

NBH/PC-14/C12/

Through Email

Date: 22.05.20223

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 Maliakhhera Limestone Mine (ML 04/2003) by J. K. Cement Works, Nimbahera, Dist. Chittorgarh, (Rajasthan (J. K. Cement Ltd.).

Ref.: EC letter no. - J-11015/42/2019/-IA. II (M) dated. 19th August 2021

Dear Sir,

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

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

- Padam Tower, 19 DDA Community Centre Okhla, Phase - 1, New Delhi - 110020, India
- +011-49220000
- admin.padamtower@jkcement.com
- www.jkcement.com

JK SUPER
CEMENT
BUILD SAFE

Manufacturing Units at :
Nimbahera, Mangrol, Gotan (Rajasthan) | Muddapur (Karnataka)
Jharli (Haryana) | Katni (M.P.) | Aligarh (U.P.) | Balasinor (Gujarat)

JK CEMENT
WallMaxX
White Cement Wall Putty



Form for Uploading Six Monthly Compliance Report

Proposal Details

Proposal No.	IA/RJ/MIN/210712/2019	Project Name	Proposal for Environmental Clearance for Expansion of Maliakhera Limestone Mine (ML No.: 04/2003, Area-315.409 Ha.) from 3.2 Million TPA (Limestone) to 6.3 Million TPA of Total Excavation (Limestone: - 5.6 Million TPA, Inter-burden (Clay)/ Screen rejects/Waste:- 0.245 Million TPA, Sub-grade Mineral (Mineral rejects):- 0.425 Million TPA and Top Soil: - 0.030 Million TPA) with No change in existing crusher (1500 TPH) & OLBC situated at Village - Maliakhera, Tehsil - Nimbahera and District - Chittorgarh, Rajasthan by M/s. J.K. Cement Limited, Kanpur.
Category	A	MoEF File No.	J-11015/42/2019-IA.II (M) dated 19/08/2021
Name of the Entity / Corporate Office*	M/s. J.K. Cement Works, Nimbahera, Kailash Nagar, District Chittorgarh-31261, Rajasthan (unit of J K Cement Limited, Kanpur)		
Entity's PAN*	AABCJ0355R		
Entity Name as per PAN	J K CEMENT LIMITED.		

Compliance Letter/Report

Reporting Year*	2023	Reporting Period*	October-2022 to March-2023
Remarks (if any)	Submitting herewith the Six Monthly EC Compliance Report for the period: October-2022 to March-2023 of Maliakhera Limestone Mine (ML No.: 04/2003, Area - 315.409 Ha.) from 3.2 Million TPA (Limestone) to 6.3 Million TPA of Total Excavation with No change in existing crusher (1500 TPH) & OLBC situated at Village - Maliakhera, Tehsil - Nimbahera and District - Chittorgarh, Rajasthan by M/s. J.K. Cement Limited, Kanpur.		

Details of Production and Project Area

Date of Commencement of Project /Activity:*	15.04.1986	Project Area as Per EC Granted (In Case of Mine Lease):*	315.409 ha.
Actual Project Area (In Case of Mine Lease):*	265.66 ha.		

		PRODUCTION CAPACITY : Detail of Mines Excavation Quantity for the FY: 2022-23			
S. No	Particulars	Unit	Permitted Quantity As Per EC	Production during last Financial Year: 2021-22	Actual Production Quantity for the FY: 2022-23
1	Cement Grade Limestone	Million TPA	5.600	3.633279	4.596961

2	Sub-Grade Limestone	Million TPA	0.425	0.317649	0.390342
3	IB/Screen Reject/Waste	Million TPA	0.245	0.058467	0.065167
4	Top Soil	Million TPA	0.030	0.019440	0.026460
Total Excavation Quantity		Million TPA	6.300	4.028835	5.07893


Maliakhara Limestone Mine (M.L. No.: 04/2003, ML Area: 315.409 ha.)

EC Compliance Report: October-2022 to March-2023

Environmental Clearance for Expansion of Maliakhara Limestone Mine (ML No.: 04/2003, Area-315.409 Ha.) from 3.2 Million TPA (Limestone) to 6.3 Million TPA of Total Excavation (Limestone: - 5.6 Million TPA, Inter-burden (Clay)/ Screen rejects/Waste:- 0.245 Million TPA, Sub-grade Mineral (Mineral rejects):- 0.425 Million TPA and Top Soil: - 0.030 Million TPA) with No change in existing crusher (1500 TPH) & OLBC situated at Village – Maliakhara, Tehsil–Nimbahera and District – Chittorgarh, Rajasthan by M/s. J.K. Cement Limited, Kanpur.

Environment Clearance vide No.: J-11015/42/2019-IA.II (M), dated 19/08/2021

A.	SPECIFIC CONDITION			
S. No.	Condition Type	Condition Details	Self Declaration	Remarks / Reason
1	Statutory compliance	The safety zone from nearby village currently maintained at 300 m till the life of mine must be maintained and in case if there is a plan to access less than this distance, specific statutory permission will be required for accessing the minerals, besides, fresh studies to assess impacts of blasting on the adjoining village due to noise, vibration and air pollution be done and submitted.	Complied	Safety zone of 300 m has been maintained toward Maliakhara & Pipliya-Gadiya Villages, same will be maintained till conceptual stage. If any changes prior permission will be obtained.
2	Statutory compliance	The project proponent should explore the possibility of plantation in the adjoining area outside the lease boundary between the village and the mine lease to create a barrier of at least 50 m width belt.	Complied	Nearest village from mine lease are Maliakhara and Pipliya-Gadiya which plantation work is going on in width of more than 50m within mine lease.

3	Mining Plan	It is proposed to create a water reservoir at 215.902 Ha at the end of closure of mine. PP must submit a detailed plan that how will this water reservoir be protected, utilized for villagers in agriculture after necessary treatment.	Complied	Agreed & noted.								
4	Mining Plan	The project proponent should explore the possibility of use of permanent water sprinklers for control of dust on the haul roads within the mine lease area.	Complied	<ul style="list-style-type: none">• Unit has deployed two nos. of mobile water tankers of 18 KL & 10 KL capacity for regular water sprinkling on the haul roads to prevent dust generation during transportation of limestone through dumpers.• Water tanker has also been equipped with high pressure jet system to wet the blasted muck for suppression the fugitive dust emission during loading activity.• Unit has implemented the permanent water sprinklers on ramp of crusher. 								
5	Mining Plan	PP should ensure plantation in the mined out pits in the benches which are not sub-merged in water with 95% survival rate.	Complied	Presently, mine pits are in active condition, plantation will be done in the benches of mined out pits.								
6	Mining Plan	OLBC must be completed within 5 months as committed during the presentation.	Complied	OLBC has been commissioned on 12/01/2022, which has intimated to Ministry.								
7	Mining Plan	PP must not exceed the total excavation that it has considered for preparation of EMP at any time during the operation.	Complied	<p>Excavation quantity is maintaining well within the permitted limit. Details of excavation Million TPA for the FY 2022-23 is as below:</p> <table><tr><th>Limestone</th><th>IB/Screen reject/Waste</th><th>Sub Grade (Mineral Reject)</th><th>Top Soil</th></tr><tr><td>4.596961</td><td>0.065167</td><td>0.390342</td><td>0.026460</td></tr></table>	Limestone	IB/Screen reject/Waste	Sub Grade (Mineral Reject)	Top Soil	4.596961	0.065167	0.390342	0.026460
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4.596961	0.065167	0.390342	0.026460									

8	Green Belt	The PP must submit the status report of plantation in the periphery, non-mineral zone, safety zone, avenue plantation, and either side of village road to the Ministry in every 6 months.	Complied	Details of plantation developed are below: - <table border="1"> <thead> <tr> <th>Location of plantation</th><th>Total Area</th><th>Total Plantation Up to March 2023</th><th>Total Plantation in nos. FY-2022-23</th><th>Remark</th></tr> </thead> <tbody> <tr> <td>Periphery area (Safety Zone)</td><td>6.128 ha</td><td>3.17 ha covered with 7924 nos</td><td>0.12 ha. Covered with 300 saplings.</td><td>Remaining Periphery plantation area 2.98 ha will be done in remaining period of FY 2023-24</td></tr> <tr> <td>Non mineral area/ Village Road/ Avenue Plantation</td><td></td><td>Cumulative within lease – 33.15 ha. with 57612 nos. of saplings. Cumulative outside lease – 5.72 ha. with 13779 nos. of saplings.</td><td>During 2022-23 within lease – 3.17 ha. with 10652 nos. of saplings. During 2022-23 outside lease – NIL</td><td>Plantation is done in F.Y. 22-23 including gap filling and new area.</td></tr> <tr> <td>Total Area</td><td></td><td>42.04 ha (79315 sapling)</td><td>3.29 ha (10952 saplings)</td><td></td></tr> </tbody> </table>	Location of plantation	Total Area	Total Plantation Up to March 2023	Total Plantation in nos. FY-2022-23	Remark	Periphery area (Safety Zone)	6.128 ha	3.17 ha covered with 7924 nos	0.12 ha. Covered with 300 saplings.	Remaining Periphery plantation area 2.98 ha will be done in remaining period of FY 2023-24	Non mineral area/ Village Road/ Avenue Plantation		Cumulative within lease – 33.15 ha. with 57612 nos. of saplings. Cumulative outside lease – 5.72 ha. with 13779 nos. of saplings.	During 2022-23 within lease – 3.17 ha. with 10652 nos. of saplings. During 2022-23 outside lease – NIL	Plantation is done in F.Y. 22-23 including gap filling and new area.	Total Area		42.04 ha (79315 sapling)	3.29 ha (10952 saplings)	
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Total Area		42.04 ha (79315 sapling)	3.29 ha (10952 saplings)																					
9	Statutory compliance	The compliance to public hearing as indicated in the table with an investment of 514 Lakhs be submitted annually to the Ministry	Complied	Details of PH issue addressed are in below table:																				

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S. N.	Activity Head	CSR Project or activities	Time bound Action Plan with Budgetary allocation	Capital Cost (Amount Rs. in Lakh)					
				2021-22	Work Completion Status	2022-23	Work Completion Status	2023-24	Total
	Community Infrastructure Development	Gaushala in Village Maliakheri.	There is an issue of land availability from panchayat however, proposal for Construction of Gaushala in village Maliakhedi has been taken up, which will be done in FY 2021-22 with a budget of Rs. 10 Lakh.	10	There is an issue of land availability from panchayat	-	There is an issue of land availability from panchayat	-	10
		Dairy building in Village- Karunda	Proposal for Construction of dairy building in village Karunda has been taken up, which will be done in FY 2021-22 after getting proposal from Panchayat.	20	There is an issue of land availability from panchayat	-	There is an issue of land availability from panchayat	-	20
		CC road in Village- Maliakheri	Repair of CC road in Village Maliakheri of 2.4 Kms will be done.	-	-	-	-	30	30

		Construction of Community Center and drainage in Village Bansa & Renovation of Bathroom.	Community Center and Drainage in Village Basa will be done in FY 2021-22 & 2022-23 respectively	20	Completed (Rs. 20 lacs)	10	Completed (Rs. 10 lacs)	-	30
		Construction of Community Center in village Karunda	Construction of community center will be done in FY 2023-2024 after land allotment by panchayat.	-	-	20	To be completed	20	40
		CC road from main road to temple in Village Pipaliya Gadiya	Construction of CC road from main road to temple in Village Karunda i.e.: 800-900 m length will be constructed by year 2021-22.	20	Completed (Rs. 15 lacs)	-	-	-	20
		Construction of New School Bulding in Maliakhera Village (3Rooms & Baramda . Toilet)	Construction of school building which will be done in FY 2021-22 (30 Lakh for school building 18X20 square feet and 6 feet baramda) and 10 Lakh for toilet in FY 2022-23.	30	Completed (Rs. 28 lacs)	10	Completed (Rs. 10 lacs)	-	40
		Beautification of Pond and a garden with open gym in the village Karunda.	Beautification of Pond and a garden with open gym will be done in the village Karunda by year 2022-23 and Year 2023-24 respectively.	-	-	15	Will be completed	10	25
		CC road along with drain construction work in Village- Saand.	Construction work of CC road (800 -900 Mtr) along with drainage in village sand will be done by the Company in FY 2021-22 with the expenditure 18 Lakh.	18	Completed (Rs. 19 lacs)	-	-	-	18
		CC Road in Maliakheri.	Budget of Rs. 26 Lakhs was allotted for the construction of CC Road (Length: 2.4 Km) in Maliakhera Village. Work will be done in year 2021-22.	14	Will be completed	12	Ongoing	-	26
		CC road and drainage in Village Dhanora	Construction of CC road (800-900 mtr) and drainage in Village Dhanora will be done in year 2021-22	20	Completed (Rs. 19 lacs)	-	-	-	20
		Gravel Gitty link road between Village Bansa and Piplia	Construction of gravel gitty link road (2.0 km) will be done in year 2022-23 .	-	-	20	Completed (Rs. 20 lacs)	-	20
		Community building work-village saand.	Construction of Community building work (80 X 20 Square feet) will be done in year 2022-23.	-	-	30	On going	-	30
		Burial sites development work in Pairy, Sanda, Shergarh and Piplia.	Total budget of Rs. 42.0 Lakh has been taken for development work of Burial sites in four village (Payri 10 Lakh, Saand 7 Lakh, Shergarh 5 lakh and in Pipliya 20 Lakh) and work will be done in year 2022-23 and 2023-24 respectively.	-	-	17	On going	25	42

		School building and campus at Village Pipliya and Shergarh.	Construction of school building (3 rooms of 18 X 20 square feet) in Village Pipaliya and shergarh will be done in year 2022-23 and 2023-24 respectively.	-	-	20	To be done after land provided by Government dept.	20	40
		Boy and girl toilets Village Saand	Construction of toilets (10 X 20 square feet) in Village Saand will be done in year 2021-22.	5	Will be completed	-	-	-	5
		Community Hall in Phalwa Village	Work is going on and will be completed in the year 2022-23.	30	Completed (Rs. 18 lacs)	15	To be done	-	45
		Road from JK main road to school at Village Peerkheda	Construction of road (0.7.km) from JK main road to school and work will be done in the year 2022-23.	-	-	4	-	-	4
2	Drinking Water	Tubewell in school in Village Peerkheda	Work will be done in the year 2021-22.	2	Will be completed	-	-	-	2
		Pipeline for drinking water in entire Pairy, Karunda and Pipaliya Gadia village.	900 pipes required for all three village and approx. 1.5 KM distance will be done in FY 2021-22.	20	Completed (Rs. 20 lacs)	-	-	-	20
3	Local Needs	Need based	Total project cost is Rs. 87.70 Crore and considering 2% of project cost, total CER cost comes to Rs. 175 lacs. However, we are proposing CER Cost of Rs. 514 lacs. Accordingly there is an additional provision of Rs. 27 lacs to meet the instent requirement from the community	-	-	-	-	27	27
Total				209	139	173	58.08	132	514
10	Miscellaneous	Submit the update on implementation of Wildlife Conservation Plan both specific to this mine expenditure as well as combined expenditure annually.	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. Wildlife Conservation Plan (WCP) has been prepared for 6 Schedule-I Species found in the buffer area during the survey i.e.: -</p> <p>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> <p>Wild life conservation plan has been forwarded by the DFO - Chittorgarh to Divisional Chief Conservator of Forest vide letter No.: F(5)</p>					

				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.
11	Miscellaneous	At the time of revision of mining plan, EMP if modified, for a peak production be submitted along with the revised mining plan to the Ministry.	Yet to be complied	Agreed, no any revision of mining plan, EMP yet being done.
12	Greenbelt	The study carried out by drone and shown during the presentation must be submitted to the Ministry for the purpose of record.	Complied	Plantation status shown by drone during EAC meeting has been submitted to the MoEF&CC on 30/11/2021.
B. STANDARD CONDITIONS:				
I. Statutory Compliance				
1	Statutory compliance	This Environmental Clearance (EC) is subject to orders/judgment 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	Completed
2	Statutory compliance	The Project proponent complies with all the statutory requirements and judgment 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 before commencing the mining operations.	Complied	Unit is complies with all the statutory requirements.
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 Judgment 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. NOC letter submitted along with Compliance report on dated 25.05.2022.
4	Statutory compliance	This Environmental Clearance shall become operational only after receiving formal NBWL	Complied	Not applicable

		Clearance from MoEF&CC subsequent to the recommendations of the Standing Committee of National Board for Wildlife, if applicable to the Project.		
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	Unit has obtained the CTE & CTO from RSPCB: <ul style="list-style-type: none"> • CTE granted by RSPCB vide letter No.: F (Mines)/Chittorgarh (Nimbahera)/1869 (1)/2017-2018/3705-3709, Order No.: 2021-2022/Mines/10328, dt. 29.10.2021. • CTO granted by RSPCB vide letter No.: F (Mines)/Chittorgarh (Nimbahera)/1869(1) /2017-2018/3905-3909, Order No.: 2021-2022/Mines/10333 dated 12/11/2021, valid up to 31/10/2026.
7	Statutory compliance	The PP shall adhere to the provision of the Mines Act, 1952, Mines and mineral (Development & Regulation), Act, 2015 and rules & regulations made there under. PP shall adhere to various circulars issued by Directorate General Mines Safety (DGMS) and Indian bureau of mines from time to time.	Complied	Agreed and complied.
8	Statutory compliance	The project proponent shall obtain consents from all the concerned land owners, before start of mining operations as per the provisions of MMDR Act, 1957 and rules made there under in respect of lands which are not owned by it.	Complied	Agreed, land owners have no any concern.
9	Statutory compliance	The project proponent shall follow the mitigation measures provided in MOEFCC's office memorandum No. Z-1103/57/2014-IA.II(M), dated 29 th October, 2014, titled "Impact of mining activities on Habitations - issues related to the mining projects wherein habitations and villages are the part of mine	Complied	Unit has taken the following measures to reduces the impact of mining activities on habitations: - <ol style="list-style-type: none"> 1. Garland drain constructed, 2. Siltation pond facilitated, 3. Regular water spray on haul road is being done, 4. Rain water collected in mine pit and as per requirement of villagers, water is being supplied to nearby villagers during the lean period, 5. Mask light are being kept in off mode during night period,

		lease areas or Habitations and villages are surrounded by the mine lease area”		6. Control blasting has been implemented, 7. Company own road used for limestone transportation, and 8. 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 from CGWA for withdrawal of ground water for the project.	Complied	Unit has obtained Combined NOC for ground water withdrawal for Plant & Mines from CGWA vide letter No.: CGWA/NOC/MIN/REN/2/2021/6354, dated 28.10.2020, valid till 27/10/2022. Renewal application has been submitted.
11	Statutory compliance	A copy of EC letter will be marked to concerned Panchayat / local NGO etc. if any, from whom suggestion / representation has been received while processing the proposal.	Complied	EC copy had been submitted to concern Panchayat, Zila Parishad, DIC Office, District Collector, SDM Office vide letter No.: NBH/ PC-A/EC-M/KRD/13, dated 23.08.2021. Receipt copy of the same has been submitted along with half yearly compliance report on 25/05/2022.
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	Agreed & Noted.
13	Statutory compliance	The Project Authorities should widely advertise about the grant of 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 the 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 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.	Complied	EC granted information published in two local newspapers i.e.: Dainik Bhasker and Rajasthan Patrika on 24/08/2021 and proof of the same has been submitted along with last EC half yearly compliance report.
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	Complied	If any change in ownership of mining will be intimated to the ministry.

		transfer of EC as per provisions of the para 11 of EIA Notification, 2006 as amended from time to time.		
II.	Air Quality Monitoring And Preservation			
1	Air Quality Monitoring And Preservation	The Project Proponent shall install a minimum of 3 (three) online Ambient Air 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 operations of air pollution viz. PM10, PM2.5, NO2, CO and SO2 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: - 1. Near Magazine towards Village Falwa & Peer Khera. 2. Mine Office towards Village Karunda, Pipaliya and Maliakhhera. 3. Towards Village Charlia (Common for Karunda mine and Maliakhhera mine). Digital display board has been provided at Mine Office. CAAQMS data has been uploaded on CPCB and RSPCB portals.
2	Air Quality Monitoring And Preservation	Effective safeguard measures for prevention of dust generation and subsequent suppression (like regular water sprinkling, metaled road construction etc.) shall be carried out in areas prone to air pollution wherein high levels of PM10 and PM2.5 are evident such as haul road, loading and unloading point and transfer points. The Fugitive dust emissions from all sources shall be regularly controlled by installation of required equipment's/machineries and preventive maintenance. Use of suitable water-soluble	Complied	Following safeguard measures taken for prevention of dust generation: - <ul style="list-style-type: none"> • Regular water sprinkling is being done on haul roads and water sprinkling system has been provided at the unloading point to control the fugitive emission. • Air pollution control equipment's like bag filters, dry fogging system has been installed at crusher to avoid generation of dust while crushing the limestone. • Ambient air quality monitoring is being carried out on regular basis by NABL accredited laboratory. • Detail Ambient air quality and fugitive emission monitoring reports for the period: Oct-22 to March-23 are enclosed as <u>Annexure-1</u> and <u>Annexure-2</u>, respectively.

		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 standards prescribed by the MoEFCC /Central Pollution Control Board.		
III	Water Quality Monitoring And Preservation			
1	Water Quality Monitoring And Preservation	In case, immediate mining scheme envisages intersection 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 on detailed hydro-geological study of the area.	Complied	Unit has obtained the NOC for Mines Seepage permission from CGWA vide NOC No.: CGWA/NOC/MIN/ ORIG/2022/14762, dated 10/03/2022, valid till 09/03/2024.
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 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.	Complied	<ul style="list-style-type: none"> • No natural water course and / or water resources will be obstructed due to any mining operation. • Ground water level and quality report submitted on six-monthly basis to the Regional Office of the MoEF&CC, CGWA/ CGWB and SPC Board.

3	Water Quality Monitoring And Preservation	Project Proponent shall regularly monitor and maintain records w.r.t. groundwater 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 operation 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 and approved Mining plan by establishing a network of existing wells. • Unit has installed 3 nos. of manual piezometer for periodic measurement & one DWLR (Digital water level Recorder) with telemetry system for online monitoring of ground water level. • Detail ground water level monitoring report for the period: Oct-22 to March-23 is enclosed as <u>Annexure-3</u>.
4	Water Quality Monitoring And Preservation	The Project Proponent shall undertake regular monitoring of natural water course/water resources/springs and perennial nallahs existing/ flowing in and around the mine lease and maintain its records. The project proponent shall undertake regular monitoring 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 regular monitoring w.r.t. pH and included the same in 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 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	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. • Detail ground water quality analysis report for the period post monsoon and winter season are enclosed as <u>Annexure-4</u>.

		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 operations 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 27.05.2009 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 water 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 is reused for dust suppression. • Quality of water is being analyzed by NABL accredited Lab. • 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	To augment the water resources, rain water harvesting is done and stored in lower most benches of mine pit.
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	Complied	<ul style="list-style-type: none"> • There is no industrial waste water is generated from the Mine operation. • However, waste water generated from workshop, quality is being tested by NABL lab and analysis report for the period Oct-22 to March-23 is enclosed as <u>Annexure-5</u>.

		State Pollution Control Board (SPCB). The workshop effluent shall be treated after its initial passage through Oil and grease trap.		
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 for the FY 2021-22 was submitted along with EC compliance report on 25/05/2022.
IV Noise And Vibration Monitoring And Prevention				
1	Noise And Vibration Monitoring And Prevention	The peak particle velocity at 500m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines.	Complied	<ul style="list-style-type: none"> Blasting operation is being carried out in day time only. Use of Sequential blasting machine (SBM), Delay detonator, Non-Electric detonator for blasting and to mitigate vibration. Water injection system on DTH drill has been provided which suppresses dust at its source of generation. Nearest habitation villages Maliakhera and Pipliya-Gadia are at 350m distance. Maximum peak partial velocity was observed 2.359 mm/sec at 300 m distance for the period Oct-22 to March-23. Detail peak particle velocity/vibration monitoring report is enclosed as <u>Annexure-6</u>.
2	Noise And Vibration Monitoring And Prevention	The illumination and sound at night at project sites disturb the villages in respect of both human and 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.	Complied	<ul style="list-style-type: none"> Unit is maintaining the illumination and noise level well within permissible limits during day and night hours. Detail ambient noise level monitoring report for the period Oct-22 to March-23 are 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	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 & workmen.

		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.										
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 Environment, 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 fully mechanized opencast mine using wet drilling and control blasting. All mining activities are being carried out as per approved mining plan.Detail of total excavation Million TPA during FY 2022-23 is given below: <table><tr><td>Limestone</td><td>IB/Screen reject/Waste</td><td>Sub Grade (Mineral Reject)</td><td>Top Soil</td></tr><tr><td>4.596961</td><td>0.065167</td><td>0.390342</td><td>0.026460</td></tr></table>	Limestone	IB/Screen reject/Waste	Sub Grade (Mineral Reject)	Top Soil	4.596961	0.065167	0.390342	0.026460
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4.596961	0.065167	0.390342	0.026460									
2	Mining Plan	The project proponent shall get the final mine closure plan along with financial assurance approved from Indian bureau of mines/ department of mining & geology as required under the provision of the MMDR Act,1957 and rules/ guidelines made there under. A copy of approved final mine closure plan shall be submitted within 2 months of the approval of the same from the competent authority to the concerned regional office of the ministry of	Yet to be Complied	Unit will be submitted the final mine closure plan within due course of time.								

		environment, Forest and climate change for the record and verification.										
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 in 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	Top soil generation quantity from mining operation in the FY: 2022-23 is 0.026460 Million TPA. It is being used for plantation purpose.								
2	Land Reclamation	The reject/waste generated during the mining operations shall be stacked at earmarked waste dump site(s) only. The physical parameters of the waste dumps like height, width, and angle of slope shall be governed as per the approved mining plan as per the guidelines/circulars issued by DGMS w.r.t. safety in mining	Complied	No inter-burden waste is generated. The quantity of sub grade mineral generated Million TPA in FY 2022-23 was 0.390342 MT and is stacked within ML area at earmarked site. The total area occupied by stacking of sub grade material is 7.328 ha. Dimension of Sub grade mineral stacked in meters: <table><tr><td>No. of Dump</td><td>Length</td><td>Width</td><td>Height</td></tr><tr><td>1</td><td>386</td><td>250</td><td>13</td></tr></table>	No. of Dump	Length	Width	Height	1	386	250	13
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		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	Agreed, reclamation of waste dump will be done as per the approved mining plan cum progressive mine closure plan.																
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	<ul style="list-style-type: none">Garland drains with siltation pond has been provided all around the dump.Sub grade limestone is being stacked in the non-mineralized area for future use, if any technological up gradation takes place.																
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	Agreed and will be done, if dump height goes beyond the 30m. Presently, dump height is less than 10 m for sub-grade mineral.																
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	Complied	<p>To collect run off water from subgrade dump, garland drain and siltation pit has been constructed.</p> <p>Details are given below:</p> <table><tr><th>Catch drain / Garland drain</th><th>Dimensions</th></tr><tr><td>West side of mine pit</td><td>Length -- 1446 m, Width – 1.5 m Depth -- 1.0 m</td></tr><tr><td>Around Subgrade dump</td><td>Length – 677 m Width – 1.0 m Depth -- 1.0 m</td></tr></table> <p>Constructed three siltation pit with dimension as given below: -</p> <table><tr><th>S. N.</th><th>Length (M)</th><th>Width (M)</th><th>Depth (M)</th><th>Capacity (M3)</th></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table>	Catch drain / Garland drain	Dimensions	West side of mine pit	Length -- 1446 m, Width – 1.5 m Depth -- 1.0 m	Around Subgrade dump	Length – 677 m Width – 1.0 m Depth -- 1.0 m	S. N.	Length (M)	Width (M)	Depth (M)	Capacity (M3)					
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		after monsoon season, and maintained properly.		<table border="1"> <tr> <td>1</td><td>15</td><td>14</td><td>2.45</td><td>514.5</td></tr> <tr> <td>2.</td><td>20</td><td>17</td><td>2.2</td><td>748</td></tr> <tr> <td>3.</td><td>17.40</td><td>15.5</td><td>1.30</td><td>350.61</td></tr> <tr> <td colspan="4">Total</td><td>1613.11</td></tr> </table>	1	15	14	2.45	514.5	2.	20	17	2.2	748	3.	17.40	15.5	1.30	350.61	Total				1613.11					
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7	Land Reclamation	Check dams of appropriate size, gradient and length shall be constructed around mine pit and OB dumps to prevent storm run-off and sediment flow into adjoining water bodies. A safety margin of 50% shall be kept for designing of sump structures over and above peak rainfall (based on 50 years' data) and maximum discharge in the mine and its adjoining area which shall also help in providing adequate retention time period thereby allowing proper settling of sediments/silt material. The sedimentation pits/sumps shall be constructed at the corners of the garland drains.	Complied	<p>Total rainfall in single day (considering 50 mm maximum rainfall): -</p> <ol style="list-style-type: none"> 1. Total rain water would be available= Subgrade dump (area) X rainfall (m) X Runoff coefficient (20%) - $67100 \text{ m}^2 \times 0.05 \text{ m} \times 0.20 = 671 \text{ m}^3$ and considering 50% safety margin then total capacity of siltation pond should be 1342 m^3. 2. Soil stack (area) X rainfall (m) X Runoff coefficient (20%) - $8590 \text{ m}^2 \times 0.05 \text{ m} \times 0.20 = 85.9 \text{ m}^3$ and considering 50% safety margin then total capacity of siltation pond should be 171.8 m^3. 3. Total rain water collection capacity of siltation pit requires = $1342 \text{ m}^3 + 171.8 \text{ m}^3 = 1513.8 \text{ m}^3$. 4. The storm water is being collected to garland drain from the periphery of the pit area and waste dump area routed to siltation pond. The collected water is being used for plantation and water sprinkling on haul road. 5. Dimensions of the rainwater siltation pits developed in mines area for sedimentation purpose as given below: - <table border="1"> <tr> <th>S. N.</th><th>Length (M)</th><th>Width (M)</th><th>Depth (M)</th><th>Capacity M3)</th></tr> <tr> <td>1</td><td>15</td><td>14</td><td>2.45</td><td>514.5</td></tr> <tr> <td>2.</td><td>20</td><td>17</td><td>2.2</td><td>748</td></tr> <tr> <td>3.</td><td>17.40</td><td>15.5</td><td>1.30</td><td>350.61</td></tr> <tr> <td colspan="4">Total</td><td>1613.11</td></tr> </table>	S. N.	Length (M)	Width (M)	Depth (M)	Capacity M3)	1	15	14	2.45	514.5	2.	20	17	2.2	748	3.	17.40	15.5	1.30	350.61	Total				1613.11
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8	Land Reclamation	The top soil, if any, shall temporarily be stored at earmarked sites(s) within the mine lease only and should not be kept unutilized for long. The physical parameters of the top soil dumps like height, width and angle of slope shall be governed as per the approved mining plan and as per the guidelines framed by D.G.M.S w.r.t. safety in mining operations shall be strictly adhered the stability of dumps. The top soil shall be used for land reclamation and plantation purpose.	Complied	<p>Top soil generated during mining operation in FY: 2022-23 is 0.026460 Million TPA and it's stored at earmarked sites within the mine lease only and same is being used for plantation purpose.</p>																									

VII	Transportation			
1	Transportation	<p>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 centers.</p>	Complied	<ul style="list-style-type: none"> • Blast limestone from mine pit head to existing crusher is being transported through heavy vehicle, where haul road with proper water spray facility has been provided. There is no village road used for the same. • From Crusher to own cement plant, crushed limestone transported through OLBC belt conveyor. • PUC has been obtained for all company vehicles from authorized pollution testing centers and allowed PUC certified vehicles only to control the vehicular emissions, regularly monitored.
2	Transportation	<p>The main haulage road within the mine lease should be provided with a permanent water sprinkling arrangement for dust suppression. other roads within the mine lease should be wetted regularly with tanker-mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points. material yards etc. should invariably be provide with dust suppression arrangements. The air pollution control equipment's like bag filters, vacuum suction hoods, dry fogging</p>	Complied	<ul style="list-style-type: none"> • Unit has deployed two nos. of mobile water tankers of 18 KL & 10 KL capacity, respectively for regular water sprinkling on the haul roads to prevent dust generation during transportation of limestone through dumpers. • Water tanker has also been equipped with high pressure jet system to wet the blasted muck for suppression the fugitive dust emission during loading activity. • Unit has implemented the permanent water sprinklers on ramp of crusher.

		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	<p>Details of plantation are: -</p> <table border="1"> <thead> <tr> <th>Location of plantation</th><th>Total Area</th><th>Total Plantation Up to March 2023</th><th>Total Plantation in nos. FY-2022-23</th><th>Remark</th></tr> </thead> <tbody> <tr> <td>Periphery area (Safety Zone)</td><td>6.128 ha</td><td>3.17 ha covered with 7924 nos</td><td>0.12 ha. Covered with 300 saplings.</td><td>Remaining Periphery plantation area 2.98 ha will be done in remaining period of FY 2023-24</td></tr> <tr> <td>Non mineral area/ Village Road/ Avenue Plantation</td><td></td><td>Cumulative within lease – 33.15 ha. with 57612 nos. of saplings. Cumulative outside lease – 5.72 ha. with 13779 nos. of saplings.</td><td>During 2022-23 within lease – 3.17 ha. with 10652 nos. of saplings. During 2022-23 outside lease – NIL</td><td>Plantation is done in F.Y. 22-23 including gap filling and new area.</td></tr> <tr> <td>Total Area</td><td></td><td>42.04 ha (79315 sapling)</td><td>3.29 ha (10952 saplings)</td><td></td></tr> </tbody> </table>	Location of plantation	Total Area	Total Plantation Up to March 2023	Total Plantation in nos. FY-2022-23	Remark	Periphery area (Safety Zone)	6.128 ha	3.17 ha covered with 7924 nos	0.12 ha. Covered with 300 saplings.	Remaining Periphery plantation area 2.98 ha will be done in remaining period of FY 2023-24	Non mineral area/ Village Road/ Avenue Plantation		Cumulative within lease – 33.15 ha. with 57612 nos. of saplings. Cumulative outside lease – 5.72 ha. with 13779 nos. of saplings.	During 2022-23 within lease – 3.17 ha. with 10652 nos. of saplings. During 2022-23 outside lease – NIL	Plantation is done in F.Y. 22-23 including gap filling and new area.	Total Area		42.04 ha (79315 sapling)	3.29 ha (10952 saplings)	
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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	Complied	There is no proposal of backfilling as per approved mining plan.																				

		respect shall also be adhered. The density of the trees should be around 2500 saplings per hectare adequate budgetary provision shall be made for protection and care of trees.		
3	Green Belt	The project proponent shall make necessary alternative arrangements for livestock feed be developing grazing land with a view to compensate those areas which are coming within the mine lease area. The development of such grazing land shall be done in consultation with the state government, in this regard Project proponent should essentially implement the directions of the Hon'ble Supreme Court with regard to acquisition of grazing land. The Sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded / protected against felling and plantation of such trees should be promoted.	Complied	<ul style="list-style-type: none"> The mining lease was executed on 13.12.1984. At the time of renewal of Mine lease, the Department of Mines and Geology corrected the error of Mining lease area by reducing from 320 Ha to 315.409 Ha. through digital demarcation having 77 Ha. Grazing land. The orders of Hon'ble Supreme Court 2006, is not applicable as the lease was allocated prior to 2006. Permission for working on grazing land has been granted by District Authorities vide District Collectors letter No. Rajasva/ Khanan/NOC/12-12(41)03/1799 dated 12.10.2006, Rajasva/Khanan/NOC/12-12(40)03/1800 dated 12.10.2006 and vide letter No.: Prakaran No./Re.Vi./4/88 dated 10.05.1989.
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> <ol style="list-style-type: none"> Pavocristatus (Indian Peafowl), Pantherapadusfusca (Indian Leopard), Prionailurusrubiginosus (Rusty-Spotted Cat), Canis lupus pallipes (Indian Wolf), Varanusbengalensis (Indian Monitor Lizard) Gyps indicus/Gyps bengalensis (Indian Vulture) <p>Wild life 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	Complied	Wildlife conservation plan prepared in the consultation of DFO and implementation will also be done according to approved wildlife

		wildlife conservation Plan and its implementation status (annual) shall be submitted to the Regional Office of the Ministry.		conservation plan. Annual status will be submitted after final approval of WCP.										
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	<ul style="list-style-type: none">Periodical medical examination of workmen is being carried out.Detail of medical examination carried out for the period: Oct-22 to March-23 is given below and report is enclosed as <u>Annexure-8.</u> <table><tr><th>Particular</th><th>Medical Exam. Carried out (in Nos.)</th></tr><tr><td>No. of persons examined</td><td>10</td></tr><tr><td>Initial Medical Examination</td><td>10</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.)	No. of persons examined	10	Initial Medical Examination	10	Periodical Medical Examination	0	Disease observed	NIL
Particular	Medical Exam. Carried out (in Nos.)													
No. of persons examined	10													
Initial Medical Examination	10													
Periodical Medical Examination	0													
Disease observed	NIL													
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 neighborhood 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	Complied	<ul style="list-style-type: none">Company has “Zero Harm Goal Policy” and periodically identified the hazards and preventive action are being taken.Best practices have been implemented to maintain vibration, fly rocks, dust emission, noise level and all parameters are well within the limit.Mobile medical check-up camps are being organized at all nearby villages for treatment and medicine free of cost.										

		(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.		
3	Public Hearing And Human Health Issues	The Proponent shall carry out Occupational health surveillance which be a part of HRA and include Biological Monitoring where practical and feasible, and the tests and investigations relevant to the exposure (e.g. for Dust a X-Ray chest; For Noise Audiometric; for Lead Exposure Blood Lead, For Welders Full Ophthalmologic Assessment; for Manganese Miners a complete Neurological Assessment by a Certified Neurologist, and Manganese (Mn) Estimation in Blood; For Inorganic Chromium- Fortnightly skin inspection of hands and forearms by a responsible person. Except routine tests all tests would be carried out in a Lab accredited by NABH. Records of Health Surveillance must be kept for 30 years, including the results of and the records of Physical examination and tests. The record of exposure due to materials like Asbestos, Hard Rock Mining, Silica, Gold, Kaolin, Aluminium, Iron, Manganese, Chromium, Lead, Uranium need to be handed over to the Mining Department of the State in case the life of the mine is less than 30 years. It would be obligatory for the State Mines Departments to make arrangements for the safe and secure storage of the records including X-Ray. Only conventional X-Ray will be accepted for record purposes and not the digital one) must meet ILO criteria (17 x14 inches and of good quality).	Complied	Pre-employment medical check-up are being carried out considering the parameter as per DGMS.
4	Public Hearing And Human Health Issues	The Proponent shall maintained a record of performance indicators for workers which includes (a) there should not be a significant decline in their Body Mass Index and it should	Complied	Unit is maintaining record of performance indicators for workers. There is no any abnormality has been reported till date, therefore no any relief and compensation required to paid to the workers.

		<p>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 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.</p>		
5	Public Hearing And Human Health Issues	<p>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.</p>	Complied	<p>PPE's have been provided and used by the persons engaged in drilling, dozing and loading. VT is being provided as under required VT Rules.</p>
6	Public Hearing And Human Health Issues	<p>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</p>	Complied	<ul style="list-style-type: none"> • All workers engaged are belongs to local area and they are living in their own houses, therefore temporary structure/ hutment are not required. • 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.

		should be treated with STP in order to avoid contamination of underground water.		
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	Details of PH issue addressed are given in above in point no. 9.
X	Corporate Environment Responsibility (CER)			
1	Corporate Environment Responsibility	The activities and budget earmarked for Corporate Environmental Responsibility (CER) as per Ministry's O. M. No. 22-65/2017-IA. II (M) dated 01.05.2018 or as proposed by EAC should be kept in a separate bank account. The activities proposed for CER shall be implemented in a time bound manner and annual report of implementation of the same along with documentary proof viz. photographs, purchase documents, latitude & longitude of infrastructure developed & road constructed needs to be submitted to Regional Office MoEF&CC annually along with audited statement.	Complied	Activities proposed for CER are being implemented in a time bound manner and annual report of implementation of the same has been submitted to Regional Office MoEF&CC .
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	<ul style="list-style-type: none"> • Complying with
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 before 01.03.2025.
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	This is the existing captive limestone mine and Project cost after expansion is 87.70 Crores.
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	Latest six monthly compliance reports on the status of the implementation of the stipulated environmental conditions has been submitted to the MoEF&CC, CPCB and RSPCB through email on 19.11.2022 vide our letter No.: NBH/PC-14/C12 dated 18.11.2022.
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 is already established and has sufficient monitoring equipment's 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, unit will extend full cooperation to the MoEF&CC officer(s) by furnishing the requisite data / information / monitoring reports.
24	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	Noted & agreed.

25	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 & agreed.
26	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	Noted & agreed.
27	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 & agreed.
28	Miscellaneous	This issues with the approval of competent Authority.	Complied	Noted

Yours Sincerely,
For J. K. Cement Works, Nimbahera
(Maliakhhera Limestone Mines)



(Authorized Signatory)

J.K. Cement Works, Nimbahera (RAJ)
MALIAKHERA LIMESTONE MINE
MONTHLY AVERAGE AMBIENT AIR QUALITY REPORT
October'2022 to March'2023

Annexure-01

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

Month	Near Mine Office					Near Ravana Office				
	PM10	PM2.5	SO ₂	Nox	CO	PM10	PM2.5	SO ₂	Nox	CO
Oct-22	49.2	29.9	13.9	35.8	607	53.6	31.3	15.8	29.4	676
Nov-22	51.5	30.9	14.7	32.6	659	50.5	28.8	16.4	34.1	653
Dec-22	62.2	33.2	14.1	32.6	659	69.1	36.4	12.5	21.2	642
Jan-23	57.0	25.3	8.3	22.0	659	68.0	31.9	10.1	25.0	441
Feb-23	67.2	32.4	8.1	23.3	859	60.6	25.3	11.1	22.7	773
Mar-23	52.4	26.5	10.9	16.8	716	50.6	30.0	13.8	22.7	441
AVERAGE	56.6	29.7	11.7	27.2	693.1	58.7	30.6	13.3	25.9	604.3



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JDA/UDH

Office : E-65, Chitrangan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : +91 6377210064, 9414077379,
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

TEST REPORT

Report No./ULR No. :	TC502522400003440	Date :	25-11-2022
Issued To :	M/S Maliakhera Limestone Mine (ML No.-4/03) C/o JK Cement Works, Tehsil-Nimbahera, District- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	18-11-2022
Point of Collection :	Near Mine office, Maliakhera Mine	Date of Receipt :	22-11-2022
Date of Test/Analysis :	22-11-2022 to 25-11-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	340	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	12.58	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Particulate Matter (PM2.5) [microgram/m3]	35.12	IS 5182 (Part 24) : 2019	60.00
4	Sulphur Dioxide [microgram/m3]	3.8	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM 10) [microgram/m3]	68.65	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Purnan Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: TC502522400003440)



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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

TEST REPORT

Report No./ULR No. :	TC502522400003441	Date :	25-11-2022
Issued To :	M/S Maliakhera Limestone Mine (ML No.-4/03) C/o JK Cement Works, Tehsil-Nimbahera, District- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	19-11-2022
Point of Collection :	Near Ravana Office, Maliakhera Mine	Date of Receipt :	22-11-2022
Date of Test/Analysis :	22-11-2022 to 25-11-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	310	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	12.84	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Particulate Matter (PM2.5) [microgram/m3]	37.01	IS 5182 (Part 24) : 2019	60.00
4	Sulphur Dioxide [microgram/m3]	3.57	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM 10) [microgram/m3]	76.1	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: TC502522400003441)



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JDA/UDH

Office : E-65, Chitrangan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : +91 6377210064, 9414077379,
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

TEST REPORT

Report No./ULR No. :	TC502522400003444	Date :	25-11-2022
Issued To :	M/S Maliakhera Limestone Mine (ML No.-4/03) C/o JK Cement Works, Tehsil-Nimbahera, District- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	18-11-2022
Point of Collection :	Pipaliya Gadia Village	Date of Receipt :	22-11-2022
Date of Test/Analysis :	22-11-2022 to 25-11-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	320	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	13.88	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Particulate Matter (PM2.5) [microgram/m3]	34.88	IS 5182 (Part 24) : 2019	60.00
4	Sulphur Dioxide [microgram/m3]	3.54	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM 10) [microgram/m3]	60.49	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522400003444)



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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

TEST REPORT

Report No./ULR No. :	TC502522400003445	Date :	25-11-2022
Issued To :	M/S Maliakhera Limestone Mine (ML No.-4/03) C/o JK Cement Works, Tehsil-Nimbahera, District- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	19-11-2022
Point of Collection :	Maliakhera Village	Date of Receipt :	22-11-2022
Date of Test/Analysis :	22-11-2022 to 25-11-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	290	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	11.5	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Particulate Matter (PM2.5) [microgram/m3]	37.67	IS 5182 (Part 24) : 2019	60.00
4	Sulphur Dioxide [microgram/m3]	3.66	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM 10) [microgram/m3]	79.4	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: TC502522400003445)



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JDA/UDH

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C-Scheme, Jaipur - 302001, Rajasthan
Phone : +91 6377210064, 9414077379,
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

TEST REPORT

Report No./ULR No. :	TC502523400000511	Date :	17-03-2023
Issued To :	M/S Maliakhara Limestone Mine (ML No.-4/03) C/o JK Cement Works, Tehsil-Nimbahera, District- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	20-02-2023 16:15 to 21-03-2023 16:15
Point of Collection :	Near Mine office, Maliakhara Mine	Date of Receipt :	08-03-2023
Date of Test/Analysis :	08-03-2023 to 17-03-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	350	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	15.52	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Particulate Matter (PM2.5) [microgram/m3]	33.3	IS 5182 (Part 24) : 2019	60.00
4	Sulphur Dioxide [microgram/m3]	5.21	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM 10) [microgram/m3]	76.74	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Sunil Kumar
Senior Analyst

Puran Mal Yogi
Authorized Signatory
(Report No: TC502523400000511)



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JDA/UDH

Office : E-65, Chitrangan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : +91 6377210064, 9414077379,
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

TEST REPORT

Report No./ULR No. :	TC502523400000512	Date :	17-03-2023
Issued To :	M/S Maliakhara Limestone Mine (ML No.-4/03) C/o JK Cement Works, Tehsil-Nimbahera, District- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	20-02-2023 16:17 to 21-02-2023 16:17
Point of Collection :	Near Ravana Office, Maliakhara Mine	Date of Receipt :	08-03-2023
Date of Test/Analysis :	08-03-2023 to 17-03-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing


RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	330	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	15.56	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Particulate Matter (PM2.5) [microgram/m3]	36.04	IS 5182 (Part 24) : 2019	60.00
4	Sulphur Dioxide [microgram/m3]	5.59	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM 10) [microgram/m3]	76.94	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Senior Analyst
Sunil Kumar


Authorized Signatory
Yogi
(Report No: TC502523400000512)



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



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JDA/UDH

Office : E-65, Chitrangan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : +91 6377210064, 9414077379,
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

TEST REPORT


Report No./ULR No. :	TC502523400000515	Date :	17-03-2023
Issued To :	M/S Maliakhera Limestone Mine (ML No.-4/03) C/o JK Cement Works, Tehsil-Nimbahera, District- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	20-02-2023 16:21 to 21-02-2023 16:21
Point of Collection :	Pipaliya Gadia Village	Date of Receipt :	08-03-2023
Date of Test/Analysis :	08-03-2023 to 17-03-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing


RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	320	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	15.59	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Particulate Matter (PM2.5) [microgram/m3]	46.69	IS 5182 (Part 24) : 2019	60.00
4	Sulphur Dioxide [microgram/m3]	5.18	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM 10) [microgram/m3]	81.91	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Senior Analyst
Sunil Kumar


Authorized Signatory
Purnima Mal Yogi
(Report No: TC502523400000515)



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

TEST REPORT

Report No./ULR No. :	TC502523400000516	Date :	17-03-2023
Issued To :	M/S Maliakhara Limestone Mine (ML No.-4/03) C/o JK Cement Works, Tehsil-Nimbahera, District- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	20-02-2023 16:22 to 21-02-2023 16:22
Point of Collection :	Maliakhara Village	Date of Receipt :	08-03-2023
Date of Test/Analysis :	08-03-2023 to 17-03-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing


RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	310	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	13.48	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Particulate Matter (PM2.5) [microgram/m3]	33.66	IS 5182 (Part 24) : 2019	60.00
4	Sulphur Dioxide [microgram/m3]	5.13	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM 10) [microgram/m3]	78.16	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Senior Analyst


Authorized Signatory
(Report No: TC502523400000516)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522400003440	Date :	25-11-2022
Issued To :	M/S Maliakhera Limestone Mine (ML No.-4/03) C/o JK Cement Works, Tehsil-Nimbahera, District- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	18-11-2022
Point of Collection :	Near Mine office, Maliakhera Mine	Date of Receipt :	22-11-2022
Date of Test/Analysis :	22-11-2022 to 25-11-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	340	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	12.58	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Particulate Matter (PM2.5) [microgram/m3]	35.12	IS 5182 (Part 24) : 2019	60.00
4	Sulphur Dioxide [microgram/m3]	3.8	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM 10) [microgram/m3]	68.65	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Purnan Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: TC502522400003440)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522400003441	Date :	25-11-2022
Issued To :	M/S Maliakhera Limestone Mine (ML No.-4/03) C/o JK Cement Works, Tehsil-Nimbahera, District- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	19-11-2022
Point of Collection :	Near Ravana Office, Maliakhera Mine	Date of Receipt :	22-11-2022
Date of Test/Analysis :	22-11-2022 to 25-11-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	310	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	12.84	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Particulate Matter (PM2.5) [microgram/m3]	37.01	IS 5182 (Part 24) : 2019	60.00
4	Sulphur Dioxide [microgram/m3]	3.57	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM 10) [microgram/m3]	76.1	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: TC502522400003441)



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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

TEST REPORT

Report No./ULR No. :	TC502522400003444	Date :	25-11-2022
Issued To :	M/S Maliakhera Limestone Mine (ML No.-4/03) C/o JK Cement Works, Tehsil-Nimbahera, District- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	18-11-2022
Point of Collection :	Pipaliya Gadia Village	Date of Receipt :	22-11-2022
Date of Test/Analysis :	22-11-2022 to 25-11-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	320	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	13.88	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Particulate Matter (PM2.5) [microgram/m3]	34.88	IS 5182 (Part 24) : 2019	60.00
4	Sulphur Dioxide [microgram/m3]	3.54	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM 10) [microgram/m3]	60.49	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522400003444)



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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

TEST REPORT

Report No./ULR No. :	TC502522400003445	Date :	25-11-2022
Issued To :	M/S Maliakhera Limestone Mine (ML No.-4/03) C/o JK Cement Works, Tehsil-Nimbahera, District- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	19-11-2022
Point of Collection :	Maliakhera Village	Date of Receipt :	22-11-2022
Date of Test/Analysis :	22-11-2022 to 25-11-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	290	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	11.5	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Particulate Matter (PM2.5) [microgram/m3]	37.67	IS 5182 (Part 24) : 2019	60.00
4	Sulphur Dioxide [microgram/m3]	3.66	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM 10) [microgram/m3]	79.4	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: TC502522400003445)



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

TEST REPORT

Report No./ULR No. :	TC502523400000511	Date :	17-03-2023
Issued To :	M/S Maliakhara Limestone Mine (ML No.-4/03) C/o JK Cement Works, Tehsil-Nimbahera, District- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	20-02-2023 16:15 to 21-03-2023 16:15
Point of Collection :	Near Mine office, Maliakhara Mine	Date of Receipt :	08-03-2023
Date of Test/Analysis :	08-03-2023 to 17-03-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	350	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	15.52	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Particulate Matter (PM2.5) [microgram/m3]	33.3	IS 5182 (Part 24) : 2019	60.00
4	Sulphur Dioxide [microgram/m3]	5.21	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM 10) [microgram/m3]	76.74	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Sunil Kumar
Senior Analyst

Puran Mal Yogi
Authorized Signatory
(Report No: TC502523400000511)



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TEST REPORT

Report No./ULR No. :	TC502523400000512	Date :	17-03-2023
Issued To :	M/S Maliakhara Limestone Mine (ML No.-4/03) C/o JK Cement Works, Tehsil-Nimbahera, District- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	20-02-2023 16:17 to 21-02-2023 16:17
Point of Collection :	Near Ravana Office, Maliakhara Mine	Date of Receipt :	08-03-2023
Date of Test/Analysis :	08-03-2023 to 17-03-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing


RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	330	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	15.56	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Particulate Matter (PM2.5) [microgram/m3]	36.04	IS 5182 (Part 24) : 2019	60.00
4	Sulphur Dioxide [microgram/m3]	5.59	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM 10) [microgram/m3]	76.94	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Senior Analyst
Sunil Kumar


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TEST REPORT


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Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	20-02-2023 16:21 to 21-02-2023 16:21
Point of Collection :	Pipaliya Gadia Village	Date of Receipt :	08-03-2023
Date of Test/Analysis :	08-03-2023 to 17-03-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing


RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	320	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	15.59	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Particulate Matter (PM2.5) [microgram/m3]	46.69	IS 5182 (Part 24) : 2019	60.00
4	Sulphur Dioxide [microgram/m3]	5.18	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM 10) [microgram/m3]	81.91	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Senior Analyst
Sunil Kumar


Authorized Signatory
Purnima Mal Yogi
(Report No: TC502523400000515)



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TEST REPORT

Report No./ULR No. :	TC502523400000516	Date :	17-03-2023
Issued To :	M/S Maliakhara Limestone Mine (ML No.-4/03) C/o JK Cement Works, Tehsil-Nimbahera, District- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	20-02-2023 16:22 to 21-02-2023 16:22
Point of Collection :	Maliakhara Village	Date of Receipt :	08-03-2023
Date of Test/Analysis :	08-03-2023 to 17-03-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing


RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	310	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	13.48	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Particulate Matter (PM2.5) [microgram/m3]	33.66	IS 5182 (Part 24) : 2019	60.00
4	Sulphur Dioxide [microgram/m3]	5.13	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM 10) [microgram/m3]	78.16	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Senior Analyst


Authorized Signatory
(Report No: TC502523400000516)

J.K. Cement WORKS, NIMBAHERA (RAJ)
MALIAKHERA LIMESTONE MINE
MONTHLY AVERAGE OF FUGITIVE DUST MONITORING REPORT
October'2022 to March'2023

Annexure-02

(ALL VALUES IN µg/M3)

Month	3 to10 Meter Distance From Drilling Operation				Near loading point			
	SPM	SO ₂	NO _x	CO	SPM	SO ₂	NO _x	CO
Oct-22	341	10.0	30.7	572.8	293.0	14.1	25.2	561.3
Nov-22	317	11.1	25.3	532.7	277.0	16.0	28.5	521.3
Dec-22	359	14.0	17.7	641.5	411.0	14.1	21.2	647.3
Jan-23	361	7.9	17.7	871.0	292.0	8.9	21.8	590.0
Feb-23	466	13.1	20.9	693.1	388.0	11.5	15.7	738.9
Mar-23	364	17.5	28.2	801.9	387.0	17.7	27.8	887.8
AVERAGE	368.00	12.28	23.43	685.51	341.33	13.73	23.36	657.77



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JDA/UDH

Office : E-65, Chitranjan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : +91 6377210064, 9414077379,
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

TEST REPORT

Report No./ULR No. :	TC502522400003442	Date :	25-11-2022
Issued To :	M/S Maliakhera Limestone Mine (ML No.-4/03) C/o JK Cement Works, Tehsil-Nimbahera, District- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	18-11-2022
Point of Collection :	3-10 Meter Distance Form Drilling Point of Maliakhera Mine	Date of Receipt :	22-11-2022
Date of Test/Analysis :	22-11-2022 to 25-11-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	290	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	14.99	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Sulphur Dioxide [microgram/m3]	3.57	IS 5182 (Part 2) : 2001 RA 2017	80.00
4	Suspended Particulate Matter (SPM) [microgram/m3]	471.83	IS 5182 (Part 4) : 1999 RA 2019	-

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522400003442)



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JDA/UDH

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C-Scheme, Jaipur - 302001, Rajasthan
Phone : +91 6377210064, 9414077379,
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

TEST REPORT

Report No./ULR No. :	TC502522400003443	Date :	25-11-2022
Issued To :	M/S Maliakhera Limestone Mine (ML No.-4/03) C/o JK Cement Works, Tehsil-Nimbahera, District- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	19-11-2022
Point of Collection :	Near Loading point of Maliakhera Mine	Date of Receipt :	22-11-2022
Date of Test/Analysis :	22-11-2022 to 25-11-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashna Murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	310	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	11.37	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Sulphur Dioxide [microgram/m3]	3.34	IS 5182 (Part 2) : 2001 RA 2017	80.00
4	Suspended Particulate Matter (SPM) [microgram/m3]	435.15	IS 5182 (Part 4) : 1999 RA 2019	-

Notes :-

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Puran Mahayogi

Senior Analyst

Rajesh Maheshwan

Authorized Signatory

(Report No: TC502522400003443)



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JDA/UDH

Office : E-65, Chitranjan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : +91 6377210064, 9414877379,
Website : www.teamtesthouse.com
Email : team.bdbhead@gmail.com

Laboratory : G1-584, RICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523400000513	Date :	17-03-2023
Issued To :	M/S Maliakhara Limestone Mine (ML No.-4/03) C/o JK Cement Works, Tehsil-Nimbahera, District- Chittorgarh (Rajasthan).	Type of Unit :	Mines
Type of sample / Discipline :	Fugitive Emission Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	20-02-2023
Point of Collection :	3-10 Meter Distance Form Drilling Point of Maliakhara Mine	Date of Receipt :	08-03-2023
Date of Test/Analysis :	08-03-2023 to 17-03-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing


RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Suspended Particulate Matter [microgram/m3]	388.12	IS 5182 (Part 4) : 1999 RA 2019
2	Sulphur Dioxide [microgram/m3]	3.64	IS 5182 (Part 2) : 2001 RA 2017
3	Oxides of Nitrogen [microgram/m3]	15.56	IS 5182 (Part 6) : 2006 Reaffirmed 2017
4	Carbon Monoxide [microgram/m3]	310	TTH/AAQM/08

Notes :-

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Senior Analyst


Authorized Signatory
(Report No: TC502523400000513)



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Office : E-65, Chitranjan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : +91 6377210064, 9414077379,
Website : www.teamtesthouse.com
Email : team.bdhead@gmail.com

Laboratory : G1-584, RHCO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523400000514	Date :	17-03-2023
Issued To :	M/S Mallakhera Limestone Mine (ML No.-4/03) C/o JK Cement Works, Tehsil-Nimbahera, District- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Fugitive Emission Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	20-02-2023 16:19 to 21-02-2023 16:19
Point of Collection :	Near Loading point of Mallakhera Mine	Date of Receipt :	08-03-2023
Date of Test/Analysis :	08-03-2023 to 17-03-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Suspended Particulate Matter [microgram/m3]	298.82	IS 5182 (Part 4) : 1999 RA 2019
2	Sulphur Dioxide [microgram/m3]	2.93	IS 5182 (Part 2) : 2001 RA 2017
3	Oxides of Nitrogen [microgram/m3]	14.05	IS 5182 (Part 6) : 2006 Reaffirmed 2017
4	Carbon Monoxide [microgram/m3]	320	TTH/AAQM/08

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: TC502523400000514)

Annexure-03		
M/s J.K.CEMENT WORKS,NIMBAHERA		
Digital Water Level Recorder Report (Ground water Level) of Maliakhara Limestone Mine. (ML No. 04/2003)		
Month	Telemetry BW_8 (in m)(avg.)	Remarks
Oct-22	11.45	
Nov-22	20.74	
Dec-22	22.81	
Jan-23	22.92	
Feb-23	23.14	
Mar-23	23.31	



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JDA/UDH

Office : E-65, Chitrangan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : +91 6377210064, 9414077379,
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

TEST REPORT

Report No./ULR No. :	TC502522100002130	Date :	22-11-2022
Issued To :	M/S Maliakhera Limestone Mine (ML No.-4/03) C/o JK Cement Works, Tehsil-Nimbahera, District- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Potable and Domestic Water	Date of Sample Collection/Monitoring :	07-11-2022
Point of Collection :	Pit Water (Surface Water)	Date of Receipt :	09-11-2022
Date of Test/Analysis :	09-11-2022 to 22-11-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Turbidity [NTU]	BDL (<0.1)	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
4	pH	7.94	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
5	Hardness (total) [mg/l]	115.38	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]	52.83	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
8	Total Dissolved Solids [mg/l]	225	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
9	Calcium [mg/l]	32.31	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00
10	Magnesium [mg/l]	8.41	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00

Rajesh Maheshwar



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JDA/UDH

Office : E-65, Chitrangan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : +91 6377210064, 9414077379,
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 limits in the absence of Alternate Sources as per IS 10500 : 2012
11	Fluoride [mg/l]	0.40	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
12	Suspended Solids [mg/l]	26	IS 3025 (Part 17) : 1984 RA 2017	-	-
13	Oil and Grease [mg/l]	Less than 1	IS 3025 (Part 39) : 1991 RA 2019	-	-
14	Conductivity [micromho/cm]	361	APHA 2017 : 2510 B	-	-
15	M - Alkalinity [mg/l]	150	APHA : 2017, 2320 B	-	-
16	Total coliform [MPN/100ml]	Not Detected	IS 1622 : 1981	Shall not be detectable in 100ml Sample	-
17	E. Coli [MPN/100ml]	Not Detected	IS 5887 (Part 1) : 1976 RA 2018	Shall not be detectable in 100ml Sample	-

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Balram
Balram Agarwal
Senior Analyst

Rajesh
Rajesh Maneshwan
Authorized Signatory
(Report No: TC502522100002130)



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Office : E-65, Chitrangan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : +91 6377210064, 9414077379,
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

TEST REPORT

Report No./ULR No. :	TC502522100002131	Date :	22-11-2022
Issued To :	M/S Maliakhera Limestone Mine (ML No.-4/03) C/o JK Cement Works, Tehsil-Nimbahera, District- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Borewell Water	Date of Sample Collection/Monitoring :	07-11-2022
Point of Collection :	Hand Pump (Mines Office) - (Ground Water)	Date of Receipt :	10-11-2022
Date of Test/Analysis :	10-11-2022 to 22-11-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Turbidity [NTU]	BDL (<0.1)	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
4	pH	7.59	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
5	Hardness (total) [mg/l]	223.08	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
6	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
7	Chloride [mg/l]	68.49	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
8	Total Dissolved Solids [mg/l]	311	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
9	Calcium [mg/l]	49.23	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00
10	Magnesium [mg/l]	24.3	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00

Rajesh Maheshwar



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JDA/UDH

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C-Scheme, Jaipur - 302001, Rajasthan
Phone : +91 6377210064, 9414077379,
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
11	Fluoride [mg/l]	0.52	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
12	Conductivity [micromho/cm]	498	APHA 2017 : 2510 B	-	-
13	Oil and Grease [mg/l]	BDL(<1.0)	IS 3025 (Part 39) : 1991 RA 2019	-	-
14	Total Suspended Solids [mg/l]	6	IS 3025 (Part 17) : 1984 RA 2017	-	-
15	M - Alkalinity [mg/l]	106.92	APHA : 2017, 2320 B	-	-

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Balram
Balram Agarwal
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522100002131)



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JDA/UDH

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C-Scheme, Jaipur - 302001, Rajasthan
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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

TEST REPORT

Report No./ULR No. :	TC502522100002132	Date :	22-11-2022
Issued To :	M/S Maliakhera Limestone Mine (ML No.-4/03) C/o JK Cement Works, Tehsil-Nimbahera, District- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Borewell Water	Date of Sample Collection/Monitoring :	07-11-2022
Point of Collection :	Hand Pump Near School of Piplia Village (Ground Water)	Date of Receipt :	10-11-2022
Date of Test/Analysis :	10-11-2022 to 22-11-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Rakesh Sharma
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Turbidity [NTU]	BDL (<0.1)	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
4	pH	7.55	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
5	Hardness (total) [mg/l]	182.69	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
6	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
7	Chloride [mg/l]	72.4	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
8	Total Dissolved Solids [mg/l]	429	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
9	Calcium [mg/l]	34.62	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00
10	Magnesium [mg/l]	23.36	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00

Rajesh Maheshwari



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JDA/UDH

Office : E-65, Chitrangan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : +91 6377210064, 9414077379,
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
11	Fluoride [mg/l]	0.60	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
12	Conductivity [micromho/cm]	692	APHA 2017 : 2510 B	-	-
13	Oil and Grease [mg/l]	BDL(<1.0)	IS 3025 (Part 39) : 1991 RA 2019	-	-
14	Total Suspended Solids [mg/l]	3	IS 3025 (Part 17) : 1984 RA 2017	-	-
15	M - Alkalinity [mg/l]	261.36	APHA : 2017, 2320 B	-	-

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Balram Agarwal
Balram Agarwal
Senior Analyst

Rajesh Maheshwari
Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522100002132)



TEAM TEST HOUSE

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JDA/UDH

Office : E-65, Chitranjan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : +91 6377210064, 9414077379,
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

TEST REPORT

Report No./ULR No. :	TC502523100000027	Date :	12-01-2023
Issued To :	M/S Maliakhara Limestone Mine (ML No.-4/03) C/o JK Cement Works, Tehsil-Nimbahera, District- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Water / Chemical	Date of Sample Collection/Monitoring :	06-01-2023 13:09 to 06-01-2023 13:09
Point of Collection :	Pit Water (Surface Water)..	Date of Receipt :	07-01-2023
Date of Test/Analysis :	07-01-2023 to 12-01-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr.	Sample Collected By :	Prahlad yogi
Unit's representative :	Mr Sunil 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]	0.5	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
4	pH	7.42	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
5	Hardness (total) [mg/l]	213.59	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]	64.58	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
8	Total Dissolved Solids [mg/l]	478	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
9	Fluoride [mg/l]	0.63	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
10	Suspended Solids [mg/l]	11	IS 3025 (Part 17) : 1984 RA 2017	-	-
11	Oil and Grease [mg/l]	Less than 1	IS 3025 (Part 39) : 1991 RA 2019	-	-
12	Conductivity [micromho/cm]	675	APHA 2017 : 2510 B	-	-
13	Calcium Hardness [mg/l]	151.45	IS 3025 (Part 40) : 1991 RA 2019	-	-



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Laboratory : G1-584, RIICO Industrial Area,
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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 limits in the absence of Alternate Sources as per IS 10500 : 2012
14	Magnesium Hardness [mg/l]	62.13	IS 3025 (Part 46) : 1994 RA 2019	-	-
15	M - Alkalinity [mg/l]	135.1	IS 3025 (Part 23) : 1986 RA 2019	-	-

Notes :-

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Balram Agarwal
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523100000027)



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

TEST REPORT

Report No./ULR No. :	TC502523100000028	Date :	12-01-2023
Issued To :	M/S Maliakhera Limestone Mine (ML No.-4/03) C/o JK Cement Works, Tehsil-Nimbahera, District- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water / Chemical	Date of Sample Collection/Monitoring :	06-01-2023 13:10 to 06-01-2023 13:10
Point of Collection :	Hand Pump (Mines Office)..	Date of Receipt :	07-01-2023
Date of Test/Analysis :	07-01-2023 to 12-01-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr.	Sample Collected By :	Prahlad yogi
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Turbidity [NTU]	0.3	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
4	pH	8.05	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
5	Hardness (total) [mg/l]	213.59	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]	54.79	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
8	Total Dissolved Solids [mg/l]	382	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
9	Fluoride [mg/l]	0.83	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
10	Conductivity [micromho/cm]	600	APHA 2017 : 2510 B	-	-
11	Oil and Grease [mg/l]	Less than 1	IS 3025 (Part 39) : 1991 RA 2019	-	-
12	Total Suspended Solids [mg/l]	6	IS 3025 (Part 17) : 1984 RA 2017	-	-
13	Calcium Hardness [mg/l]	186.40	IS 3025 (Part 40) : 1991 RA 2019	-	-



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JDA/UDH

Office : E-65, Chitranjan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : +91 6377210064, 9414077379,
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
14	M - Alkalinity [mg/l]	108.00	IS 3025 (Part 23) : 1986 RA 2019	-	-
15	Magnesium Hardness [mg/l]	27.18	APHA:2017 : 3500-Mg-B	-	-

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Balram

Balram Agarwal
Senior Analyst

Rajesh

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523100000028)



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C-Scheme, Jaipur - 302001, Rajasthan
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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

TEST REPORT

Report No./ULR No. :	TC502523100000029	Date :	12-01-2023
Issued To :	M/S Maliakhera Limestone Mine (ML No.-4/03) C/o JK Cement Works, Tehsil-Nimbahera, District- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water / Chemical	Date of Sample Collection/Monitoring :	06-01-2023 13:11 to 06-01-2023 13:11
Point of Collection :	Hand Pump Near School of Piplia Village	Date of Receipt :	07-01-2023
Date of Test/Analysis :	07-01-2023 to 12-01-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr.	Sample Collected By :	Prahlad yogi
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Turbidity [NTU]	0.8	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
4	pH	6.88	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
5	Hardness (total) [mg/l]	407.77	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
6	Iron [mg/l]	0.10	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
7	Chloride [mg/l]	84.14	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
8	Total Dissolved Solids [mg/l]	574	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
9	Fluoride [mg/l]	0.58	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
10	Conductivity [micromho/cm]	934	APHA 2017 : 2510 B	-	-
11	Oil and Grease [mg/l]	Less than 1	IS 3025 (Part 39) : 1991 RA 2019	-	-
12	Total Suspended Solids [mg/l]	14	IS 3025 (Part 17) : 1984 RA 2017	-	-
13	Calcium Hardness [mg/l]	388.34	IS 3025 (Part 40) : 1991 RA 2019	-	-



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JDA/UDH

Office : E-65, Chitranganj Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : +91 6377210064, 9414077379,
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
14	M - Alkalinity [mg/l]	316.52	IS 3025 (Part 23) : 1986 RA 2019	-	-
15	Magnesium Hardness [mg/l]	19.41	APHA:2017 : 3500-Mg-B	-	-

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Balram
Balram Agarwal
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523100000029)



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Phone : +91 6377210064, 9414077379,
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Laboratory : G1-584, RHICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522200002738	Date :	01-12-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Liquid Effluents	Date of Sample Collection/Monitoring :	22-11-2022
Point of Collection :	Maliakhera Mine Workshop water	Date of Receipt :	24-11-2022
Date of Test/Analysis :	24-11-2022 to 30-11-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr	Sample Collected By :	Mahaveer singh Gurjar
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	27	APHA.2017:2540-D	100
2	Biochemical Oxygen Demand (BOD) [mg/l]	15.91	APHA 2017:5210-B	30
3	Chloride as Cl [mg/l]	122.2	APHA 2017 : 4500- Cl- B	-
4	Chemical Oxygen Demand (COD) [mg/l]	112.06	APHA:2017 : 5220-C	250
5	pH	7.52	APHA:2017 : 4500 H+B	5.5 - 9.0
6	Sulphate [mg/l]	127.45	APHA:2017 : 4500-SO4-E	Not Specified
7	Chromium Total [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	2.0
8	Copper [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	3.0
9	Iron [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	3.0
10	Zinc [mg/l]	0.04	APHA :2017 :3111- B	5.0
11	Oil & Grease [mg/l]	4	APHA 2017 : 5520 B	10
12	Free available chlorine [mg/l]	BDL (<0.1)	APHA 2017 : 4500- Cl- B	0.5

Notes :-

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Sunil Kumar
Senior Analyst


Rajesh Maneshwar
Authorized Signatory
(Report No: TC502522200002738)



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JDA/UDH

Office : E-65, Chitrangan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : +91 6377210064, 9414077379,
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Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,
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Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	200002738	Date :	01-12-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Liquid Effluents	Date of Sample Collection/Monitoring :	22-11-2022
Point of Collection :	Maliakhara Mine Workshop water	Date of Receipt :	24-11-2022
Date of Test/Analysis :	24-11-2022 to 30-11-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr	Sample Collected By :	Mahaveer singh Gurjar
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Phosphate (ortho) [mg/l]	BDL (<0.1)	APHA 2017 : 4500-P C	5
2	Cobalt [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	-

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Sunil Kumar
Senior Analyst

Rajesh Maheshwar
Authorized Signatory
(Report No: 200002738)



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

TEST REPORT

Report No./ULR No. :	TC502523200000486	Date :	10-03-2023
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	25-02-2023
Point of Collection :	Maliakhara Mine Workshop water	Date of Receipt :	03-03-2023
Date of Test/Analysis :	03-03-2023 to 10-03-2023	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 ltr.	Sample Collected By :	Prahlad yogi
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	22	APHA.2017:2540-D	100
2	Biochemical Oxygen Demand (BOD) [mg/l]	14.75	APHA 2017:5210-B	30
3	Chloride as Cl [mg/l]	108.41	APHA 2017 : 4500- Cl- B	-
4	Chemical Oxygen Demand (COD) [mg/l]	106.08	APHA:2017 : 5220-C	250
5	pH	7.78	APHA:2017 : 4500 H+B	5.5 - 9.0
6	Sulphate [mg/l]	139.46	APHA:2017 : 4500-SO4-E	Not Specified
7	Chromium Total [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	2.0
8	Copper [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	3.0
9	Iron [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	3.0
10	Zinc [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	5.0
11	Oil & Grease [mg/l]	5	APHA 2017 : 5520 B	10

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: TC502523200000486)



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

TEST REPORT

Report No./ULR No. :	200000486	Date :	10-03-2023
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	25-02-2023
Point of Collection :	Maliakhara Mine Workshop water	Date of Receipt :	03-03-2023
Date of Test/Analysis :	03-03-2023 to 10-03-2023	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 ltr.	Sample Collected By :	Prahlad yogi
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
12	Phosphate (ortho) [mg/l]	BDL (<0.1)	APHA 2017 : 4500-P C	5
13	Free available chlorine [mg/l]	BDL(<0.1)	APHA 2017 : 4500- Cl- B	0.5

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: 200000486)

Date/Time Vert at 14:00:56 November 4, 2022
Trigger Source Geo: 0.300 mm/s
Range Geo: 254.0 mm/s
Record Time 3.963 sec (Auto=3Sec) at 1024 sps
Operator/Setup: P K Dawer/Maliakhara Mine.MMB

Notes
Location: Maliakhara Mine On the ground surface
Client: J K CEMENT WORKS
User Name: J K CEMENT WORKS
General:

Microphone Linear Weighting
PSPL 1.427 pa.(L) at 1.985 sec
ZC Freq 17 Hz
Channel Test Passed (Freq = 19.7 Hz Amp = 1050 mv)

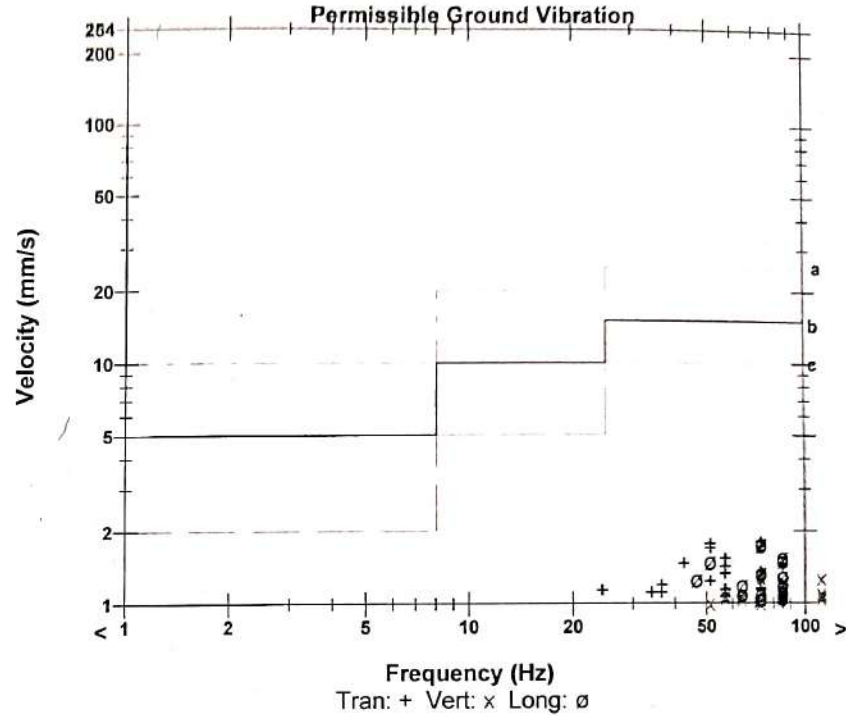
	Tran	Vert	Long	
PPV	1.797	1.513	1.766	mm/s
ZC Freq	73	85	73	Hz
Time (Rel. to Trig)	0.469	0.398	0.497	sec
Peak Acceleration	0.089	0.089	0.097	g
Peak Displacement	0.103	0.018	0.072	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.3	7.3	Hz
Overswing Ratio	4.4	4.5	4.3	

Peak Vector Sum 2.359 mm/s at 0.397 sec

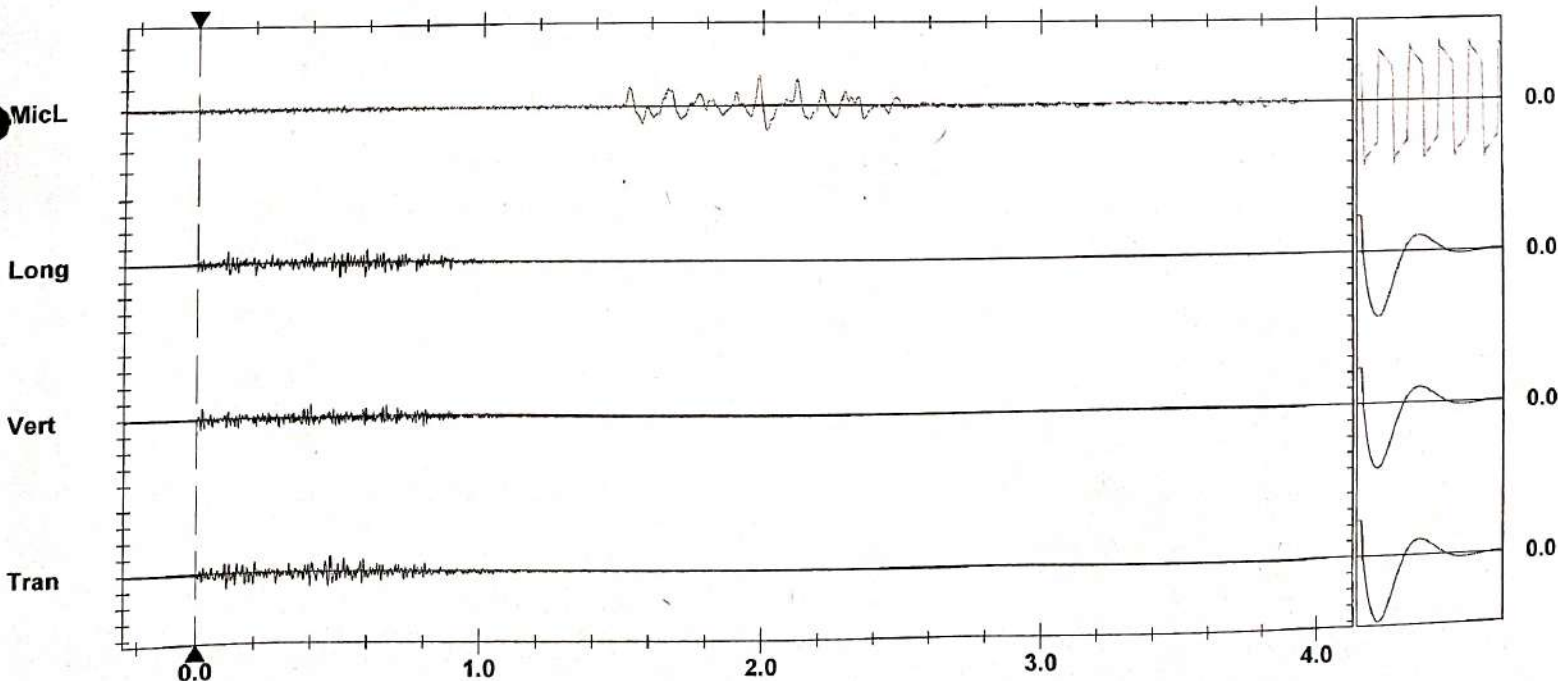
Serial Number UM17400 V 10-89 Micromate ISEE
Battery Level 3.6 Volts
Unit Calibration December 5, 2020 by UES New Delhi
File Name UM17400_20221104140056.IDFW

Post Event Notes
 Bench : II W (W to E) , BID : 9--4
 No. of Holes: 30 ; Charge Per delay : 30.25 Kgs.
 Vibration Monitered at 300 Mtr. MKM Village Road

DGMS India (A)



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



Time Scale: 0.20 sec/div **Amplitude Scale:** Geo: 2.000 mm/s/div Mic: 1.000 pa.(L)/div
Trigger = 

Sensor Check

J.K. Cement WORKS, NIMBAHERA (RAJ)
MALIAKHERA LIMESTONE MINE
MONTHLY AMBIENT NOISE MONITORING REPORT
October'2022 to March'2023

Annexure-07

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

Month	Near Mines Gate		Near Ravana Office	
	DAY	NIGHT	DAY	NIGHT
Oct-22	58.3	41.4	54.2	43.8
Nov-22	61.2	43.9	58.6	45.9
Dec-22	55.4	45.4	50.2	47.6
Jan-23	64.2	51.2	63.9	49.6
Feb-23	69.4	52.2	66.7	50.2
Mar-23	65.1	50.2	64.6	49.6



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RSPCB

ISO 9001:2015,

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ISO 45001:2018 (OH&S)

JDA/UDH

Office : E-65, Chitranjan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : +91 6377210064, 9414077379,
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

TEST REPORT

Report No./ULR No. :	TC502522600002312	Date :	25-11-2022
Issued To :	M/S Maliakhera Limestone Mine (ML No.-4/03) C/o JK Cement Works, Tehsil-Nimbahera, District- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	19-11-2022
Point of Collection :	Near Mine office, Maliakhera Mine	Date of Receipt :	22-11-2022
Date of Test/Analysis :	22-11-2022 to 25-11-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	61.3	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	48.1	IS 9989	65

Notes :-

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

Puran Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: TC502522600002312)



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

TEST REPORT

Report No./JLR No. :	TC502522600002313	Date :	25-11-2022
Issued To :	M/S Maliakhera Limestone Mine (ML No.-4/03) C/o JK Cement Works, Tehsil-Nimbahera, District- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	19-11-2022
Point of Collection :	Near Ravana Office, Maliakhera Mine	Date of Receipt :	22-11-2022
Date of Test/Analysis :	22-11-2022 to 25-11-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	64.1	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	47.2	IS 9989	65

Notes :-

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Puran Mal Yogi

Senior Analyst

Rajesh Maheshwari
Authorized Signatory

(Report No: TC502522600002313)



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

TEST REPORT

Report No./ULR No. :	TC502523600000392	Date :	17-03-2023
Issued To :	M/S Maliakhara Limestone Mine (ML No.-4/03) C/o JK Cement Works, Tehsil-Nimbahera, District- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	20-02-2023 16:23 to 21-02-2023 16:24
Point of Collection :	Near Mine office, Maliakhara Mine	Date of Receipt :	08-03-2023
Date of Test/Analysis :	08-03-2023 to 17-03-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	63.4	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	54.8	IS 9989	65

Notes :-

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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.


Senior Analyst
Sunil Kumar


Authorized Signatory
Purnima Yogi
(Report No: TC502523600000392)



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JDA/UDH

Office : E-65, Chitrangan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : +91 6377210064, 9414077379,
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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

TEST REPORT

Report No./ULR No. :	TC502523600000393	Date :	17-03-2023
Issued To :	M/S Maliakhara Limestone Mine (ML No.-4/03) C/o JK Cement Works, Tehsil-Nimbahera, District- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	20-02-2023 16:28 to 21-02-2023 16:28
Point of Collection :	Near Ravana Office, Maliakhara Mine	Date of Receipt :	08-03-2023
Date of Test/Analysis :	08-03-2023 to 17-03-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	kishan murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing


RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	59.6	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	50.2	IS 9989	65

Notes :-

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Senior Analyst


Authorized Signatory
(Report No: TC502523600000393)

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 shri **NARAYAN LAL DANGI S/O HEMRAJ DANGI** Employed as **DUMPER DRIVER** at **MALIA KHERA LIMESTONE MINES, Form B No.** Has been examined for an **Initial / periodical** medical examination. He appears to be **34** years of age.

The findings of the examining authority are given in the attached sheet. It is considered that –
Shri. NARAYAN LAL DANGI.

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

(b) * is suffering fromand is medically unfit for –

- (i) Any employment in mine; or
- (ii) Any employment below ground; or
- (iii) Any employment or work

(c) * is suffering fromshould get this disability cured / controlled * and should be again examined within a period ofmonths. 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

Dr. S. K. CHAUDHARY
Authority **C.M.O.**

J. K. Cement Works
NIMBAHERA (Raj.)
Name and designation in
Block letters. **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.