

NBH/PC-14/C14/

Through Email

Date: 17.05.2023

To,

The Director (M),

Ministry of Environment, Forest & Climate Change,

Indira Paryavaran Bhawan,

JOR Bagh Road, Aliganj,

New Delhi-110003

Sub: Environmental Clearance Compliance report of Nimbahera-Ahirpura Limestone Mine (ML area 403.1875 ha.) by J. K. Cement Works, Nimbahera, Dist. Chittorgarh (Rajasthan).

Ref.: EC letter no. - J-11015/83/2004-IA. II(M) dated. 07th July 2021

Dear Sir,

Kindly refer to the above subject matter and refer EC letter no., please find attached herewith compliance of EC for the period of **October 2022 to March 2023**.

As per MoEF & CC notification no. S.O. 5845 (E) 26.11.2018 the soft copy of same has been sent through email to moef@nic.in, ccb.cpcb@nic.in, member-secretary@rpcb.nic.in, cpcb.bhopal@gov.in, monitoring-ec@nic.in, iro.jaipur-mefcc@gov.in.

We hope that the compliance is in order.

Thanking you.

Yours Faithfully

For J. K. Cement Works, Nimbahera**R. B. M. Tripathi****President (Operations)****Encl: as above****Copy to:**

1. The Deputy Director(S), Ministry of Environment, Forests & Climate Change, Integrated Regional office, Jaipur, A-218, Aranya Bhawan, Jhalana Institutional Area, **Jaipur-302004**
2. The Regional Director, Central Pollution Control Board, Paryavaran Parisar, E-5, Area colony, **Bhopal (M.P) 462016**
3. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-CUM office complex, East Arjun Nagar, **New Delhi 110032**.
4. The Chairman, Rajasthan State Pollution Control Board, 4, Institutional Area, Jhalana Doongri, **Jaipur - 302004 (Rajasthan)**

Corporate Office

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Jharli (Haryana) | Katni (M.P.) | Aligarh (U.P.) | Balasinor (Gujarat)**JK CEMENT
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Form for Uploading Six Monthly Compliance Report

Proposal Details

Proposal No.	IA/RJ/MIN/210710/2020	Project Name	Proposal for Environmental Clearance under the provision of Notification S.O. 1530 (E) dated 06 th April, 2018 for Nimbahera - Ahirpura Limestone Mine (ML Area: 403.1875 ha.) with reduction in production capacity (ROM) from 2.0 Million TPA to 0.8949 Million TPA (Limestone: - 0.8609 Million TPA, Subgrade Mineral: - 0.0050 Million TPA, Inter-burden: - 0.0220 Million TPA and Top Soil: 0.007 Million TPA) located at Villages: Ahirpura-Murlia, Tehsil: Nimbahera, District: Chittorgarh, Rajasthan by J.K. Cement Works (A Unit of M/s. J.K. Cement Limited).
Category	A	MoEF File No.	J-11015/83/2004-IA.II(M) dated 07.07.2021
Name of the Entity / Corporate Office*	M/s. J.K. Cement Limited, Kamla Tower, Kanpur Nagar, Uttar Pradesh-208001		
Entity's PAN*	AABCJ0355R		
Entity Name as per PAN	J K CEMENT LIMITED		

Compliance Letter/Report

Reporting Year*	2023	Reporting Period*	October-2022 to March-2023
Remarks (if any)	Submitting herewith the Six Monthly EC Compliance Report for the period: October-2022 to March-2023 of for Nimbahera - Ahirpura Limestone Mine (ML Area: 403.1875 ha.) with reduction in production capacity (ROM) from 2.0 Million TPA to 0.8949 Million TPA (Limestone: - 0.8609 Million TPA, Sub-grade Mineral: - 0.0050 Million TPA, Inter-burden: - 0.0220 Million TPA and Top Soil: 0.007 Million TPA) located at Villages: Ahirpura-Murlia, Tehsil: Nimbahera, District: Chittorgarh, Rajasthan by J.K. Cement Works (A Unit of M/s. J.K. Cement Limited).		

Details of Production and Project Area

Date of Commencement of Project /Activity:*	24/06/1971	Project Area as Per EC Granted (In Case of Mine Lease):*	403.1875 ha.
Actual Project Area (In Case of Mine Lease):*	254.29 ha.		

PRODUCTION CAPACITY

Name of the Product*	Units*	As per EC granted*	Production during last financial year: 2022-23
Limestone	Million TPA	0.8609	0.4975
Sub/grade /Mineral Reject	Million TPA	0.0050	0.00495
Inter-burden	Million TPA	0.0220	0.022
Top Soil	Million TPA	0.007	0.006970
Total Excavation Quantity	Million TPA	0.8949	0.59415

Nimbahera-Ahirkura Limestone Mine (ML Area: 403.1875 ha.)
M/s. J. K. Cement Works, Villages: Ahirkura & Murlia, Tehsil: Nimbahera, District - Chittorgarh, Rajasthan-312617

EC Compliance Report: October-2022 to March-2023

Proposal for Environmental Clearance under the provision of Notification S.O. 1530 (E) dated 06th April, 2018 for Nimbahera - Ahirkura Limestone Mine (ML Area: 403.1875 ha.) with reduction in production capacity (ROM) from 2.0 Million TPA to 0.8949 Million TPA (Limestone: - 0.8609 Million TPA, Sub-grade Mineral: - 0.0050 Million TPA, Inter-burden: - 0.0220 Million TPA and Top Soil: 0.007 Million TPA) located at Villages: Ahirkura-Murlia, Tehsil: Nimbahera, District: Chittorgarh, Rajasthan by J. K. Cement Works (A Unit of M/s. J.K. Cement Limited).

Environment Clearance vide No.: - J-11015/83/2004-IA.II(M) dated 07.07.2021

A. SPECIFIC CONDITION: -

S. N.	Condition Type	Condition Details	Self Declaration	Remarks / Reason
1.	Statutory compliance	Plantation must be completed this monsoon to fill the gaps.	Complied	<ul style="list-style-type: none"> Total plantation within lease in 50.5 ha. with 121868 saplings till FY 2021-22 including safety zone (7.651 ha.). Total plantation done in 16.45 ha in outside the lease area with 31765 nos. of saplings till FY 2021-22. <p>In FY 2022-23</p> <ul style="list-style-type: none"> In 2.9 ha – 2092 nos – Bench planation (Ahirkura). In 0.3 ha – 1301 nos – 7.5m safety zone. In 0.303 ha – 6010 nos – Miyawaki plantation. In 1.04 ha – 1358 nos – Within lease. Total : 4.54 ha with 10761 nos. saplings.
2.	Mining Plan	Mining will be restricted to already broken area and NO FRESH WILL BE BROKEN. PP has submitted that already 48 million tonnes of mineral has been extracted with the EC of 2 MT. Therefore, PP should first mine and exhaust the smaller blocks with lesser quantity of ore within a year with appropriate closure plan. Thereafter, PP can take up excavation from the bigger block with larger reserves of ore instead of mining simultaneously from all the blocks.	Complied	Mining activities are being carried out as per the approved mining plan only.

3.	Greenbelt	PP also should do plantation up to 2 benches of 10 m height each in the pit where water gets accumulated all around the periphery of the pit which must be completed in 2 years.	Complied	Noted and agreed, it is plan to complete the upper bench plantation within stipulated time period in non-working area.
4.	Public Hearing And Human Health Issues	Public hearing concerns to be addressed through capital expenditure as per the submission.	Complied	CSR initiative are being taken to address the public hearing concerns. Detail of the same is given in below table:

Details of CSR Initiative Taken to Address the Public Hearing Concerns

S. No.	Activity Head	CSR Project or Activities	Time Bound Action Plan with Budgetary Allocation	CSR Expenditure Amount (In Lakh)						
				2021-22	Work Completion Status	Actual Expenditure (in Lakh)	2022-23	Work Completion Status	2023-24	Total
1	Community Infrastructure Development	Provision for Installation of LED Bulb on electricity poles in Ahirpura village will be done by company.	Installation of LED Bulb on electricity poles will be done by FY: 2021-22, FY: 2022-23, FY: 2023-24 with a cost of Rs. 1.50 Lakh (0.50 Lakh per year for three year and Total 50 nos. of led lights of each 25 W)	0.5	To be done	--	0.5	To be done	0.5	1.5
		Construction of roof in temple (Rebari Bavji's place) in village Ahirpura will be done by company.	Rs. 35,000/- financial support is given to Panchayat for the construction of roof.	0.35	Completed	0.5	--	--	--	0.35
		Repairing of roof of class room of Village Ahirpura will be done by the Company.	Budget of Rs. 4.0 Lakhs has been taken for repairing of roof of class room of Village Ahirpura and work will be done in FY: 2021-22.	4	To be done	--	--	-	--	4
		Construction of Two class rooms (22X44 Square ft) in School at Village Ahirpura will be done by the Company.	Budget of Rs. 20.0 Lakhs for Construction of two rooms (22 X 44 Sq. ft) in school in the FY: 2022-23.	--	--	--	20	To be done	--	20
		Computers, printers and furniture will be provided to Government High Primary School, Ahirpura	Budget of Rs. 2.0 Lakh for arrangements of computers, printers and furniture (steel chair & Table) and provided by FY: 2021-22.	2	To be done	--	--	-	--	2
		Construction of CC road in Village Phacher Ahiran will be done by the Company.	Budget of Rs. 18.0 Lakh has been taken for construction of CC road (1.4.km) in Village Phacher-Ahiran and work will be done in FY: 21-22.	18	Completed	--	--	-	--	18
		Construction of CC road & Drainage at Bansa & Rasulpur Village will be done by the Company.	Budget of Rs. 40 Lakh has been taken for Construction of CC road & Drainage at Bansa & Rasulpur Village and work will be done in FY: 2021-22 (15 Lakh), FY: 2022-23 (10 Lakh) and FY: 2023-24 (15 Lakh).	15	Completed	12	10	Completed (Rs. 36.97 lacs)	15	40
		Construction of kitchen shed and toilets in existing community building in Village Ahirpura will be done by the Company.	Budget of Rs. 12.0 Lakh is allotted for construction of kitchen shed (15 X 20 square feet) and Toilet (10 X 10 Square feet), work will be done in FY: 2021-22.	12	To be done	--	--	--	--	12
		Renovation work in Grave yard Phachar Ahiran village will be done by the Company.	Budget of Rs. 20.0 Lakh is allotted for Renovation work in Grave yard Phachar Ahiran village and work will be done in FY: 2021-22 & FY: 2022-23.	10	Completed	14	10	Completed (Rs. 21.94 lacs)	--	20
		Gravel Gitti road work in Phachar Ahiran Village will be done by the Company.	Budget of Rs. 13.0 Lakh has been taken for Gravel Gitti road (1.5.km) work in Phachar Ahiran Village and work will be completed in FY: 2021-22.	13	Completed	16	--	Completed (Rs. 10.92 lacs)	--	13


		Construction the New Hall And 6 Rooms in Exiting Community Hall Phachar Ahiran.	Budget of Rs. 40.0 Lakh is allotted for Construction the New Hall (5000 @ 800 Rs./Square feet) and 6 Rooms (20 X 20 square feet) in Exiting Community Hall Phachar Ahiran and work will be done in FY: 2021-22 & FY: 2022-23.	20	To be done	--	20	To be done	--	40
2	Drinking Water	Drinking water tanker will be supplied to all nearby village as and when required. Already 2 Nos. of tankers are deputed for supplying of drinking water.	Rs. 5.0 Lakh per annum is allotted for drinking water supply.	5	Ongoing as & when required	4	5	Ongoing as & when required	5	15
3	Education	Women Skill Development activities should be continued.	Provision of Rs. 4.0 Lakh per year has been taken for women skill development program.	4	Completed	4	4	Completed	4	12
		Free Coaching classes of students of rural areas at nearby villages	Provision of Rs. 2.0 Lakh per year for free Coaching of students of Rural areas at nearby villages has been considered.	2	Completed	4	2	To be done	2	6
		Provision of RSCIT course.	Provision has been taken of Rs. 4.0 Lakh for RSCIT course in year 2021-22.	4	To be done	--	--	--		4
4	Environment	Sanitation & fogging work in entire as nearby Villages for Health awareness.	Provision of Rs. 2.0 Lakh per year has been taken.	2	Completed	3	2	To be done	2	6
Total CSR Expenditure (In Lakh)				111.85	--	57.5	73.5	69.83	28.5	213.85

5.	Water Quality Monitoring And Preservation.	PP shall make attempts to reduce withdrawal of ground water. Explore the possibility of supplying water to the community from the pit water and pipeline supply should be supported by solar pump. The air quality monitoring, water quality monitoring noise & vibration will be continued with more focus on impacts near the lease boundary.	Complied	<ul style="list-style-type: none"> Yearly water audit is being carried out by CGWA approved agency and recommendation on ground water withdrawal are being followed. To utilize the mine pit water for domestic purpose, we have installed filtration plant which will help us to reduce GW consumption. Online CAAQMS has been installed as well as manual monitoring is being carried out by NABL recognized la on periodical basis.
6.	Miscellaneous	Installation of solar pumps for withdrawal of water collected in the mine pit.	Complied	Agreed & noted.
B. STANDARD CONDITIONS:				
I. Statutory Compliance				
1.	Statutory Compliance	This environmental clearance (EC) is subject to orders/judgement of Hon'ble Supreme court of India, Hon'ble High court, Hon'ble NGT and any other court of Law, common cause conditions as may be applicable.	Complied	Noted
2.	Statutory Compliance	The project proponent complies with all statutory requirements and judgement of Hon'ble Supreme court dated 2nd August, 2017 in Writ petition	Complied	Certificate issued by Mining Department regarding the "No Dues "of compensation levied and letter submitted along with EC compliance report on 25.05.2022.

		(Civil) no-114 of 2014 in matter of common cause versus union of India & Ors before commencing the mining operations.		
3.	Statutory Compliance	The state government concerned shall ensure that mining operation shall not be commenced till the entire compensation levied, if any, for illegal mining paid by the project proponent through their respective department of mining & geology in strict compliance of Judgement of Hon'ble Supreme court dated 2 nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of common cause versus Union of India & Ors.	Complied	Certificate issued by Mining Department regarding the "No Dues "of compensation levied and letter submitted along with EC compliance report on 25.05.2022.
4.	Statutory Compliance	This Environmental Clearance shall become operational only after formal NBWL Clearance from MoEF&CC , subsequent to the recommendations of the standing committee of National board for wildlife, if applicable to the project.	Complied	Not applicable.
5.	Statutory Compliance	This environmental clearance shall become operational only after receiving formal forest clearance (FC) under the provision of Forest Conservation Act, 1980, if applicable to the project.	Complied	Not applicable.
6.	Statutory Compliance	PROJECT PROPONENT (PP) shall obtain consent to operate after grant of EC and effectively implement all the conditions stipulated therein. The mining activity shall not commence prior to obtaining consent to establish/consent to operate from the concerned State pollution control board/committee.	Complied	Consent to operate has been obtain from RSPCB Jaipur vide letter No.: F(Mines)/ Chittorgarh(Nimbahera)/1869(1)/2017-2018 /6610-6614, dated 15/02/2022: valid up to 31/05/2027.
7.	Statutory Compliance	The PP shall adhere to the provision of the mines Act, 1952, Mines and mineral (Development & Regulation), Act, 2015 and rules & regulations made there under. PP shall adhere to various circulars issued by Directorate General Mines Safety (DGMS) and Indian Bureau of Mines from time to time.	Complied	Agreed and complied.

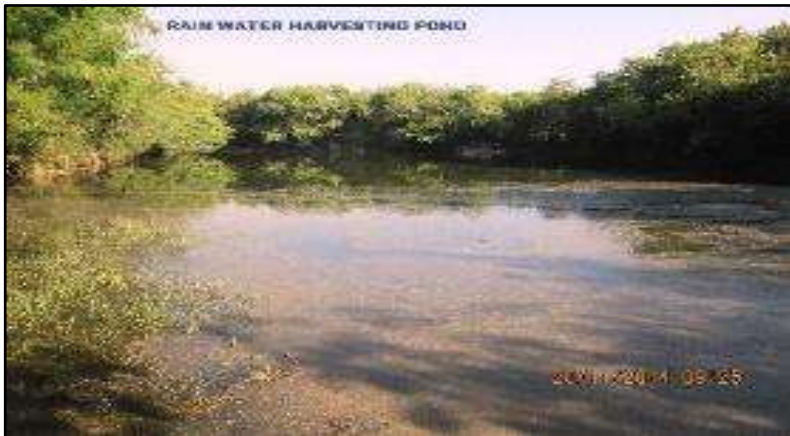

8.	Statutory Compliance	The project proponent shall obtain consents from all the concerned land owners, before start of mining operations, as per the provisions of MMDR Act, 1957 and rules made there under in respect of lands which are not owned by it.	Complied	Agreed, land owners have no any concern.
9.	Statutory Compliance	The project proponent shall follow the mitigation measures provided in MoEF&CC Office Memorandum No. Z-11013/57/2014-IA.II(M), dated 29 th October, 2014, titled "Impact of mining activities on Habitation-issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area"	Complied	Unit has taken the following measures to reduces the impact of mining activities on habitations: - <ul style="list-style-type: none"> • Garland drain constructed, • Siltation pond facilitated, • Regular water spray on haul road is being done, • Rain water collected in mine pit and as per requirement of villagers, water is being supplied to nearby villagers during the lean period, • Mask light are being kept in off mode during night period, • Control blasting has been implemented, • Company own road used for limestone transportation, and • Carried out dense plantation.
10.	Statutory Compliance	The project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water and from CGWA for withdrawal of ground water for the project.	Complied	NOC has been obtained for withdrawal of ground water from CGWA vide letter No CGWA/NOC/IND/REN/3/2021/6476 dated. 14/05/2020, valid up to 13/05/2022. Applied for NOC Renewal on 29/04/2022 and GCWB Officials site verification visit was conducted on 25.08.2022, awaiting for NOC renewal.
11.	Statutory Compliance	A copy of EC letter will be marked to the concerned Panchayat/Local NGO etc. if any, from whom suggestion/representation has been received while processing the proposal.	Complied	A copy of EC has been submitted at concern panchayat, Zila Parishad, DIC Office, District Collector, SDM Office on 08/07/2021.
12.	Statutory Compliance	State pollution control board/committee shall be responsible for display of this EC letter at its Regional Office, District Industries Centre and Collector's Office/Tehsildar's Office for 30 days.	Complied	RSPCB displayed the EC letter at its Regional Office, District Industries Centre and Collector's Office/Tehsildar's Office for 30 days.
13.	Statutory Compliance	The project authorities should widely advertise about this EC letter by printing the same in at least two local newspapers, one of which shall be in vernacular language of the concerned area. The advertisement shall be done within 7 days of the issue of the clearance letter mentioning that instant project has been accorded EC and copy of	Complied	EC granted information published in two local newspapers i.e.: Dainik Bhasker and Rajasthan Patrika on 09/07/2021 and proof of the same has been submitted along with last six monthly EC compliance report.

		the EC letter is available with the State Pollution control board/committee and web site of the ministry of environment, forest and climate change (www.parivesh.nic.in). A copy of the advertisement may be forwarded to the concerned MoEF&CC Regional office for compliance and record.		
14.	Statutory Compliance	The project proponent shall inform, the MoEF&CC for any change in ownership of the mining lease. In case there is any change in ownership or mining lease is transferred than mining operation shall only be carried out after transfer of EC as per provisions of the para 11 of EIA Notification, 2006 as amended from time to time.	Complied	If any change in ownership of mining, will be intimated to the ministry.
II. Air Quality Monitoring And Preservation				
1.	Air Quality Monitoring And Preservation	The project proponent shall install a minimum 3 (three) online ambient quality monitoring stations with 1 (one) in Upwind and 2 (two) in downwind direction based on long term climatological data about wind direction such that an angle of 120° is made between the monitoring locations to monitor critical parameters, relevant for mining operation , of air pollution viz .PM ₁₀ ,PM _{2.5} ,NO ₂ , CO and SO ₂ etc. as per the methodology mentioned in NAAQS notification No.: B-29016/20/90/PCI/I, dated 18.11.2009 covering the aspects of transportation and use of heavy machinery in the impact zone. The ambient air quality shall also be monitored at prominent places like office building, canteen etc. as per the site condition to ascertain the exposure characteristics at specific places. The above data shall be digitally displayed within 03 months in front of the main gate of the mine site.	Complied	Three (03) nos. of CAAQMS has been installed all along the mine lease boundary: - <ul style="list-style-type: none"> • Near view point towards village Ahirpura (common for JKCW Nimbahera plant & Ahirpura Mine). • Near Ahirpura mine office (murlia) toward village Fachar Ahiran and Lakhmipura. • Towards Nimbahera city (Common for Ahirpura mine and JKCW, Nimbahera Plant). • Digital display board has been provided at Mine Office. • CAAQMS data has been uploaded on CPCB and RSPCB portals. • Ambient Air Quality Monitoring is being carried out by NABL accredited Lab and detail AAQM report is enclosed as <u>Annexure-1</u>.

2.	Air Quality Monitoring And Preservation	Effective safeguard measures for prevention of dust generation and subsequent suppression (like regular water sprinkling, metalled road construction etc.) shall be carried out in areas prone to air pollution where in high levels of PM ₁₀ and PM _{2.5} are evident such as haul road. Loading and unloading point and transfer points. The fugitive dust emission from all sources shall be regularly controlled by installation of required equipment's / machineries and preventive maintenance. Use of suitable water-soluble chemical dust suppressing agents may be explored for better effectiveness of dust control system. It shall be ensured that air pollution level conform to the standard prescribed by the MoEF&CC / Central Pollution Control Board.	Complied	<p>Following safeguard measures taken for prevention of dust generation: -</p> <ul style="list-style-type: none"> Regular water sprinkling is being done on loading, unloading point, transfer point as well as the haul roads to prevent the dust becoming air borne during transportation movement of vehicles. Wet drilling & control blasting system implemented.  <ul style="list-style-type: none"> Fugitive emission monitoring is being carried out regularly and report of the same for period: Oct-22 to March-23 is enclosed as <u>Annexure-2</u>.
III. Water Quality Monitoring And Preservation.				
1.	Water Quality Monitoring And Preservation	In case, immediate mining scheme envisages of ground water table. Then Environmental Clearance shall become operational only after receiving formal clearance from CGWA. in case mining operation involves intersection of ground water table at a later stage, then PP shall ensure that prior approval from CGWA and MoEF&CC is in place before such mining operations. The permission for intersection of ground water table shall essentially be based hydrogeological study of the area.	Complied	In current FY, there is no water table intersection due to mining activity. Prior permission will be obtained in case of water table intersection in future.
2.	Water Quality Monitoring And Preservation	Regular monitoring of the flow rate of the springs and perennial nallahs flowing in and around the mine lease shall be carried out and records maintain. The natural water bodies and or streams which are flowing in an around the village, should	Complied	<p>Not applicable, there is no nallah passing through mine lease.</p> <ul style="list-style-type: none"> No natural water course and / or water resources will be obstructed due to any mining operation.

		not be disturbed. the water table should be nurtured so as not to go down below the pre-mining period. in case of any water scarcity in the area, the project proponent has to provide water to the villagers for their use. A provision for regular monitoring of water table in open dug wall located in village should be incorporated to ascertain the impact of mining over ground water table. The report on changes in ground water level and quality shall be submitted on six-monthly basis to the regional office of the ministry, CGWA and State groundwater department / State pollution control board.		<ul style="list-style-type: none"> • To monitor the water level, one online water level recorder with telemetry has been installed and real time data is linked shared with CGWA. • Ground water level and quality report submitted on six-monthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department / State Pollution Control Board.
3.	Water Quality Monitoring And Preservation.	Project proponent shall regularly monitor and maintain records w.r.t. ground water level and quality in and around the mine lease by establishing a network of existing wells as well as new piezo-meter installations during the mining operations in consultation with central ground water Authority/ State Ground water Department, The report on changes in ground water level and quality shall be submitted on six-monthly basis to the regional office of the Ministry , CGWA and State Groundwater Department / State pollution control Board.	Complied	<ul style="list-style-type: none"> • Regular monitoring of ground water level and quality is being carried out in and around the mining lease area as per the Environment Management Plan of approved Mining plan by establishing a network of existing wells. • Unit has installed one no. of piezometer fitted DWLR (Digital Water Level Recorder) with telemetry system for online monitoring of ground water level. • Detail ground water level monitoring report for the period: Oct-22 to March-23 is enclosed as <u>Annexure-3</u>.
4.	Water Quality Monitoring And Preservation.	The project proponent shall undertake regular monitoring of natural water course/water resources/springs and perennial nallahs existing/ flowing in and around the mine lease and maintain its records. the project proponent shall undertake regular monitor of water quality upstream and downstream of water bodies passing within and nearby/adjacent to the mine lease and maintain its records. Sufficient number of gullies shall be provided at appropriate places within the lease for management of water. PP shall carryout monitoring w.r.t. pH and included and same in the monitoring plan. The parameters to be monitored shall include their water quality vis-a-vis suitability	Complied	<ul style="list-style-type: none"> • Unit is monitoring the ground water quality on quarterly basis i.e.: Pre-monsoon (April-May), Monsoon (August), Post-monsoon (November) and winter (January) by deploying NABL accredited Laboratory. • Ground water quality analysis report for Post- monsoon and winter are enclosed as <u>Annexure-4</u>.


		for usage as per CPCB criteria and flow rate. it shall be ensured that no obstruction and/or alteration be made to water bodies during mining operations without justification and prior approval of MoEF&CC. The monitoring of water courses/ bodies existing in lease area shall be carried out four times in a year viz. pre-monsoon (April-May). Monsoon (August), post-monsoon(November) and winter (January) and the record of monitored data may be sent regularly to ministry of environment, forest and climate change and its regional office, Central Ground Water Authority and Regional Director, Central Ground Water Board, State pollution Control Board and Central Pollution Control Board. Clearly showing the trend analysis on six-monthly basis.		
5.	Water Quality Monitoring And Preservation.	Quality of polluted water generated from mining operation which include chemical oxygen demand (COD) in mines run-off, acid mine drainage and metal contamination in runoff shall be monitored along with Total Suspended Solids(TDS), Dissolved Oxygen(DO), pH and Total Suspended Solids(TSS). The monitored data shall be uploaded on the website of the company as well as displayed at the project site in public domain, on a display board at a suitable location near the main gate of the company. The circular No. J-20012/1/2006-IA.II(M) dated 27.5.2009 issued by ministry of environment forest and climate change may also be referred in this regard.	Complied	<ul style="list-style-type: none"> • There is no waste generation from the Limestone mining operation. • However, water is used for washing of HEMM contains silt and traces of oil & grease which is passed through up-flow filter to separate out the oil & grease and clear water will be used for dust suppression. • Mine Key parameter data has been uploaded at www.jkcement.com/environmental-compliance as per notification as well as displayed at mine office.
6.	Water Quality Monitoring And Preservation.	Project proponent shall plan, develop and implement rainwater harvesting measures on long term basis to augment ground water resources in the area in consultation with Central Ground Water Board/State Groundwater Department. A report on amount of water recharged needs to be submitted to Regional office MoEF&CC annually.	Complied	<ul style="list-style-type: none"> • To augment the water resources, rain water harvesting is done and stored in lower most benches (Water reservoir). • Surface water during rainy season is collected in the lower bench of the mine to augment ground water resources.


					
7.	Water Quality Monitoring And Preservation.	Industrial waste water (workshop and waste water from the mine) should be properly collected and treated so as to conform to the notified standards prescribed from time to time. The standards shall be prescribed through consent to operate (CTO) issued by concerned State pollution control Board (SPCB). The workshop effluent shall be treated after its initial passage through oil and grease trap.	Complied	<ul style="list-style-type: none">Workshop waste water monitoring has been carried out by NABL accredited laboratory.Detail workshop waste water analysis report for the period: Oct-22 to March-23 is enclosed as Annexure-5.	
8.	Water Quality Monitoring And Preservation.	The water balance/water auditing shall be carried out and measure for reducing the consumption of water shall be taken up and reported to the Regional office of the MoEF & CC and State pollution Control Board /Committee.	Complied	Annual Water Audit conducted by the NPC and measures has been taken to reduce the water consumption as per the recommendations. Annual water audit report submitted on 25/05/2022.	
IV.	Noise And Vibration Monitoring And Prevention				
1.	Noise And Vibration Monitoring And Prevention	The peak particle velocity at 500m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines.	Complied	<ul style="list-style-type: none">Blasting operation is being carried out in day time only. Use of Sequential blasting machine (SBM), Delay detonator, Non-Electric detonator for blasting and to mitigate vibration. Water injection system on DTH drill has been provided which suppresses dust at its source of generation.Max Peak partial velocity was observed is 3.674 mm/sec for the period: Oct-22 to March-23, Detail PPV/vibration report is enclosed as Annexure-6.	
2.	Noise And Vibration	The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent and stress may	Complied	<ul style="list-style-type: none">There is no mining operation during night time, hence no possibility of increase the noise level.	

	Monitoring And Prevention	affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise level at night. PPs must ensure that the biological clock of the villages is not disturbed, by orienting the floodlights/masks away from the villagers and keeping the noise levels well within the prescribed limits for day/night hours.		<ul style="list-style-type: none">There is no mining operation at night time hence, Mask/Flood Lights are kept on off mode.Detail ambient noise level monitoring report for the period: Oct-22 to March-23 is enclosed as <u>Annexure-7</u>.												
3.	Noise And Vibration Monitoring And Prevention	The project proponent shall take measures for control of noise levels below 85dBA in the work environment. The workers engaged in operations of HEMM etc. should be provided with ear plugs/muffs. All personnel including laborers working in dusty areas shall be provided with protective respiratory devices along with adequate training awareness and information on safety and health aspects. The PP shall be held responsible in case it has been found that workers/ personals/ laborers are working without personal protective equipment.	Complied	<ul style="list-style-type: none">Regular maintenance (including cabin) of HEMM are being done to keep noise level well within the specified limits.Workers engaged in operation of HEMM etc. are provided ear plugs.Onsite tool box talk is being conducted on daily basis and imparted the periodical training for all employee and workmen.												
V.. Mining Plan																
1.	Mining Plan	The project proponent shall adhere to the working of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation i.e.: quantum of mineral waste, over burden, inter burden and top soil No change in basic mining proposal like mining technology. total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, overburden & dump management, O.B. & dump mining, mineral transportation mode, ultimate depth of mining etc.) shall not be carried out without prior approval of the ministry of Environments, forest and climate change, which entail adverse environmental impacts , even if it is a part of approved mining plan modified after grant of EC or	Complied	<ul style="list-style-type: none">Method of mining is opencast, fully mechanized using wet drilling and control blasting. All mining activities are being carried out as per approved mining plan.Detail of excavation carried out during FY 2022-23: -<table border="1"><tr><th colspan="4">Detail of Total Excavation (Million TPA) in FY 22-23</th></tr><tr><td>Limestone</td><td>Sub-grade /Mineral Reject</td><td>Inter-burden</td><td>Top Soil</td></tr><tr><td>0.4975</td><td>0.00495</td><td>0.022</td><td>0.006970</td></tr></table>	Detail of Total Excavation (Million TPA) in FY 22-23				Limestone	Sub-grade /Mineral Reject	Inter-burden	Top Soil	0.4975	0.00495	0.022	0.006970
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		granted by State Govt. in the form to short term permit (STP), query license or any other name.														
2.	Mining Plan	The project proponent shall get the final mine closure plan along with financial assurance approved from Indian bureau of mines/ department of mining & geology as required under the provision of the MMDR Act,1957 and rules/ guidelines made there under. A copy of approved final mine closure plan shall be submitted within 2 months of the approval of the same from the competent authority to the concerned regional office of the ministry of environment, Forest and climate change for the record and verification.	Complied	The final mine closure plan will be submitted due course of time.												
3.	Mining Plan	The land use of the mine area at various stages of mining scheme as well as at the end-of-life shall be governed as per the approved mining plan. The excavation vis-à-vis backfilling in the mine lease area and corresponding afforestation to be raised in the reclaimed area shall be governed as per approved mining plan. PP shall ensure the monitoring and management of rehabilitated areas until the vegetation becomes self-sustaining. The compliance status shall be submitted half-yearly to the MoEF&CC and its concerned Regional office.	Complied	There is no back filling proposed under the approved mining plan.												
VI. Land Reclamation																
1.	Land reclamation	The overburden (O.B.) generated during the mining operations shall be at earmarked OB dump site(s) only and it should not be kept active for a long period of time. The physical parameters of the OB dumps like height, width and angle of slope shall be governed as per the approved mining plan as per the guidelines/circulars issued by D.G.M.S. w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of top soil/OB dumps. The top soil shall be used for land reclamation and plantation.	Complied	Size in meters is given below: <table><tr><th>Material</th><th>Length</th><th>Width</th><th>Height</th></tr><tr><td>Mineral reject</td><td>156</td><td>105</td><td>8.8</td></tr><tr><td>OB waste</td><td>215</td><td>112</td><td>13.0</td></tr></table>	Material	Length	Width	Height	Mineral reject	156	105	8.8	OB waste	215	112	13.0
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2.	Land reclamation	The reject/waste generated during the mining operations shall be stacked at earmarked waste dump site(s) only. The physical parameters of the waste dumps like height, width, and angle of slope shall be governed as per the approved mining plan as per the guidelines/circulars issued by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of waste dumps.	Complied	OB and subgrade generated are stacked separately.												
3.	Land reclamation	The reclamation of waste dump sites shall be done in scientific manner as per the approved mining plan cum progressive mine closure plan.	Complied	Presently dump are active, there is no reclamation is going on.												
4.	Land reclamation	The slope of dumps shall be vegetated in scientific manner with suitable native species to maintain the slope, prevent erosion and surface run off. The selection of local species regulates local climatic parameters and help in adaptation of plan species to the microclimate. The gullies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps. The dump mass should be consolidated with the help of dozer/ compactors thereby ensuring proper filling/ levelling of dump mass. In critical areas use of geo textiles/geo-membranes/clay liners/ Bentonite etc. shall be undertaken for stabilization of the dump.	Complied	Presently OB dumps are active, vegetation will be done after the dump are inactive or dead.												
5.	Land reclamation	The project proponent shall carry out slope stability in case the dump height is more than 30 meters. The slope stability report shall be submitted to concerned regional office of MOEF&CC.	Complied	Size in meters is given below: <table><tr><th>Material</th><th>Length</th><th>Width</th><th>Height</th></tr><tr><td>Mineral reject</td><td>156</td><td>105</td><td>8.8</td></tr><tr><td>OB waste</td><td>215</td><td>112</td><td>13.0</td></tr></table>	Material	Length	Width	Height	Mineral reject	156	105	8.8	OB waste	215	112	13.0
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6.	Land reclamation	Catch drains, settling tanks and siltation ponds of appropriate size shall be constructed around the mine working, Mineral yards and Top Soil/OB/ Waste dumps to prevent run off of water and flow of sediments directly into the water bodies (Nallahs/River/Pond etc.) The collected water should be utilized for watering the mine area, roads, green belt development, plantation etc. the	Complied	Constructed garland drains and siltation ponds. To collect run off water from subgrade dump and waste dump, garland drain and siltation pit has been constructed. Details are given below: - <table><tr><th>Garland Drain</th><th>Dimension</th></tr></table>	Garland Drain	Dimension										
Garland Drain	Dimension															

		drains/sedimentation sumps etc. shall be de-silted regularly, particularly after monsoon season, and maintained properly.		<table><tr><td>East side of Subgrade and waste dump</td><td>Length - 430 m Width - 1.0m Depth - 1.0m</td></tr></table> <p>Constructed one siltation pit with dimension as given below:</p> <table><tr><th>S. No.</th><th>Length (m)</th><th>Width (m)</th><th>Depth (m)</th><th>Capacity (m3)</th></tr><tr><td>1</td><td>17</td><td>17</td><td>3</td><td>867</td></tr><tr><td>2</td><td>18</td><td>17</td><td>3</td><td>918</td></tr><tr><td colspan="4">Total</td><td>1785</td></tr></table> <p>The storm water is being collected through garland drain from periphery of the subgrade and the waste dump and routed to siltation pond.</p> 	East side of Subgrade and waste dump	Length - 430 m Width - 1.0m Depth - 1.0m	S. No.	Length (m)	Width (m)	Depth (m)	Capacity (m3)	1	17	17	3	867	2	18	17	3	918	Total				1785
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7.	Land reclamation	Check dams of appropriate size, gradient and length shall be constructed around mine pit and OB dumps to prevent storm run-off and sediment flow into adjoining water bodies. A safety margin of 50% shall be kept for designing of sump structures over and above peak rainfall (based on 50 years' data) and maximum discharge in the mine and its adjoining area which shall also help in providing adequate retention time period thereby allowing proper settling of sediments/silt material. The sedimentation pits/sumps shall be constructed at the corners of the garland drains.	Complied	<ul style="list-style-type: none">Constructed garland drains and siltation ponds.To collect run off water from subgrade dump and waste dump, garland drain and siltation pit has been constructed. Details are given below: <table><tr><th>Garland drain</th><th>Dimension</th></tr><tr><td>East side of Subgrade and waste dump</td><td>Length - 430 m Width - 1.0 m Depth - 1.0 m</td></tr></table> <ul style="list-style-type: none">Total available rainwater in single day (considering maximum 50 mm rainfall)<ol style="list-style-type: none">Overburden waste dump (area) X rainfall (m) X Runoff coefficient (20%): 26140 m² X 0.05 m X 0.20 = 261.4 m³ and considering 50% safety margin then total capacity of siltation pond should be 522.8 m3.Subgrade stack (area) X rainfall (m) X Runoff coefficient (20%): 24330 m² X 0.05 m X 0.20 = 243.3 m³ and considering 50% safety margin then total capacity of	Garland drain	Dimension	East side of Subgrade and waste dump	Length - 430 m Width - 1.0 m Depth - 1.0 m																		
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				<p>siltation pond should be 486.6 m³.</p> <p>3. Embankment dump (area) X rainfall (m) X Runoff coefficient (20%): 37140 m² X 0.05 m X 0.20 = 371.4 m³ and considering 50% safety margin then total capacity of siltation pond should be 742.8 m³.</p>																																
8.	Land reclamation	The top soil, if any, shall temporarily be stored at earmarked sites(s) within the mine lease only and should not be kept unutilized for long. The physical parameters of the top soil dumps like height, width and angle of slope shall be governed as per the approved mining plan and as per the guidelines framed by D.G.M.S w.r.t. safety in mining operations shall be strictly adhered the stability of dumps. The top soil shall be used for land reclamation and plantation purpose.	Complied	<p>There is no storage of top soil, it is directly used for plantation purpose.</p> 																																
VII. Transportation																																				
1.	Transportation	No transportation of the minerals shall be allowed in case of roads passing through villages/habitations. In such cases, PP shall construct a 'bypass' road for the purpose of transportation of the minerals leaving an adequate gap (say at least 200 meters) so that the adverse impact of sound and dust along with chances of accidents could be mitigated. All costs resulting from widening and strengthening of existing public road network shall be borne by the PP in consultation with nodal State Govt. Department. Transportation of minerals through road movement in case of existing village/rural roads shall be allowed in consultation with nodal state Govt. department only after required strengthening such that the carrying capacity of roads is increased to handle the traffic load. The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly Vehicular emissions shall be kept under control	Complied	<ul style="list-style-type: none">Company has own dedicated CC road for mineral transportation.Periodical vehicle emission monitoring is being carried out and PUC test carried out during the period: Oct-22 to March-23 is enclosed in below table: <table border="1"><thead><tr><th>SN</th><th>Vehicle No.</th><th>PUCC No.</th><th>Validity</th></tr></thead><tbody><tr><td>1</td><td>RJ09GC0328</td><td>D1007RJ03109035</td><td>31-05-2023</td></tr><tr><td>2</td><td>RJ09GC1128</td><td>D1007RJ03109023</td><td>31-05-2023</td></tr><tr><td>3</td><td>RJ09GC1228</td><td>D1007RJ03105606</td><td>03-06-2023</td></tr><tr><td>4</td><td>RJ09GC1328</td><td>D1007RJ03109024</td><td>31-05-2023</td></tr><tr><td>5</td><td>RJ09GC1428</td><td>D1007RJ03109025</td><td>31-05-2023</td></tr><tr><td>6</td><td>RJ09GC2328</td><td>D1007RJ03109022</td><td>31-05-2023</td></tr><tr><td>7</td><td>RJ09GC2528</td><td>D1007RJ03108987</td><td>31-05-2023</td></tr></tbody></table>	SN	Vehicle No.	PUCC No.	Validity	1	RJ09GC0328	D1007RJ03109035	31-05-2023	2	RJ09GC1128	D1007RJ03109023	31-05-2023	3	RJ09GC1228	D1007RJ03105606	03-06-2023	4	RJ09GC1328	D1007RJ03109024	31-05-2023	5	RJ09GC1428	D1007RJ03109025	31-05-2023	6	RJ09GC2328	D1007RJ03109022	31-05-2023	7	RJ09GC2528	D1007RJ03108987	31-05-2023
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		and regularly monitored. Project should obtain Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centres.		
2	Transportation	The main haulage road within the mine lease should be provided with a permanent water sprinkling arrangement for dust suppression. other roads within the mine lease should be wetted regularly with tanker-mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points. Material yards etc. should invariably be provide with dust suppression arrangements. The air pollution control equipment's like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at crusher, belt –conveyors and other areas prone to air pollution the belt conveyor should be fully covered to avoid generation of dust while transportation. PP shall take necessary measures to avoid generation of fugitive dust emissions.	Complied	Water spray are being done through water tanker on haul road.
VIII. Green Belt				
1.	Green Belt	The project proponent shall develop greenbelt in 7.5m wide safety zone all along the mine lease boundary as per the guidelines of CPCB in order to arrest pollution emanating from mining operations within the lease. The whole Green belt shall be developed within first 5 years starting from windward side of the active mining area. The development of greenbelt shall be governed as per the EC granted by the Ministry irrespective of the stipulation made in approved mine plan.	Complied	<ul style="list-style-type: none"> • Total plantation within lease in 50.5 ha. with 121868 saplings till FY 2021-22 including safety zone (7.651 ha.). • Total plantation done in 16.45 ha in outside the lease area with 31765 nos. of saplings till FY 2021-22. <p>In FY 2022-23</p> <ul style="list-style-type: none"> • In 2.9 ha – 2092 nos – Bench planation (Ahipura). • In 0.3 ha – 1301 nos – 7.5m safety zone. • In 0.303 ha – 6010 nos – Miyawaki plantation. • In 1.04 ha – 1358 nos – Within lease. • Total : 4.54 ha with 10761 nos. saplings.
2.	Green Belt	The project proponent shall carryout plantation / afforestation in backfilled and reclaimed area of mining lease, around water body, along the roadsides, in community areas etc. by planting the native species in consultation with the state forest	Complied	There is no proposal of backfilled, pit shall be used for water storage at conceptual stage.

		department /Agriculture Department/Rural development/Tribal Welfare Department/ gram panchayat such that only those species be selected which are of use to the local people. The CPCB guidelines in this respect shall also be adhered. The density of the trees should be around 2500 saplings per hectare adequate budgetary provision shall be made for protection and care of trees.		
3.	Green Belt	The project proponent shall make necessary alternative arrangements for livestock feed be developing grazing land with a view to compensate those areas which are coming within the mine lease area. The development of such grazing land shall be done in consultation with the state government, in this regard Project proponent should essentially implement the directions of the Hon'ble Supreme Court with regard to acquisition of grazing land. The Sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded / protected against felling and plantation of such trees should be promoted.	Complied	Grazing land has been developed within plantation area.
4.	Green Belt	The project proponent shall undertake all precautionary, measures for conservation and protection of endangered flora and fauna and schedule –I species during mining operation. A wildlife conservation plan shall be prepared for the same clearly delineating action to be taken for conservation of flora and fauna. The plan shall be approved by Chief Wild Life Warden of the State Govt.	Complied	<p>Combined WLCP has been prepared for 5 Nos. of captive Limestone Mines and 2 Nos. of Integrated Cement Plant of J K Cement Ltd are situated within 10 Km radius in Tehsil Nimbahera, Chittorgarh District.</p> <p>Wildlife Conservation Plan (WCP) has been prepared for 6 Schedule-I Species found in the buffer area during the survey i.e.: -</p> <ul style="list-style-type: none"> a) Pavocristatus (Indian Peafowl), b) Pantherapadusfusca (Indian Leopard), c) Prionailurusrubiginosus (Rusty-Spotted Cat), d) Canis lupus pallipes (Indian Wolf), e) Varanusbengalensis (Indian Monitor Lizard) f) Gyps indicus/Gyps bengalensis (Indian Vulture) <p>Wildlife conservation plan has been forwarded by the DFO - Chittorgarh to Divisional Chief Conservator of Forest vide letter No.: F(5) Survey/UVS/2021-22/4089 dated 13.07.2021 and accordingly 20% amount of Rs. 57.07 Lakh deposited to</p>

				DFO - Chittorgarh against the total amount of WCP of Rs. 285.30/- Cr in July-2021.										
5.	Green Belt	And implemented in consultation with the state Forest and Wildlife Department. A copy of wildlife conservation Plan and its implementation status (annual) shall be submitted to the Regional Office of the Ministry.	Complied	Wildlife conservation plan will be implemented at site after final approval of WLCP and status will be send to your good office.										
IX. Public Hearing And Human Health Issues														
1.	Public Hearing And Human Health Issues	The Project Proponent shall appoint an Occupational Health Specialist for Regular as well as Periodical medical examination of the workers engaged in the mining activities, as per the DGMS guidelines. The records shall be maintained properly. PP shall also carryout Occupational health check-ups in respect of workers which are having ailments like BP, diabetes, habitual smoking, etc. The check-ups shall be undertaken once in six months and necessary remedial/preventive measures be taken. A status report on the same may be sent to MoEF&CC Regional Office and DGMS on half-yearly basis.	Complied	<p>Periodic medical check-up of workers are being carried out on regular basis.</p> <p>Detail of medical check-up carried out during the period: Oct-22 to March-23 is given in below table: -</p> <table><tr><th>Particular</th><th>Medical Exam. Carried out (in Nos.)</th></tr><tr><td>Persons examined</td><td>NIL</td></tr><tr><td>Initial Medical Examination</td><td>NIL</td></tr><tr><td>Periodical Medical Examination</td><td>2</td></tr><tr><td>Disease observed</td><td>NIL</td></tr></table>	Particular	Medical Exam. Carried out (in Nos.)	Persons examined	NIL	Initial Medical Examination	NIL	Periodical Medical Examination	2	Disease observed	NIL
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2.	Public Hearing And Human Health Issues	The Project Proponent must demonstrate commitment to work towards 'Zero Harm' from their mining activities and carry out Health Risk Assessment (HRA) for identification workplace hazards and assess their potential risks to health and determine appropriate control measures to protect the health and wellbeing of workers and nearby community. The proponent shall maintain accurate and systematic records of the I-IRA. The I-IRA for neighbourhood has to focus on Public Health Problems like Malaria, Tuberculosis, HIV, Anaemia, Diarrhoea in children under five, respiratory infections due to bio mass cooking. The proponent shall also create awareness and educate the nearby community and workers for Sanitation, Personal Hygiene, Hand washing, not	Complied	<ul style="list-style-type: none">Company has implemented “Zero Harm Goal Policy” and periodically identified the hazards & preventive action are being taken.Best practices have been implemented to maintain vibration, fly rocks, dust emission, noise level and all parameters well within the limit.Mobile medical check-up camps are being organized to all nearby villages for treatment and medicine free of cost.										

		to defecate in open, Women Health and Hygiene (Providing Sanitary Napkins), hazard of tobacco and alcohol use. The Proponent shall carry out base line I-IRA for all the category of workers and thereafter every five years.		
3.	Public Hearing And Human Health Issues	The Proponent shall carry out Occupational health surveillance which be a part of HRA and include Biological Monitoring where practical and feasible, and the tests and investigations relevant to the exposure (e.g. for Dust a X-Ray chest; For Noise Audiometric; for Lead Exposure Blood Lead, For Welders Full Ophthalmologic Assessment; for Manganese Miners a complete Neurological Assessment by a Certified Neurologist, and Manganese (Mn), Estimation in Blood; For Inorganic Chromium, Fortnightly skin inspection of hands and forearms by a responsible person. Except routine tests all tests would be carried out in a Lab accredited by NABH. Records of Health Surveillance must be kept for 30 years, including the results of and the records of Physical examination and tests. The record of exposure due to materials like Asbestos, Hard Rock Mining, Silica, Gold, Kaolin, Aluminium, Iron, Manganese, Chromium, Lead, Uranium need to be handed over to the Mining Department of the State in case the life of the mine is less than 30 years. It would be obligatory for the State Mines Departments to make arrangements for the safe and secure storage of the records including X-Ray. Only conventional X-Ray will be accepted for record purposes and not the digital one). must meet ILO criteria (17 x14 inches and of good quality).	Complied	Pre-employment medical check-up are being carried out considering the parameter as per DGMS.
4.	Public Hearing And Human Health Issues	The Proponent shall maintained a record of performance indicators for workers which includes (a) there should not be a significant decline in their Body Mass Index and it should stay between 18.5 -24.9, (b) the Final Chest X-Ray compared with the base line X-Ray should not show any capacities ,(c)	Complied	Record are being maintained.

		At the end of their leaving job there should be no Diminution in their Lung Functions Forced Expiratory Volume in one second (FEV1), forced vital capacity (FVC) and the ratio unless they are smokers which has to be adjusted and the effect of age, (d) their hearing should not be affected . as a proof an Audiogram (first and last need to be presented), (e) they should not have developed any persistent back pain, neck pain and the movement of their Hip, Knee and other joints should have normal range of movement, (f) they should not have suffered loss of any body part. The record of the same should be submitted to the regional office. MoEF&CC annually along with details of the relief and compensation paid to workers having above indications.		
5.	Public Hearing And Human Health Issues	The Project Proponent shall ensure that 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.	Complied	PPEs have been provided and used by the persons engaged in drilling, dozing and loading. VT is being provided as under required VT Rules.
6.	Public Hearing And Human Health Issues	Project Proponent shall make provision for the housing for workers/labors or shall construct labor camps within/outside (company owned land) with necessary basic infrastructure/ facilities like fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche for kids etc. The housing may be provided in the form of temporary structures which can be removed after the completion of the project related infrastructure. The domestic waste water should be treated with STP in order to avoid contamination of underground water.	Complied	<ul style="list-style-type: none"> • All workman and employees are residing in colony situated at Nimbahera Cement Plant where all basic facilities are available. • There is no temporary structure/hutment has been constructed in mining area.
7.	Public Hearing And Human Health Issues	The activities proposed in Action plan prepared for addressing the issues raised during the Public Hearing shall be completed as per the budgetary provisions mentioned in the Action Plan and within the stipulated time frame. The Status Report on	Complied	For details reply, kindly refer above Specific Condition No.: 4.

		implementation of Action Plan shall be submitted to the concerned Regional Office of the Ministry along with District Administration.		
X.	Corporate Environment Responsibility			
1.	Corporate Environment Responsibility	The activities and budget earmarked for Corporate Environmental Responsibility (CER) as per Ministry's M No 22-65/2017-IA.II(M) dated 01.05.2018 or as proposed by EAC should be kept in a separate bank account. The activities proposed for CER shall be implemented in a time bound manner and annual report of implementation of the same along with documentary proof viz. photographs, purchase documents, latitude & longitude of infrastructure developed & road constructed needs to be submitted to Regional Office MoEF&CC annually along with audited statement.	Complied	Kindly refer the point no. 4.
2.	Corporate Environment Responsibility	Project Proponent shall keep the funds earmarked for environmental protection measures in a separate account and refrain from diverting the same for other purposes. The year wise expenditure of such funds should be reported to the MoEF&CC and its concerned Regional Office.	Complied	Noted and being followed.
XI.	Miscellaneous			
1.	Miscellaneous	The Project Proponent shall prepare digital map (land use & land cover) of the entire lease area once in five years purpose of monitoring land use pattern and submit a report to concerned Regional Office of the MoEF&CC.	Complied	Last digital map for land use cover report has been submitted on 02.03.2020 and for next period it will be submitted on due course of time.
2.	Miscellaneous	The Project Authorities should inform to the Regional Office regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	Complied	Noted.
3.	Miscellaneous	The Project Proponent shall submit six monthly compliance reports on the status of the	Complied	Last six monthly EC compliance report has been submitted on 22/11/2022 through email.

		implementation of the stipulated environmental safeguards to the MOEF&CC & its concerned Regional Office, Central Pollution Control Board and State Pollution Control Board.		
4.	Miscellaneous	A separate 'Environmental Management Cell' with suitable qualified manpower should be set-up under the control of a Senior Executive. The Senior Executive shall directly report to Head of the Organization. Adequate number of qualified Environmental Scientists and Mining Engineers shall be appointed and submit a report to RO, MoEF&CC.	Complied	A separate environmental management cell with qualified personnel has been established & has sufficient monitoring equipment in environmental laboratory.
5.	Miscellaneous	The concerned Regional Office of the MoEF&CC shall randomly monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the MoEF&CC officer(s) by furnishing the requisite data / information / monitoring reports.	Complied	Agreed & Noted.
6.	Miscellaneous	The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.	Complied	Agreed & Noted.
7.	Miscellaneous	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attracts action under the provisions of Environment (Protection) Act, 1986.	Complied	Noted.
8.	Miscellaneous	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	Complied	Agreed & Noted.

		India/ High Court of Chhattisgarh and any other Court of Law relating to the subject matter.		
9.	Miscellaneous	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Complied	Noted and agreed.
10.	Miscellaneous	This issues with the approval of competent Authority.	Complied	Noted and agreed

Yours Sincerely,

For, Nimbahera-Ahirpura Limestone Mines

J. K. Cement Works, Nimbahera



(Authorized Signatory)

J.K. Cement WORKS, NIMBAHERA (RAJ)
NIMBAHERA - AHIRPURA LIMESTONE MINE (Ahirpura Block)
SIX MONTHLY AMBIENT AIR QUALITY MONITORING REPORT
October '2022 to March'2023

Annexure-01

AMBIENT AIR QUALITY RESULTS : (ALL VALUES IN µg/M3)

Month	Near Mines Gate					Near Mines Water Pump House				
	PM10	PM 2.5	SO ₂	NO _x	CO	PM10	PM 2.5	SO ₂	NO _x	CO
Oct-22	48.6	24.8	12.0	20.5	768	53.1	32.3	13.3	15.8	693
Nov-22	56.2	26.6	13.5	16.8	619	63.2	35.1	11.7	14.2	596
Dec-22	49.2	24.2	12.6	17.9	670	53.9	35.3	10.3	19.0	745
Jan-23	50.8	24.5	12.7	25.2	710	61.1	28.5	14.6	28.5	836
Feb-23	44.1	20.6	10.2	23.5	670	72.5	26.2	8.3	27.2	727
Mar-23	45.2	26.6	12.6	22.0	859	58.8	31.3	15.9	27.9	584
AVERAGE	49.0	24.6	12.3	21.0	716	60.4	31.5	12.3	22.1	697

J.K. Cement WORKS, NIMBAHERA (RAJ)
NIMBAHERA - AHIRPURA LIMESTONE MINE (Murlia block)
SIX MONTHLY AMBIENT AIR QUALITY MONITORING REPORT
October '2022 to March'2023

1) AMBIENT AIR QUALITY RESULTS : (ALL VALUES IN µg/M3)

Month	Near Mines Gate					Near Ravana Office				
	PM10	PM 2.5	SO ₂	NO _x	CO	PM10	PM 2.5	SO ₂	NO _x	CO
Oct-22	58.6	31.4	18.5	29.0	853	66.5	32.2	15.9	28.3	733
Nov-22	59.0	30.8	10.5	15.7	630	67.8	36.3	8.3	16.8	412
Dec-22	58.8	22.6	6.6	19.4	447	68.9	32.8	9.1	27.6	630
Jan-23	68.1	21.0	5.5	19.8	453	55.9	29.5	7.5	21.4	538
Feb-23	59.6	33.9	6.9	27.9	785	68.5	27.3	8.4	17.5	607
Mar-23	52.4	26.3	11.4	23.1	384	41.1	22.7	12.6	30.4	653
AVERAGE	59.4	27.7	9.9	22.5	592	61.5	30.1	10.3	23.7	596



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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522400003404	Date :	30-11-2022
Issued To :	M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement, Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	17-11-2022
Point of Collection :	Near Water Pump house Ahirpura Block	Date of Sample Receipt :	21-11-2022
Date of Test :	21-11-2022 to 30-11-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	340	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	14.22	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Particulate Matter (PM2.5) [microgram/m3]	34.63	IS 5182 (Part 24) : 2019	60.00
4	Sulphur Dioxide [microgram/m3]	3.5	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM 10) [microgram/m3]	71.77	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Purni Mal Yogi
Senior Analyst

Rajesh Malhotra
(Report No: TC502522400003404)



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TEST REPORT

Report No./ULR No. :	TC502522400003405	Date :	30-11-2022
Issued To :	M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement ,Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	18-11-2022
Point of Collection :	Near Mine Office Ahirpura Block	Date of Sample Receipt :	21-11-2022
Date of Test :	21-11-2022 to 30-11-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	320	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	12.59	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Particulate Matter (PM2.5) [microgram/m3]	32.82	IS 5182 (Part 24) : 2019	60.00
4	Sulphur Dioxide [microgram/m3]	4.14	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM 10) [microgram/m3]	66.1	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Senior Analyst **Pran Mal Yogi**

Authorized Signatory
(Report No: TC502522400003405)



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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522400003406	Date :	30-11-2022
Issued To :	M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement, Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	17-11-2022
Point of Collection :	Near Mine office Murlia Block	Date of Sample Receipt :	21-11-2022
Date of Test :	21-11-2022 to 30-11-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	310	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	11.15	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Particulate Matter (PM2.5) [microgram/m3]	31.72	IS 5182 (Part 24) : 2019	60.00
4	Sulphur Dioxide [microgram/m3]	3.1	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM 10) [microgram/m3]	65.64	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Senior Analyst

Mal Yogi

Authorized Signatory

(Report No: TC502522400003406)



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TEST REPORT

Report No./ULR No. :	TC502522400003407	Date :	30-11-2022
Issued To :	M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement ,Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	18-11-2022
Point of Collection :	Near Ravana office Murlia Block	Date of Sample Receipt :	21-11-2022
Date of Test :	21-11-2022 to 30-11-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	300	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	13.31	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Particulate Matter (PM2.5) [microgram/m3]	41.18	IS 5182 (Part 24) : 2019	60.00
4	Sulphur Dioxide [microgram/m3]	3.62	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM 10) [microgram/m3]	74.39	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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P. Mal Yogi
Senior Analyst

Rajesh Maheshwari
(Report No: TC502522400003407)



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TEST REPORT

Report No./ULR No. :	TC502522400003410	Date :	30-11-2022
Issued To :	M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement ,Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	17-11-2022
Point of Collection :	Murlia Village	Date of Sample Receipt :	21-11-2022
Date of Test :	21-11-2022 to 30-11-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	280	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	9.52	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Particulate Matter (PM2.5) [microgram/m3]	39.82	IS 5182 (Part 24) : 2019	60.00
4	Sulphur Dioxide [microgram/m3]	4.42	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM 10) [microgram/m3]	72.98	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Purni Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: TC502522400003410)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522400003411	Date :	30-11-2022
Issued To :	M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement, Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	18-11-2022
Point of Collection :	Ahirpura Village	Date of Sample Receipt :	21-11-2022
Date of Test :	21-11-2022 to 30-11-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	290	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	13.1	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Particulate Matter (PM2.5) [microgram/m3]	29.03	IS 5182 (Part 24) : 2019	60.00
4	Sulphur Dioxide [microgram/m3]	3.79	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM 10) [microgram/m3]	76.53	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Senior Analyst

Puran Mal Yogi

Authorized Signatory

(Report No: TC502522400003411)



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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523400000423	Date :	14-03-2023
Issued To :	M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement ,Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	23-02-2023 16:48 to 24-02-2023 16:48
Point of Collection :	Near Water Pump house Ahirpura Block	Date of Receipt :	28-02-2023
Date of Test/Analysis :	28-02-2023 to 13-03-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	350	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	15.63	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Particulate Matter (PM2.5) [microgram/m3]	33.3	IS 5182 (Part 24) : 2019	60.00
4	Sulphur Dioxide [microgram/m3]	5.15	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM 10) [microgram/m3]	72.39	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
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Puran M S Yogi
Senior Analyst

Balram Agarwal
Authorized Signatory

(Report No: TC502523400000423)



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Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523400000424	Date :	14-03-2023
Issued To :	M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement , Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	23-02-2023 16:49 to 24-02-2023 16:49
Point of Collection :	Near Mine Office Ahirpura Block	Date of Receipt :	28-02-2023
Date of Test/Analysis :	28-02-2023 to 13-03-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	360	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	15.69	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Particulate Matter (PM2.5) [microgram/m3]	35.64	IS 5182 (Part 24) : 2019	60.00
4	Sulphur Dioxide [microgram/m3]	5	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM 10) [microgram/m3]	77.24	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Senior Analyst


Authorized Signatory
(Report No: TC502523400000424)



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Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523400000425	Date :	14-03-2023
Issued To :	M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement , Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	23-02-2023 16:51 to 24-02-2023 16:51
Point of Collection :	Near Mine office Murlia Block	Date of Receipt :	28-02-2023
Date of Test/Analysis :	28-02-2023 to 13-03-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m ³]	340	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO ₂ [microgram/m ³]	15.76	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Particulate Matter (PM _{2.5}) [microgram/m ³]	29.12	IS 5182 (Part 24) : 2019	60.00
4	Sulphur Dioxide [microgram/m ³]	5.57	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM ₁₀) [microgram/m ³]	81.69	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Purshottam Yogi

Senior Analyst

Balram Aggarwal
Authorized Signatory

(Report No: TC502523400000425)



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TEST REPORT

Report No./ULR No. :	TC502523400000426	Date :	14-03-2023
Issued To :	M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement , Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	23-02-2023 17:01 to 24-02-2023 17:01
Point of Collection :	Near Ravana office Murlia Block	Date of Receipt :	28-02-2023
Date of Test/Analysis :	28-02-2023 to 13-03-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	370	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	15.76	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Particulate Matter (PM2.5) [microgram/m3]	31.88	IS 5182 (Part 24) : 2019	60.00
4	Sulphur Dioxide [microgram/m3]	5.21	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM 10) [microgram/m3]	79.21	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Puran Mal Yogi
Senior Analyst

Balram Agarwal
Authorized Signatory
(Report No: TC502523400000426)



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TEST REPORT

Report No./ULR No. :	TC502523400000429	Date :	14-03-2023
Issued To :	M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement, Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	24-02-2023 17:13 to 25-02-2023 17:13
Point of Collection :	Murlia Village	Date of Receipt :	28-02-2023
Date of Test/Analysis :	28-02-2023 to 13-03-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	340	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	14.27	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Particulate Matter (PM2.5) [microgram/m3]	32.07	IS 5182 (Part 24) : 2019	60.00
4	Sulphur Dioxide [microgram/m3]	3.49	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM 10) [microgram/m3]	84.87	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Purni Mal Yogi
Senior Analyst

Balram
Authorized Signatory
(Report No: TC502523400000429)



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TEST REPORT

Report No./ULR No. :	TC502523400000430	Date :	14-03-2023
Issued To :	M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement, Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	24-02-2023 17:15 to 25-02-2023 17:15
Point of Collection :	Ahirpura Village	Date of Receipt :	28-02-2023
Date of Test/Analysis :	28-02-2023 to 13-03-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	350	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	16.18	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Particulate Matter (PM2.5) [microgram/m3]	32.96	IS 5182 (Part 24) : 2019	60.00
4	Sulphur Dioxide [microgram/m3]	5.57	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM 10) [microgram/m3]	73.71	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: TC502523400000430)

J.K. Cement WORKS, NIMBAHERA (RAJ)
NIMBAHERA - AHIRPURA LIMESTONE MINE (Murlia block)
SIX MONTHLY FUGITIVE MONITORING REPORT
October '2022 to March'2023

Annexure-02

1) AMBIENT AIR QUALITY RESULTS : (ALL VALUES IN µg/M3)

Month	3 to10 Meter Distance		From Drilling		Near loading point			
	Operation							
	SPM	SO ₂	NO _x	CO	SPM	SO ₂	NO _x	CO
Oct-22	390	10.6	17.0	756	411	12.6	18.4	842
Nov-22	360	9.7	22.2	544	391	9.6	20.5	624
Dec-22	354	10.6	18.6	564	407	11.2	24.9	676
Jan-23	311	7.5	17.9	733	380	9.4	18.2	527
Feb-23	418	11.9	27.6	705	364	12.5	17.5	470
Mar-23	357	14.3	27.4	773	338	15.4	24.8	831
AVERAGE	365	10.8	21.8	679	382	11.8	20.7	662



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TEST REPORT

Report No./ULR No. :	TC502522400003408	Date :	30-11-2022
Issued To :	M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement ,Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	17-11-2022
Point of Collection :	3-10 Meter Distance from Drilling Point of Murlia block	Date of Sample Receipt :	21-11-2022
Date of Test :	21-11-2022 to 30-11-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	290	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	8.27	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Sulphur Dioxide [microgram/m3]	6.58	IS 5182 (Part 2) : 2001 RA 2017	80.00
4	Suspended Particulate Matter (SPM) [microgram/m3]	431.36	IS 5182 (Part 4) : 1999 RA 2019	-

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: TC502522400003408)



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TEST REPORT

Report No./ULR No. :	TC502522400003409	Date :	30-11-2022
Issued To :	M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement ,Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	18-11-2022
Point of Collection :	Near loading point of Murlia Block	Date of Sample Receipt :	21-11-2022
Date of Test :	21-11-2022 to 30-11-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	370	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	17.06	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Sulphur Dioxide [microgram/m3]	3.46	IS 5182 (Part 2) : 2001 RA 2017	80.00
4	Suspended Particulate Matter (SPM) [microgram/m3]	471.33	IS 5182 (Part 4) : 1999 RA 2019	-

Notes :-

- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
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Pooja Mal Yogi
Senior Analyst

Rajesh Kumar Swaraj
Authorized Signatory
(Report No: TC502522400003409)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523400000427	Date :	14-03-2023
Issued To :	M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement, Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	24-02-2023 17:09 to 25-02-2023 17:09
Point of Collection :	3-10 Meter Distance from Drilling Point of Murlia block	Date of Receipt :	28-02-2023
Date of Test/Analysis :	28-02-2023 to 13-03-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	320	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	15.73	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Sulphur Dioxide [microgram/m3]	3.06	IS 5182 (Part 2) : 2001 RA 2017	80.00
4	Suspended Particulate Matter (SPM) [microgram/m3]	338.27	IS 5182 (Part 4) : 1999 RA 2019	Not Specified

Notes :-

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Purani Mal Yogi
Senior Analyst

Balram Agarwal
Authorized Signatory
(Report No: TC502523400000427)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523400000428	Date :	14-03-2023
Issued To :	M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement, Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	24-02-2023 17:11 to 25-02-2023 17:11
Point of Collection :	Near loading point of Murlia Block	Date of Receipt :	28-02-2023
Date of Test/Analysis :	28-02-2023 to 13-03-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	330	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	15.84	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Sulphur Dioxide [microgram/m3]	5.55	IS 5182 (Part 2) : 2001 RA 2017	80.00
4	Suspended Particulate Matter (SPM) [microgram/m3]	371.59	IS 5182 (Part 4) : 1999 RA 2019	Not Specified

Notes :-

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Pooja
Pooja Mal Yogi
Senior Analyst

Balram
Balram Kumar
Authorized Signatory
(Report No: TC502523400000428)

Annexure-03		
M/s J.K.CEMENT WORKS,NIMBAHERA		
Digital Water Level Recorder Report (Ground water Level) of Ahirpura Limestone Mine. (ML No. 02/97)		
Month	Telemetry BW_3 (in m)(avg.)	Remarks
Oct-22	6.08	
Nov-22	8.96	
Dec-22	12.43	
Jan-23	14.63	
Feb-23	17.19	
Mar-23	18.05	



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522100002124	Date :	22-11-2022
Issued To :	M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement, Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Potable and Domestic Water	Date of Sample Collection/Monitoring :	07-11-2022
Point of Collection :	Pit Water (Surface Water - Ahirpura Block)	Date of Receipt :	09-11-2022
Date of Test/Analysis :	09-11-2022 to 22-11-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr.	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Turbidity [NTU]	0.98	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
4	pH	7.39	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
5	Hardness (total) [mg/l]	142.31	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
6	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
7	Chloride [mg/l]	63.6	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
8	Total Dissolved Solids [mg/l]	261	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
9	Calcium [mg/l]	41.54	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00
10	Magnesium [mg/l]	9.35	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00

Rajesh Maneshwar



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Email : marketinglab@teamtesthouse.com

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
11	Fluoride [mg/l]	0.36	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
12	Suspended Solids [mg/l]	28	IS 3025 (Part 17) : 1984 RA 2017	-	-
13	Oil and Grease [mg/l]	Less than 1	IS 3025 (Part 39) : 1991 RA 2019	-	-
14	Conductivity [micromho/cm]	388	APHA 2017 : 2510 B	-	-
15	M - Alkalinity [mg/l]	138.6	APHA : 2017, 2320 B	-	-
16	Total coliform [MPN/100ml]	Not Detected	IS 1622 : 1981	-	-
17	E. Coli [MPN/100ml]	Not Detected	IS 5887 (Part 1) : 1976 RA 2018	-	-

Notes :-

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Balram
Balram Agarwal
Senior Analyst

Rajesh
Rajesh Maheshwan
Authorized Signatory
(Report No: TC502522100002124)



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TEST REPORT

Report No./ULR No. :	TC502522100002125	Date :	23-11-2022
Issued To :	M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement, Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Borewell Water	Date of Sample Collection/Monitoring :	07-11-2022
Point of Collection :	Sharda's Tube Well - (Ground Water)	Date of Receipt :	10-11-2022
Date of Test/Analysis :	10-11-2022 to 23-11-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 LTR	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Turbidity [NTU]	BDL (<0.1)	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
4	pH	7.53	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
5	Hardness (total) [mg/l]	307.69	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
6	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
7	Chloride [mg/l]	78.27	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
8	Total Dissolved Solids [mg/l]	423	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
9	Calcium [mg/l]	92.31	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00
10	Magnesium [mg/l]	18.69	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00

Rajesh Maheshwari



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S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
11	Fluoride [mg/l]	0.59	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
12	Conductivity [micromho/cm]	680	APHA 2017 : 2510 B	-	-
13	Oil and Grease [mg/l]	BDL(<1.0)	IS 3025 (Part 39) : 1991 RA 2019	-	-
14	Total Suspended Solids [mg/l]	6	IS 3025 (Part 17) : 1984 RA 2017	-	-
15	M - Alkalinity [mg/l]	178.20	APHA : 2017, 2320 B	-	-
16	E-Coli [MPN/100ml]	Not Detected	IS 5887 (Part 1) : 1976 RA 2018	Shall not be detectable in any 100 ml sample	-
17	Total Coliform [MPN/100ml]	Not Detected	IS 1622 : 1981	Shall not be detectable in any 100 ml sample	-

Notes :-

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TEST REPORT

Report No./ULR No. :	TC502522100002126	Date :	23-11-2022
Issued To :	M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement, Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Borewell Water	Date of Sample Collection/Monitoring :	07-11-2022
Point of Collection :	Crusher Tube Well - (Ground Water)	Date of Receipt :	10-11-2022
Date of Test/Analysis :	10-11-2022 to 23-11-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 LTR	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Turbidity [NTU]	BDL (<0.1)	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
4	pH	7.88	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
5	Hardness (total) [mg/l]	298.08	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
6	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
7	Chloride [mg/l]	74.36	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
8	Total Dissolved Solids [mg/l]	430	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
9	Calcium [mg/l]	69.23	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00
10	Magnesium [mg/l]	30.37	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00

Rajesh Maheshwar



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S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
11	Fluoride [mg/l]	0.59	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
12	Conductivity [micromho/cm]	684	APHA 2017 : 2510 B	-	-
13	Oil and Grease [mg/l]	BDL(<1.0)	IS 3025 (Part 39) : 1991 RA 2019	-	-
14	Total Suspended Solids [mg/l]	6	IS 3025 (Part 17) : 1984 RA 2017	-	-
15	M - Alkalinity [mg/l]	140	APHA : 2017, 2320 B	-	-
16	E-Coli [MPN/100ml]	Not Detected	IS 5887 (Part 1) : 1976 RA 2018	Shall not be detectable in any 100 ml sample	-
17	Total Coliform [MPN/100ml]	Not Detected	IS 1622 : 1981	Shall not be detectable in any 100 ml sample	-

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Balram

Balram Agarwal
Senior Analyst

Rajesh

Rajesh Maheshwari
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TEST REPORT

Report No./ULR No. :	TC502522100002127	Date :	23-11-2022
Issued To :	M/S Nimbahera - Ahirpura Limestone Mine (ML No.-2/97), Murlia Block C/o JK Cement Works, Nimbahera, Tehsil- Nimbahera, District- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Potable and Domestic Water	Date of Sample Collection/Monitoring :	07-11-2022
Point of Collection :	Pit Water (Surface Water - Murlia Block)	Date of Receipt :	10-11-2022
Date of Test/Analysis :	10-11-2022 to 23-11-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 LTR	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Sunil Kumar Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	10	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Turbidity [NTU]	1.84	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
4	pH	7.71	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
5	Hardness (total) [mg/l]	192.31	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
6	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
7	Chloride [mg/l]	68.49	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
8	Total Dissolved Solids [mg/l]	298	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
9	Calcium [mg/l]	46.15	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00
10	Magnesium [mg/l]	18.69	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00

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S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
11	Fluoride [mg/l]	0.41	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
12	Suspended Solids [mg/l]	4	IS 3025 (Part 17) : 1984 RA 2017	-	-
13	Oil and Grease [mg/l]	Less than 1	IS 3025 (Part 39) : 1991 RA 2019	-	-
14	Conductivity [micromho/cm]	470	APHA 2017 : 2510 B	-	-
15	M - Alkalinity [mg/l]	120	APHA : 2017, 2320 B	-	-
16	Total coliform [MPN/100ml]	Not Detected	IS 1622 : 1981	Shall not be detectable in 100ml Sample	-
17	E. Coli [MPN/100ml]	Not Detected	IS 5887 (Part 1) : 1976 RA 2018	Shall not be detectable in 100ml Sample	-

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Senior Analyst

Rajesh

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Authorized Signatory
(Report No: TC502522100002127)



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TEST REPORT

Report No./ULR No. :	TC502522100002128	Date :	23-11-2022
Issued To :	M/S Nimbahera - Ahirpura Limestone Mine (ML No.-2/97), Murlia Block C/o JK Cement Works, Nimbahera, Tehsil- Nimbahera, District- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Borewell Water	Date of Sample Collection/Monitoring :	07-11-2022
Point of Collection :	Hand Pump (Near Hut) - (Ground Water)	Date of Receipt :	11-11-2022
Date of Test/Analysis :	11-11-2022 to 23-11-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Sunil Kumar Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Turbidity [NTU]	BDL (<0.1)	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
4	pH	7.89	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
5	Hardness (total) [mg/l]	346.15	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
6	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
7	Chloride [mg/l]	58.71	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
8	Total Dissolved Solids [mg/l]	403	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
9	Calcium [mg/l]	107.69	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00
10	Magnesium [mg/l]	18.69	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00

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S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
11	Fluoride [mg/l]	0.56	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
12	Conductivity [micromho/cm]	640	APHA 2017 : 2510 B	-	-
13	Oil and Grease [mg/l]	BDL(<1.0)	IS 3025 (Part 39) : 1991 RA 2019	-	-
14	Total Suspended Solids [mg/l]	4	IS 3025 (Part 17) : 1984 RA 2017	-	-
15	M - Alkalinity [mg/l]	190	APHA : 2017, 2320 B	-	-

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TEST REPORT

Report No./ULR No. :	TC502522100002129	Date :	23-11-2022
Issued To :	M/S Nimbahera - Ahirpura Limestone Mine (ML No.-2/97), Murlia Block C/o JK Cement Works, Nimbahera, Tehsil- Nimbahera, District- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Borewell Water	Date of Sample Collection/Monitoring :	07-11-2022
Point of Collection :	Tube Well (Near Mangrol Chauraha) (Ground Water)	Date of Receipt :	11-11-2022
Date of Test/Analysis :	11-11-2022 to 23-11-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Sunil Kumar Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Turbidity [NTU]	BDL (<0.1)	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
4	pH	7.43	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
5	Hardness (total) [mg/l]	355.77	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
6	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
7	Chloride [mg/l]	68.49	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
8	Total Dissolved Solids [mg/l]	392	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
9	Calcium [mg/l]	96.15	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00
10	Magnesium [mg/l]	28.04	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00

Rajesh Maheshwari



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S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
11	Fluoride [mg/l]	0.65	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
12	Conductivity [micromho/cm]	631	APHA 2017 : 2510 B	-	-
13	Oil and Grease [mg/l]	BDL(<1.0)	IS 3025 (Part 39) : 1991 RA 2019	-	-
14	Total Suspended Solids [mg/l]	8	IS 3025 (Part 17) : 1984 RA 2017	-	-
15	M - Alkalinity [mg/l]	160	APHA : 2017, 2320 B	-	-

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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523100000021	Date :	12-01-2023
Issued To :	M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement ,Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Water / Chemical	Date of Sample Collection/Monitoring :	06-01-2023 17:12 to 06-01-2023 17:12
Point of Collection :	Pit Water (Surface Water - Ahirpura Block)..	Date of Receipt :	07-01-2023
Date of Test/Analysis :	07-01-2023 to 12-01-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr.	Sample Collected By :	Prahlad yogi
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	Agreeable
3	Turbidity [NTU]	1.8	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
4	pH	8.25	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
5	Hardness (total) [mg/l]	170.87	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
6	Iron [mg/l]	0.07	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
7	Chloride [mg/l]	58.71	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
8	Total Dissolved Solids [mg/l]	388	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
9	Fluoride [mg/l]	0.66	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
10	Suspended Solids [mg/l]	7	IS 3025 (Part 17) : 1984 RA 2017	-	-
11	Oil and Grease [mg/l]	Less than 1	IS 3025 (Part 39) : 1991 RA 2019	-	-
12	Conductivity [micromho/cm]	544	APHA 2017 : 2510 B	-	-

Raj



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S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
13	Calcium Hardness [mg/l]	135.92	IS 3025 (Part 40) : 1991 RA 2019	-	-
14	Magnesium Hardness [mg/l]	34.95	IS 3025 (Part 46) : 1994 RA 2019	-	-
15	M - Alkalinity [mg/l]	108.08	IS 3025 (Part 23) : 1986 RA 2019	-	-

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Rajesh
Rajesh Maheshwari
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TEST REPORT

Report No./JLR No. :	TC502523100000022	Date :	12-01-2023
Issued To :	M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement, Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water / Chemical	Date of Sample Collection/Monitoring :	06-01-2023 17:13 to 06-01-2023 17:13
Point of Collection :	Shard's Tube Well (Ahirpura Block)	Date of Receipt :	07-01-2023
Date of Test/Analysis :	07-01-2023 to 12-01-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr.	Sample Collected By :	Prahlad yogi
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Turbidity [NTU]	0.4	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
4	pH	7.18	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
5	Hardness (total) [mg/l]	514.56	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
6	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
7	Chloride [mg/l]	68.49	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
8	Total Dissolved Solids [mg/l]	790	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
9	Fluoride [mg/l]	0.65	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
10	Conductivity [micromho/cm]	1209	APHA 2017 : 2510 B	-	-
11	Oil and Grease [mg/l]	Less than 1	IS 3025 (Part 39) : 1991 RA 2019	-	-
12	Total Suspended Solids [mg/l]	5	IS 3025 (Part 17) : 1984 RA 2017	-	-

Prahlad



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S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
13	Calcium Hardness [mg/l]	388.34	IS 3025 (Part 40) : 1991 RA 2019	-	-
14	M - Alkalinity [mg/l]	299.15	IS 3025 (Part 23) : 1986 RA 2019	-	-
15	Magnesium Hardness [mg/l]	126.21	APHA:2017 : 3500-Mg-B	-	-

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Senior Analyst

Rajesh

Rajesh Maheshwari
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TEST REPORT

Report No./ULR No. :	TC502523100000023	Date :	12-01-2023
Issued To :	M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement, Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water / Chemical	Date of Sample Collection/Monitoring :	06-01-2023 17:14 to 06-01-2023 17:14
Point of Collection :	Crusher Tube Well (Ahirpura Block)	Date of Receipt :	07-01-2023
Date of Test/Analysis :	07-01-2023 to 12-01-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr.	Sample Collected By :	Prahlad yogi
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Turbidity [NTU]	0.8	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
4	pH	7.14	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
5	Hardness (total) [mg/l]	349.51	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
6	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
7	Chloride [mg/l]	93.93	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
8	Total Dissolved Solids [mg/l]	712	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
9	Fluoride [mg/l]	0.59	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
10	Conductivity [micromho/cm]	950	APHA 2017 : 2510 B	-	-
11	Oil and Grease [mg/l]	Less than 1	IS 3025 (Part 39) : 1991 RA 2019	-	-
12	Total Suspended Solids [mg/l]	7	IS 3025 (Part 17) : 1984 RA 2017	-	-

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Email : marketinglab@teamtesthouse.com

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
13	Calcium Hardness [mg/l]	306.79	IS 3025 (Part 40) : 1991 RA 2019	-	-
14	M - Alkalinity [mg/l]	227.74	IS 3025 (Part 23) : 1986 RA 2019	-	-
15	Magnesium Hardness [mg/l]	42.71	APHA:2017 : 3500-Mg-B	-	-

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Rajesh

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TEST REPORT

Report No./ULR No. :	TC502523100000024	Date :	12-01-2023
Issued To :	M/S Nimbahera - Ahirpura Limestone Mine (ML No.-2/97), Murlia Block C/o JK Cement Works, Nimbahera, Tehsil-Nimbahera, District- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Water / Chemical	Date of Sample Collection/Monitoring :	06-01-2023 17:00 to 06-01-2023 17:00
Point of Collection :	Pit Water (Surface Water)..	Date of Receipt :	07-01-2023
Date of Test/Analysis :	07-01-2023 to 12-01-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr.	Sample Collected By :	Prahlad yogi
Unit's representative :	Mr Sunil Kumar Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	Agreeable
3	Turbidity [NTU]	0.9	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
4	pH	7.80	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
5	Hardness (total) [mg/l]	174.76	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
6	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
7	Chloride [mg/l]	43.05	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
8	Total Dissolved Solids [mg/l]	336	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
9	Fluoride [mg/l]	0.49	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
10	Suspended Solids [mg/l]	6	IS 3025 (Part 17) : 1984 RA 2017	-	-
11	Oil and Grease [mg/l]	Less than 1	IS 3025 (Part 39) : 1991 RA 2019	-	-
12	Conductivity [micromho/cm]	496	APHA 2017 : 2510 B	-	-

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S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
13	Calcium Hardness [mg/l]	147.57	IS 3025 (Part 40) : 1991 RA 2019	-	-
14	Magnesium Hardness [mg/l]	27.18	IS 3025 (Part 46) : 1994 RA 2019	-	-
15	M - Alkalinity [mg/l]	115.8	IS 3025 (Part 23) : 1986 RA 2019	-	-

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TEST REPORT

Report No./ULR No. :	TC502523100000025	Date :	12-01-2023
Issued To :	M/S Nimbahera - Ahirpura Limestone Mine (ML No.-2/97), Murlia Block C/o JK Cement Works, Nimbahera, Tehsil- Nimbahera, District- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water / Chemical	Date of Sample Collection/Monitoring :	06-01-2023 17:01 to 06-01-2023 17:01
Point of Collection :	Hand Pump (Near Hut)..	Date of Receipt :	07-01-2023
Date of Test/Analysis :	07-01-2023 to 12-01-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr.	Sample Collected By :	Prahlad yogi
Unit's representative :	Mr Sunil Kumar Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Turbidity [NTU]	0.6	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
4	pH	7.16	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
5	Hardness (total) [mg/l]	533.98	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
6	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
7	Chloride [mg/l]	66.53	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
8	Total Dissolved Solids [mg/l]	744	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
9	Fluoride [mg/l]	0.65	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
10	Conductivity [micromho/cm]	1205	APHA 2017 : 2510 B	-	-
11	Oil and Grease [mg/l]	Less than 1	IS 3025 (Part 39) : 1991 RA 2019	-	-
12	Total Suspended Solids [mg/l]	4	IS 3025 (Part 17) : 1984 RA 2017	-	-

Prahlad



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S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
13	Calcium Hardness [mg/l]	388.34	IS 3025 (Part 40) : 1991 RA 2019	-	-
14	M - Alkalinity [mg/l]	279.85	IS 3025 (Part 23) : 1986 RA 2019	-	-
15	Magnesium Hardness [mg/l]	145.63	APHA:2017 : 3500-Mg-B	-	-

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TEST REPORT

Report No./ULR No. :	TC502523100000026	Date :	12-01-2023
Issued To :	M/S Nimbahera - Ahirpura Limestone Mine (ML No.-2/97), Murlia Block C/o JK Cement Works, Nimbahera, Tehsil- Nimbahera, District- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water / Chemical	Date of Sample Collection/Monitoring :	06-01-2023 17:02 to 06-01-2023 17:03
Point of Collection :	Tube Well (Near Mangrol Chauraha)	Date of Receipt :	07-01-2023
Date of Test/Analysis :	07-01-2023 to 12-01-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr.	Sample Collected By :	Prahlad yogi
Unit's representative :	Mr Sunil Kumar Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Turbidity [NTU]	0.3	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
4	pH	7.13	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
5	Hardness (total) [mg/l]	349.51	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
6	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
7	Chloride [mg/l]	46.96	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
8	Total Dissolved Solids [mg/l]	610	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
9	Fluoride [mg/l]	0.46	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
10	Conductivity [micromho/cm]	861	APHA 2017 : 2510 B	-	-
11	Oil and Grease [mg/l]	Less than 1	IS 3025 (Part 39) : 1991 RA 2019	-	-
12	Total Suspended Solids [mg/l]	8	IS 3025 (Part 17) : 1984 RA 2017	-	-

Rajan



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Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
13	Calcium Hardness [mg/l]	291.26	IS 3025 (Part 40) : 1991 RA 2019	-	-
14	M - Alkalinity [mg/l]	243.18	IS 3025 (Part 23) : 1986 RA 2019	-	-
15	Magnesium Hardness [mg/l]	58.25	APHA:2017 : 3500-Mg-B	-	-

Notes :-

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Balram Agarwal
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523100000026)



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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522200002739	Date :	01-12-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Liquid Effluents	Date of Sample Collection/Monitoring :	22-11-2022
Point of Collection :	Ahirpura Mine Workshop Water	Date of Receipt :	24-11-2022
Date of Test/Analysis :	24-11-2022 to 30-11-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr	Sample Collected By :	Mahaveer singh Gurjar
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	32	APHA.2017:2540-D	100
2	Biochemical Oxygen Demand (BOD) [mg/l]	17.73	APHA 2017:5210-B	30
3	Chloride as Cl [mg/l]	132.06	APHA 2017 : 4500- Cl- B	-
4	Chemical Oxygen Demand (COD) [mg/l]	121.95	APHA:2017 : 5220-C	250
5	pH	7.65	APHA:2017 : 4500 H+B	5.5 - 9.0
6	Sulphate [mg/l]	91.42	APHA:2017 : 4500-SO4-E	Not Specified
7	Chromium Total [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	2.0
8	Copper [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	3.0
9	Iron [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	3.0
10	Zinc [mg/l]	0.05	APHA :2017 :3111- B	5.0
11	Oil & Grease [mg/l]	5	APHA 2017 : 5520 B	10
12	Free available chlorine [mg/l]	BDL (<0.1)	APHA 2017 : 4500- Cl- B	0.5

Notes :-

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Sanjay Kumar
Senior Analyst

Rajesh Maneshwar
Authorized Signatory
(Report No: TC502522200002739)



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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	200002739	Date :	01-12-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Liquid Effluents	Date of Sample Collection/Monitoring :	22-11-2022
Point of Collection :	Ahirpura Mine Workshop Water	Date of Receipt :	24-11-2022
Date of Test/Analysis :	24-11-2022 to 30-11-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr	Sample Collected By :	Mahaveer singh Gurjar
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Phosphate (ortho) [mg/l]	BDL (<0.1)	APHA 2017 : 4500-P C	5

Notes :-

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Sunil Kumar
Senior Analyst


Rajesh Maheshwan
Authorized Signatory
(Report No: 200002739)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523200000487	Date :	10-03-2023
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	25-02-2023
Point of Collection :	Ahirpura Mine Workshop Water	Date of Receipt :	03-03-2023
Date of Test/Analysis :	03-03-2023 to 10-03-2023	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 ltr.	Sample Collected By :	Prahlad yogi
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	23	APHA.2017:2540-D	100
2	Biochemical Oxygen Demand (BOD) [mg/l]	12.67	APHA 2017:5210-B	30
3	Chloride as Cl [mg/l]	147.83	APHA 2017 : 4500- Cl- B	-
4	Chemical Oxygen Demand (COD) [mg/l]	97.92	APHA:2017 : 5220-C	250
5	pH	7.75	APHA:2017 : 4500 H+B	5.5 - 9.0
6	Phosphate (total) as P [mg/l]	BDL (<0.1)	APHA 2017 : 4500-P C	5
7	Sulphate [mg/l]	104.66	APHA:2017 : 4500-SO4-E	Not Specified
8	Chromium Total [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	2.0
9	Copper [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	3.0
10	Iron [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	3.0
11	Zinc [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	5.0
12	Oil & Grease [mg/l]	4	APHA 2017 : 5520 B	10

Notes :-

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Sunil kumar
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523200000487)



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TEST REPORT

Report No./ULR No. :	200000487	Date :	10-03-2023
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	25-02-2023
Point of Collection :	Ahirpura Mine Workshop Water	Date of Receipt :	03-03-2023
Date of Test/Analysis :	03-03-2023 to 10-03-2023	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 ltr.	Sample Collected By :	Prahlad yogi
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
13	Free available chlorine [mg/l]	BDL(<0.1)	APHA 2017 : 4500- Cl- B	0.5

Notes :-

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Sunil kumar
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 200000487)

Date/Time Long at 13:21:08 March 18, 2023
Trigger Source Geo: 0.700 mm/s, Mic: 148.0 dB(L)
Range Geo: 31.75 mm/s
Record Time 3.75 sec (Auto=3Sec) at 1024 sps

Serial Number BE18244 V 10.72-1.1 Minimate Blaster
Battery Level 6.2 Volts
Unit Calibration February 18, 2022 by UES New Delhi
File Name T244JXVM.F80

Notes

Location: JK CEMENT LIME STONE MINES NIMBAHERA
Client: J K CEMENT WORKS
User Name: P. K. DAWER
General: MURLIA MINES

Post Event Notes

JK CEMENT LIME STONE MINES NIMBAHERA (MURLIA BLOCK)
 III Bench SE S-PIT DIRECTION OF BLAST= S-N BID :0-157/22
 NO. OF HOLES= 10, MAX.CHARGE/DELAY= 19.16 KG.
 DIST.FROM BLAST TO INSTRUMENT=300 MTR Toward Highway

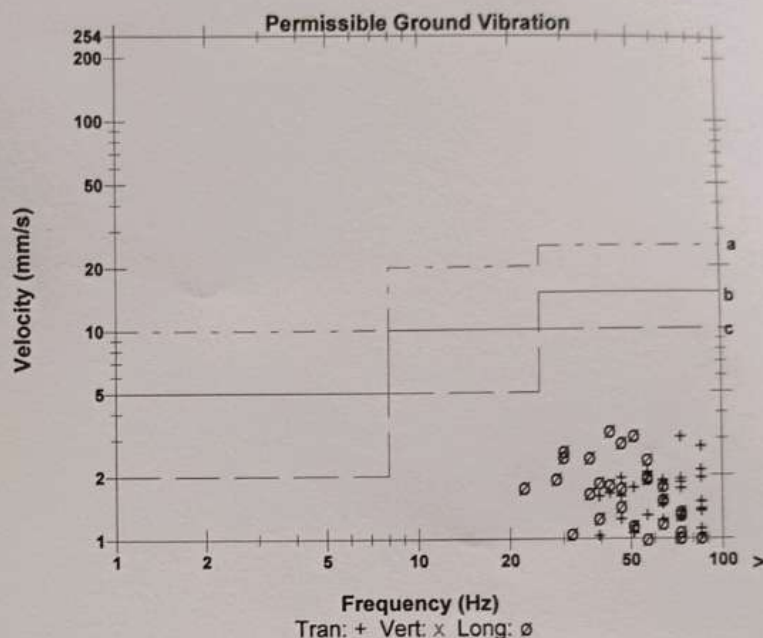
Extended Notes

Microphone Linear Weighting
PSPL 119.1 dB(L) at 0.752 sec
ZC Freq 13 Hz
Channel Test Passed (Freq = 20.1 Hz Amp = 475 mv)

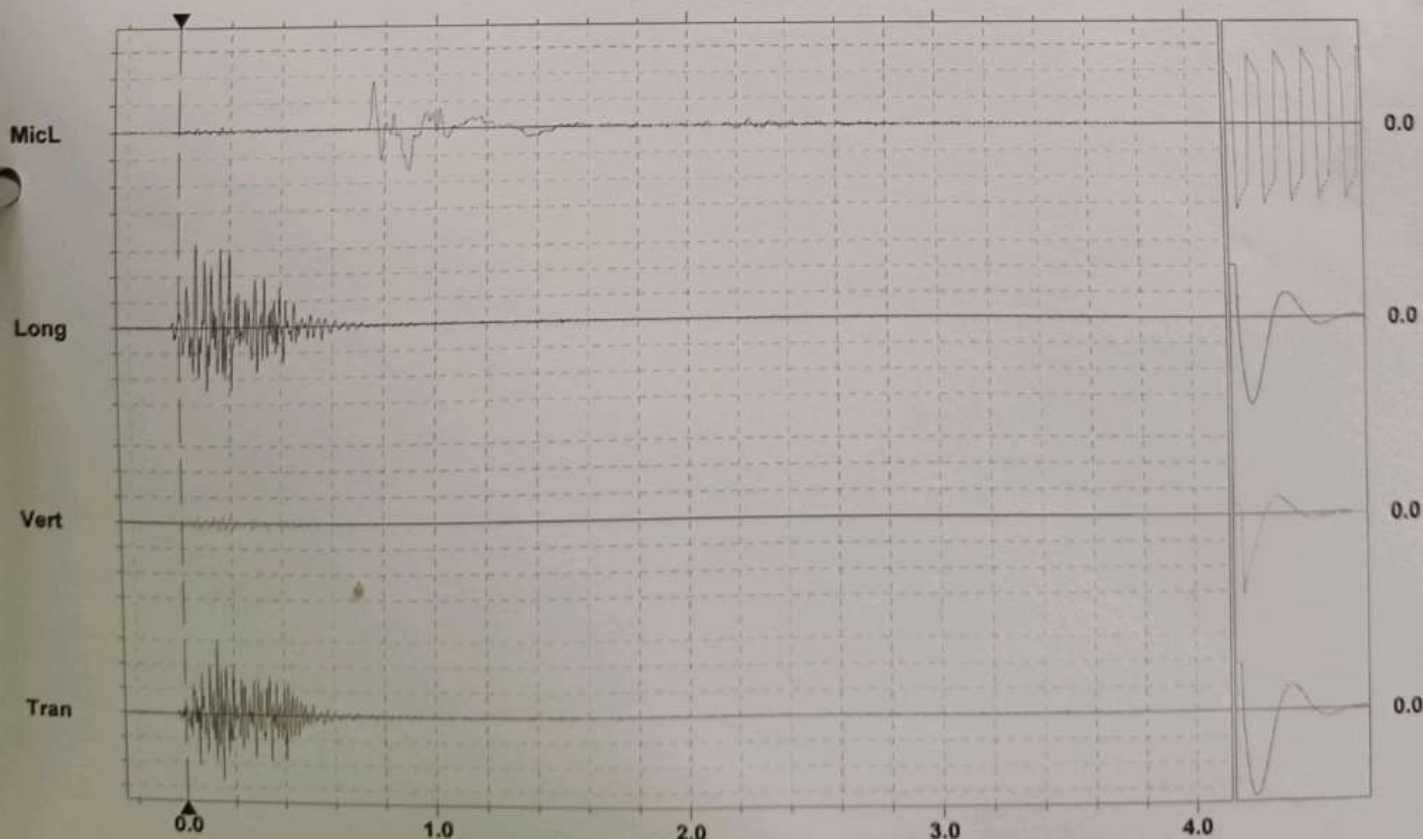
	Tran	Vert	Long	
PPV	3.032	0.365	3.270	mm/s
ZC Freq	73	73	43	Hz
Time (Rel. to Trig)	0.131	0.151	0.067	sec
Peak Acceleration	0.152	0.015	0.111	g
Peak Displacement	0.007	0.002	0.011	mm
Sensor Check	Passed	Check	Passed	
Frequency	7.7	11.8	7.9	Hz
Overswing Ratio	3.5	4.9	3.5	

Peak Vector Sum 3.674 mm/s at 0.165 sec

DGMS India (A)



- a) Industrial Buildings
- b) Domestic houses/structures
- c) Historic objects, sensitive structures



Time Scale: 0.20 sec/div **Amplitude Scale:** Geo: 1.000 mm/s/div Mic: 10.000 pa.(L)/div
Trigger =

Sensor Check

J.K. Cement WORKS, NIMBAHERA (RAJ)
NIMBAHERA - AHIRPURA LIMESTONE MINE (Ahirpura Block)
SIX MONTHLY NOISE MONITORING REPORT
October '2022 to March'2023

Annexure-07

2) NOISE LEVEL MEASUREMENT RESULTS : (ALL VALUES IN dB(A))

Month	Near Mines Gate		Near Mine Water Pump House	
	DAY	NIGHT	DAY	NIGHT
Oct-22	60.2	51.2	63.3	52.4
Nov-22	64.2	54.3	61.3	47.3
Dec-22	60.9	52.2	65.4	51.5
Jan-23	64.3	50.4	62.2	49.6
Feb-23	67.8	52.3	64.2	50.2
Mar-23	62.2	58.6	60.3	51.6



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522600002289	Date :	30-11-2022
Issued To :	M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement ,Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	18-11-2022
Point of Collection :	Near Water Pump , Ahirpura Block	Date of Sample Receipt :	21-11-2022
Date of Test :	21-11-2022 to 30-11-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	59.5	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	44.8	IS 9989	70

Notes :-

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Senior Analyst **Mal Yogi**


Authorized Signatory
Rajesh Maheshwari
(Report No: TC502522600002289)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522600002290	Date :	30-11-2022
Issued To :	M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement , Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	18-11-2022
Point of Collection :	Near Mine Office Ahirpura Block	Date of Sample Receipt :	21-11-2022
Date of Test :	21-11-2022 to 30-11-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	62.4	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	57.2	IS 9989	70

Notes :-

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Purnan Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522600002290)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522600002291	Date :	30-11-2022
Issued To :	M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement ,Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	18-11-2022
Point of Collection :	Near Mine office Murlia Block	Date of Sample Receipt :	21-11-2022
Date of Test :	21-11-2022 to 30-11-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	57.4	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	48.9	IS 9989	70

Notes :-

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[Signature]

Senior Analyst **Rajesh Mal Yogi**

[Signature]

Authorized Signatory
Rajesh Mal Yogi
(Report No: TC502522600002291)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522600002292	Date :	30-11-2022
Issued To :	M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement ,Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	18-11-2022
Point of Collection :	Near Ravana office Murlia Block	Date of Sample Receipt :	21-11-2022
Date of Test :	21-11-2022 to 30-11-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	61.3	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	51.3	IS 9989	70

Notes :-

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Puran Mal Yogi
Senior Analyst

Rakesh Meena
Authorized Signatory
(Report No: TC502522600002292)



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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523600000324	Date :	14-03-2023
Issued To :	M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement , Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	24-02-2023 17:17 to 25-02-2023 17:17
Point of Collection :	Near Water Pump , Ahirpura Block	Date of Receipt :	28-02-2023
Date of Test/Analysis :	28-02-2023 to 13-03-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	59.7	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	48.9	IS 9989	65

Notes :-

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Purni Mal Yogi

Senior Analyst

Balram Agarwal

Authorized Signatory

(Report No: TC502523600000324)



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TEST REPORT

Report No./ULR No. :	TC502523600000325	Date :	14-03-2023
Issued To :	M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement , Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	24-02-2023 17:18 to 25-02-2023 17:18
Point of Collection :	Near Mine Office Ahirpura Block	Date of Receipt :	28-02-2023
Date of Test/Analysis :	28-02-2023 to 13-03-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	60.2	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	52.5	IS 9989	65

Notes :-

- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
- # This report is not to be reproduced wholly or in part and can not be used evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Puran Mal Yogi
Senior Analyst

Authorized Signatory
(Report No: TC502523600000325)



TEAM TEST HOUSE

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RSPCB

ISO 9001:2015,

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ISO 45001:2018 (OH&S)

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TEST REPORT

Report No./ULR No. :	TC502523600000326	Date :	14-03-2023
Issued To :	M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement , Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	24-02-2023 17:20 to 25-02-2023 17:20
Point of Collection :	Near Mine office Murlia Block	Date of Receipt :	28-02-2023
Date of Test/Analysis :	28-02-2023 to 13-03-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	58.2	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	49.0	IS 9989	65

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TEST REPORT

Report No./ULR No. :	TC502523600000327	Date :	14-03-2023
Issued To :	M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement , Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	24-02-2023 17:21 to 25-02-2023 17:21
Point of Collection :	Near Ravana office Murlia Block	Date of Receipt :	28-02-2023
Date of Test/Analysis :	28-02-2023 to 13-03-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	59.3	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	52.2	IS 9989	65

Notes :-

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Pawan Mal Yogi
Senior Analyst


Balram Agarwal
Authorized Signatory
(Report No: TC502523600000327)