5	Nitrate (as NO ₃)	IS: 3025 (Part 34): 1988, Reaff. 2019	28.98	mg/l	45	No Relaxation
6	Chloride (as Cl)	IS: 3025 (Part 32): 1988, Reaff. 2019	777.06	mg/l	250	1000
7	Sulphate (as SO ₄)	IS: 3025 (Part 24): 1986, Reaff. 2019 Turbidity Method	119.55	mg/l	200	400
8	Sodium (as Na)	IS-3025 (Part-45):1993, Reaff: 2019	489.0	mg/l	NA	NA
9	Potassium (as K)	IS-3025 (Part-45):1993, Reaff: 2019	4.39	mg/l	NA	NA
10	Calcium (as Ca)	IS: 3025 (Part 40): 1991 Reaff. 2019	105.07	mg/l	75	200
11	Magnesium (as Mg)	IS: 3025 (Part 46): 1994, Reaff. 2009 (EDTA method)	48.33	mg/l	30	100
12	Fluorides (as F)	APHA 23rd Edition 2017, 4500 FD	1.30	mg/l	1.0	1.5
13	Phenolic Compound (as C ₆ H ₅ OH)	APHA 23rd Edition 2017, 5530C	*BDL(**DL-0.001)	mg/l	0.001	0.002
14	Iron (as Fe)	IS 3025(P-53): 2003 Reaffirm 2019	0.20	mg/l	1.0	No Relaxation
15	Arsenic (as As)	APHA (23rd edition-2017), 3114 C	*BDL(**DL-0.005)	mg/l	0.01	No Relaxation
16	Mercury (as Hg)	APHA (23rd edition-2017), 3114C	*BDL(**DL-0.0005)	mg/l	0.001	No Relaxation
17	Lead (as Pb)	APHA (23rd edition-2017), 3030D, 3113 B	*BDL(**DL-0.005)	mg/l	0.01	No Relaxation
18	Cadmium (as Cd)	APHA (23rd edition-2017), 3030D, 3113 B	*BDL(**DL-0.002)	mg/l	0.003	No Relaxation
19	Chromium (as Cr)	APHA 23rd Edition Year 2017 Method No. 3113 B	*BDL(**DL-0.02)	mg/l	0.05	No Relaxation
20	Copper (as Cu)	APHA 23rd Edition Year 2017 Method No. 3111B	*BDL(**DL-0.02)	mg/l	0.05	1.5
21	Zinc (as Zn)	APHA (23rd edition-2017), 3030D,	*BDL(**DL-0.20)	mg/l	5.0	15



Test Report

Sample Number : VEL/W/12

Report No. : VEL/W/2106210009/A

S.No.	Parameters	Protocols	Results	Units	IS:10500-2012	
					Acceptable Limits	Permissible Limits
21		3113 B				
22	Selenium (as Se)	APHA (23rd edition-2017), 3114C	*BDL(**DL-0.005)	mg/l	0.01	No Relaxation
23	Turbidity	IS 3025 (Part 10): 1984, Ref: 2017, (Nephelometric Method)	*BDL(**DL-1.0)	NTU	1	5
24	Aluminium	IS 3025 (Part-55): 2003, Reaff. 2019	*BDL(**DL-0.03)	mg/l	0.03	0.2
25	Manganese (as Mn)	IS: 3025 (Part 46): 1994, Reaff. 2019 (EDTA method)	*BDL(**DL-0.05)	mg/l	0.1	0.3
26	Ammonia (as NH ₃)	IS-3025 (Part-34)- 1988, RA. 2019	*BDL(**DL-0.3)	mg/l	0.5	No Relaxation
27	Boron (as B)	APHA 23rd Edition Year 2017 Method No. 4500B	*BDL(**DL-0.2)	mg/l	0.5	1.0
28	Nickel (as Ni)	APHA (23rd edition-2017), 3030D, 3113 B	*BDL(**DL-0.01)	mg/l	0.02	No Relaxation
29	Sulphide	IS: 3025 (Part 29): 1986, RA. 2009 Turbidity Method	*BDL(**DL-0.2)	mg/l	200	400
30	Free Residual Chlorine	IS: 3025 (Part 26): 1986 RA 2019	*BDL(**DL-0.2)	mg/l	0.2	1

*BDL(Below Detection Limit),**DL(Detection Limit)

End of Report

(Checked By)

RAJ KUMAR YADAV

(Authorized Signatory)

G M LAB OPERATION



Test Report

Sample Number : VEL/W/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

: GROUND WATER

Location

: Dhanappa Village(Tubewell) (MI. No. 03/93)

Sample Collected by

: VEL Team

Preservation

: Suitable Preservation

Sampling and Analysis
Protocol

: IS 10500 -2012

Report No. : VEL/W/2106210009/B

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 28/06/2021

Period of Analysis : 21/06/2021-28/06/2021

Receipt Date : 21/06/2021

Sampling Date : 14/06/2021

Sampling Quantity : 2 Ltr.

Sampling Type : Grab

S.No.	Parameters	Protocols	Results	Units	IS:10500-2012	
					Acceptable Limits	Permissible Limits
1	Total Coliform	IS:1622	Absent	MPN/100 ml	Shall not be Detectable in any 100 ml sample	NA
2	E-Coli	IS:1622	Absent	MPN/100 ml	Absent/100 ml	Absent/100 ml
3	Silver (as Ag)	IS: 3025 (P-2)	*BDL(**DL-0.01)	mg/l	0.1	No Relaxation
4	Cyanide (as CN)	APHA 23rd Edition 2017, 4500CN D	*BDL(**DL-0.05)	mg/l	0.05	No Relaxation
5	Colour	IS 3025: 1983 (P-4) RA.. 2017	*BDL(**DL-1.0)	Hazen	5	15
6	Odour	IS 3025 (P-5): RA. 2018	Agreeable	Qualitative	Agreeable	Agreeable
7	Taste	IS 3025(P-8):1984 RA. 2017	Agreeable	Qualitative	Agreeable	Agreeable
8	Anionic Surface Active Agent	APHA 23rd Edition 2017, 5540C	*BDL(**DL-0.05)	mg/l	0.2	1.0
9	Mineral Oil	IS 3025(P-39)	*BDL(**DL-0.05)	mg/l	0.5	No Relaxation
10	Barium as (Ba)	APHA3111B	*BDL(**DL-0.02)	mg/l	0.7	No Relaxation
11	Molybdenum as (Mo)	APHA	*BDL(**DL-0.01)	mg/l	0.07	No Relaxation
12	Carbonate as CO ₃	IS: 3025 (Part 23): 1986, RA 2019	*BDL(**DL-2.0)	mg/l	-	-
13	Polychlorinated biphenyls (PCB)	APHA 5175/6630	*BDL(**DL-0.01)	µg/L	0.0005	No relaxation
14	Polynuclear-aromatic Hydrocarbon (PAH)	APHA 23rd Edition 2017, 6040	*BDL(**DL-0.01)	µg/L	0.0001	No relaxation
15	Chloramines as Cl	IS 3025 (Part 26)	*BDL(**DL-0.5)	mg/L	4	No relaxation

RAJ KUMAR YADAV

G M LABORATION
Page No. 1/2

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Note: Terms & conditions refer on backside of test report.



Test Report

Sample Number : VEL/W/12

Report No. : VEL/W/2106210009/B

*BDL(Below Detection Limit),**DL(Detection Limit)

End of Report


(Checked By)

RAJ KUMAR YADAV
(Authorized Signatory)
G M LAB OPERATION



Test Report

Sample Number : VEL/W/13

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

Report No. : VEL/W/2106210010/A

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 28/06/2021

Period of Analysis : 21/06/2021-28/06/2021

Receipt Date : 21/06/2021

Sampling Date : 14/06/2021

Sampling Quantity : 2 Ltr.

Sampling Type : Grab

Sample Description : SURFACE WATER

Location : Dhanappa Village(Pit Water) (ML. No. 03/93)

Sample Collected by : VEL Team

Preservation : Suitable Preservation

Sampling and Analysis Protocol : IS 2296

S.No.	Test Parameters	Test Method	Results	Units		
					Specification s	Limits (Max)
1	pH	IS 3025 (P-11): 1983 Reaff. 2017	8.04	--	6.5 to 8.5	No Relaxation
2	Total Dissolved Solids	IS 3025 (P-16): 1984 Reaff 2017	148.0	mg/l	500	2000
3	Total Alkalinity (as CaCO ₃)	IS: 3025 (Part 23): 1986, Reaff. 2019	31.04	mg/l	200	600
4	Total Hardness (as CaCO ₃)	IS: 3025 (Part 21): 2009, Reaff. 2019	22.60	mg/l	200	600
5	Nitrate (as NO ₃)	IS: 3025 (Part 34): 1988, Reaff. 2019	5.96	mg/l	45	No Relaxation
6	Chloride (as Cl)	IS: 3025 (Part 32): 1988, Reaff. 2019	38.85	mg/l	250	1000
7	Sulphate (as SO ₄)	IS: 3025 (Part 24): 1986, Reaff. 2019 Turbidity Method	12.69	mg/l	200	400
8	Sodium (as Na)	IS-3025 (Part-45):1993, Reaff: 2019	28.50	mg/l	NA	NA
9	Potassium (as K)	IS-3025 (Part-45):1993, Reaff: 2019	1.95	mg/l	NA	NA
10	Calcium (as Ca)	IS: 3025 (Part 40): 1991 Reaff. 2019	5.43	mg/l	75	200
11	Magnesium (as Mg)	IS: 3025 (Part 46): 1994, Reaff. 2009 (EDTA method)	2.19	mg/l	30	100
12	Fluorides (as F)	APHA 23rd Edition 2017, 4500 FD	0.20	mg/l	1.0	1.5
13	Phenolic Compound (as C ₆ H ₅ OH)	APHA 23rd Edition 2017, 5530C	*BDL(**DL-0.001)	mg/l	0.001	0.002
14	Iron (as Fe)	IS 3025(P-53): 2003 Reaffirm 2019	*BDL(*DL- 0.1)	mg/l	1.0	No Relaxation
15	Arsenic (as As)	APHA (23rd edition-2017), 3114 C	*BDL(**DL-0.005)	mg/l	0.01	No Relaxation
16	Mercury (as Hg)	APHA (23rd edition-2017), 3114C	*BDL(**DL-0.0005)	mg/l	0.001	No Relaxation
17	Lead (as Pb)	APHA (23rd edition-2017), 3030D, 3113 B	*BDL(**DL-0.005)	mg/l	0.01	No Relaxation
18	Cadmium (as Cd)	APHA (23rd edition-2017), 3030D, 3113 B	*BDL(**DL-0.002)	mg/l	0.003	No Relaxation
19	Chromium (as Cr)	APHA 23rd Edition Year 2017 Method No. 3113 B	*BDL(**DL-0.02)	mg/l	0.05	No Relaxation
20	Copper (as Cu)	APHA 23rd Edition Year 2017 Method No. 3111B	*BDL(**DL-0.02)	mg/l	0.05	1.5
21	Zinc (as Zn)	APHA (23rd edition-2017), 3030D,	*BDL(**DL-0.20)	mg/l	5.0	15



Test Report

Sample Number : VELW/13

Report No. : VEL/W/2106210010/A

S.No.	Test Parameters	Test Method	Results	Units	Specification	
					s	Limits (Max)
21		3113 B				
22	Selenium (as Se)	APHA (23rd edition-2017), 3114C	*BDL(**DL-0.005)	mg/l	0.01	No Relaxation
23	Turbidity	IS 3025 (Part 10): 1984, Ref: 2017, (Nephelometric Method)	*BDL(**DL-1.0)	NTU	1	5
24	Aluminium	IS 3025 (Part-55): 2003, Reaff. 2019	*BDL(**DL-0.03)	mg/l	0.03	0.2
25	Manganese (as Mn)	IS: 3025 (Part 46): 1994, Reaff. 2019 (EDTA method)	*BDL(**DL-0.05)	mg/l	0.1	0.3
26	Ammonia (as NH3)	IS-3025 (Part-34)- 1988, RA. 2019	*BDL(**DL-0.3)	mg/l	0.5	No Relaxation
27	Boron (as B)	APHA 23rd Edition Year 2017 Method No. 4500B	*BDL(**DL-0.2)	mg/l	0.5	1.0
28	Nickel (as Ni)	APHA (23rd edition-2017), 3030D, 3113 B	*BDL(**DL-0.01)	mg/l	0.02	No Relaxation
29	Sulphide	IS: 3025 (Part 29): 1986, RA. 2009 Turbidity Method	*BDL(**DL-0.2)	mg/l	200	400
30	Free Residual Chlorine	IS: 3025 (Part 26): 1986 RA 2019	*BDL(**DL-0.2)	mg/l	0.2	1

*BDL(Below Detection Limit),**DL(Detection Limit)

End of Report

(Checked By)

RAJ KUMAR YADAV

 (Authorized Signatory)
 G M LABORATORY



Test Report

Sample Number : VEL/W/13

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

: SURFACE WATER

Location

: Dhanappa Village(Pit Water) (ML. No. 03/93)

Sample Collected by

: VEL Team

Preservation

: Suitable Preservation

Sampling and Analysis
Protocol

: IS 2296

Report No. : VEL/W/2106210010/B

Format No : 7.8 F-01

Party Reference No : NIL

Report Date : 28/06/2021

Period of Analysis : 21/06/2021-28/06/2021

Receipt Date : 21/06/2021

Sampling Date : 14/06/2021

Sampling Quantity : 2 Ltr.

Sampling Type : Grab

S.No.	Test Parameters	Test Method	Results	Units	Limits (Max)	
					Specification s	Limits (Max)
1	Total Coliform	IS:1622	Absent	MPN/10 0 ml	Shall not be Detectable in any 100 ml sample	NA
2	E-Coli	IS:1622	Absent	MPN/10 0 ml	Absent/100 ml	Absent/100 ml
3	Silver (as Ag)	IS: 3025 (P-2)	*BDL(**DL-0.01)	mg/l	0.1	No Relaxation
4	Cyanide (as CN)	APHA 23rd Edition 2017, 4500CN D	*BDL(**DL-0.05)	mg/l	0.05	No Relaxation
5	Colour	IS 3025: 1983 (P-4) RA.. 2017	*BDL(**DL-1.0)	Hazen	5	15
6	Odour	IS 3025 (P-5): RA. 2018	Agreeable	Qualitat ive	Agreeable	Agreeable
7	Taste	IS 3025(P-8):1984 RA. 2017	Agreeable	Qualitat ive	Agreeable	Agreeable
8	Anionic Surface Active Agent	APHA 23rd Edition 2017, 5540C	*BDL(**DL-0.05)	mg/l	0.2	1.0
9	Mineral Oil	IS 3025(P-39)	*BDL(**DL-0.05)	mg/l	0.5	No Relaxation
10	Barium as (Ba)	APHA3111B	*BDL(**DL-0.02)	mg/l	0.7	No Relaxation
11	Molybdenum as (Mo)	APHA	*BDL(**DL-0.01)	mg/l	0.07	No Relaxation
12	Carbonate as CO ₃	IS: 3025 (Part 23): 1986, RA 2019	*BDL(**DL-2.0)	mg/l	-	-
13	Polychlorinated biphenyls (PCB)	APHA 5175/6630	*BDL(**DL-0.01)	µg/L	0.0005	No relaxation
14	Polynuclear-aromatic Hydrocarbon (PAH)	APHA 23rd Edition 2017, 6040	*BDL(**DL-0.01)	µg/L	0.0001	No relaxation
15	Chloramines as Cl	IS 3025 (Part 26)	*BDL(**DL-0.5)	mg/L	4	No relaxation

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Note: Terms & conditions refer on backside of test report.

RAJ KUMAR YADAV

G M LAB COLLECTION Page No. 1/2




Test Report

Sample Number : VEL/W/13

Report No. : VEL/W/2106210010/B

*BDL(Below Detection Limit),**DL(Detection Limit)

End of Report


(Checked By)

RAJ KUMAR YADAV

(Authorized Signatory)
G M LAB OPERATION



Vardan EnviroLab

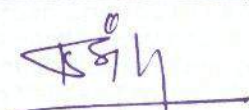
Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number:	VEL /JK/01	Report No.:	VEL/W/2109290007
Name & Address of Party:	M/s JK white Cement works, Gotan (unit of JK Cement LTD) Dhanappa Lime Stone Mines (M.L. No. -03/93) Village Dhanappa ,Tehsil- Merta Dist.Nagaur (Rajasthan)	Format No.:	7.8 F 01
		Party Reference No.:	NIL
		Reporting Date:	04/10/2021
		Period of Analysis:	29/09/2021to 04/10/2021
Sample Description:	Ground Water	Receipt Date:	29/09/2021
Sampling Location:	Dhanappa village(TubewellML.No.03/9)		
Sample Collected by	Vardan Team	Sampling Date:	24/09/2021
Preservation:	Refrigerated	Sampling Type:	Grab
Sampling & Analysis Protocol:	IS-10500-2012	Sample Quantity:	2.0 Ltr.

TEST RESULTS

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Desirable limit (Max.)	Permissible limit in the Absence of Alternate Source (Max.)
1.	pH (at 25 °C)	APHA 23 rd Edition, 4500-H* B	7.46	--	6.5 to 8.5	No Relaxation
2.	Total Dissolved Solids	APHA 23 rd Edition, 2540 C	1902	mg/l	500	2000
3.	Alkalinity as CaCO ₃	APHA 23 rd Edition, 2320 B	351.23	mg/l	200	600
4.	Total Hardness as CaCO ₃	APHA 23 rd Edition, 2340 C	438.12	mg/l	200	600
5.	Nitrate as NO ₃	IS 3025 (P-34) 1988:RA.2019	26.54	mg/l	45	No Relaxation
6.	Chloride as Cl	APHA 23 rd Edition, 4500-Cl* B	742	mg/l	250	1000
7.	Sulphate as SO ₄	APHA 23 rd Edition, 4500 E	110.20	mg/l	200	400
8.	Calcium as Ca	APHA 23 rd Edition, 3500 Ca B	101.10	mg/l	75	200
9.	Magnesium as Mg	APHA 23 rd Edition, 2340 B	45.24	mg/l	30	100
10.	Fluoride as F	APHA 23 rd Edition,2017, 4500-F* D	1.24	mg/l	1.0	1.5
11.	Boron as B	APHA 23 rd Edition,2017, 4500B	0.10	mg/l	0.5	1.0
12.	Iron as Fe	APHA 23 rd Ed.,2017, 3500 Fe- B	0.19	mg/l	0.3	No relaxation
13.	Arsenic as As	APHA (23 rd Edition)3030D,3114C,2017	BDL(DL 0.002)	mg/l	0.01	0.05
14.	Mercury as Hg	APHA (23 rd Edition)3114C,2017	BDL(DL 0.0005)	mg/l	0.001	No relaxation
15.	Lead as Pb	APHA 23 rd Edition2017,3030D,3111B	BDL(DL 0.002)	mg/l	0.01	No relaxation
16.	Cadmium (as Cd)	APHA (23 rd Edition)3030D,3113B	BDL(DL 0.002)	mg/l	0.003	No relaxation
17.	Silver (as Ag)	APHA (23 rd Edition)3030D,3113B	BDL(DL 0.002)	mg/l	--	--
18.	Nickel (as Ni)	APHA (23 rd Edition)3030D,3113B	BDL(DL 0.002)	mg/l	--	--
19.	Copper (as Cu)	APHA (23 rd Edition)3030D,3113B	BDL(DL 0.002)	mg/l	0.05	1.5


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(Authorized Signatory)



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Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample No.: VEL/JK/01				Report No.: VEL/W/2109290007		
S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Desirable limit (Max.)	Permissible limit in the Absence of Alternate Source (Max.)
20.	Selenium as Se	APHA (23 rd Edition)3114C,2017	BDL(DL 0.001)	mg/l	0.01	No relaxation
21.	Zinc as Zn	APHA 23 rd Ed. 2017,	BDL(DL 0.20)	mg/l	5	15
22.	Turbidity	APHA 23 rd Edition, 2130 B	BDL(DL 1.0)	NTU	1	5
23.	Aluminium as Al	APHA 23 rd Edition, 3111 D	BDL(DL 0.002)	mg/l	0.03	0.2
24.	Manganese as Mn	APHA 23 rd Edition, 3111 B	BDL(DL 0.01)	mg/l	0.1	0.3
25.	Residual Free Chlorine	APHA (23 rd Edition 2017)3500 Cl B	BDL(DL 0.15)	mg/l	0.2	1
26.	Total.Coliform	IS:1622:2009	Absent	MPN/ 100ml	Shall Not Be detectable in 100 ml Sample	NA
27.	E.Coli	IS:1622:2009	Absent	Per 100ml	Shall Not Be detectable in 100 ml Sample	NA
28.	Colour	APHA 23 rd Edition, 2120 B	BDL(DL 1.0)	Hazen	5	15
29.	Odour	APHA 23 rd Edition, 2150 B	Agreeable	--	Agreeable	Agreeable
30.	Taste	APHA 23 rd Edition, 2160 B	Agreeable	--	Agreeable	Agreeable
31.	Anionic Detergents as MBAS	APHA 23 rd Edition,2017, 5540 C	BDL(DL 0.05)	mg/l	0.2	1.0
32.	Phenolic Compounds	APHA 23 rd Edition, 5530 C	BDL(DL 0.0004)	mg/l	0.001	0.002
33.	Chromium as Cr	APHA 23 rd Ed.,2017, 3111 B	BDL(DL 0.002)	mg/l	0.05	No relaxation
34.	Silver (as Ag)	IS 1622	BDL(DL 0.01)	mg/l	0.1	No relaxation
35.	Mineral Oil	IS 3025 (Part 39)	BDL(DL 0.05)	mg/l	0.5	No relaxation
36.	Barium as (Ba)	APHA 23 rd Ed.,2017, 3111 B	BDL(DL 0.002)	mg/l	0.7	No relaxation
37.	Molybdenum as (Mo)	APHA	BDL(DL 0.01)	mg/l	0.7	No relaxation
38.	Carbonate as CO ₃	IS 3025 (Part 23):1986	BDL(DL 2.0)	mg/l	-	-
39.	Polychlorinated biphenyls(PCB)	APHA 5175/6630	BDL(DL 0.01)	mg/l	0.0005	No relaxation
40.	Polynuclear aromatic Hydrocarbon (PAH)	APHA 23 rd Ed.,2017, 6040	BDL(DL 0.01)	mg/l	0.0001	No relaxation
41.	Chloramines as Cl	IS 3025 (Part 26)	BDL(DL 0.5)	mg/l	4	No relaxation
42.	Sulphide	IS 3025 (Part 29):1986 RA 2009	BDL(DL 0.2)	mg/l	200	400
43.	Free Residual Chlorine	IS 3025 (Part 26):1986 RA 2019	BDL(DL 0.02)	mg/l	0.2	1
44.	Ammonia (as NH ₃)	IS 3025 (Part 34):1984 RA 2019	BDL(DL 0.3)	mg/l	0.5	No relaxation
45.	Sodium	IS 3025 (Part 45):1993 RA 2019	486	mg/l	NA	NA
46.	Potassium	IS 3025 (Part 45):1993 RA 2019	3.98	mg/l	NA	NA

Note:- *BDL-Below Detection Limit, *DL- Detection Limit.

(Checked By)

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Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number: VEL /JK/02
Name & Address of Party: M/s JK white Cement works, Gotan
(unit of JK Cement LTD) Dhanappa Lime
Stone Mines (M.L. No. -03/93)
Village Dhanappa, Tehsil- Merta
Dist. Nagaur (Rajasthan)

Report No.: VEL/W/2109290008
Format No.: 7.8 F 01
Party Reference No.: NIL
Reporting Date: 04/10/2021

Sample Description: Surface Water
Sampling Location: Dhanappa village (Pitwater ML.No.03/93)
Sample Collected by: Vardan Team
Preservation: Refrigerated
Sampling & Analysis Protocol: IS-10500-2012

Period of Analysis: 29/09/2021 to
04/10/2021
Receipt Date: 29/09/2021

Sampling Date: 24/09/2021
Sampling Type: Grab
Sample Quantity: 2.0 Ltr.

TEST RESULTS

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Desirable limit (Max.)	Permissible limit in the Absence of Alternate Source (Max.)
1.	pH (at 25 °C)	APHA 23 rd Edition, 4500-H ⁺ B	8.02	--	6.5 to 8.5	No Relaxation
2.	Total Dissolved Solids	APHA 23 rd Edition, 2540 C	150	mg/l	500	2000
3.	Alkalinity as CaCO ₃	APHA 23 rd Edition, 2320 B	29.42	mg/l	200	600
4.	Total Hardness as CaCO ₃	APHA 23 rd Edition, 2340 C	21.40	mg/l	200	600
5.	Nitrate as NO ₃	IS 3025 (P-34) 1988:RA.2019	5.84	mg/l	45	No Relaxation
6.	Chloride as Cl	APHA 23 rd Edition, 4500-Cl ⁻ B	37.10	mg/l	250	1000
7.	Sulphate as SO ₄	APHA 23 rd Edition, 4500 E	11.25	mg/l	200	400
8.	Calcium as Ca	APHA 23 rd Edition, 3500 Ca B	5.28	mg/l	75	200
9.	Magnesium as Mg	APHA 23 rd Edition, 2340 B	2.08	mg/l	30	100
10.	Fluoride as F	APHA 23 rd Edition, 2017, 4500-F ⁻ D	0.22	mg/l	1.0	1.5
11.	Boron as B	APHA 23 rd Edition, 2017, 4500B	BDL(DL 0.20)	mg/l	0.5	1.0
12.	Sodium as Na	IS 3025 (Part 45):1993	27.14	mg/l	NA	NA
13.	Potassium as K	IS 3025 (Part 45):1993	1.85	mg/l	NA	NA
14.	Iron as Fe	APHA 23 rd Ed., 2017, 3500 Fe- B	BDL(DL 0.10)	mg/l	0.3	No relaxation
15.	Arsenic as As	APHA (23 rd Edition) 3030D, 3114C, 2017	BDL(DL 0.002)	mg/l	0.01	0.05
16.	Mercury as Hg	APHA (23 rd Edition) 3114C, 2017	BDL(DL 0.0005)	mg/l	0.001	No relaxation
17.	Lead as Pb	APHA 23 rd Edition 2017, 3030D, 3111B	BDL(DL 0.002)	mg/l	0.01	No relaxation
18.	Cadmium (as Cd)	APHA (23 rd Edition) 3030D, 3113B	BDL(DL 0.002)	mg/l	0.003	No relaxation
19.	Silver (as Ag)	APHA (23 rd Edition) 3030D, 3113B	BDL(DL 0.002)	mg/l	--	--
20.	Nickel (as Ni)	APHA (23 rd Edition) 3030D, 3113B	BDL(DL 0.002)	mg/l	--	--
21.	Copper (as Cu)	APHA (23 rd Edition) 3030D, 3113B	BDL(DL 0.002)	mg/l	0.05	1.5

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Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample No.: VEL/GW/01					Report No.: VEL/W/2109290008	
S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Desirable limit (Max.)	Permissible limit in the Absence of Alternate Source (Max.)
22.	Selenium as Se	APHA (23 rd Edition)3114C,2017	BDL(DL 0.001)	mg/l	0.01	No relaxation
23.	Zinc as Zn	APHA 23 rd Ed. 2017,	BDL(DL 0.20)	mg/l	5	15
24.	Turbidity	APHA 23 rd Edition, 2130 B	BDL(DL 1.0)	NTU	1	5
25.	Aluminium as Al	APHA 23 rd Edition, 3111 D	BDL(DL 0.002)	mg/l	0.03	0.2
26.	Manganese as Mn	APHA 23 rd Edition, 3111 B	BDL(DL 0.01)	mg/l	0.1	0.3
27.	Residual Free Chlorine	APHA (23 rd Edition 2017)3500 Cl B	BDL(DL 0.15)	mg/l	0.2	1
28.	Total.Coliform	IS:1622:2009	Absent	MPN/ 100ml	Shall Not Be detectable in 100 ml Sample	NA
29.	E.Coli	IS:1622:2009	Absent	Per 100ml	Shall Not Be detectable in 100 ml Sample	NA
30.	Colour	APHA 23 rd Edition, 2120 B	BDL(DL 1.0)	Hazen	5	15
31.	Odour	APHA 23 rd Edition, 2150 B	Agreeable	--	Agreeable	Agreeable
32.	Taste	APHA 23 rd Edition, 2160 B	Agreeable	--	Agreeable	Agreeable
33.	Anionic Detergents as MBAS	APHA 23 rd Edition,2017, 5540 C	BDL(DL 0.05)	mg/l	0.2	1.0
34.	Phenolic Compounds	APHA 23 rd Edition, 5530 C	BDL(DL 0.0004)	mg/l	0.001	0.002
35.	Chromium as Cr	APHA 23 rd Ed.,2017, 3111 B	BDL(DL 0.002)	mg/l	0.05	No relaxation
36.	Silver (as Ag)	IS 1622	BDL(DL 0.01)	mg/l	0.1	No relaxation
37.	Mineral Oil	IS 3025 (Part 39)	BDL(DL 0.05)	mg/l	0.5	No relaxation
38.	Barium as (Ba)	APHA 23 rd Ed.,2017, 3111 B	BDL(DL 0.002)	mg/l	0.7	No relaxation
39.	Molybdenum as (Mo)	APHA	BDL(DL 0.01)	mg/l	0.7	No relaxation
40.	Carbonate as CO3	IS 3025 (Part 23):1986	BDL(DL 2.0)	mg/l	-	-
41.	Polychlorinated biphenyls(PCB)	APHA 5175/6630	BDL(DL 0.01)	mg/l	0.0005	No relaxation
42.	Polynuclear aromatic Hydrocarbon (PAH)	APHA 23 rd Ed.,2017, 6040	BDL(DL 0.01)	mg/l	0.0001	No relaxation
43.	Chloramines as Cl	IS 3025 (Part 26)	BDL(DL 0.5)	mg/l	4	No relaxation
44.	Sulphide	IS 3025 (Part 29):1986 RA 2009	BDL(DL 0.2)	mg/l	200	400
45.	Free Residual Chlorine	IS 3025 (Part 26):1986 RA 2019	BDL(DL 0.02)	mg/l	0.2	1
46.	Ammonia (as NH3)	IS 3025 (Part 34):1984 RA 2019	BDL(DL 0.3)	mg/l	0.5	No relaxation
47.	Sodium	IS 3025 (Part 45):1993 RA 2019	27.9	mg/l	NA	NA
48.	Potassium	IS 3025 (Part 45):1993 RA 2019	1.90	mg/l	NA	NA

Note:- *BDL- Below Detection Limit, *DL- Detection Limit.

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