

NBH/PC-14/C14/

Through Email

Date: 16.11.2023

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 **April 2023 to September 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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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*	April-2023 to September-2023
Remarks (if any)	Submitting herewith the Six Monthly EC Compliance Report for the period: March-2023 to September-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-Ahirpura Limestone Mine (ML Area: 403.1875 ha.)
M/s. J. K. Cement Works, Villages: Ahirpura & Murlia, Tehsil: Nimbahera, District - Chittorgarh, Rajasthan-312617

EC Compliance Report: April-2023 to September-2023

Proposal for Environmental Clearance under the provision of Notification S.O. 1530 (E) dated 06th 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, 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).

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 55.043 ha with 132629 saplings till FY 2022-23 including safety zone (7.951 ha.). Total plantation done in 16.45 ha in outside the lease area with 31765 nos. of saplings till FY 2022-23. <p>In FY 2023-24</p> <ul style="list-style-type: none"> In 2.9 ha – 2235 nos – Bench plantation (Ahirpura). Total Within Lease Area In 0.21 ha – 520 no's – 7.5m safety zone. In 0.0392 ha – 980 no's – Miyawaki plantation. In 0.5008 ha – 615 no's – Within lease. Total: 3.65 ha with 4350 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 Phacher Ahiran village will be done by the Company.	Budget of Rs. 20.0 Lakh is allotted for Renovation work in Grave yard Phacher 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 Phacher 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 Phacher 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 lab 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 (Civil)	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.

		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	Complied	Agreed, landowners have no any concern.

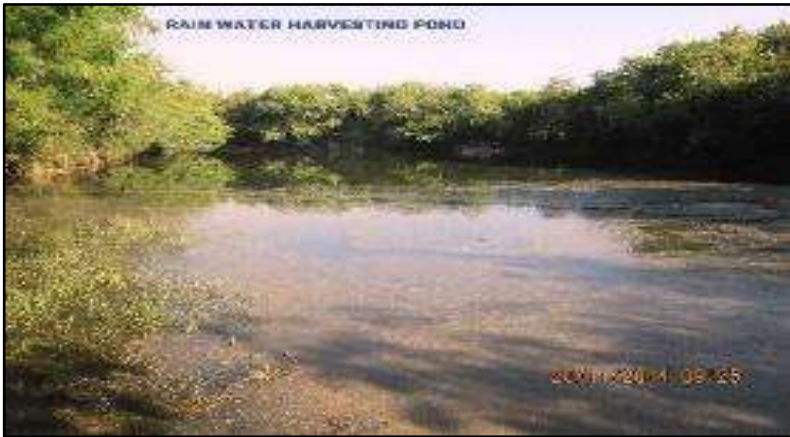

		are not owned by it.		
9.	Statutory Compliance	The project proponent shall follow the mitigation measures provided in MoEF&CC Office Memorandum No. Z-11013/57/2014-IA.II(M), dated 29 th October, 2014, titled "Impact of mining activities on Habitation-issues related to the mining Projects wherein Habitations 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, • Rainwater collected in mine pit and as per requirement of villagers, water is being supplied to nearby villagers during the lean period, • Mask light is being kept in off mode during night period, • Control blasting has been implemented, • Company owns 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, waiting 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 the EC letter is available with the State Pollution control board/committee and web site of the ministry 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.

		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 Lakshmipura. • 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: April-2023 to September-2023 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 not be disturbed. the water table should be nurtured so as	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. To monitor the water level, one online water level recorder with telemetry has been installed and real

		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.		<p>time data is linked shared with CGWA.</p> <ul style="list-style-type: none"> • 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: April-23 to September-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 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	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 Pre- monsoon & Monsoon report is enclosed as <u>Annexure-4.</u>


		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, rainwater 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 wastewater monitoring has been carried out by NABL accredited laboratory.Detail workshop waste water analysis report for the period: April-23 to September-23 is enclosed as <u>Annexure-5</u>.
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 daytime 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 at 300 Mtr. is 2.08 mm/sec for the period: April-23 to September-23, Detail PPV/vibration report is enclosed as <u>Annexure-6</u>.
2.	Noise And Vibration	The illumination and sound at night at project sites disturb the villages in respect of both human and	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	animal population. Consequent and stress may 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 nighttime hence, Mask/Flood Lights are kept on off mode.Detail ambient noise level monitoring report for the period: April-23 to September-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 granted by State Govt. in the form to short term permit (STP), query license or any other name.	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 2023-24 (April-23 to September-23): -<table border="1"><tr><th colspan="4">Detail of Total Excavation (Million TPA) in FY 23-24</th></tr><tr><td>Limestone</td><td>Sub-grade /Mineral Reject</td><td>Inter-burden</td><td>Top Soil</td></tr><tr><td>0.1612</td><td>0.00143</td><td>0.007282</td><td>0.00318</td></tr></table>	Detail of Total Excavation (Million TPA) in FY 23-24				Limestone	Sub-grade /Mineral Reject	Inter-burden	Top Soil	0.1612	0.00143	0.007282	0.00318
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Limestone	Sub-grade /Mineral Reject	Inter-burden	Top Soil													
0.1612	0.00143	0.007282	0.00318													
2.	Mining Plan	The project proponent shall get the final mine closure	Complied	The final mine closure plan will be submitted due course												

		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.		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>157</td><td>129</td><td>8.08</td></tr><tr><td>OB waste</td><td>214</td><td>171</td><td>15</td></tr></table>	Material	Length	Width	Height	Mineral reject	157	129	8.08	OB waste	214	171	15
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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.	Complied	OB and subgrade generated are stacked separately.												

		safety in mining operations shall be strictly adhered to maintain the stability of waste dumps.																									
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><td>Material</td><td>Length</td><td>Width</td><td>Height</td></tr><tr><td>Mineral reject</td><td>157</td><td>129</td><td>8.08</td></tr><tr><td>OB waste</td><td>214</td><td>171</td><td>15</td></tr></table>	Material	Length	Width	Height	Mineral reject	157	129	8.08	OB waste	214	171	15											
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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 drains/sedimentation sumps etc. shall be de-silted regularly, particularly after monsoon season, and maintained properly.	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><td colspan="2">Garland Drain</td><td colspan="2">Dimension</td></tr><tr><td colspan="2">East side of Subgrade and waste dump</td><td colspan="2">Length - 530 m Width - 1.0m Depth - 1.0m</td></tr></table> Constructed one siltation pit with dimension as given below: - <table><tr><td>S. No.</td><td>Length (m)</td><td>Width (m)</td><td>Depth (m)</td><td>Capacity (m3)</td></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></table>	Garland Drain		Dimension		East side of Subgrade and waste dump		Length - 530 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
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Total	1785							
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 - 530 m Width - 1.0 m Depth - 1.0 m</td></tr></table>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 siltation pond should be 486.6 m³.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.	Garland drain	Dimension	East side of Subgrade and waste dump	Length - 530 m Width - 1.0 m Depth - 1.0 m
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East side of Subgrade and waste dump	Length - 530 m Width - 1.0 m Depth - 1.0 m							
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	Complied	There is no storage of top soil, it is directly used for plantation purpose.				

		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.																																																		
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 and regularly monitored. Project should obtain Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centres.	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: April-23 to September-23 is enclosed in below table is enclosed as Annexure-08 <table border="1"><thead><tr><th>S No.</th><th>Vehicle No.</th><th>PUC No.</th><th>Validity</th></tr></thead><tbody><tr><td>1</td><td>RJ09GC0328</td><td>D1007RJ03113279</td><td>05-12-2023</td></tr><tr><td>2</td><td>RJ09GC1128</td><td>D1007RJ03113046</td><td>28-11-2023</td></tr><tr><td>3</td><td>RJ09GC1228</td><td>D1007RJ03113284</td><td>06-06-2024</td></tr><tr><td>4</td><td>RJ09GC1328</td><td>D1007RJ03113109</td><td>29-11-2023</td></tr><tr><td>5</td><td>RJ09GC1428</td><td>D1007RJ03113275</td><td>05-06-2024</td></tr><tr><td>6</td><td>RJ09GC2328</td><td>D1007RJ03113347</td><td>08-12-2023</td></tr><tr><td>7</td><td>RJ09GC2528</td><td>D1007RJ03113017</td><td>27-11-2023</td></tr><tr><td>8</td><td>RJ09GB5028</td><td>D1007RJ03113022</td><td>27-11-2023</td></tr><tr><td>9</td><td>RJ09GB5928</td><td>D1007RJ03113045</td><td>28-11-2023</td></tr><tr><td>10</td><td>RJ09GB2528</td><td>D1007RJ03113277</td><td>05-12-2023</td></tr><tr><td>11</td><td>RJ09GB2728</td><td>D1007RJ03113274</td><td>05-12-2023</td></tr></tbody></table>	S No.	Vehicle No.	PUC No.	Validity	1	RJ09GC0328	D1007RJ03113279	05-12-2023	2	RJ09GC1128	D1007RJ03113046	28-11-2023	3	RJ09GC1228	D1007RJ03113284	06-06-2024	4	RJ09GC1328	D1007RJ03113109	29-11-2023	5	RJ09GC1428	D1007RJ03113275	05-06-2024	6	RJ09GC2328	D1007RJ03113347	08-12-2023	7	RJ09GC2528	D1007RJ03113017	27-11-2023	8	RJ09GB5028	D1007RJ03113022	27-11-2023	9	RJ09GB5928	D1007RJ03113045	28-11-2023	10	RJ09GB2528	D1007RJ03113277	05-12-2023	11	RJ09GB2728	D1007RJ03113274	05-12-2023
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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	Complied	Water spray are being done through water tanker on haul road.																																																

		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.		
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 2022-23. <p>In FY 2023-24</p> <ul style="list-style-type: none"> • In 2.9 ha – 2235 nos – Bench planation (Ahirpura). <p>Total With in Lease Area</p> <ul style="list-style-type: none"> • In 0.21 ha – 520 nos – 7.5m safety zone. • In 0.0392 ha – 980 nos – Miyawaki plantation. • In 0.7108 ha – 615 nos – Within lease. • Total : 0.96 ha with 4350 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 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	Complied	There is no proposal of backfilled, pit shall be used for water storage at conceptual stage.

		made for protection and care of trees.		
3.	Green Belt	The project proponent shall make necessary alternative arrangements for livestock feed by 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 DFO - Chittorgarh against the total amount of WCP of Rs. 285.30/- Cr in July-2021.</p>
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: April-23 to September-23 is given in below table is enclosed as Annexure-09.</p> <table><tr><th>Particular</th><th>Medical Exam. Carried out (in Nos.)</th></tr><tr><td>Persons examined</td><td>06</td></tr><tr><td>Initial Medical Examination</td><td>06</td></tr><tr><td>Periodical Medical Examination</td><td>0</td></tr><tr><td>Disease observed</td><td>NIL</td></tr></table>	Particular	Medical Exam. Carried out (in Nos.)	Persons examined	06	Initial Medical Examination	06	Periodical Medical Examination	0	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 to defecate in open, Women Health and Hygiene (Providing Sanitary Napkins), hazard of tobacco and alcohol use. The Proponent shall carryout base line I-IRA for all the category of workers and thereafter every five years.	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.										
3.	Public Hearing And Human	The Proponent shall carry out Occupational health surveillance which be a part of HRA and include	Complied	Pre-employment medical check-up are being carried out considering the parameter as per DGMS.										

	Health Issues	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).		
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) 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	Complied	Record are being maintained.

		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 implementation of Action Plan shall be submitted to the concerned Regional Office of the Ministry along with District Administration.	Complied	For details reply, kindly refer above Specific Condition No.: 4.
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	Complied	Kindly refer the point no. 4.

		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.		
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 implementation of the stipulated environmental safeguards to the MOEF&CC & its concerned Regional Office, Central Pollution Control Board and State Pollution Control Board.	Complied	Last six monthly EC compliance report has been submitted on 17/05/2023 through email.
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 India/ High Court of Chhattisgarh and any other Court of Law relating to the subject matter.	Complied	Agreed & Noted.
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.

J.K. Cement WORKS, NIMBAHERA (RAJ)
NIMBAHERA - AHIRPURA LIMESTONE MINE (Ahirpura Block)
SIX MONTHLY AMBIENT AIR QUALITY MONITORING REPORT
April '2023 to September'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
Apr-23	72.9	40.9	13.9	22.7	796	83.0	32.0	14.2	25.0	716
May-23	69.0	20.2	11.4	20.0	773	71.9	25.4	15.0	19.8	630
Jun-23	70.7	21.1	13.6	23.3	836	66.9	15.9	17.4	27.0	527
Jul-23	60.5	23.0	8.4	21.4	487	64.7	19.9	9.7	19.6	498
Aug-23	51.5	37.5	8.5	25.5	475	45.2	30.6	8.1	19.6	470
Sep-23	52.8	31.2	7.4	13.6	315	51.3	30.9	6.9	15.5	332
AVERAGE	62.9	29.0	10.5	21.1	614	63.8	25.8	11.9	21.1	529

J.K. Cement WORKS, NIMBAHERA (RAJ)

NIMBAHERA - AHIRPURA LIMESTONE MINE (Murlia block)

SIX MONTHLY AMBIENT AIR QUALITY MONITORING REPORT

April '2023 to September'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
Apr-23	73.2	35.7	15.7	23.8	790	75.0	29.2	16.1	24.8	842
May-23	67.2	30.3	9.2	18.9	658	62.1	27.3	10.0	19.3	882
Jun-23	64.7	41.3	12.7	21.8	722	73.0	33.6	12.2	18.4	739
Jul-23	50.5	19.9	10.2	21.4	430	47.3	33.9	11.2	24.2	573
Aug-23	48.3	27.5	8.3	20.9	453	42.8	29.3	10.2	26.5	493
Sep-23	54.9	29.3	4.4	17.3	258	59.8	33.9	3.6	17.1	361
AVERAGE	59.8	30.7	10.1	20.7	552	60.0	31.2	10.5	21.7	648

Report No. 20230531266/A

Report Issue Date: - 15.06.2023

TEST REPORT

1. Name of Customer : Ahirpura Limestone Mine,
Mine Lease Area (MLA) - 403
M/s J.K. Cement Works Nimbahera,
Tehsil - Nimbahera, District - Chittorgarh,
State- Rajasthan (INDIA),
2. Purchase Order Number : 4600093209 Dated:- 13.06.2023
3. Date & Time of Monitoring : 29.05.2023/08:10AM
4. Sample Identification : Air Sample
5. Condition of Sample : Sealed/Ok
6. Sample Received On : 31.05.2023
7. Period of Analysis : 31.05.2023 to 14.06.2023
8. Name of Location : Near water pump house, Ahirpura block
9. Method of Sampling : IS: 5182(Part 2,6,9,22,23) & Instrument Manual

S. No	Monitoring Details	Unit	Results
1.	Duration of Survey	Minutes	1438
2.	Average Flow rate for PM ₁₀	M ³ / Min	1.18
3.	Ambient Temperature	°C	30.2
4.	Relative Humidity	%	27

Results Ambient Air Quality

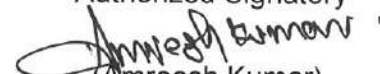
S. No	Parameters	Test Method	Unit	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
Chemical Testing - Atmospheric Pollution - Ambient Air					
1.	PM ₁₀	IS:5182 (Part-23)	µg/m ³	57.41	100
2.	PM _{2.5}	WIL/SOP No. 10/25 Issue date 01.05.2019	µg/m ³	27.65	60
3.	SO ₂	IS:5182 (Part-2)	µg/m ³	BDL(<6)	80
4.	NO ₂	IS:5182 (Part-6)	µg/m ³	11.20	80
5.	Ozone as O ₃	IS:5182 (Part-9)	µg/m ³	BDL(<20)	100
6.	NH ₃	CPCB manual & 401-Method Air sampling & analysis, 3rd Edition	µg/m ³	20.10	400
7.	Lead	IS:5182 (Part-22)	µg/m ³	BDL(<0.05)	1 (24 hour average)
8.	Nickel	CPCB Guidelines 1988	ng/m ³	BDL(<4)	20 (Annual average)

BDL- Below Detection Limit

Tested By

(Leena Sharma)
Chemist

Authorized Signatory


(Amreesh Kumar)
Lab Incharge

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

Note

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Page 1 of 1

End of Report

Registered & Corporate Office :

"Wolkem House", E-101, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan-India

Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

CIN- U29299RJ1971PLC001379



TC-5941

Our Commitment.. Your Trust



Report No. 20230531266/B

Report Issue Date: - 15.06.2023

TEST REPORT

1. Name of Customer : Ahirpura Limestone Mine,
Mine Lease Area (MLA) - 403
M/s J.K. Cement Works Nimbahera,
Tehsil - Nimbahera, District - Chittorgarh,
State- Rajasthan (INDIA),
2. Purchase Order Number : 4600093209 Dated:- 13.06.2023
3. Date & Time of Monitoring : 29.05.2023/08:10AM
4. Sample Identification : Air Sample
5. Condition of Sample : Sealed/Ok
6. Sample Received On : 31.05.2023
7. Period of Analysis : 31.05.2023 to 14.06.2023
8. Name of Location : Near water pump house, Ahirpura block
9. Method of Sampling : IS: 5182(Part 11, 12) & Instrument Manual

S. No	Monitoring Details	Unit	Results
1.	Ambient Temperature	°C	30.2
2.	Relative Humidity	%	27

Results Ambient Air Quality

S. No	Parameters	Test Method	Unit	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
Chemical Testing - Atmospheric Pollution - Ambient Air					
1.	CO	BY CO Meter	mg/m ³	0.29	04 (1 hour)
2.	Benzo(a)pyrene	IS:5182 (Part-12) NAAQS Guideline	ng/m ³	BDL(<0.01)	1 (Annual average)
3.	Arsenic	CPCB Guideline 2011	ng/m ³	BDL(<3)	6 (Annual average)
4.	Benzene	IS:5182 (Part-11) NAAQS Guideline	µg/m ³	BDL(<0.01)	5 (Annual average)

BDL- Below Detection Limit

Tested By

Leena
(Leena Sharma)
Chemist

Authorized Signatory

Amreesh Kumar
(Amreesh Kumar)
Lab Incharge

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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Page 1 of 1
End of Report

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Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

CIN- U29299RJ1971PLC001379



Certificate No.
01130126322

Our Commitment.. Your Trust

Report No. 20230531267/A

Report Issue Date: - 15.06.2023

TEST REPORT

1. Name of Customer : Ahirpura Limestone Mine,
Mine Lease Area (MLA) - 403
M/s J.K. Cement Works Nimbahera,
Tehsil - Nimbahera, District – Chittorgarh,
State- Rajasthan (INDIA),
2. Purchase Order Number : 4600093209 Dated:- 13.06.2023
3. Date & Time of Monitoring : 29.05.2023/08:45AM
4. Sample Identification : Air Sample
5. Condition of Sample : Sealed/Ok
6. Sample Received On : 31.05.2023
7. Period of Analysis : 31.05.2023 to 14.06.2023
8. Name of Location : Near Mine Office, Ahirpura block
9. Method of Sampling : IS: 5182(Part 2,6,9,22,23) & Instrument Manual

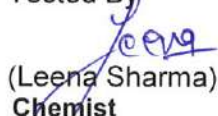
S. No	Monitoring Details	Unit	Results
1.	Duration of Survey	Minutes	1439
2.	Average Flow rate for PM ₁₀	M ³ / Min	1.175
3.	Ambient Temperature	°C	30.7
4.	Relative Humidity	%	26

Results Ambient Air Quality

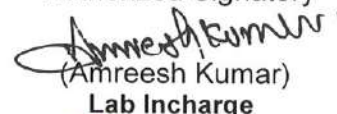
S. No	Parameters	Test Method	Unit	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
Chemical Testing - Atmospheric Pollution - Ambient Air					
1.	PM ₁₀	IS:5182 (Part-23)	µg/m ³	58.34	100
2.	PM _{2.5}	WIL/SOP No. 10/25 Issue date 01.05.2019	µg/m ³	28.05	60
3.	SO ₂	IS:5182 (Part-2)	µg/m ³	BDL(<6)	80
4.	NO ₂	IS:5182 (Part-6)	µg/m ³	11.67	80
5.	Ozone as O ₃	IS:5182 (Part-9)	µg/m ³	BDL(<20)	100
6.	NH ₃	CPCB manual & 401-Method Air sampling & analysis, 3rd Edition	µg/m ³	20.48	400
7.	Lead	IS:5182 (Part-22)	µg/m ³	BDL(<0.05)	1 (24 hour average)
8.	Nickel	CPCB Guidelines 1988	ng/m ³	BDL(<4)	20 (Annual average)

BDL- Below Detection Limit

Tested By


(Leena Sharma)
Chemist

Authorized Signatory


(Amreesh Kumar)
Lab Incharge

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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Report No. 20230531267/B

Report Issue Date: - 15.06.2023

TEST REPORT

1. Name of Customer : Ahirpura Limestone Mine,
Mine Lease Area (MLA) - 403
M/s J.K. Cement Works Nimbahera,
Tehsil - Nimbahera, District – Chittorgarh,
State- Rajasthan (INDIA),
2. Purchase Order Number : 4600093209 Dated:- 13.06.2023
3. Date & Time of Monitoring : 29.05.2023/08:45AM
4. Sample Identification : Air Sample
5. Condition of Sample : Sealed/Ok
6. Sample Received On : 31.05.2023
7. Period of Analysis : 31.05.2023 to 14.06.2023
8. Name of Location : Near Mine Office, Ahirpura block
9. Method of Sampling : IS: 5182(Part 11, 12) & Instrument Manual

S. No	Monitoring Details	Unit	Results
1.	Ambient Temperature	°C	30.7
2.	Relative Humidity	%	26

Results Ambient Air Quality

S. No	Parameters	Test Method	Unit	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
Chemical Testing - Atmospheric Pollution - Ambient Air					
1.	CO	BY CO Meter	mg/m ³	0.31	04 (1 hour)
2.	Benzo(a)pyrene	IS:5182 (Part-12) NAAQS Guideline	ng/m ³	BDL(<0.01)	1 (Annual average)
3.	Arsenic	CPCB Guideline 2011	ng/m ³	BDL(<3)	6 (Annual average)
4.	Benzene	IS:5182 (Part-11) NAAQS Guideline	µg/m ³	BDL(<0.01)	5 (Annual average)

BDL- Below Detection Limit

Tested By

(Leena Sharma)
Chemist

Authorized Signatory

Amreesh Kumar
(Amreesh Kumar)
Lab Incharge

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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Page 1 of 1

End of Report

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Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

CIN- U29299RJ1971PLC001379



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Certificate No.
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TEST REPORT

1. Name of Customer : Ahirpura Limestone Mine,
Mine Lease Area (MLA) - 403
M/s J.K. Cement Works Nimbahera,
Tehsil - Nimbahera, District – Chittorgarh,
State- Rajasthan (INDIA),
2. Purchase Order Number : 4600093209 Dated:- 13.06.2023
3. Date & Time of Monitoring : 29.05.2023/09:40AM
4. Sample Identification : Air Sample
5. Condition of Sample : Sealed/Ok
6. Sample Received On : 31.05.2023
7. Period of Analysis : 31.05.2023 to 14.06.2023
8. Name of Location : Near Mine Office, Murlia block
9. Method of Sampling : IS: 5182(Part 2,6,9,22,23) & Instrument Manual

S. No	Monitoring Details	Unit	Results
1.	Duration of Survey	Minutes	1437
2.	Average Flow rate for PM ₁₀	M ³ / Min	1.195
3.	Ambient Temperature	°C	31.1
4.	Relative Humidity	%	27

Results Ambient Air Quality

S. No	Parameters	Test Method	Unit	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
Chemical Testing - Atmospheric Pollution - Ambient Air					
1.	PM ₁₀	IS:5182 (Part-23)	µg/m ³	59.06	100
2.	PM _{2.5}	WIL/SOP No. 10/25 Issue date 01.05.2019	µg/m ³	32.70	60
3.	SO ₂	IS:5182 (Part-2)	µg/m ³	BDL(<6)	80
4.	NO ₂	IS:5182 (Part-6)	µg/m ³	13.09	80
5.	Ozone as O ₃	IS:5182 (Part-9)	µg/m ³	BDL(<20)	100
6.	NH ₃	CPCB manual & 401-Method Air sampling & analysis, 3rd Edition	µg/m ³	23.20	400
7.	Lead	IS:5182 (Part-22)	µg/m ³	BDL(<0.05)	1 (24 hour average)
8.	Nickel	CPCB Guidelines 1988	ng/m ³	BDL(<4)	20 (Annual average)

BDL- Below Detection Limit

Tested By

(Leena Sharma)
Chemist

Authorized Signatory

(Amreesh Kumar)
Lab Incharge

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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Report No. 20230531268/B

Report Issue Date: - 15.06.2023

TEST REPORT

1. Name of Customer : Ahirpura Limestone Mine,
Mine Lease Area (MLA) - 403
M/s J.K. Cement Works Nimbahera,
Tehsil - Nimbahera, District - Chittorgarh,
State- Rajasthan (INDIA),
2. Purchase Order Number : 4600093209 Dated:- 13.06.2023
3. Date & Time of Monitoring : 29.05.2023/09:40AM
4. Sample Identification : Air Sample
5. Condition of Sample : Sealed/Ok
6. Sample Received On : 31.05.2023
7. Period of Analysis : 31.05.2023 to 14.06.2023
8. Name of Location : Near Mine Office, Murlia block
9. Method of Sampling : IS: 5182(Part 11, 12) & Instrument Manual

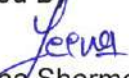
S. No	Monitoring Details	Unit	Results
1.	Ambient Temperature	°C	31.1
2.	Relative Humidity	%	27

Results Ambient Air Quality

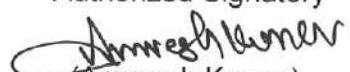
S. No	Parameters	Test Method	Unit	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
Chemical Testing - Atmospheric Pollution - Ambient Air					
1.	CO	BY CO Meter	mg/m ³	0.30	04 (1 hour)
2.	Benzo(a)pyrene	IS:5182 (Part-12) NAAQS Guideline	ng/m ³	BDL(<0.01)	1 (Annual average)
3.	Arsenic	CPCB Guideline 2011	ng/m ³	BDL(<3)	6 (Annual average)
4.	Benzene	IS:5182 (Part-11) NAAQS Guideline	µg/m ³	BDL(<0.01)	5 (Annual average)

BDL- Below Detection Limit

Tested By


(Leena Sharma)
Chemist

Authorized Signatory


(Amreesh Kumar)
Lab Incharge

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

Note

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Page 1 of 1
End of Report

Registered & Corporate Office :

"Wolkem House", E-101, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan-India

Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

CIN- U29299RJ1971PLC001379


Certificate No.
01130126322

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TEST REPORT

1. **Name of Customer** : Ahirpura Limestone Mine,
Mine Lease Area (MLA) - 403
M/s J.K. Cement Works Nimbahera,
Tehsil - Nimbahera, District - Chittorgarh,
State- Rajasthan (INDIA),
2. **Purchase Order Number** : 4600093209 Dated:- 13.06.2023
3. **Date & Time of Monitoring** : 29.05.2023/10:50AM
4. **Sample Identification** : Air Sample
5. **Condition of Sample** : Sealed/Ok
6. **Sample Received On** : 31.05.2023
7. **Period of Analysis** : 31.05.2023 to 14.06.2023
8. **Name of Location** : Near Ravana Office, Murlia block
9. **Method of Sampling** : IS: 5182(Part 2,6,9,22,23) & Instrument Manual

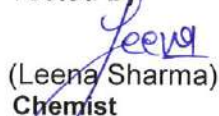
S. No	Monitoring Details	Unit	Results
1.	Duration of Survey	Minutes	1439.6
2.	Average Flow rate for PM ₁₀	M ³ / Min	1.185
3.	Ambient Temperature	°C	31.9
4.	Relative Humidity	%	25

Results Ambient Air Quality

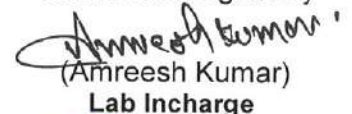
S. No	Parameters	Test Method	Unit	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
Chemical Testing - Atmospheric Pollution - Ambient Air					
1.	PM ₁₀	IS:5182 (Part-23)	µg/m ³	64.50	100
2.	PM _{2.5}	WIL/SOP No. 10/25 Issue date 01.05.2019	µg/m ³	26.36	60
3.	SO ₂	IS:5182 (Part-2)	µg/m ³	BDL(<6)	80
4.	NO ₂	IS:5182 (Part-6)	µg/m ³	12.18	80
5.	Ozone as O ₃	IS:5182 (Part-9)	µg/m ³	BDL(<20)	100
6.	NH ₃	CPCB manual & 401-Method Air sampling & analysis, 3rd Edition	µg/m ³	23.21	400
7.	Lead	IS:5182 (Part-22)	µg/m ³	BDL(<0.05)	1 (24 hour average)
8.	Nickel	CPCB Guidelines 1988	ng/m ³	BDL(<4)	20 (Annual average)

BDL- Below Detection Limit

Tested By


(Leena Sharma)
Chemist

Authorized Signatory


(Amreesh Kumar)
Lab Incharge

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

Note

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Report No. 20230531269/B

Report Issue Date: - 15.06.2023

TEST REPORT

1. Name of Customer : Ahirpura Limestone Mine,
Mine Lease Area (MLA) - 403
M/s J.K. Cement Works Nimbahera,
Tehsil - Nimbahera, District - Chittorgarh,
State- Rajasthan (INDIA),
2. Purchase Order Number : 4600093209 Dated:- 13.06.2023
3. Date & Time of Monitoring : 29.05.2023/10:50AM
4. Sample Identification : Air Sample
5. Condition of Sample : Sealed/Ok
6. Sample Received On : 31.05.2023
7. Period of Analysis : 31.05.2023 to 14.06.2023
8. Name of Location : Near Ravana Office, Murlia block
9. Method of Sampling : IS: 5182(Part 11, 12) & Instrument Manual

S. No	Monitoring Details	Unit	Results
1.	Ambient Temperature	°C	31.9
2.	Relative Humidity	%	25

Results Ambient Air Quality

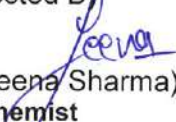
S. No	Parameters	Test Method	Unit	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
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Chemical Testing - Atmospheric Pollution - Ambient Air


1.	CO	BY CO Meter	mg/m ³	0.32	04 (1 hour)
2.	Benzo(a)pyrene	IS:5182 (Part-12) NAAQS Guideline	ng/m ³	BDL(<0.01)	1 (Annual average)
3.	Arsenic	CPCB Guideline 2011	ng/m ³	BDL(<3)	6 (Annual average)
4.	Benzene	IS:5182 (Part-11) NAAQS Guideline	µg/m ³	BDL(<0.01)	5 (Annual average)

BDL- Below Detection Limit

Tested By


(Leena Sharma)
Chemist

Authorized Signatory


(Amreesh Kumar)

Lab Incharge

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

Note

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4. The samples will be destroyed after 15 days from the date of issue of test certificate unless otherwise specified.
5. Any discrepancy in test results should be reported within 15 days.

Page 1 of 1
End of Report

Registered & Corporate Office :

"Wolkem House", E-101, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan-India
Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

CIN- U29299RJ1971PLC001379



OHSAS
Certificate No.
01130126322

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TEST REPORT

1. Name of Customer : Ahirpura Limestone Mine,
Mine Lease Area (MLA) - 403
M/s J.K. Cement Works Nimbahera,
Tehsil - Nimbahera, District - Chittorgarh,
State- Rajasthan (INDIA),
2. Purchase Order Number : 4600093209 Dated:- 13.06.2023
3. Date & Time of Monitoring : 29.05.2023/01:25PM
4. Sample Identification : Air Sample
5. Condition of Sample : Sealed/Ok
6. Sample Received On : 31.05.2023
7. Period of Analysis : 31.05.2023 to 14.06.2023
8. Name of Location : Murlia Village
9. Method of Sampling : IS: 5182(Part 2,6,9,22,23) & Instrument Manual

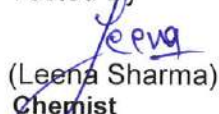
S. No	Monitoring Details	Unit	Results
1.	Duration of Survey	Minutes	1428.6
2.	Average Flow rate for PM ₁₀	M ³ / Min	1.16
3.	Ambient Temperature	°C	33.5
4.	Relative Humidity	%	29

Results Ambient Air Quality

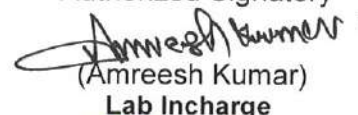
S. No	Parameters	Test Method	Unit	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
Chemical Testing - Atmospheric Pollution - Ambient Air					
1.	PM ₁₀	IS:5182 (Part-23)	µg/m ³	55.04	100
2.	PM _{2.5}	WIL/SOP No. 10/25 Issue date 01.05.2019	µg/m ³	30.78	60
3.	SO ₂	IS:5182 (Part-2)	µg/m ³	BDL(<6)	80
4.	NO ₂	IS:5182 (Part-6)	µg/m ³	10.70	80
5.	Ozone as O ₃	IS:5182 (Part-9)	µg/m ³	BDL(<20)	100
6.	NH ₃	CPCB manual & 401-Method Air sampling & analysis, 3rd Edition	µg/m ³	21.65	400
7.	Lead	IS:5182 (Part-22)	µg/m ³	BDL(<0.05)	1 (24 hour average)
8.	Nickel	CPCB Guidelines 1988	ng/m ³	BDL(<4)	20 (Annual average)

BDL- Below Detection Limit

Tested By


(Leena Sharma)
Chemist

Authorized Signatory


(Amreesh Kumar)
Lab Incharge

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

Note

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Report No. 20230531272/B

Report Issue Date: - 15.06.2023

TEST REPORT

1. Name of Customer : Ahirpura Limestone Mine,
Mine Lease Area (MLA) - 403
M/s J.K. Cement Works Nimbahera,
Tehsil - Nimbahera, District - Chittorgarh,
State- Rajasthan (INDIA),
2. Purchase Order Number : 4600093209 Dated:- 13.06.2023
3. Date & Time of Monitoring : 29.05.2023/01:25PM
4. Sample Identification : Air Sample
5. Condition of Sample : Sealed/Ok
6. Sample Received On : 31.05.2023
7. Period of Analysis : 31.05.2023 to 14.06.2023
8. Name of Location : Murlia Village
9. Method of Sampling : IS: 5182(Part 11, 12) & Instrument Manual

S. No	Monitoring Details	Unit	Results
1.	Ambient Temperature	°C	33.5
2.	Relative Humidity	%	29

Results Ambient Air Quality

S. No	Parameters	Test Method	Unit	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
Chemical Testing - Atmospheric Pollution - Ambient Air					
1.	CO	BY CO Meter	mg/m ³	0.31	04 (1 hour)
2.	Benzo(a)pyrene	IS:5182 (Part-12) NAAQS Guideline	ng/m ³	BDL(<0.01)	1 (Annual average)
3.	Arsenic	CPCB Guideline 2011	ng/m ³	BDL(<3)	6 (Annual average)
4.	Benzene	IS:5182 (Part-11) NAAQS Guideline	µg/m ³	BDL(<0.01)	5 (Annual average)

BDL- Below Detection Limit

Tested By

(Leena Sharma)
Chemist

Authorized Signatory

(Amreesh Kumar)
Lab Incharge

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

Note

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5. Any discrepancy in test results should be reported within 15 days.

Page 1 of 1

End of Report

Registered & Corporate Office :

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Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

CIN- U29299RJ1971PLC001379



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TEST REPORT

1. **Name of Customer** : Ahirpura Limestone Mine,
Mine Lease Area (MLA) - 403
M/s J.K. Cement Works Nimbahera,
Tehsil - Nimbahera, District - Chittorgarh,
State- Rajasthan (INDIA),
2. **Purchase Order Number** : 4600093209 Dated:- 13.06.2023
3. **Date & Time of Monitoring** : 29.05.2023/02:45PM
4. **Sample Identification** : Air Sample
5. **Condition of Sample** : Sealed/Ok
6. **Sample Received On** : 31.05.2023
7. **Period of Analysis** : 31.05.2023 to 14.06.2023
8. **Name of Location** : Ahirpura Village
9. **Method of Sampling** : IS: 5182(Part 2,6,9,22,23) & Instrument Manual

S. No	Monitoring Details	Unit	Results
1.	Duration of Survey	Minutes	1432.6
2.	Average Flow rate for PM ₁₀	M ³ / Min	1.195
3.	Ambient Temperature	°C	34.2
4.	Relative Humidity	%	29

Results Ambient Air Quality

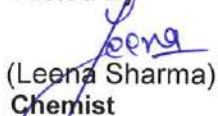
S. No	Parameters	Test Method	Unit	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
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Chemical Testing - Atmospheric Pollution - Ambient Air

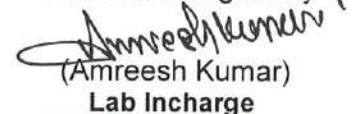
1.	PM ₁₀	IS:5182 (Part-23)	µg/m ³	53.40	100
2.	PM _{2.5}	WIL/SOP No. 10/25 Issue date 01.05.2019	µg/m ³	31.12	60
3.	SO ₂	IS:5182 (Part-2)	µg/m ³	BDL(<6)	80
4.	NO ₂	IS:5182 (Part-6)	µg/m ³	9.64	80
5.	Ozone as O ₃	IS:5182 (Part-9)	µg/m ³	BDL(<20)	100
6.	NH ₃	CPCB manual & 401-Method Air sampling & analysis, 3rd Edition	µg/m ³	24.84	400
7.	Lead	IS:5182 (Part-22)	µg/m ³	BDL(<0.05)	1 (24 hour average)
8.	Nickel	CPCB Guidelines 1988	ng/m ³	BDL(<4)	20 (Annual average)

BDL- Below Detection Limit

Tested By


(Leena Sharma)
Chemist

Authorized Signatory


(Amreesh Kumar)
Lab Incharge

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

Note

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Report No. 20230531273/B

Report Issue Date: - 15.06.2023

TEST REPORT

1. Name of Customer : Ahirpura Limestone Mine,
Mine Lease Area (MLA) - 403
M/s J.K. Cement Works Nimbahera,
Tehsil - Nimbahera, District – Chittorgarh,
State- Rajasthan (INDIA),
2. Purchase Order Number : 4600093209 Dated:- 13.06.2023
3. Date & Time of Monitoring : 29.05.2023/02:45PM
4. Sample Identification : Air Sample
5. Condition of Sample : Sealed/Ok
6. Sample Received On : 31.05.2023
7. Period of Analysis : 31.05.2023 to 14.06.2023
8. Name of Location : Ahirpura Village
9. Method of Sampling : IS: 5182(Part 11, 12) & Instrument Manual

S. No	Monitoring Details	Unit	Results
1.	Ambient Temperature	°C	34.2
2.	Relative Humidity	%	29

Results Ambient Air Quality

S. No	Parameters	Test Method	Unit	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
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Chemical Testing - Atmospheric Pollution - Ambient Air

1.	CO	BY CO Meter	mg/m ³	0.36	04 (1 hour)
2.	Benzo(a)pyrene	IS:5182 (Part-12) NAAQS Guideline	ng/m ³	BDL(<0.01)	1 (Annual average)
3.	Arsenic	CPCB Guideline 2011	ng/m ³	BDL(<3)	6 (Annual average)
4.	Benzene	IS:5182 (Part-11) NAAQS Guideline	µg/m ³	BDL(<0.01)	5 (Annual average)

BDL- Below Detection Limit

Tested By

(Leena Sharma)
Chemist

Authorized Signatory

(Amreesh Kumar)
(Amreesh Kumar)

Lab Incharge

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

Note

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Page 1 of 1
End of Report

Registered & Corporate Office :

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Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

CIN- U29299RJ1971PLC001379



OHSAS

Certificate No.
01130126322

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FORM - X
RAJASTHAN STATE POLLUTION CONTROL BOARD
REPORT OF THE STATE BOARD ANALYST
(See Rule - 10)
Final Report

Report No. : **7060**

Report On : **28/07/2023**

I hereby certify that I **Dr Giriraj Kumar Songara**, State Board Analyst duly appointed **under sub Section(2) of Section 29 of the Air (Prevention & Control of Pollution) Act, 1981** received on the **14/07/2023** from **Surya Pratap Meena, JSO, Chittorgarh ,RSPCB Chittorgarh** a sample of **Ambient Air Quality of M/S J.K.Cement Works , Plant - J.K. Cement Works [190] ,Nimbahera, Kailash Nagar , City- Ahirpura Tehsil- Nimbahera , District- Chittorgarh M.L No- 2/97** Collected from **Ambient Air Quality Monitoring near Mine office (Murliya Block)** Collected on **14/07/2023**. The Sample was in a condition fit for analysis as reported below :-

I further certify that I have analyzed the aforementioned sample on **28/07/2023** and declare the result of the analysis to be as below :-

S. No.	Parameters	Result
1	Nitrogen Dioxide as NO ₂ µg/M ³	18.4
2	Particulate Matter (PM ₁₀) µg/m ³	69
3	PM 2.5 ug/m ³	23
4	Sulphur Dioxide as SO ₂ ug/m ³	6.6

The condition of the seals, fastening and container on receipt was as follows : **Intact**

Signed This On **28/07/2023**


BOARD ANALYST

Rajasthan State Pollution Control Board
Regional Office Chittorgarh
Near FCI Godown, Chanderia, Chittorgarh
Phone:01472-255077

FORM - X
RAJASTHAN STATE POLLUTION CONTROL BOARD
REPORT OF THE STATE BOARD ANALYST
(See Rule - 10)
Final Report

Report No. : **7061**

Report On : **28/07/2023**

I hereby certify that I **Dr Giriraj Kumar Songara**, State Board Analyst duly appointed **under sub Section(2) of Section 29 of the Air (Prevention & Control of Pollution) Act, 1981** received on the **14/07/2023** from **Surya Pratap Meena, JSO, Chittorgarh ,RSPCB Chittorgarh** a sample of **Ambient Air Quality of M/S J.K.Cement Works , Plant - J.K. Cement Works [190] ,Nimbahera, Kailash Nagar , City- Ahirpura Tehsil- Nimbahera , District- Chittorgarh M.L No- 2/97** Collected from **Ambient Air Quality Monitoring near Rawana Office (Murliya Block)** Collected on **14/07/2023**. The Sample was in a condition fit for analysis as reported below :-

I further certify that I have analyzed the aforementioned sample on **28/07/2023** and declare the result of the analysis to be as below :-

S. No.	Parameters	Result
1	Nitrogen Dioxide as NO ₂ µg/M ³	21.5
2	Particulate Matter (PM ₁₀) µg/m ³	70
3	PM 2.5 ug/m ³	28
4	Sulphur Dioxide as SO ₂ ug/m ³	6.2

The condition of the seals, fastening and container on receipt was as follows : **Intact**

Signed This On **28/07/2023**


BOARD ANALYST

Rajasthan State Pollution Control Board
Regional Office Chittorgarh
Near FCI Godown, Chanderia, Chittorgarh
Phone:01472-255077

FORM - X
RAJASTHAN STATE POLLUTION CONTROL BOARD
REPORT OF THE STATE BOARD ANALYST
(See Rule - 10)
Final Report

Report No. : **7062**

Report On : **28/07/2023**

I hereby certify that I **Dr Giriraj Kumar Songara**, State Board Analyst duly appointed **under sub Section(2) of Section 29 of the Air (Prevention & Control of Pollution) Act, 1981** received on the **14/07/2023** from **Surya Pratap Meena, JSO, Chittorgarh ,RSPCB Chittorgarh** a sample of **Ambient Air Quality of M/S J.K.Cement Works , Plant - J.K. Cement Works [190] ,Nimbahera, Kailash Nagar , City- Ahirpura Tehsil- Nimbahera , District- Chittorgarh M.L No- 2/97** Collected from **Ambient Air Quality Monitoring near Mine office (Ahirpura Mine)** Collected on **14/07/2023**. The Sample was in a condition fit for analysis as reported below :-

I further certify that I have analyzed the aforementioned sample on **28/07/2023** and declare the result of the analysis to be as below :-

S. No.	Parameters	Result
1	Nitrogen Dioxide as NO ₂ µg/M ³	19.4
2	Particulate Matter (PM ₁₀) µg/m ³	78
3	PM 2.5 ug/m ³	32
4	Sulphur Dioxide as SO ₂ ug/m ³	6.8

The condition of the seals, fastening and container on receipt was as follows : **Intact**

Signed This On **28/07/2023**


BOARD ANALYST

Rajasthan State Pollution Control Board
Regional Office Chittorgarh
Near FCI Godown, Chanderia, Chittorgarh
Phone:01472-255077

FORM - X
RAJASTHAN STATE POLLUTION CONTROL BOARD
REPORT OF THE STATE BOARD ANALYST
(See Rule - 10)
Final Report

Report No. : **7063**

Report On : **28/07/2023**


I hereby certify that I **Dr Giriraj Kumar Songara**, State Board Analyst duly appointed **under sub Section(2) of Section 29 of the Air (Prevention & Control of Pollution) Act, 1981** received on the **14/07/2023** from **Surya Pratap Meena, JSO, Chittorgarh ,RSPCB Chittorgarh** a sample of **Ambient Air Quality of M/S J.K.Cement Works , Plant - J.K. Cement Works [190] ,Nimbahera, Kailash Nagar , City- Ahirpura Tehsil- Nimbahera , District- Chittorgarh M.L No- 2/97** Collected from **Ambient Air Quality Monitoring near pump house (Ahirpura Mine)** Collected on **14/07/2023**. The Sample was in a condition fit for analysis as reported below :-

I further certify that I have analyzed the aforementioned sample on **28/07/2023** and declare the result of the analysis to be as below :-

S. No.	Parameters	Result
1	Nitrogen Dioxide as NO ₂ µg/M ³	19.5
2	Particulate Matter (PM ₁₀) µg/m ³	72
3	PM 2.5 ug/m ³	30
4	Sulphur Dioxide as SO ₂ ug/m ³	6.9

The condition of the seals, fastening and container on receipt was as follows : **Intact**

Signed This On **28/07/2023**


BOARD ANALYST

Rajasthan State Pollution Control Board
Regional Office Chittorgarh
Near FCI Godown, Chanderia, Chittorgarh
Phone:01472-255077

Report No. 20230915017/A

Report Issue Date: - 26.09.2023

TEST REPORT

1. Name of Customer : Ahirpura Limestone Mine,
Mine Lease Area (MLA) – 2/97
M/s J.K. Cement Works Nimbahera,
Tehsil - Nimbahera, District – Chittorgarh,
State- Rajasthan (INDIA),
2. Purchase Order Number : 4600093209 Dated:- 13.06.2023
3. Date & Time of Monitoring : 11.09.2023/03:45PM
4. Sample Identification : Air Sample
5. Condition of Sample : Sealed/Ok
6. Sample Received On : 15.09.2023
7. Period of Analysis : 15.09.2023 to 25.09.2023
8. Name of Location : Ahirpura Village
9. Method of Sampling : IS: 5182(Part 2,6,9,22,23) & Instrument Manual

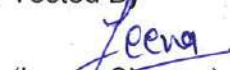
S. No	Monitoring Details	Unit	Results
1.	Duration of Survey	Minutes	1442.6
2.	Average Flow rate for PM ₁₀	M ³ / Min	1.16
3.	Ambient Temperature	°C	34.2
4.	Relative Humidity	%	56

Results Ambient Air Quality

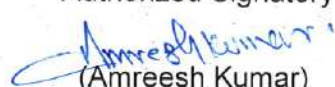
S. No	Parameters	Test Method	Unit	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
Chemical Testing - Atmospheric Pollution – Ambient Air					
1.	PM ₁₀	IS:5182 (Part-23)	µg/m ³	50.11	100
2.	PM _{2.5}	WIL/SOP No. 10/25 Issue date 01.05.2019	µg/m ³	25.47	60
3.	SO ₂	IS:5182 (Part-2)	µg/m ³	BDL(<6)	80
4.	NO ₂	IS:5182 (Part-6)	µg/m ³	8.59	80

BDL- Below Detection Limit

Tested By


(Leena Sharma)
Chemist

Authorized Signatory


(Amreesh Kumar)
Head & Dy. GM
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

Note

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Page 1 of 1

End of Report

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CIN- U29299RJ1971PLC001379



TC-5941

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Report No. 20230915017/B

Report Issue Date: - 26.09.2023

TEST REPORT

1. Name of Customer : Ahirpura Limestone Mine,
Mine Lease Area (MLA) – 2/97
M/s J.K. Cement Works Nimbahera,
Tehsil - Nimbahera, District – Chittorgarh,
State- Rajasthan (INDIA),
2. Purchase Order Number : 4600093209 Dated:- 13.06.2023
3. Date & Time of Monitoring : 11.09.2023/03:45PM
4. Sample Identification : Air Sample
5. Condition of Sample : Sealed/Ok
6. Sample Received On : 15.09.2023
7. Period of Analysis : 15.09.2023 to 25.09.2023
8. Name of Location : Ahirpura Village
9. Method of Sampling : Instrument Manual

S. No	Monitoring Details	Unit	Results
1.	Ambient Temperature	°C	34.2
2.	Relative Humidity	%	56

Results Ambient Air Quality

S. No	Parameters	Test Method	Unit	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
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Chemical Testing - Atmospheric Pollution – Ambient Air

1.	CO	BY CO Meter	mg/m ³	0.32	04 (1 hour)
----	----	-------------	-------------------	------	-------------

BDL- Below Detection Limit

Tested By

(Leena Sharma)
Chemist

Authorized Signatory

(Amreesh Kumar)
Head & Dy. GM

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

Note

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Page 1 of 1
End of Report

Registered & Corporate Office :

"Wolkem House", E-101, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan-India

Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

CIN- U29299RJ1971PLC001379



OHSAS
Certificate No.
01130126322

Our Commitment.. Your Trust

Report No. 20230915018/A

Report Issue Date: - 26.09.2023

TEST REPORT

1. **Name of Customer** : Ahirpura Limestone Mine,
Mine Lease Area (MLA) – 2/97
M/s J.K. Cement Works Nimbahera,
Tehsil - Nimbahera, District – Chittorgarh,
State- Rajasthan (INDIA),
2. **Purchase Order Number** : 4600093209 Dated:- 13.06.2023
3. **Date & Time of Monitoring** : 14.09.2023/08:10AM
4. **Sample Identification** : Air Sample
5. **Condition of Sample** : Sealed/Ok
6. **Sample Received On** : 15.09.2023
7. **Period of Analysis** : 15.09.2023 to 25.09.2023
8. **Name of Location** : Murlia Village
9. **Method of Sampling** : IS: 5182(Part 2,6,9,22,23) & Instrument Manual

S. No	Monitoring Details	Unit	Results
1.	Duration of Survey	Minutes	1438.4
2.	Average Flow rate for PM ₁₀	M ³ / Min	1.2
3.	Ambient Temperature	°C	27.6
4.	Relative Humidity	%	30

Results Ambient Air Quality

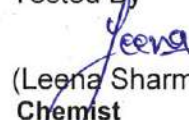
S. No	Parameters	Test Method	Unit	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
-------	------------	-------------	------	---------	---

Chemical Testing - Atmospheric Pollution – Ambient Air


1.	PM ₁₀	IS:5182 (Part-23)	µg/m ³	50.72	100
2.	PM _{2.5}	WIL/SOP No. 10/25 Issue date 01.05.2019	µg/m ³	27.64	60
3.	SO ₂	IS:5182 (Part-2)	µg/m ³	BDL(<6)	80
4.	NO ₂	IS:5182 (Part-6)	µg/m ³	9.36	80

BDL- Below Detection Limit

Tested By


(Leena Sharma)
Chemist

Authorized Signatory


(Amreesh Kumar)
Head & Dy. GM
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

CIN- U29299RJ1971PLC001379



TC-5941
Our Commitment.. Your Trust

Report No. 20230915018/B

Report Issue Date: - 26.09.2023

TEST REPORT

1. Name of Customer : Ahirpura Limestone Mine,
Mine Lease Area (MLA) – 2/97
M/s J.K. Cement Works Nimbahera,
Tehsil - Nimbahera, District – Chittorgarh,
State- Rajasthan (INDIA),
2. Purchase Order Number : 4600093209 Dated:- 13.06.2023
3. Date & Time of Monitoring : 14.09.2023/08:10AM
4. Sample Identification : Air Sample
5. Condition of Sample : Sealed/Ok
6. Sample Received On : 15.09.2023
7. Period of Analysis : 15.09.2023 to 25.09.2023
8. Name of Location : Murlia Village
9. Method of Sampling : Instrument Manual

S. No	Monitoring Details	Unit	Results
1.	Ambient Temperature	°C	27.6
2.	Relative Humidity	%	30

Results Ambient Air Quality

S. No	Parameters	Test Method	Unit	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
Chemical Testing - Atmospheric Pollution – Ambient Air					
1.	CO	BY CO Meter	mg/m ³	0.27	04 (1 hour)

BDL- Below Detection Limit

Tested By

Leena
(Leena Sharma)
Chemist

Authorized Signatory

Amreesh Kumar
(Amreesh Kumar)

Head & Dy. GM

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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Page 1 of 1
End of Report

J.K. Cement WORKS, NIMBAHERA (RAJ)
NIMBAHERA - AHIRPURA LIMESTONE MINE (Murli block)
SIX MONTHLY FUGITIVE MONITORING REPORT
April '2023 to September'2023

Annexure-02

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

Month	3 to10 Meter Distance		From Drilling		Near loading point			
	SPM	SO ₂	NOx	CO	SPM	SO ₂	NOx	CO
Apr-23	366	14.3	27.4	773	371	15.4	24.8	831
May-23	317	12.5	22.5	756	342	10.2	15.4	647
Jun-23	364	10.5	25.5	727	303	11.9	26.0	619
Jul-23	384	9.9	27.2	447	346	10.5	25.0	344
Aug-23	387	6.3	14.5	315	312	4.4	17.6	372
Sep-23	304	5.5	20.8	475	359	4.1	18.4	401
AVERAGE	354	9.8	23.0	582	339	9.4	21.2	536

TEST REPORT

1. **Name of Customer** : Ahirpura Limestone Mine,
Mine Lease Area (MLA) - 403
M/s J.K. Cement Works Nimbahera,
Tehsil - Nimbahera, District - Chittorgarh,
State- Rajasthan (INDIA),
2. **Purchase Order Number** : 4600093209 Dated:- 13.06.2023
3. **Date & Time of Monitoring** : 29.05.2023/11:25AM
4. **Sample Identification** : Air Sample
5. **Condition of Sample** : Sealed/Ok
6. **Sample Received On** : 31.05.2023
7. **Period of Analysis** : 31.05.2023 to 14.06.2023
8. **Name of Location** : 3-10 meter distance from drilling point of Murlia block
9. **Method of Sampling** : IS: 5182(Part 2, 4, 6) & Instrument Manual

S. No	Monitoring Details	Unit	Results
1.	Duration of Survey	Minutes	1442.3
2.	Average Flow rate for PM ₁₀	M ³ / Min	1.14
3.	Ambient Temperature	°C	32.4
4.	Relative Humidity	%	29

Results Ambient Air Quality

S. No	Parameters	Test Method	Unit	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
Chemical Testing - Atmospheric Pollution - Ambient Air					
1.	SO ₂	IS:5182 (Part-2)	µg/m ³	BDL(<6)	80
2.	NO ₂	IS:5182 (Part-6)	µg/m ³	13.94	80
3.	SPM	IS:5182 (Part-4)	µg/m ³	428.26	600

BDL- Below Detection Limit

Tested By

Leena
(Leena Sharma)
Chemist

Authorized Signatory

Amreesh Kumar
(Amreesh Kumar)
Lab Incharge

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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Page 1 of 1

End of Report



Report No. 20230531270/B

Report Issue Date: - 15.06.2023

TEST REPORT

1. Name of Customer : Ahirpura Limestone Mine,
Mine Lease Area (MLA) - 403
M/s J.K. Cement Works Nimbahera,
Tehsil - Nimbahera, District – Chittorgarh,
State- Rajasthan (INDIA),
2. Purchase Order Number : 4600093209 Dated:- 13.06.2023
3. Date & Time of Monitoring : 29.05.2023/11:25AM
4. Sample Identification : Air Sample
5. Condition of Sample : Sealed/Ok
6. Sample Received On : 31.05.2023
7. Period of Analysis : 31.05.2023 to 14.06.2023
8. Name of Location : 3-10 meter distance from drilling point of Murlia block
9. Method of Sampling : Instrument Manual

S. No	Monitoring Details	Unit	Results
1.	Ambient Temperature	°C	32.4
2.	Relative Humidity	%	29

Results Ambient Air Quality

S. No	Parameters	Test Method	Unit	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
Chemical Testing - Atmospheric Pollution - Ambient Air					
1.	CO	BY CO Meter	mg/m ³	0.35	04 (1 hour)

BDL- Below Detection Limit

Tested By

(Leena Sharma)
Chemist

Authorized Signatory

(Amreesh Kumar)
Lab Incharge

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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Page 1 of 1

End of Report

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CIN- U29299RJ1971PLC001379



OHSAS
Certificate No.
01130126322

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TEST REPORT

1. Name of Customer : Ahirpura Limestone Mine,
Mine Lease Area (MLA) - 403
M/s J.K. Cement Works Nimbahera,
Tehsil - Nimbahera, District - Chittorgarh,
State- Rajasthan (INDIA),
2. Purchase Order Number : 4600093209 Dated:- 13.06.2023
3. Date & Time of Monitoring : 29.05.2023/12:20PM
4. Sample Identification : Air Sample
5. Condition of Sample : Sealed/Ok
6. Sample Received On : 31.05.2023
7. Period of Analysis : 31.05.2023 to 14.06.2023
8. Name of Location : Near Loading point of Murlia block
9. Method of Sampling : IS: 5182(Part 2, 4, 6) & Instrument Manual

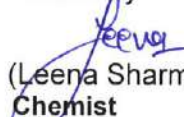
S. No	Monitoring Details	Unit	Results
1.	Duration of Survey	Minutes	1443.3
2.	Average Flow rate for PM ₁₀	M ³ / Min	1.14
3.	Ambient Temperature	°C	33.2
4.	Relative Humidity	%	26

Results Ambient Air Quality


S. No	Parameters	Test Method	Unit	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
Chemical Testing - Atmospheric Pollution - Ambient Air					
1.	SO ₂	IS:5182 (Part-2)	µg/m ³	BDL(<6)	80
2.	NO ₂	IS:5182 (Part-6)	µg/m ³	11.16	80
3.	SPM	IS:5182 (Part-4)	µg/m ³	407.27	600

BDL- Below Detection Limit

Tested By


(Leena Sharma)
Chemist

Authorized Signatory


(Amreesh Kumar)
Lab Incharge

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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Page 1 of 1

End of Report

Report No. 20230531271/B

Report Issue Date: - 15.06.2023

TEST REPORT

1. Name of Customer : Ahirpura Limestone Mine,
Mine Lease Area (MLA) - 403
M/s J.K. Cement Works Nimbahera,
Tehsil - Nimbahera, District - Chittorgarh,
State- Rajasthan (INDIA),
2. Purchase Order Number : 4600093209 Dated:- 13.06.2023
3. Date & Time of Monitoring : 29.05.2023/12:20PM
4. Sample Identification : Air Sample
5. Condition of Sample : Sealed/Ok
6. Sample Received On : 31.05.2023
7. Period of Analysis : 31.05.2023 to 14.06.2023
8. Name of Location : Near Loading point of Murlia block
9. Method of Sampling : Instrument Manual

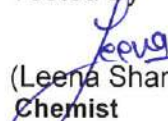
S. No	Monitoring Details	Unit	Results
1.	Ambient Temperature	°C	33.2
2.	Relative Humidity	%	26

Results Ambient Air Quality

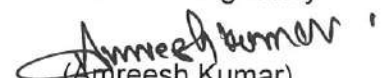
S. No	Parameters	Test Method	Unit	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
Chemical Testing - Atmospheric Pollution - Ambient Air					
1.	CO	BY CO Meter	mg/m ³	0.30	04 (1 hour)

BDL- Below Detection Limit

Tested By


(Leena Sharma)
Chemist

Authorized Signatory


(Amreesh Kumar)
Lab Incharge

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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Page 1 of 1

End of Report



Report No. 20230915019/A

Report Issue Date: - 26.09.2023

TEST REPORT

1. **Name of Customer** : Ahirpura Limestone Mine,
Mine Lease Area (MLA) – 2/97
M/s J.K. Cement Works Nimbahera,
Tehsil - Nimbahera, District – Chittorgarh,
State- Rajasthan (INDIA),
2. **Purchase Order Number** : 4600093209 Dated:- 13.06.2023
3. **Date & Time of Monitoring** : 14.09.2023/09:00AM
4. **Sample Identification** : Fugitive Sample
5. **Condition of Sample** : Sealed/Ok
6. **Sample Received On** : 15.09.2023
7. **Period of Analysis** : 15.09.2023 to 25.09.2023
8. **Name of Location** : 3-10 meter distance from drilling point of Murlia block
9. **Method of Sampling** : IS: 5182(Part 2, 4, 6) & Instrument Manual

S. No	Monitoring Details	Unit	Results
1.	Duration of Survey	Minutes	479.6
2.	Average Flow rate for PM ₁₀	M ³ / Min	1.165
3.	Ambient Temperature	°C	28.2
4.	Relative Humidity	%	32

Results Ambient Air Quality

S. No	Parameters	Test Method	Unit	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
Chemical Testing - Atmospheric Pollution – Fugitive Emission					
1.	SO ₂	IS:5182 (Part-2)	µg/m ³	BDL(<6)	80
2.	NO ₂	IS:5182 (Part-6)	µg/m ³	11.84	80
3.	SPM	IS:5182 (Part-4)	µg/m ³	397.83	600

BDL- Below Detection Limit

Tested By

Leena
(Leena Sharma)
Chemist

Authorized Signatory

Amreesh Kumar
(Amreesh Kumar)
Head & Dy. GM

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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Page 1 of 1
End of Report





Report No. 20230915019/B

Report Issue Date: - 26.09.2023

TEST REPORT

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Mine Lease Area (MLA) – 2/97
M/s J.K. Cement Works Nimbahera,
Tehsil - Nimbahera, District – Chittorgarh,
State- Rajasthan (INDIA),
2. **Purchase Order Number** : 4600093209 Dated:- 13.06.2023
3. **Date & Time of Monitoring** : 14.09.2023/09:00AM
4. **Sample Identification** : Fugitive Sample
5. **Condition of Sample** : Sealed/Ok
6. **Sample Received On** : 15.09.2023
7. **Period of Analysis** : 15.09.2023 to 25.09.2023
8. **Name of Location** : 3-10 meter distance from drilling point of Murlia block
9. **Method of Sampling** : Instrument Manual

S. No	Monitoring Details	Unit	Results
1.	Ambient Temperature	°C	28.2
2.	Relative Humidity	%	32

Results Ambient Air Quality

S. No	Parameters	Test Method	Unit	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
Chemical Testing - Atmospheric Pollution – Fugitive Emission					
1.	CO	BY CO Meter	mg/m ³	0.31	04 (1 hour)

BDL- Below Detection Limit

Tested By

(Leena Sharma)
Chemist

Authorized Signatory

(Amreesh Kumar)
Head & Dy. GM

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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Page 1 of 1
End of Report

Report No. 20230915020/A

Report Issue Date: - 26.09.2023

TEST REPORT

1. Name of Customer : Ahirpura Limestone Mine,
Mine Lease Area (MLA) – 2/97
M/s J.K. Cement Works Nimbahera,
Tehsil - Nimbahera, District – Chittorgarh,
State- Rajasthan (INDIA),
2. Purchase Order Number : 4600093209 Dated:- 13.06.2023
3. Date & Time of Monitoring : 14.09.2023/09:45AM
4. Sample Identification : Fugitive Sample
5. Condition of Sample : Sealed/Ok
6. Sample Received On : 15.09.2023
7. Period of Analysis : 15.09.2023 to 25.09.2023
8. Name of Location : Near Loading point of Murlia block
9. Method of Sampling : IS: 5182(Part 2, 4, 6) & Instrument Manual

S. No	Monitoring Details	Unit	Results
1.	Duration of Survey	Minutes	482.7
2.	Average Flow rate for PM ₁₀	M ³ / Min	1.125
3.	Ambient Temperature	°C	29.3
4.	Relative Humidity	%	34

Results Ambient Air Quality

S. No	Parameters	Test Method	Unit	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
Chemical Testing - Atmospheric Pollution – Fugitive Emission					
1.	SO ₂	IS:5182 (Part-2)	µg/m ³	BDL(<6)	80
2.	NO ₂	IS:5182 (Part-6)	µg/m ³	8.09	80
3.	SPM	IS:5182 (Part-4)	µg/m ³	378.98	600

BDL- Below Detection Limit

Tested By

Leena
(Leena Sharma)
Chemist

Authorized Signatory

Amreesh Kumar
(Amreesh Kumar)
Head & Dy. GM
Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

CIN- U29299RJ1971PLC001379



TC-5941

Our Commitment.. Your Trust

Report No. 20230915020/B

Report Issue Date: - 26.09.2023

TEST REPORT

1. Name of Customer : Ahirpura Limestone Mine,
Mine Lease Area (MLA) – 2/97
M/s J.K. Cement Works Nimbahera,
Tehsil - Nimbahera, District – Chittorgarh,
State- Rajasthan (INDIA),
2. Purchase Order Number : 4600093209 Dated:- 13.06.2023
3. Date & Time of Monitoring : 14.09.2023/09:45AM
4. Sample Identification : Fugitive Sample
5. Condition of Sample : Sealed/Ok
6. Sample Received On : 15.09.2023
7. Period of Analysis : 15.09.2023 to 25.09.2023
8. Name of Location : Near Loading point of Murlia block
9. Method of Sampling : Instrument Manual

S. No	Monitoring Details	Unit	Results
1.	Ambient Temperature	°C	29.3
2.	Relative Humidity	%	34

Results Ambient Air Quality

S. No	Parameters	Test Method	Unit	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
Chemical Testing - Atmospheric Pollution – Fugitive Emission					
1.	CO	BY CO Meter	mg/m ³	0.27	04 (1 hour)

BDL- Below Detection Limit

Tested By

(Leena Sharma)
Chemist

Authorized Signatory

(Amreesh Kumar)
Head & Dy. GM

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

Note

1. Complaint Register is available in lab / Email ID lab.office@wolkem.com
2. The results listed refer only to the tested sample (s) and parameter (s) Endorsement of product is neither inferred nor implied.
3. This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.
4. The samples will be destroyed after 15 days from the date of issue of test certificate unless otherwise specified.
5. Any discrepancy in test results should be reported within 15 days.

Page 1 of 1
End of Report

Parameter Report

JK Cement Works

Generated On	2023-11-08 16:05:39	Generated By	Sunil Singh
Period	2023-04-01 00:00:00 - 2023-09-30 23:59:00	Facility Name	JK Cement Works Facility
Sub Locations	Telemetry BW_3 (Ahipura Mine)	Parameters	Water Level

S.No.	Time	Telemetry BW_3 (Ahipura Mine) Water Level (m)(avg)
1	2023-04-01 00:00:00:000	16.36
2	2023-05-01 00:00:00:000	16.46
3	2023-06-01 00:00:00:000	15.62
4	2023-07-01 00:00:00:000	8.97
5	2023-08-01 00:00:00:000	11.1
6	2023-09-01 00:00:00:000	10.89



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523100000812	Date :	04-05-2023
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 & Biological	Date of Sample Collection/Monitoring :	20-04-2023
Point of Collection :	Pit Water (Surface Water - Ahirpura Block)	Date of Receipt :	27-04-2023
Date of Test/Analysis :	27-04-2023 to 04-05-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr.	Sample Collected By :	Banwari Lal Kumawat
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]	0.6	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
4	pH	7.77	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
5	Hardness (total) [mg/l]	153.27	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]	53.6	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
8	Total Dissolved Solids [mg/l]	338	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
9	Calcium [mg/l]	47.85	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00
10	Magnesium [mg/l]	8.18	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
11	Fluoride [mg/l]	0.49	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
12	Suspended Solids [mg/l]	5	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 limits in the absence of Alternate Sources as per IS 10500 : 2012
13	Oil and Grease [mg/l]	Less than 1	IS 3025 (Part 39) : 1991 RA 2019	-	-
14	Conductivity [micromho/cm]	549	APHA 2017 : 2510 B	-	-
15	M - Alkalinity [mg/l]	115.2	IS 3025 (Part 23) : 1986 RA 2019	-	-
16	Total coliform [MPN/100ml]	Not Detected	IS 1622 : 1981	Shall not be detectable in 100 ml sample	-
17	E. Coli [MPN/100ml]	Not Detected	IS 5887 (Part 1) : 1976 RA 2018	Shall not be detectable in 100 ml sample	-

Notes :-

- # Limits mentioned as per IS 10500:2012 is of Drinking water. There is no prescribed limit for Surface/Ground water etc.
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Balram

Senior Analyst

Raj

Authorized Signatory

(Report No: TC502523100000812)



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TEST REPORT

Report No./ULR No. :	TC502523100000813	Date :	04-05-2023
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 :	20-04-2023
Point of Collection :	Sharda's Tube Well - (Ground Water)	Date of Receipt :	27-04-2023
Date of Test/Analysis :	27-04-2023 to 04-05-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr.	Sample Collected By :	Banwari Lal Kumawat
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]	0.3	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
4	pH	7.50	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
5	Hardness (total) [mg/l]	168.22	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]	53.6	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
8	Total Dissolved Solids [mg/l]	375	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
9	Calcium [mg/l]	52.34	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00
10	Magnesium [mg/l]	9.08	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
11	Fluoride [mg/l]	0.53	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
12	Conductivity [micromho/cm]	582	APHA 2017 : 2510 B	-	-

Bay



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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	Oil and Grease [mg/l]	Less than 1	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]	103.68	IS 3025 (Part 23) : 1986 RA 2019	-	-

Notes :-

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Senior Analyst

Authorized Signatory

(Report No: TC502523100000813)



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TEST REPORT

Report No./ULR No. :	TC502523100000814	Date :	04-05-2023
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 :	20-04-2023
Point of Collection :	Crusher Tube Well - (Ground Water)	Date of Receipt :	27-04-2023
Date of Test/Analysis :	27-04-2023 to 04-05-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr.	Sample Collected By :	Banwari Lal Kumawat
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]	0.5	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
4	pH	7.15	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
5	Hardness (total) [mg/l]	299.07	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]	86.14	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
8	Total Dissolved Solids [mg/l]	480	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
9	Calcium [mg/l]	112.15	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00
10	Magnesium [mg/l]	4.54	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
11	Fluoride [mg/l]	0.72	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
12	Conductivity [micromho/cm]	765	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 Limit in the absence of alternative Source as per IS 10500 : 2012
13	Oil and Grease [mg/l]	Less than 1	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]	249.6	IS 3025 (Part 23) : 1986 RA 2019	-	-

Notes :-

- # Limits mentioned as per IS 10500:2012 is of Drinking water. There is no prescribed limit for Surface/Ground water etc.
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Balram

Senior Analyst

Raj

Authorized Signatory

(Report No: TC502523100000814)



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TEST REPORT

Report No./ULR No. :	TC502523100000815	Date :	04-05-2023
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 & Biological	Date of Sample Collection/Monitoring :	20-04-2023
Point of Collection :	Pit Water (Surface Water - Murlia Block)	Date of Receipt :	27-04-2023
Date of Test/Analysis :	27-04-2023 to 04-05-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr.	Sample Collected By :	Banwari Lal Kumawat
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]	0.4	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
4	pH	7.52	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
5	Hardness (total) [mg/l]	216.82	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]	68.91	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
8	Total Dissolved Solids [mg/l]	486	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
9	Calcium [mg/l]	74.77	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00
10	Magnesium [mg/l]	7.27	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
11	Fluoride [mg/l]	1.46	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
12	Suspended Solids [mg/l]	9	IS 3025 (Part 17) : 1984 RA 2017	-	-



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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 limits in the absence of Alternate Sources as per IS 10500 : 2012
13	Oil and Grease [mg/l]	Less than 1	IS 3025 (Part 39) : 1991 RA 2019	-	-
14	Conductivity [micromho/cm]	767	APHA 2017 : 2510 B	-	-
15	M - Alkalinity [mg/l]	134.4	IS 3025 (Part 23) : 1986 RA 2019	-	-
16	Total coliform [MPN/100ml]	Not Detected	IS 1622 : 1981	Shall not be detectable in 100 ml sample	-
17	E. Coli [MPN/100ml]	Not Detected	IS 5887 (Part 1) : 1976 RA 2018	Shall not be detectable in 100 ml sample	-

Notes :-

- # Limits mentioned as per IS 10500:2012 is of Drinking water. There is no prescribed limit for Surface/Ground water etc.
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Balran

Senior Analyst

Bayin

Authorized Signatory
(Report No: TC502523100000815)



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TEST REPORT

Report No./ULR No. :	TC502523100000816	Date :	04-05-2023
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 :	20-04-2023
Point of Collection :	Hand Pump (Near Hut) - (Ground Water)	Date of Receipt :	27-04-2023
Date of Test/Analysis :	27-04-2023 to 04-05-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr.	Sample Collected By :	Banwari Lal Kumawat
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]	0.5	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
4	pH	7.02	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
5	Hardness (total) [mg/l]	420.56	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]	138.79	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
8	Total Dissolved Solids [mg/l]	1065	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
9	Calcium [mg/l]	153.27	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00
10	Magnesium [mg/l]	9.08	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
11	Fluoride [mg/l]	0.73	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
12	Conductivity [micromho/cm]	1699	APHA 2017 : 2510 B	-	-

Signature



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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	Oil and Grease [mg/l]	Less than 1	IS 3025 (Part 39) : 1991 RA 2019	-	-
14	Total Suspended Solids [mg/l]	7	IS 3025 (Part 17) : 1984 RA 2017	-	-
15	M - Alkalinity [mg/l]	393.6	IS 3025 (Part 23) : 1986 RA 2019	-	-

Notes :-

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Beltran

Senior Analyst

Beltran

Authorized Signatory

(Report No: TC502523100000816)



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TEST REPORT

Report No./ULR No. :	TC502523100000817	Date :	04-05-2023
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 :	20-04-2023
Point of Collection :	Tube Well (Near Mangrol Chauraha) (Ground Water)	Date of Receipt :	27-04-2023
Date of Test/Analysis :	27-04-2023 to 04-05-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr.	Sample Collected By :	Banwari Lal Kumawat
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]	0.4	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]	198.13	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]	68.91	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
8	Total Dissolved Solids [mg/l]	424	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
9	Calcium [mg/l]	68.79	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00
10	Magnesium [mg/l]	6.36	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
11	Fluoride [mg/l]	0.81	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
12	Conductivity [micromho/cm]	668	APHA 2017 : 2510 B	-	-

Bay



TEAM TEST HOUSE

(Unit of Team Institute of Science & Technology Pvt. Ltd.)



Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

RSPCB

ISO 9001:2015,

ISO 14001:2015,

ISO 45001:2018 (OH&S)

JDA/UDH

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Website : www.teamtesthouse.com
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,
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	Oil and Grease [mg/l]	Less than 1	IS 3025 (Part 39) : 1991 RA 2019	-	-
14	Total Suspended Solids [mg/l]	9	IS 3025 (Part 17) : 1984 RA 2017	-	-
15	M - Alkalinity [mg/l]	126.72	IS 3025 (Part 23) : 1986 RA 2019	-	-

Notes :-

- # Limits mentioned as per IS 10500:2012 is of Drinking water. There is no prescribed limit for Surface/Ground water etc.
- # 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.

Balram

Senior Analyst

Raj

Authorized Signatory

(Report No: TC502523100000817)

Report No. 20230811002

Report Issue Date: - 22.08.2023

TEST REPORT

1. Name of Customer : Ahirpura Limestone Mine,
Mine Lease Area (MLA) – 02/97,
M/s J.K. Cement Works Nimbahera,
Tehsil - Nimbahera, District – Chittorgarh,
State- Rajasthan (INDIA),
2. Purchase order Number : 4600093209 Dated:- 13.06.2023
3. Sample Identification : Ground water
4. Condition of Sample : Sealed/OK
5. Date & Time of Sampling : 10.08.2023/09:30AM
6. Sample received on : 11.08.2023
7. Period of Analysis : 11.08.2023 to 22.08.2023
8. Name of Sample & Location : Potable & Domestic water (Sharda's Tube well Ground water)
9. Method of Sampling : IS:3025 (Pt 1) 1987

S. No	Environment Condition	Unit	Results
1.	Ambient Temperature	°C	30.4
2.	Relative Humidity	%	48

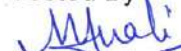
S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible

Chemical Testing – Water- Ground Water						
1.	pH (at 27°C)	IS:3025(Part-11)	-	7.22	6.5 to 8.5	No Relaxation
2.	Conductivity (at 25°C)	IS:3025(Part-14)	µs/cm	1014	-	-
3.	Color	IS:3025(Part-4)	Hazen	<5	5	15
4.	Odour	IS:3025(Part-5)	-	Agreeable	Agreeable	Agreeable
5.	Turbidity	IS:3025(Part-10)	NTU	0.40	1	5
6.	Total Dissolve Solid	IS:3025(Part-16)	mg/L	654	500	2000
7.	Total Suspended Solid	IS:3025(Part-17)	mg/L	08	-	-
8.	Total Hardness as CaCO ₃	IS:3025(Part-21)	mg/L	328	200	600
9.	Calcium as Ca ²⁺	IS:3025(Part-40)	mg/L	110.4	75	200
10.	Magnesium as Mg ²⁺	IS:3025(Part-46)	mg/L	12.5	30	100
11.	Total Alkalinity	IS:3025(Part-23)	mg/L	76	200	600
12.	Chlorides as Cl ⁻	IS:3025(Part-32)	mg/L	116	250	1000
13.	Oil & Grease	IS:3025(Part-39)	mg/L	BDL(<0.4)	-	-
14.	Fluoride as F ⁻	APHA 23rd Ed., 4500 FD	mg/L	0.72	1.0	1.5


Chemical Testing – Residues – Ground water						
15.	Iron as Fe	APHA 23rd Ed.3111B	mg/L	0.12	0.3	No Relaxation

BDL-Below Detection Limit

Tested By


(Manali Vyas)
Asst.Chemist

Authorized Signatory


(Purn Singh)
Sr.Chemist

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.L.A., UDAIPUR (Rajasthan)

Note

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Page 1 of 1
End of Report

Registered & Corporate Office :

"Wolkem House", E-101, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan-India
Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

CIN- U29299RJ1971PLC001379



TC-5941
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Report No.20230811032


Report Issue Date: - 22.08.2023

TEST REPORT

1. Name of Customer : Ahirpura Limestone Mine,
Mine Lease Area (MLA) – 02/97,
M/s J.K. Cement Works Nimbahera,
Tehsil - Nimbahera, District – Chittorgarh,
State- Rajasthan (INDIA),
2. Purchase Order No. : 4600093209 Dated:- 13.06.2023
3. Sample Identification : Potable water
4. Condition of sample : Sealed/Ok
5. Source/ Location : Potable & Domestic water (Sharda's Tube well Ground water)
6. Sampling done by : Environmental & Chemical Laboratory, Wolkem India Limited
7. Sample Received on : 11.08.2023
8. Period of Testing : 11.08.2023 to 14.08.2023
9. Environmental conditions : Temp 30.4°C/ RH 48%
10. Sampling method : IS: 1622-1981

S. No.	Parameters	Test Method	Unit	Results	Limit (IS 10500:2012)
Biological Testing – Water- Potable water					
1.	E.coli	IS 15185:2016	Per/ 100ml	Not Detectable	Shall not be detectable/100ml
2.	Total Coliforms	IS 15185:2016	Per/ 100ml	Not Detectable	Shall not be detectable/100ml

Authorized Signatory


Amreesh Kumar
(Head & Dy. GM)

Microbiology Testing Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

Note:

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4. The samples will be destroyed after 07 days from the date of issue of test certificate unless otherwise specified.
5. Any discrepancy in test results should be reported within 03 days.
6. Bacteriological Quality of Drinking Water as per IS:10500

S. No.	Organisms	Requirements
1	All water intended for drinking a. E. Coli	Shall not be detectable in any 100 ml sample
2	Treated water entering the distribution system a. E. coli b. Total coliform bacteria	Shall not be detectable in any 100 ml sample Shall not be detectable in any 100 ml sample

Report No. 20230811003

Report Issue Date: - 22.08.2023

TEST REPORT

1. Name of Customer : Ahirpura Limestone Mine,
Mine Lease Area (MLA) – 02/97,
M/s J.K. Cement Works Nimbahera,
Tehsil - Nimbahera, District – Chittorgarh,
State- Rajasthan (INDIA),
2. Purchase order Number : 4600093209 Dated:- 13.06.2023
3. Sample Identification : Ground water
4. Condition of Sample : Sealed/Ok
5. Date & Time of Sampling : 10.08.2023/09:45AM
6. Sample received on : 11.08.2023
7. Period of Analysis : 11.08.2023 to 22.08.2023
8. Name of Sample & Location : Potable & Domestic water (Nr. Crusher Tube well Ground water)
9. Method of Sampling : IS:3025 (Pt 1) 1987

S. No	Environment Condition	Unit	Results
1.	Ambient Temperature	°C	30.8
2.	Relative Humidity	%	50

S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible

Chemical Testing – Water- Ground Water

1.	pH (at 27°C)	IS:3025(Part-11)	-	7.65	6.5 to 8.5	No Relaxation
2.	Conductivity (at 25°C)	IS:3025(Part-14)	µs/cm	905.7	-	-
3.	Color	IS:3025(Part-4)	Hazen	<5	5	15
4.	Odour	IS:3025(Part-5)	-	Agreeable	Agreeable	Agreeable
5.	Turbidity	IS:3025(Part-10)	NTU	0.50	1	5
6.	Total Dissolve Solid	IS:3025(Part-16)	mg/L	582	500	2000
7.	Total Suspended Solid	IS:3025(Part-17)	mg/L	08	-	-
8.	Total Hardness as CaCO ₃	IS:3025(Part-21)	mg/L	316	200	600
9.	Calcium as Ca ²⁺	IS:3025(Part-40)	mg/L	108.8	75	200
10.	Magnesium as Mg ²⁺	IS:3025(Part-46)	mg/L	10.56	30	100
11.	Total Alkalinity	IS:3025(Part-23)	mg/L	72	200	600
12.	Chlorides as Cl ⁻	IS:3025(Part-32)	mg/L	111	250	1000
13.	Oil & Grease	IS:3025(Part-39)	mg/L	BDL(<0.4)	-	-
14.	Fluoride as F ⁻	APHA 23rd Ed., 4500 FD	mg/L	0.60	1.0	1.5

Chemical Testing – Residues – Ground water

15.	Iron as Fe	APHA 23rd Ed.3111B	mg/L	BDL(<0.1)	0.3	No Relaxation
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BDL-Below Detection Limit

Tested By

(Signature)
(Manali Vyas)
Asst.Chemist

Authorized Signatory

(Signature)
(Puran Singh)
Sr.Chemist

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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5. Any discrepancy in test results should be reported within 15 days.

Page 1 of 1

End of Report

Registered & Corporate Office :

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Report No.20230811033

Report Issue Date: - 22.08.2023

TEST REPORT

1. Name of Customer : Ahirpura Limestone Mine,
Mine Lease Area (MLA) – 02/97,
M/s J.K. Cement Works Nimbahera,
Tehsil - Nimbahera, District – Chittorgarh,
State- Rajasthan (INDIA),
2. Purchase Order No. : 4600093209 Dated:- 13.06.2023
3. Sample Identification : Potable water
4. Condition of sample : Sealed/Ok
5. Source/ Location : Potable & Domestic water
(Nr. Crusher Tube well Ground water)
6. Sampling done by : Environmental & Chemical Laboratory, Wolkem India Limited
7. Sample Received on : 11.08.2023
8. Period of Testing : 11.08.2023 to 14.08.2023
9. Environmental conditions : Temp 30.8°C/ RH 50%
10. Sampling method : IS: 1622-1981

S. No.	Parameters	Test Method	Unit	Results	Limit (IS 10500:2012)
Biological Testing – Water- Potable water					
1.	E.coli	IS 15185:2016	Per/ 100ml	Not Detectable	Shall not be detectable/100ml
2.	Total Coliforms	IS 15185:2016	Per/ 100ml	Not Detectable	Shall not be detectable/100ml

Authorized Signatory


Amreesh Kumar

(Head & Dy. GM)

Microbiology Testing Laboratory

Wolkem India Limited

E-102, M.I.A., UDAIPUR (Rajasthan)

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4. The samples will be destroyed after 07 days from the date of issue of test certificate unless otherwise specified.
5. Any discrepancy in test results should be reported within 03 days.
6. Bacteriological Quality of Drinking Water as per IS:10500

S. No.	Organisms	Requirements
1	All water intended for drinking a. E. Coli	Shall not be detectable in any 100 ml sample
2	Treated water entering the distribution system a. E. coli b. Total coliform bacteria	Shall not be detectable in any 100 ml sample Shall not be detectable in any 100 ml sample



Report No. 20230811004

Report Issue Date: - 22.08.2023

TEST REPORT

1. Name of Customer : Ahirpura Limestone Mine,
Mine Lease Area (MLA) – 02/97,
M/s J.K. Cement Works Nimbahera,
Tehsil - Nimbahera, District – Chittorgarh,
State- Rajasthan (INDIA),
2. Purchase order Number : 4600093209 Dated:- 13.06.2023
3. Sample Identification : Ground water
4. Condition of Sample : Sealed/Ok
5. Date & Time of Sampling : 10.08.2023/10:10AM
6. Sample received on : 11.08.2023
7. Period of Analysis : 11.08.2023 to 22.08.2023
8. Name of Sample & Location : Potable & Domestic water (Hand pump Near Hut- Ground water)
9. Method of Sampling : IS:3025 (Pt 1) 1987

S. No	Environment Condition	Unit	Results
1.	Ambient Temperature	°C	31.4
2.	Relative Humidity	%	52

S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible

Chemical Testing – Water- Ground Water

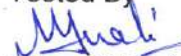
1.	pH (at 27°C)	IS:3025(Part-11)	-	7.65	6.5 to 8.5	No Relaxation
2.	Conductivity (at 25°C)	IS:3025(Part-14)	µs/cm	806.4	-	-
3.	Color	IS:3025(Part-4)	Hazen	<5	5	15
4.	Odour	IS:3025(Part-5)	-	Agreeable	Agreeable	Agreeable
5.	Turbidity	IS:3025(Part-10)	NTU	0.40	1	5
6.	Total Dissolve Solid	IS:3025(Part-16)	mg/L	518	500	2000
7.	Total Suspended Solid	IS:3025(Part-17)	mg/L	06	-	-
8.	Total Hardness as CaCO ₃	IS:3025(Part-21)	mg/L	248	200	600
9.	Calcium as Ca ²⁺	IS:3025(Part-40)	mg/L	65.6	75	200
10.	Magnesium as Mg ²⁺	IS:3025(Part-46)	mg/L	20.2	30	100
11.	Total Alkalinity	IS:3025(Part-23)	mg/L	70	200	600
12.	Chlorides as Cl ⁻	IS:3025(Part-32)	mg/L	109	250	1000
13.	Oil & Grease	IS:3025(Part-39)	mg/L	BDL(<0.4)	-	-
14.	Fluoride as F ⁻	APHA 23rd Ed., 4500 FD	mg/L	0.60	1.0	1.5

Chemical Testing – Residues – Ground water


15.	Iron as Fe	APHA 23rd Ed.3111B	mg/L	BDL(<0.1)	0.3	No Relaxation
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BDL-Below Detection Limit

Tested By


(Manali Vyas)
Asst.Chemist

Authorized Signatory


(Puran Singh)
Sr.Chemist

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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CIN- U29299RJ1971PLC001379



TC-5941

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Report No.20230811034

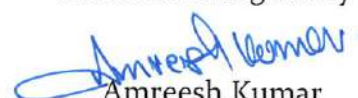
Report Issue Date: - 22.08.2023

TEST REPORT

1. Name of Customer : Ahirpura Limestone Mine,
Mine Lease Area (MLA) – 02/97,
M/s J.K. Cement Works Nimbahera,
Tehsil - Nimbahera, District – Chittorgarh,
State- Rajasthan (INDIA),
2. Purchase Order No. : 4600093209 Dated:- 13.06.2023
3. Sample Identification : Potable water
4. Condition of sample : Sealed/Ok
5. Source/ Location : Potable & Domestic water
(Hand pump Near Hut- Ground water)
6. Sampling done by : Environmental & Chemical Laboratory, Wolkem India Limited
7. Sample Received on : 11.08.2023
8. Period of Testing : 11.08.2023 to 14.08.2023
9. Environmental conditions : Temp 31.4°C/ RH 52%
10. Sampling method : IS: 1622-1981

S. No.	Parameters	Test Method	Unit	Results	Limit (IS 10500:2012)
Biological Testing – Water- Potable water					
1.	E.coli	IS 15185:2016	Per/ 100ml	Not Detectable	Shall not be detectable/100ml
2.	Total Coliforms	IS 15185:2016	Per/ 100ml	Not Detectable	Shall not be detectable/100ml

Authorized Signatory


Amreesh Kumar

(Head & Dy. GM)

Microbiology Testing Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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4. The samples will be destroyed after 07 days from the date of issue of test certificate unless otherwise specified.
5. Any discrepancy in test results should be reported within 03 days.
6. Bacteriological Quality of Drinking Water as per IS:10500

S. No.	Organisms	Requirements
1	All water intended for drinking a. E. Coli	Shall not be detectable in any 100 ml sample
2	Treated water entering the distribution system a. E. coli b. Total coliform bacteria	Shall not be detectable in any 100 ml sample Shall not be detectable in any 100 ml sample



Report No. 20230811005

Report Issue Date: - 22.08.2023

TEST REPORT

1. Name of Customer : Ahirpura Limestone Mine,
Mine Lease Area (MLA) – 02/97,
M/s J.K. Cement Works Nimbahera,
Tehsil - Nimbahera, District – Chittorgarh,
State- Rajasthan (INDIA),
2. Purchase order Number : 4600093209 Dated:- 13.06.2023
3. Sample Identification : Ground water
4. Condition of Sample : Sealed/Ok
5. Date & Time of Sampling : 10.08.2023/10:30AM
6. Sample received on : 11.08.2023
7. Period of Analysis : 11.08.2023 to 22.08.2023
8. Name of Sample & Location : Potable & Domestic water
(Nr. Mangrol Chourhaya Tubewell Ground water)
9. Method of Sampling : IS:3025 (Pt 1) 1987

S. No	Environment Condition	Unit	Results
1.	Ambient Temperature	°C	31.9
2.	Relative Humidity	%	50

S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible

Chemical Testing – Water- Ground Water

1.	pH (at 27°C)	IS:3025(Part-11)	-	7.43	6.5 to 8.5	No Relaxation
2.	Conductivity (at 25°C)	IS:3025(Part-14)	µs/cm	1148	-	-
3.	Color	IS:3025(Part-4)	Hazen	<5	5	15
4.	Odour	IS:3025(Part-5)	-	Agreeable	Agreeable	Agreeable
5.	Turbidity	IS:3025(Part-10)	NTU	0.60	1	5
6.	Total Dissolve Solid	IS:3025(Part-16)	mg/L	742	500	2000
7.	Total Suspended Solid	IS:3025(Part-17)	mg/L	08	-	-
8.	Total Hardness as CaCO ₃	IS:3025(Part-21)	mg/L	396	200	600
9.	Calcium as Ca ²⁺	IS:3025(Part-40)	mg/L	140.8	75	200
10.	Magnesium as Mg ²⁺	IS:3025(Part-46)	mg/L	10.56	30	100
11.	Total Alkalinity	IS:3025(Part-23)	mg/L	88	200	600
12.	Chlorides as Cl ⁻	IS:3025(Part-32)	mg/L	123	250	1000
13.	Oil & Grease	IS:3025(Part-39)	mg/L	BDL(<0.4)	-	-
14.	Fluoride as F ⁻	APHA 23rd Ed., 4500 FD	mg/L	0.76	1.0	1.5

Chemical Testing – Residues – Ground water

15.	Iron as Fe	APHA 23rd Ed.3111B	mg/L	0.17	0.3	No Relaxation
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BDL-Below Detection Limit

Tested By

(Manali Vyas)
Asst.Chemist

Authorized Signatory

(Puran Singh)
Sr.Chemist

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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End of Report

Registered & Corporate Office :

"Wolkem House", E-101, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan-India

Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

CIN- U29299RJ1971PLC001379



TC-5941

Our Commitment.. Your Trust



Report No.20230811035

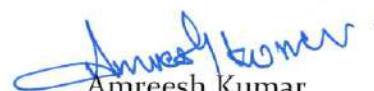
Report Issue Date: - 22.08.2023

TEST REPORT

1. Name of Customer : Ahirpura Limestone Mine,
Mine Lease Area (MLA) – 02/97,
M/s J.K. Cement Works Nimbahera,
Tehsil - Nimbahera, District – Chittorgarh,
State- Rajasthan (INDIA),
2. Purchase Order No. : 4600093209 Dated:- 13.06.2023
3. Sample Identification : Potable water
4. Condition of sample : Sealed/Ok
5. Source/ Location : Potable & Domestic water
(Nr. Mangrol Chourhaya Tubewell Ground water)
6. Sampling done by : Environmental & Chemical Laboratory, Wolkem India Limited
7. Sample Received on : 11.08.2023
8. Period of Testing : 11.08.2023 to 14.08.2023
9. Environmental conditions : Temp 31.9°C/ RH 50%
10. Sampling method : IS: 1622-1981

S. No.	Parameters	Test Method	Unit	Results	Limit (IS 10500:2012)
Biological Testing – Water- Potable water					
1.	E.coli	IS 15185:2016	Per/ 100ml	Not Detectable	Shall not be detectable/100ml
2.	Total Coliforms	IS 15185:2016	Per/ 100ml	Not Detectable	Shall not be detectable/100ml

Authorized Signatory


Amreesh Kumar
(Head & Dy. GM)

Microbiology Testing Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

Note:

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4. The samples will be destroyed after 07 days from the date of issue of test certificate unless otherwise specified.
5. Any discrepancy in test results should be reported within 03 days.
6. Bacteriological Quality of Drinking Water as per IS:10500

S. No.	Organisms	Requirements
1	All water intended for drinking a. E. Coli	Shall not be detectable in any 100 ml sample
2	Treated water entering the distribution system a. E. coli b. Total coliform bacteria	Shall not be detectable in any 100 ml sample Shall not be detectable in any 100 ml sample



Report No. 20230811006

Report Issue Date: - 22.08.2023

TEST REPORT

1. Name of Customer : Ahirpura Limestone Mine,
Mine Lease Area (MLA) – 02/97,
M/s J.K. Cement Works Nimbahera,
Tehsil - Nimbahera, District – Chittorgarh,
State- Rajasthan (INDIA),
2. Purchase order Number : 4600093209 Dated:- 13.06.2023
3. Sample Identification : Potable water
4. Condition of Sample : Sealed/OK
5. Date & Time of Sampling : 10.08.2023/10:40AM
6. Sample received on : 11.08.2023
7. Period of Analysis : 11.08.2023 to 22.08.2023
8. Name of Sample & Location : Potable & Domestic water-Ahirpura Block
(Pit-water Surface water)
9. Method of Sampling : IS:3025 (Pt 1) 1987

S. No	Environment Condition	Unit	Results
1.	Ambient Temperature	°C	32.8
2.	Relative Humidity	%	56

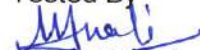
S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible

Chemical Testing – Water- Potable Water						
1.	pH (at 27°C)	IS:3025(Part-11)	-	7.74	6.5 to 8.5	No Relaxation
2.	Conductivity (at 25°C)	IS:3025(Part-14)	µs/cm	664.4	-	-
3.	Color	IS:3025(Part-4)	Hazen	<5	5	15
4.	Odour	IS:3025(Part-5)	-	Agreeable	Agreeable	Agreeable
5.	Turbidity	IS:3025(Part-10)	NTU	0.50	1	5
6.	Total Dissolve Solid	IS:3025(Part-16)	mg/L	426	500	2000
7.	Total Suspended Solid	IS:3025(Part-17)	mg/L	14	-	-
8.	Total Hardness as CaCO ₃	IS:3025(Part-21)	mg/L	260	200	600
9.	Calcium as Ca ²⁺	IS:3025(Part-40)	mg/L	88	75	200
10.	Magnesium as Mg ²⁺	IS:3025(Part-46)	mg/L	9.6	30	100
11.	Total Alkalinity	IS:3025(Part-23)	mg/L	68	200	600
12.	Chlorides as Cl ⁻	IS:3025(Part-32)	mg/L	59	250	1000
13.	Oil & Grease	IS:3025(Part-39)	mg/L	BDL(<0.4)	-	-
14.	Fluoride as F ⁻	APHA 23rd Ed., 4500 FD	mg/L	0.52	1.0	1.5


Chemical Testing – Residues – Potable water						
15.	Iron as Fe	APHA 23rd Ed.3111B	mg/L	BDL(<0.1)	0.3	No Relaxation

BDL-Below Detection Limit

Tested By


(Manali Vyas)
Asst.Chemist

Authorized Signatory


(Puran Singh)
Sr.Chemist

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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TC-5941

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Report No.20230811036

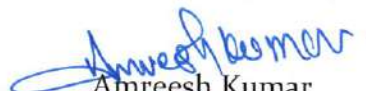
Report Issue Date: - 22.08.2023

TEST REPORT

1. Name of Customer : Ahirpura Limestone Mine,
Mine Lease Area (MLA) – 02/97,
M/s J.K. Cement Works Nimbahera,
Tehsil - Nimbahera, District – Chittorgarh,
State- Rajasthan (INDIA),
2. Purchase Order No. : 4600093209 Dated:- 13.06.2023
3. Sample Identification : Potable water
4. Condition of sample : Sealed/Ok
5. Source/ Location : Potable & Domestic water-Ahirpura Block
(Pit-water Surface water)
6. Sampling done by : Environmental & Chemical Laboratory, Wolkem India Limited
7. Sample Received on : 11.08.2023
8. Period of Testing : 11.08.2023 to 14.08.2023
9. Environmental conditions : Temp 32.8°C/ RH 56%
10. Sampling method : IS: 1622-1981

S. No.	Parameters	Test Method	Unit	Results	Limit (IS 10500:2012)
Biological Testing – Water- Potable water					
1.	E.coli	IS 15185:2016	Per/ 100ml	Not Detectable	Shall not be detectable/100ml
2.	Total Coliforms	IS 15185:2016	Per/ 100ml	Not Detectable	Shall not be detectable/100ml

Authorized Signatory


Amreesh Kumar
(Head & Dy. GM)
Microbiology Testing Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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Page 1 of 1
End of Report



Report No. 20230811007

Report Issue Date: - 22.08.2023

TEST REPORT

1. Name of Customer : Ahirpura Limestone Mine,
Mine Lease Area (MLA) – 02/97,
M/s J.K. Cement Works Nimbahera,
Tehsil - Nimbahera, District – Chittorgarh,
State- Rajasthan (INDIA),
2. Purchase order Number : 4600093209 Dated:- 13.06.2023
3. Sample Identification : Potable water
4. Condition of Sample : Sealed/Ok
5. Date & Time of Sampling : 10.08.2023/11:55AM
6. Sample received on : 11.08.2023
7. Period of Analysis : 11.08.2023 to 22.08.2023
8. Name of Sample & Location : Potable & Domestic water-Murliya Block
(Pit-water Surface water)
9. Method of Sampling : IS:3025 (Pt 1) 1987

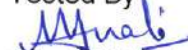
S. No	Environment Condition	Unit	Results
1.	Ambient Temperature	°C	32.6
2.	Relative Humidity	%	54

S. No.	Parameters	Test Method	Unit	Results	Limits :- IS-10500:2012	
					Acceptable	Permissible


Chemical Testing – Water- Potable Water						
1.	pH (at 27°C)	IS:3025(Part-11)	-	7.57	6.5 to 8.5	No Relaxation
2.	Conductivity (at 25°C)	IS:3025(Part-14)	µs/cm	576.7	-	-
3.	Color	IS:3025(Part-4)	Hazen	<5	5	15
4.	Odour	IS:3025(Part-5)	-	Agreeable	Agreeable	Agreeable
5.	Turbidity	IS:3025(Part-10)	NTU	0.70	1	5
6.	Total Dissolve Solid	IS:3025(Part-16)	mg/L	372	500	2000
7.	Total Suspended Solid	IS:3025(Part-17)	mg/L	06	-	-
8.	Total Hardness as CaCO ₃	IS:3025(Part-21)	mg/L	196	200	600
9.	Calcium as Ca ²⁺	IS:3025(Part-40)	mg/L	44.8	75	200
10.	Magnesium as Mg ²⁺	IS:3025(Part-46)	mg/L	20.2	30	100
11.	Total Alkalinity	IS:3025(Part-23)	mg/L	62	200	600
12.	Chlorides as Cl ⁻	IS:3025(Part-32)	mg/L	60	250	1000
13.	Oil & Grease	IS:3025(Part-39)	mg/L	BDL(<0.4)	-	-
14.	Fluoride as F ⁻	APHA 23rd Ed., 4500 FD	mg/L	0.30	1.0	1.5
Chemical Testing – Residues – Potable water						
15.	Iron as Fe	APHA 23rd Ed.3111B	mg/L	BDL(<0.1)	0.3	No Relaxation

BDL-Below Detection Limit

Tested By


(Manali Vyas)
Asst.Chemist

Authorized Signatory


(Puran Singh)
Sr.Chemist

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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CIN- U29299RJ1971PLC001379



TC-5941

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Report No.20230811037

Report Issue Date: - 22.08.2023

TEST REPORT

1. Name of Customer : Ahirpura Limestone Mine,
Mine Lease Area (MLA) – 02/97,
M/s J.K. Cement Works Nimbahera,
Tehsil - Nimbahera, District – Chittorgarh,
State- Rajasthan (INDIA),
2. Purchase Order No. : 4600093209 Dated:- 13.06.2023
3. Sample Identification : Potable water
4. Condition of sample : Sealed/Ok
5. Source/ Location : Potable & Domestic water-Murliya Block
(Pit-water Surface water)
6. Sampling done by : Environmental & Chemical Laboratory, Wolkem India Limited
7. Sample Received on : 11.08.2023
8. Period of Testing : 11.08.2023 to 14.08.2023
9. Environmental conditions : Temp 32.6°C/ RH 54%
10. Sampling method : IS: 1622-1981

S. No.	Parameters	Test Method	Unit	Results	Limit (IS 10500:2012)
Biological Testing – Water- Potable water					
1.	E.coli	IS 15185:2016	Per/ 100ml	Not Detectable	Shall not be detectable/100ml
2.	Total Coliforms	IS 15185:2016	Per/ 100ml	Not Detectable	Shall not be detectable/100ml

Authorized Signatory


Amreesh Kumar

(Head & Dy. GM)

Microbiology Testing Laboratory

Wolkem India Limited

E-102, M.I.A., UDAIPUR (Rajasthan)

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Page 1 of 1
End of Report



Report No. 20230526034

Report Issue Date: - 14.06.2023

TEST REPORT

1. Name of Customer : M/s J.K. Cement Works Nimbahera,
Tehsil - Nimbahera, District – Chittorgarh,
State- Rajasthan (INDIA),
2. Purchase order Number : 4600093209 Dated:- 13.06.2023
3. Sample Identification : Waste water
4. Condition of Sample : Sealed/Ok
5. Date & Time of Sampling : 24.05.2023/10:40AM
6. Sample received on : 26.05.2023
7. Period of Analysis : 26.05.2023 to 09.06.2023
8. Name of Sample & Location : Ahirpura Mines work shop water
9. Method of Sampling : IS:3025 (Pt 1) 1987

S. No	Environment Condition	Unit	Results
1.	Ambient Temperature	°C	30.8
2.	Relative Humidity	%	25

S. No.	Parameters	Test Method	Unit	Results	Limits as per Environment Protection rules,1986
Chemical Testing– Pollution and Environment - Waste Water					
1.	pH (at 27°C)	IS:3025(Part-11)	-	7.62	5.5 – 9.0
2.	Total Suspended Solid	IS:3025(Part-17)	mg/L	34	100
3.	Oil & Grease	IS:3025(Part-39)	mg/L	3.8	10
4.	B.O.D. 3 days @27°C	IS:3025(Part-44)	mg/L	18.0	30
5.	Chemical Oxygen Demand	IS:3025 (Part-58)	mg/L	133.24	250
6.	Chlorides as Cl-	IS:3025(Part-32)	mg/L	232	-
7.	Sulphate as SO ₄	APHA 23 rd Ed.4500 SO ₄ E	mg/L	132.4	Not Specified
8.	Phosphate as PO ₄	IS:3025(Part-31)	mg/L	BDL(<0.1)	5.0
Chemical Testing – Residues – Waste water					
9.	Copper as Cu	APHA 23 rd Ed.3111B	mg/L	BDL(<0.1)	3.0
10.	Zinc	APHA 23 rd Ed.3111B	mg/L	0.10	5.0
11.	Iron as Fe	APHA 23 rd Ed.3111B	mg/L	0.11	3.0
12.	Total Chromium	APHA 23 rd Ed.3111B	mg/L	BDL(<0.02)	2.0

BDL-Below Detection Limit

Tested By

(Leena Sharma)
Chemist

Authorized Signatory

(Puran Singh)
Sr.Chemist

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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CIN- U29299RJ1971PLC001379



TC-5941

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Report No. 20230811031

Report Issue Date: - 22.08.2023

TEST REPORT

1. Name of Customer : M/s J.K. Cement Works Nimbahera,
Tehsil - Nimbahera, District – Chittorgarh,
State- Rajasthan (INDIA),
2. Purchase order Number : 4600093209 Dated:- 13.06.2023
3. Sample Identification : Waste water
4. Condition of Sample : Sealed/Ok
5. Date & Time of Sampling : 10.08.2023/05:50PM
6. Sample received on : 11.08.2023
7. Period of Analysis : 11.08.2023 to 22.08.2023
8. Name of Sample & Location : Treated waste water source (Ahirpura Mine Workshop)
9. Method of Sampling : IS:3025 (Pt 1) 1987

S. No	Environment Condition	Unit	Results
1.	Ambient Temperature	°C	32.2
2.	Relative Humidity	%	49

S. No.	Parameters	Test Method	Unit	Results	Limits as per Environment Protection rules, 1986
Chemical Testing– Pollution and Environment - Waste Water					
1.	pH (at 27°C)	IS:3025(Part-11)	-	7.50	5.5-9.0
2.	Total Suspended Solid	IS:3025(Part-17)	mg/L	42	100
3.	Oil & Grease	IS:3025(Part-39)	mg/L	4.0	10
4.	B.O.D. 3 days @27°C	IS:3025(Part-44)	mg/L	19.2	30
5.	Chemical Oxygen Demand	IS:3025 (Part-58)	mg/L	141.12	250
6.	Residual Chlorine	IS:3025(Part-26)	mg/L	BDL(<0.01)	1.0
7.	Chlorides as Cl-	IS:3025(Part-32)	mg/L	244	-
8.	Sulphate as SO ₄	APHA 23 rd Ed.4500 SO ₄ E	mg/L	143.6	Not Specified
9.	Phosphate as PO ₄	IS:3025(Part-31)	mg/L	BDL(<0.1)	5.0
Chemical Testing – Residues – Waste water					
10.	Copper as Cu	APHA 23 rd Ed.3111B	mg/L	BDL(<0.1)	3.0
11.	Zinc	APHA 23 rd Ed.3111B	mg/L	0.14	5.0
12.	Iron as Fe	APHA 23 rd Ed.3111B	mg/L	0.10	3.0
13.	Total Chromium	APHA 23 rd Ed.3111B	mg/L	BDL(<0.02)	2.0

BDL-Below Detection Limit

Tested By

(Signature)
(Manali Vyas)
Asst.Chemist

Authorized Signatory

(Signature)
(Puran Singh)
Sr.Chemist

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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TC-5941

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Report No.20230811059


Report Issue Date: - 22.08.2023

TEST REPORT

1. Name of Customer : M/s J.K. Cement Works Nimbahera,
Tehsil - Nimbahera, District – Chittorgarh,
State- Rajasthan (INDIA),
2. Purchase Order No. : 4600093209 Dated:- 13.06.2023
3. Sample Identification : Waste water
4. Condition of sample : Sealed/Ok
5. Source/ Location : Treated waste water source
(Ahirpura Mine Workshop)
6. Sampling done by : Environmental & Chemical Laboratory, Wolkem India Limited
7. Sample Received on : 11.08.2023
8. Period of Testing : 11.08.2023 to 17.08.2023
9. Environmental conditions : Temp 32.2°C/ RH 49%
10. Sampling method : IS: 1622-1981

S. No.	Parameters	Test Method	Unit	Results	Limits as per Environment Protection rules, 1986
Biological Testing – Water- Waste water					
1.	E.coli	IS 1622:1981	MPN/ 100ml	60	-
2.	Total Coliforms	IS 1622:1981	MPN/ 100ml	280	-

Authorized Signatory


Anreesh Kumar
(Head & Dy. GM)

Microbiology Testing Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

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TC-5941

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Instantel JK CEMENT LIME STONE MINES NIMBAHERA

Date/Time Long at 13:26:11 July 1, 2023
Trigger Source Geo: 0.700 mm/s, Mic: 148.0 dB(L)
Range Geo: 31.75 mm/s
Record Time 3.25 sec (Auto=3Sec) at 2048 sps

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

Serial Number BE18244 V 10.72-1.1 Minimate Blaster
Battery Level 5.8 Volts (Battery Low)
Unit Calibration June 5, 2023 by UES New Delhi
File Name T244K3A2.NN0

Post Event Notes
 JK CEMENT LIME STONE MINES NIMBAHERA (MURLIA BLOCK)
 III Bench N S-PIT DIRECTION OF BLAST= S-N BID : 4-4/23
 NO. OF HOLES= 17, MAX.CHARGE/DELAY= 17.64 KG.
 DIST.FROM BLAST TO INSTRUMENT = 300 MTR.Back

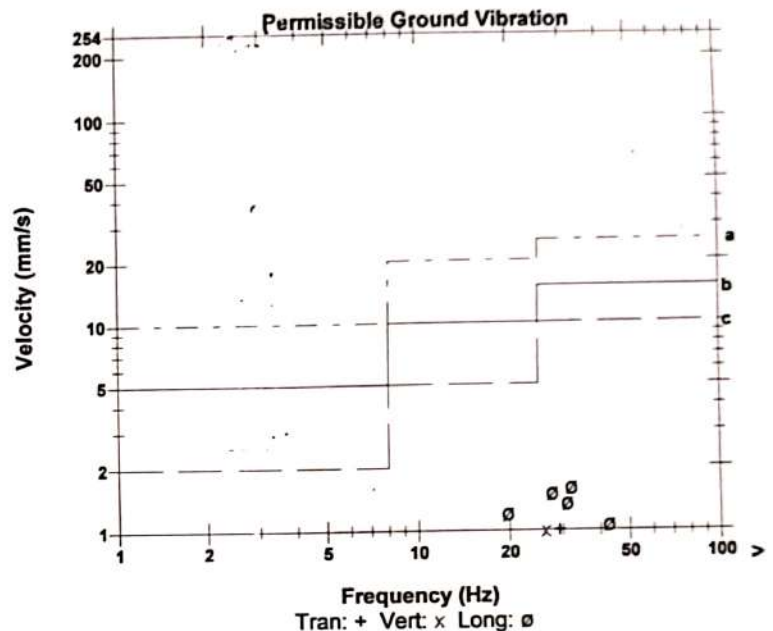
Extended Notes

Microphone Linear Weighting
PSPL 104.9 dB(L) at 1.171 sec
ZC Freq 5.1 Hz
Channel Test Passed (Freq = 20.1 Hz Amp = 434 mv)

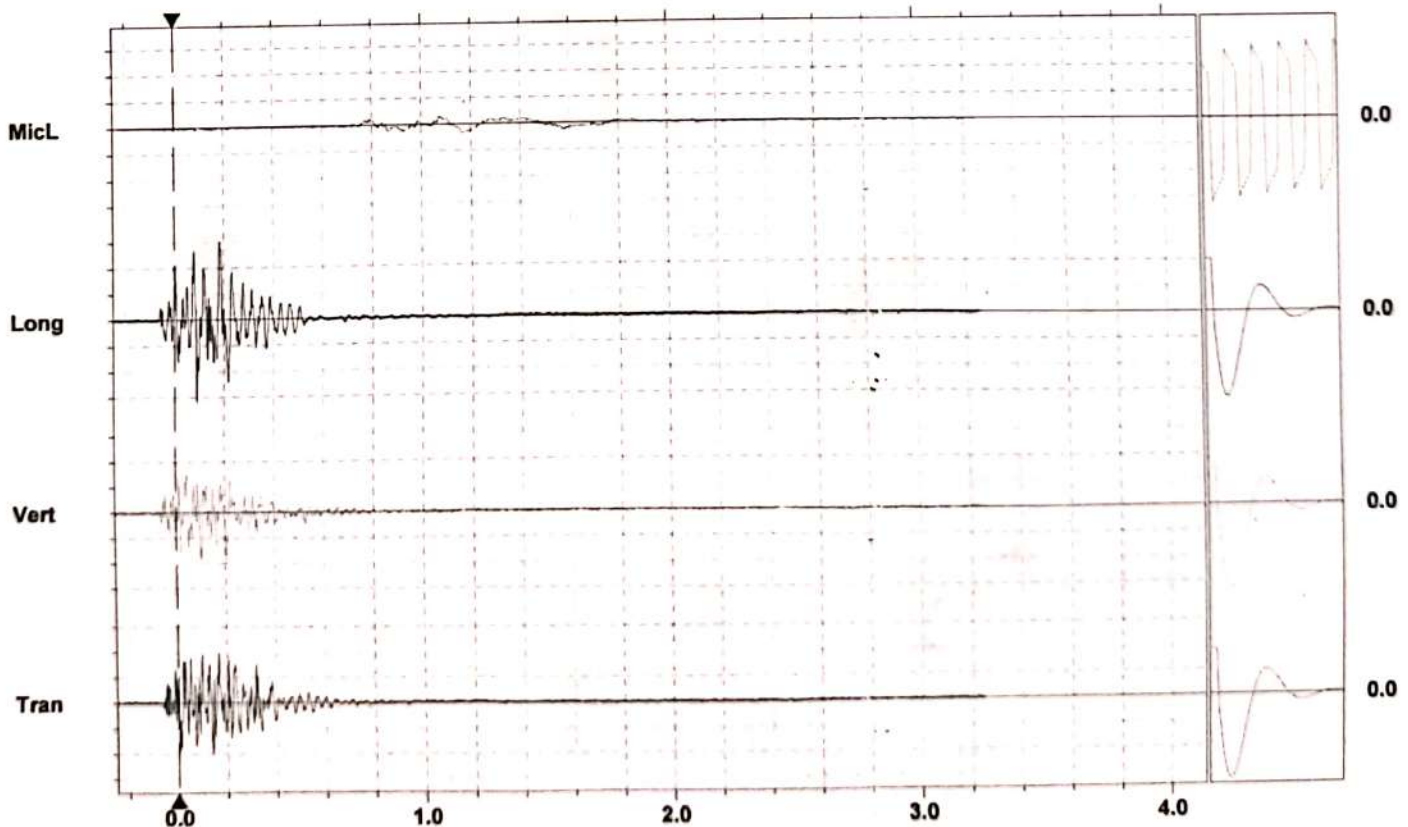
	Tran	Vert	Long	
PPV	1.000	1.000	1.603	mm/s
ZC Freq	29	26	32	Hz
Time (Rel. to Trig)	0.167	0.205	0.091	sec
Peak Acceleration	0.060	0.043	0.060	g
Peak Displacement	0.004	0.005	0.008	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.6	7.7	7.9	Hz
Overswing Ratio	3.5	3.3	3.5	

Peak Vector Sum 1.632 mm/s at 0.090 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: 0.500 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
April '2023 to September'2023

Annexure-07

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

Month	Near Mines Gate		Near Mine Water Pump House	
	DAY	NIGHT	DAY	NIGHT
Apr-23	65.4	51.7	64.2	50.9
May-23	69.4	53.5	64.5	52.1
Jun-23	64.2	51.2	68.7	50.8
Jul-23	66.3	52.5	70.2	56.4
Aug-23	64.5	53.2	68.2	54.6
Sep-23	68.1	51.0	64.7	52.7

J.K. Cement WORKS, NIMBAHERA (RAJ)
NIMBAHERA - AHIRPURA LIMESTONE MINE (Murlia block)
SIX MONTHLY NOISE MONITORING REPORT
April '2023 to September'2023

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

Month	Near Mines Gate		Near Ravana Office	
	DAY	NIGHT	DAY	NIGHT
Apr-23	68.4	49.8	64.8	48.6
May-23	66.2	49.5	63.7	47.1
Jun-23	63.8	53.6	66.9	54.9
Jul-23	65.8	54.9	64.9	53.7
Aug-23	67.4	52.1	66.8	54.8
Sep-23	69.1	51.7	63.4	50.8

Report Issue Date: 15.06.2023

TEST REPORT

1. Name of Customer : Ahirpura Limestone Mine,
Mine Lease Area (MLA) - 403
M/s J.K. Cement Works Nimbahera,
Tehsil - Nimbahera, District - Chittorgarh,
State- Rajasthan (INDIA),
2. Purchase order Number : 4600093209 Dated:- 13.06.2023
3. Date of Monitoring : 30.05.2023
4. Sample Identification : Noise Sample
5. Condition of Sample : NA
6. Sample Received On : 31.05.2023
7. Period of Analysis : NA
8. Test Methods Reference : IS: 9989- 1981 (Reaffirmed 2014)

Noise Level Monitoring Results

S. No	Station Point	Report No.	Sound pressure Level dB Day Time		Sound pressure Level dB Night Time	
			Maximum	Minimum	Maximum	Minimum
1.	Near water pump house, Ahirpura block	20230531274	57.9	53.7	50.4	45.6
2.	Near mine office, Ahirpura block	20230531275	63.3	57.5	56.6	52.4
3.	Near mine office, Murlia block	20230531276	64.8	54.1	52.8	49.3
4.	Near Ravana office, Murlia block	20230531277	67.3	61.9	63.9	57.2

CPCB Norms

S. No	Category of area	Day time dB 6.00 AM to 10.00PM	Night Time dB 10.00PM to 6.00am
1.	Industrial area	75.0	70.0
2.	Commercial area	65.0	55.0
3.	Residential area	55.0	45.0
4.	Silence area	50.0	40.0

Tested By

Leena
(Leena Sharma)
Chemist

Authorized Signatory

Amresh Kumar
(Amresh Kumar)

Lab Incharge

Environmental & Chemical Laboratory
Wolkem India Limited
E-102, M.I.A., UDAIPUR (Rajasthan)

Note

1. Complaint Register is available in lab / Email ID lab.office@wolkem.com
2. The results listed refer only to the tested sample (s) and parameter (s) Endorsement of product is neither inferred nor implied.
3. This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.
4. The samples will be destroyed after 15 days from the date of issue of test certificate unless otherwise specified.
5. Any discrepancy in test results should be reported within 15 days.

Page 1 of 1

End of Report

Registered & Corporate Office :

"Wolkem House", E-101, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan-India

Phone : +91 294 2494600 - 02 E-mail : info@wolkem.com

CIN- U29299RJ1971PLC001379



TC-5941

Our Commitment.. Your Trust

Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongri, Jaipur (Raj.) - 302 004

Result of Ambient Noise Level Monitoring

DATE OF RECEIPT : 14/07/2023

MONITORED BY : Surya Pratap Meena, JSO, Chittorgarh

S.No.	Lab Sample No	Name of Industry / Place	Point of Collection / Location	Date of Monitoring	Noise Level In Day Time(Leq dB(A))	Noise Level In Night Time(Leq dB(A))
1	7004	J.K.Cement Works,AhirpuraAhirpura Tehsil:Nimbahera District:Chittorgarh	Ambient Noise Level Monitoring near Mine office (Murliya Block)	14/07/2023	46.8	ND


BOARD ANALYST

Rajasthan State Pollution Control Board

* ND = Not Done

Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongri, Jaipur (Raj.) - 302 004
Result of Ambient Noise Level Monitoring

DATE OF RECEIPT : 14/07/2023

MONITORED BY : Surya Pratap Meena, JSO, Chittorgarh

S.No.	Lab Sample No	Name of Industry / Place	Point of Collection / Location	Date of Monitoring	Noise Level In Day Time(Leq dB(A))	Noise Level In Night Time(Leq dB(A))
1	7005	J.K.Cement Works,AhирpuraAhирpura Tehsil:Nimbahera District:Chittorgarh	Ambient Noise Level Monitoring near Rawana Office (Murliya Block)	14/07/2023	52.5	ND



BOARD ANALYST

Rajasthan State Pollution Control Board

* ND = Not Done

Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongri, Jaipur (Raj.) - 302 004
Result of Ambient Noise Level Monitoring

DATE OF RECEIPT : 14/07/2023

MONITORED BY : Surya Pratap Mecna, JSO, Chittorgarh

S.No.	Lab Sample No	Name of Industry / Place	Point of Collection / Location	Date of Monitoring	Noise Level In Day Time(Leq dB(A))	Noise Level In Night Time(Leq dB(A))
1	7006	J.K.Cement Works,AhirkpuraAhirkpura Tehsil:Nimbahera District:Chittorgarh	Ambient Noise Level Monitoring near Mine office (Ahirkpura Mine)	14/07/2023	54.7	ND



BOARD ANALYST

Rajasthan State Pollution Control Board

* ND = Not Done

Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongri, Jaipur (Raj.) - 302 004
Result of Ambient Noise Level Monitoring

DATE OF RECEIPT : 14/07/2023

MONITORED BY : Surya Pratap Meena, JSO, Chittorgarh

S.No.	Lab Sample No	Name of Industry / Place	Point of Collection / Location	Date of Monitoring	Noise Level In Day Time(Leq dB(A))	Noise Level In Night Time(Leq dB(A))
1	7007	J.K.Cement Works,AhirpuraAhirpura Tehsil:Nimbahera District:Chittorgarh	Ambient Noise Levl Monitoring near pump house (Ahirpura Mine)	14/07/2023	66.5	ND


BOARD ANALYST

Rajasthan State Pollution Control Board

* ND = Not Done

**JK Cement Limestone Mine (Murlia Block)
PUC Certificate Status.**

Date: -25.05.2023

S No.	Vehicle No.	PUCC No.	Validity
1	RJ09GC0328	D1007RJ03113279	05-12-2023
2	RJ09GC1128	D1007RJ03113046	28-11-2023
3	RJ09GC1228	D1007RJ03113284	06-06-2024
4	RJ09GC1328	D1007RJ03113109	29-11-2023
5	RJ09GC1428	D1007RJ03113275	05-06-2024
6	RJ09GC2328	D1007RJ03113347	08-12-2023
7	RJ09GC2528	D1007RJ03113017	27-11-2023
8	RJ09GB5028	D1007RJ03113022	27-11-2023
9	RJ09GB5928	D1007RJ03113045	28-11-2023
10	RJ09GB2528	D1007RJ03113277	05-12-2023
11	RJ09GB2728	D1007RJ03113274	05-12-2023



L S Pokharna

Dy GM (Mines)

J.K. CEMENT WORKS, MANGROL

J.K. Cement Lime Stone Mine (Murli Block)

Vehicular Exhaust Emission Measurement

Anjum Extraction Pvt. Ltd., Nimbahera

Date : 22-05-2023								
Sr. No.	Type of Machine	Tipper No.	PUC Limit	No. of Reading	Average PUC Limit as per report	Date of Testing	Valid up to	Remark/D.O.C.
1	Tipper	RJ09-GC-0328	< 65 %	3	21.20%	06-06-2023	05-12-2023	
2	Tipper	RJ09-GC1128	< 65 %	3	21.30%	29-05-2023	28-11-2023	
3	Tipper	RJ09-GC-1228	< 50 %	3	18.40%	06-06-2023	06-06-2024	
4	Tipper	RJ09-GC-1328	< 65 %	3	22.30%	31-05-2023	29-11-2023	
5	Tipper	RJ09-GC1428	< 50 %	3	20.20%	06-06-2023	05-06-2024	
6	Tipper	RJ09-GC-2328	< 65 %	3	22.30%	09-06-2023	08-12-2023	
7	Tipper	RJ09-GC-2528	< 65 %	3	18.30%	28-05-2023	27-11-2023	
8	Tipper	RJ09-GC-3028	< 65 %	3	24.76%	28-05-2023	27-11-2023	
9	Tipper	RJ09-GC-3228	< 65 %	3	21.56%	29-05-2023	28-11-2023	
10	Tipper	RJ09-GC-2528	< 65 %	3	23.60%	06-06-2023	05-12-2023	
11	Tipper	RJ09-GC-2728	< 65 %	3	25.30%	06-06-2023	05-12-2023	

L.S. POKHARNA**Dy. G.M. (Mines)**

Pucc No :	D1007RJ03113279
Vehicle No :	RJ09GC0328
Customer Name :	ANJUM EXTRACTION PVT.LTD
Customer Mobile :	8890177878
Year of Regn :	01-03-2017
Type of Vehicle :	TRUCK
Make :	Ashok Leyland Ltd
Model :	LAYLAND
Test Date :	06-06-2023
Time :	05:03:31 PM
Valid UpTo :	05-12-2023
Center Name :	Raja Ram Mobile Puc Van,9462673707,(RJ07-BA-227)
Center Address :	Jaipur Road,Banswara
Licence No :	RJ03-1006/1007
Test Result :	Pass

Flushing Cycle

Avg	RPM Min	RPM Max	Temp
687		1932	0

Sr. No.	RPM Min	RPM Max	Km	HSU%	Temp
1	703	1955	0.554	21.2	000.0
2	703	1913	0.635	23.9	000.0
3	703	1938	0.479	18.6	000.0
Mean			0.556	21.2	

VALID IN ALL INDIA

Photo of Vehicle



Prescribed Limit for Diesel vehicle	1/m(Light Absorption Co-efficient)	Hartridge Units (HSU)%
Free Acceleration BS II & III	2.45	65
Free Acceleration BS IV	1.62	50
Free Acceleration BS VI 4/3 wheelers	0.7 / 1.5	26 / 48

Validity Six Months for Bharat Stage III or below and one year for Bharat Stage IV/VI vehicles.

Certificate price: ₹ 100

Get Certificate renewed within the expiry date.

Seal of Testing Station

Testing Station Code:

D1007RJ03

Authorised Signatory

CERTIFICATE IS ONLY VALID IF SMS RECEIVED FROM REJLTRANSPORT DEPT. AND ONLY DESTROY THE INVALID CERTIFICATE.

Transport Dept. Govt. of Rajasthan

Transport Dept. Govt. of Rajasthan



Veh Reg No : RJ09GC0328
PUC No. : D1007RJ03113279
Valid up to : **05-12-2023**
Scan QR Code to Validate



Veh Reg No : RJ09GC0328
PUC No. : D1007RJ03113279
Valid up to : **05-12-2023**
Scan QR Code to Validate

FORM - O

(See rule 29F (2) and 29L)

Report of Medical Examination under rule 29 B

(To be issued in triplicate **)

Certificate No.

Certified that Sh. Dinesh Dhabli Employee of Anjum Extraction Pvt. Ltd. Working as
in J.K. Cement Limestone Mine (Murla Block), Form-A No. - has been examined for an initial / periodical
medical examination. He appears to be 28 years of age.

The findings of the examining authority are given in the attached sheet. It is considered that -

Shri Sh. Dinesh Dhabli.

((a)) * is medically fit for any employment in mines;

((b)) * is suffering from and is medically unfit for -

(i) any employment in mine; or

(ii) any employment below ground; or

(iii) any employment on work

((c)) * is suffering from should get this disability cured / controlled * and should be again examined -
within a period of months. He will appear for re-examination with the result of test of
and the opinion of

Specialist from He may be permitted / not permitted * to carry on his duties during this period



Signature of the examining

Authority

Dr. S. K. CHAUDHARY
Name and designation in
C.M.O.
Block letters in Works
NIMBAHARA (Raj.)
Reg. No. 21732

*Delete whatever is not applicable** One copy of the certificate shall be handed over to the person concerned and another
copy shall be sent to the manager of the mine concerned by registered post and the third copy shall be retained by
the examining authority.

FORM - O (Continued)

Report of the examination authority

(To be filled in for every medical examination whether initial or periodical or re-examination or after cure / control of disability)

Annexure to certificate No. ----- as a result of medical examination on -----

Identification Mark -----

Left thumb impression of the candidate.



1. General Development

Good / Fair / Poor

2. Height-----166-----cms.

3. Weight-----65-----kg.

4. Eyes :-

(i) Visual acuity-----N-----Distance vision (with or without glasses)

(ii) Any organic disease of eyes-----none-----

(iii) Night blindness-----

(iv) Color blindness-----no.-----

(v) Squint-----

(to be tested in special cases)

5. Ears: -

(i) Hearing Right ear-----N-----Left ear-----N-----

(ii) Any organic disease-----none-----

6. Respiratory system (Chest measurement) :-

(i) After full inspiration-----97-----cms.

(ii) After full expiration-----94-----cms.

7. Circulatory system :-

(i) Blood Pressure-----120/82-----

(ii) Pulse-----80-----

8. Abdomen :-

- (ii) Tenderness none
(iii) Liver } NP
(iii) Spleen } NP
(iii) Tumor not seen

9. Nervous system :-

- (i) History of fits or epilepsy } No
(ii) Paralysis } No
(iii) Mental Health fair

10. Locomotors system } (N)

11. Skin } (N)

12. Hernia } no.

13. Hydrocele } no.

14. Any other abnormality none

15. Urine :-
(i) Reaction acidic

(ii) Albumin } NP

(iii) Sugar } NP

16. Skiagram of chest: NAD

17. Any other test considered necessary by the examining authority-----

18. Any opinion of specialist considered necessary-----

Signature of the examining Authority.

Dr. S. K. J. K. Cement Works
NIMBAHERA (Raj.)
Reg. No. 21732

Place: Nimbahera

Report of Medical Examination under Mines Rules 29 B

(To be used in continuation of Form O)

Certificate No.:-

Name: Sh. Dinesh Singh

Identification Marks:- Mole over Chest

Result of Lung Function Test (Spirometry)

Particulars	Predicted Value	Performed Value	% of Predicted
Forced Vital Capacity (FEV)	2.86	2.96	103
Forced Vital Capacity -1 (FEV)	2.19	2.76	126
FEV-1 / FEC	76.57	93.24	122
Peak Expiratory Flow	7.76	9.45	122

Spirometry report enclosed

Signature of Examination Authority

DE. S. K. CHAUDHARY
 C. MCK. C. Works
 J. K. Cement Works
 NIMBAHERA (Ra.
 Reg. No. 11732

DE. S. K. CHAUDHARY
 C. MCK. C. Works
 J. K. Cement Works
 NIMBAHERA (Ra.
 Reg. No. 11732

Report of Medical Examination as per the recommendations of National Safety Conference In Mines

(To be used in continuation of Form O)

Certificate No.: -

Name: - Sh. Dinesh Dhobi

Identification Marks: - Mole over chest

01. Cardio logical Assessment: -

Auscultation	S1	3 @
	S2	
	Additional Sound	
Electrocardiographs (12 leads) findings		<u>normal</u> Normal / Abnormal

Enclosed ECG

02. Neurological Assessment: -

Findings	Normal / Abnormal
Superficial Reflexes	} @
Deep Reflexes	
Peripheral Circulation	
Vibrational Syndromes	

03. ILO Classifications of Chest Radiograph: -

Profusion of Pneumoconiotic opacities	Grade	Types
Present / <u>Absent</u>	-	-

Enclose Chest Radiograph

Continued: -

Condition Type	Left Ear	Right Ear
Ear Condition	Normal / Abnormal	Normal / Abnormal
Bone Condition	Normal / Abnormal	Normal / Abnormal

Enclosed Audiometry Report

05. Pathological / Microbiological Investigations:-

Sr. No.	Tests	Findings
01.	Blood - Tc, De, Hb, ESR, Platelets	WNL / Abnormal
02.	Blood Sugar – Fasting & PP	WNL / Abnormal
03.	Lipid Profile	WNL / Abnormal
04.	Blood Urine, Creatinine	WNL / Abnormal
05.	Urine Routine	WNL / Abnormal
06.	Stool Routine	WNL / Abnormal

06. Special Test foe Mn Exposure:-

Neurological Disturbance	Behavioral Disturbances	
	Special Defect	Present / Not Present
	Tremor	Present / Not Present
	Adiadocokinesia	Present / Not Present
	Emotional Changes	Present / Not Present

Any other Test Required

Signature of Examination Authority

Dr. S. K. CHANDRAN

J. K. Cellular Works
NIMHANS (Raj.)
Reg. No. 21732