

NBH/PC-14/C13/

Through Email

Date: 18.11.2022

To,

**The Director (M),**

Ministry of Environment, Forest &amp; Climate Change,

Indira Paryavaran Bhawan,

JOR Bagh Road, Aliganj,

**New Delhi-110003****Sub: Environmental Clearance Compliance report of Karunda Limestone Mine (ML 03/2003) by J. K. Cement Works, Nimbahera, Dist. Chittorgarh, Rajasthan (J K Cement Ltd.)**Ref.: EC letter no. - J-11015 / 36/ 2019-IA.II (M) dated 19<sup>th</sup> August 2021

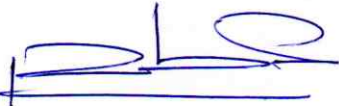
Dear Sir,

Kindly refer to the above subject matter and refer EC letter no., please find attached herewith compliance of EC for the period of **April 2022 to September 2022.**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](mailto:iro.jaipur-mefcc@gov.in), [moef@nic.in](mailto:moef@nic.in), [ccb.cpcb@nic.in](mailto:ccb.cpcb@nic.in), [member-secretary@rpcb.nic.in](mailto:member-secretary@rpcb.nic.in), [cpcb.bhopal@gov.in](mailto:cpcb.bhopal@gov.in), [monitoring-ec@nic.in](mailto: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](mailto:admin.padamtower@jkcement.com)
- [www.jkcement.com](http://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:

<b>Proposal No.</b>	<b>IA/RJ/MIN/ 210770/2019</b>	<b>Project Name</b>	Environmental Clearance for Expansion of Karunda Limestone Mine (M.L. No.: 03/2003, ML Area 240.86 ha.) from 2.0 Million TPA Limestone to total excavation of 3.8 Million TPA (Cement Grade Limestone: 3.448 Million TPA, Subgrade Limestone: 0.152 Million TPA, Interstitial Clay/ Screen rejects/ Waste: 0.189 Million TPA and Top Soil: 0.011 Million TPA) and Limestone Crusher with Screening (500 TPH Limestone and 50 TPH Screening Clay) situated at Village - Karunda, Tehsil - Nimbahera, District - Chittorgarh, Rajasthan by M/s. J.K. Cement Limited.
<b>Category</b>	<b>A</b>	<b>MoEF File No.</b>	<b>J-11015/36/2019-IA.II (M), dated 19.08.2021</b>
<b>Name of the Entity / Corporate Office*</b>	<b>M/s. J.K. Cement Works, Nimbahera, Kailash Nagar, District Chittorgarh-312617 (Rajasthan)</b>		
<b>Entity's PAN*</b>	<b>AABCJ0355R</b>		
<b>Entity Name as per PAN</b>	<b>J K CEMENT LIMITED</b>		

#### Compliance Letter/Report:

<b>Reporting Year*</b>	<b>2022</b>	<b>Reporting Period*</b>	<b>April-2022 to September-2022</b>
<b>Remarks (if any)</b>	Submitting the Six Monthly EC Compliance Report for the period: April-2022 to September-2022 of Karunda Limestone Mine (M.L. No.: 03/2003, ML Area: 240.86 ha.) from 2.0 Million TPA Limestone to total excavation of 3.8 Million TPA and Limestone Crusher with Screening (500 TPH Limestone and 50 TPH Screening Clay) situated at Village - Karunda, Tehsil - Nimbahera, District - Chittorgarh, Rajasthan by M/s. J.K. Cement Limited.		

#### Details of Production and Project Area

<b>Date of Commencement of Project /Activity:*</b>	<b>25.02.1986</b>	<b>Project Area as Per EC Granted (In Case of Mine Lease):*</b>	<b>240.86 ha.</b>
<b>Actual Project Area (In Case of Mine Lease):*</b>	<b>228.13 ha.</b>		

#### PRODUCTION CAPACITY: Detail of Mines Excavation Quantity for the FY: 2022-23 (till September-2022)


<b>S. No.</b>	<b>Name of the Product</b>	<b>Unit</b>	<b>As per EC Granted</b>	<b>Production During Last Financial Year: 2021-22</b>	<b>Production During Current Financial Year: 2022-23 (Till Sept-22)</b>
1	Cement Grade Limestone	Million TPA	3.448	2.2625	1.16092
2	Subgrade Limestone	Million TPA	0.152	0.0150	0.0000
3	Interstitial Clay/Screen rejects/ Waste	Million TPA	0.189	0.0550	0.01544
4	Top Soil	Million TPA	0.011	0.0075	0.00996
<b>Total Excavation Quantity</b>		<b>Million TPA</b>	<b>3.800</b>	<b>2.3401</b>	<b>1.18632</b>

**Karunda Limestone Mine (M.L. No.: 03/2003, ML Area: 240.86 ha.)**  
**M/s. J. K. Cement Works, Karunda, Nimbahera, Chittorgarh, Rajasthan-312617**  
**EC Compliance Report: April-2022 to September-2022**

Environmental Clearance for Expansion of Karunda Limestone Mine (M.L. No.: 03/2003, ML Area 240.86 ha.) from 2.0 Million TPA Limestone to total excavation of 3.8 Million TPA (Cement Grade Limestone: 3.448 Million TPA, Subgrade Limestone: 0.152 Million TPA, Interstitial Clay/ Screen rejects/ Waste: 0.189 Million TPA and Top Soil: 0.011 Million TPA) and Limestone Crusher with Screening (500 TPH Limestone and 50 TPH Screening Clay) situated at Village - Karunda, Tehsil - Nimbahera, District - Chittorgarh, Rajasthan by M/s. J.K. Cement Limited.

**Environment Clearance vide No.: J-11015/36/ 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 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	Safety zone of 300 m has been maintained towards Charliya, Karunda and Pipliya villages and same will be maintained till conceptual stage. If, any changes is required, prior permission will be obtained.
2	Statutory compliance	It is proposed to create a water reservoir at 175.086 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.	Yet to be complied	Water reservoir to be developed on 175.086 ha. and detailed plan will be submitted at the time of closure of mine.
3	Miscellaneous	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"> <li>Unit has deployed one mobile water tanker of 15 KL capacity for regular water sprinkling on the haul roads to prevent dust generation during transportation of limestone through dumpers.</li> <li>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.</li> </ul> <div style="text-align: center;">  <p><b>Water Spray Practice on Blasted Muck</b></p> </div>

4	Statutory compliance	There are village roads passing through the mine lease area. 50 m safety zone on either side and avenue plantation must be undertaken as there was no proposal for road diversion. The safety zone from nearby village currently maintained at 300 m till the life of mine must be maintained at SE and SW directions.	Complied	<ul style="list-style-type: none"><li>• Diversion of road has been taken by Govt. of Rajasthan, 50 m safety zone on either side of road and avenue plantation is being undertaken.</li><li>• Safety zone of 300 m has been maintained towards - Charliya, Karunda and Pipliya Villages and it will be maintained till conceptual stage. If any changes are required, prior permission will be obtained.</li></ul>																			
5	Mining Plan	OLBC must be completed within 5 months as committed during the presentation.	Yet to be Complied	OLBC has been commissioned on 12/01/2022, which has intimated to Ministry.																			
6	Green Belt	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.																			
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	Excavation quantity is maintaining well within the permitted limit. Details of excavation for the FY: 2022-23 (till September-2022) as below: <table><tr><td>Cement Grade Limestone (MT)</td><td>Sub Grade Limestone (MT)</td><td>IB/Screen Reject/ Waste (MT)</td><td>Top Soil (MT)</td></tr><tr><td>1160929.35</td><td>-</td><td>15440</td><td>9960</td></tr></table>					Cement Grade Limestone (MT)	Sub Grade Limestone (MT)	IB/Screen Reject/ Waste (MT)	Top Soil (MT)	1160929.35	-	15440	9960							
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1160929.35	-	15440	9960																				
8	Mining Plan	Timeline for crusher and belt conveyer installation from Karunda to Maliakhera for internal transport be submitted.	Yet to be Complied	Noted																			
9	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	<b>Details of plantation developed are: -</b> <table><tr><th>Location of plantation</th><th>Total Area</th><th>Total Plantation till the FY: 2021-22</th><th>Total Plantation in FY-2022-23 till Sept-22</th><th>Remark</th></tr><tr><td>Periphery area (Safety Zone)</td><td>4.90 ha</td><td>2.538 ha covered with 6350 nos. of tree saplings.</td><td>-</td><td>Remaining Periphery plantation area 2.362 ha will be done in remaining period of the FY 2022-23</td></tr><tr><td>Non mineral area/ Avenue Plantation/</td><td></td><td>25.112 ha. with 63300 nos. plantation done (within</td><td>1.14 ha sapling 5850 nos.</td><td>--</td></tr></table>					Location of plantation	Total Area	Total Plantation till the FY: 2021-22	Total Plantation in FY-2022-23 till Sept-22	Remark	Periphery area (Safety Zone)	4.90 ha	2.538 ha covered with 6350 nos. of tree saplings.	-	Remaining Periphery plantation area 2.362 ha will be done in remaining period of the FY 2022-23	Non mineral area/ Avenue Plantation/		25.112 ha. with 63300 nos. plantation done (within	1.14 ha sapling 5850 nos.	--
Location of plantation	Total Area	Total Plantation till the FY: 2021-22	Total Plantation in FY-2022-23 till Sept-22	Remark																			
Periphery area (Safety Zone)	4.90 ha	2.538 ha covered with 6350 nos. of tree saplings.	-	Remaining Periphery plantation area 2.362 ha will be done in remaining period of the FY 2022-23																			
Non mineral area/ Avenue Plantation/		25.112 ha. with 63300 nos. plantation done (within	1.14 ha sapling 5850 nos.	--																			



				Village Road		& outside lease area)		
				Total		27.65 ha (69650 nos.)	1.14 ha (5850 nos.)	
10	Statutory compliance	The compliance to public hearing as indicated in the table with an investment of 160 Lakhs be submitted annually to the Ministry.	Complied	Details of PH issue addressed are in below table:				
Details of PH Issue Addressed								
CSR Project or Activities	Time bound Action Plan with Budgetary allocation	CSR Expenditure Capital Cost (In Lakh)						
		2021-22	Completion Status	Cost Expenditure	2022-23	Completion Status	2023-24	Total
Panchayati Nohra in Village Maliakheri	After allotment of land by Government/Panchayat Construction of Panchayati Nohra/Community Center in Village Maliakhedi will be done in FY 2022-23 with a budget of Rs.50 Lakhs	-	-	-	50	To be completed (After making available of panchayat land)	-	50
Plantation at Alsigarh Balaji Temple near Village Falwa	Budget for Plantation activities (300 nos of sapling with tree guard) at Alsigarh Balaji Temple near Village Falwa will be Rs. 5.0 Lakhs and work will be completed in FY 2021-22 & 2022-23.	2.5	Completed	0.5	2.5	To be completed	-	5
Gaushala in Village Phalwa	After allotment of land by Government/Panchayat, Construction of Gaushala in village Phalwa will be done in FY 2021-22 & 2022-23 with a budget of Rs.20.0 Lakhs.	-	-	-	-	-	20	20
Solar water pump set in village Phalwa	Installation of Solar water pump set will be done by year 2021-22 with a cost of Rs. 3.0 Lakhs	3	Going on	-	-	-	-	3
CC Road and drainage at Shergharh Village.	Construction of CC road (700-800 mtr) and drainage in Village Shergharh will be done in year 2022-23 with a budget of Rs. 14.0 Lakh	-	-	-	14	Completed	-	14
CC Road in Pipaliya & Karunda Village .	Construction of CC road (1400 mtr) and drainage in Village Saand will be done in year 2021-22 with a budget of Rs. 18.0	18	Completed	16		-	-	18
Community Hall in Pipliya Gadiya Village	After allotment of land by Government/Panchayat, Construction of Community Hall in Pipliya Gadiya Village will be done in FY 2022-23 with a budget of Rs.20 Lakhs	-	-	-	20	To be completed (Government land is not available)	-	20
Pipeline for drinking water in Village Maliakhera	Budget for the pipeline will be Rs. 20 Lakhs and completed in FY 2021-22 ( 1000 mtr Length )	20	Completed	20	-	-	-	20
Need based	Total project cost is Rs. 49.29 Crore and considering 2% of project cost, total CER cost comes to Rs. 99 lacs. However, we are proposing CER Cost of Rs. 160 lacs. Accordingly, there is an additional provision of Rs. 24 lacs to meet the instant requirement from the community	-	-	-	-	-	24	24
	Total CSR Expenditure (In Lakh)	43.5	-	36.5	86.5	-	44	160

11	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.</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> <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) 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>
12	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.
13	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 along with EC Compliance Report on 30/11/2021.
<b>B. STANDARD CONDITIONS:</b>				
<b>I Statutory Compliance</b>				
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	Noted
2	Statutory compliance	The Project proponent complies with all the statutory requirements and judgment of Hon'ble Supreme Court dated 2 <sup>nd</sup> August, 2017 in Writ Petition (Civil) No. 114 of	Complied	Unit is complies with all the statutory requirements.

		2014 in matter of Common Cause versus Union of India & Ors before commencing the mining operations.		
3	Statutory compliance	The State Government concerned shall ensure that mining operation shall not be commenced till the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department of Mining & Geology in strict compliance of Judgment of Hon'ble Supreme Court dated 2 <sup>nd</sup> 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.
4	Statutory compliance	This Environmental Clearance shall become operational only after receiving formal NBWL Clearance from MoEF&CC subsequent to the recommendations of the Standing Committee of National Board for Wildlife, if applicable to the Project.	Complied	Not applicable
5	Statutory compliance	This environmental clearance shall become operational only after receiving formal forest clearance (FC) under the provision of forest conservation act, 1980, if applicable to the project.	Complied	Not applicable
6	Statutory compliance	Project proponent (PP) shall obtain consent to operate after grant of EC and effectively implement all the conditions stipulated therein. The mining activity shall not commence prior to obtaining consent to establish/consent to operate from the concerned state pollution control board /committee.	Complied	<b>Unit obtained the CTE &amp; CTO from RSPCB: -</b> <ul style="list-style-type: none"> <li>• CTE granted by RSPCB vide letter No.: F (Mines)/Chittorgarh(Nimbahera)/1869 (1) /2017-2018/3482-3486, dated 26.10.2021.</li> <li>• CTO granted by RSPCB vide letter No.: F (Mines)/Chittorgarh (Nimbahera)/1869(1) /2017-2018/3891-3895, dated 12.11.2021, valid up to 31/10/2026.</li> </ul>
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	Complied	Agreed, land owners have no any concern.

		operations as per the provisions of MMDR Act, 1957 and rules made there under in respect of lands which are not owned by it.		
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 <sup>th</sup> October, 2014, titled "Impact of mining activities on Habitations - issues related to the mining projects wherein habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area"	Complied	Unit has taken the following measures to reduces the impact of mining activities on habitations: - <ul style="list-style-type: none"> <li>• Garland drain constructed,</li> <li>• Siltation pond facilitated,</li> <li>• Regular water spray on haul road is being done,</li> <li>• Rain water collected in mine pit and as per requirement of villagers, water is being supplied to nearby villagers during the lean period,</li> <li>• Mask light are being kept in off mode during night period,</li> <li>• Company own road used for limestone transportation,</li> <li>• Control blasting has been implemented, and</li> <li>• Carried out dense plantation.</li> </ul>
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.
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 also been submitted to ministry along with last EC half yearly compliance report.
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	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 six monthly EC compliance report.

		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 ( <a href="http://www.parivesh.nic.in">www.parivesh.nic.in</a> ). A copy of the advertisement may be forwarded to the concerned MoEF&CC Regional Office for compliance and record.		
14	Statutory compliance	The Project Proponent shall inform the MoEF&CC for any change in ownership of the mining lease. In case there is any change in ownership or mining lease is transferred than mining operation shall only be carried out after transfer of EC as per provisions of the para 11 of EIA Notification, 2006 as amended from time to time.	Complied	If any change in ownership of mining, will be intimated to the ministry.
<b>II Air Quality Monitoring And Preservation</b>				
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 View Point towards Villages Charliya and Peepliya. 2. Near North Pit towards Village Karunda. 3. Towards Village Charliya (Common for Karunda Limestone Mine and Maliakhera Limestone Mine). • Digital display board has been provided at Mine Office Near Main Gate. • 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	Complied	Following safeguard measures taken for prevention of dust generation: - • 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.



		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 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.		<ul style="list-style-type: none"> <li>Ambient air quality monitoring is being carried out on regular basis by NABL accredited laboratory.</li> <li>Detail Ambient air quality and fugitive emission monitoring reports for the period: Apr-22 to Sept-22 are enclosed as <u><b>Annexure-1</b></u> and <u><b>Annexure-2</b></u>, respectively.</li> </ul>
<b>III</b>	<b>Water Quality Monitoring And Preservation</b>			
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/2022/14763, 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	<b>Unit has taken following measures: -</b> <ul style="list-style-type: none"> <li>No natural water course and / or water resources will be obstructed due to any mining operation.</li> <li>In Karunda Mining lease area, there exists a nallah in South side flowing in South direction from SW to SE direction meeting the catchment area of the earthen dam. This nallah is only a seasonal nallah and is not a perennial one.</li> <li>This area is already deducted from the active mine working and also we have put embankment all along the length of the nallah keeping a safety distance of 15 m from it in addition to safety zone of 45 m on both side all along the nallah.</li> <li>Ground water level and quality report submitted on six-monthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department / State Pollution Control Board.</li> </ul>

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"> <li>• Regular monitoring of ground water level and quality is being carried out in and around the mining lease area as per the Environment Management Plan of approved Mining plan by establishing a network of existing wells.</li> <li>• Unit has installed 5 nos. of piezometers for periodic and installed one DWLR (Digital Water Level Recorder) with telemetry system for online monitoring of ground water level.</li> <li>• Detail ground water level monitoring report for the period: Apr-22 to Sept-22 is enclosed as <b><u>Annexure-3</u></b>.</li> </ul>
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 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.	Complied	<ul style="list-style-type: none"> <li>• 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.</li> <li>• Detail ground water quality analysis report for the period: Apr-22 to Sept-22 (Pre-monsoon (April-May) and Monsoon (August) are enclosed as <b><u>Annexure-4</u></b>.</li> </ul>

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"> <li>There is no waste water generation from the Limestone mining operation.</li> <li>Mine Key parameter data has been uploaded at <a href="http://www.jkcement.com/environmental-compliance">www.jkcement.com/environmental-compliance</a> as per notification as well as displayed at mine office.</li> </ul>
6	Water Quality Monitoring And Preservation	Project Proponent shall plan, develop and implement rainwater harvesting measures on long term basis to augment ground water resources in the area in consultation with Central Ground Water Board/ State Groundwater Department. A report on amount of water recharged needs to be submitted to Regional Office MoEF&CC annually.	Complied	<ul style="list-style-type: none"> <li>To augment the water resources, rain water harvesting is done and stored in lower most benches (Water reservoir).</li> <li>Surface rain water is collected in the lower most benches to augment Ground water resources.</li> <li>Anicut and siltation pond is constructed to augment water table.</li> <li>Photographs of implemented rainwater harvesting measures are as below:</li> </ul>



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	Complied	There is no industrial waste water is generated from the Mine operation.
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		Consent to Operate (CTO) issued by concerned State Pollution Control Board (SPCB). The workshop effluent shall be treated after its initial passage through Oil and grease trap.		
8	Water Quality Monitoring And Preservation	The water balance/water auditing shall be carried out and measure for reducing the consumption of water shall be taken up and reported to the Regional Office of the MoEF&CC and State Pollution Control Board/Committee.	Complied	Annual Water Audit conducted by the NPC and measures has been taken to reduce the water consumption as per the recommendations. Annual water audit report submitted on 25/05/2022.
<b>IV Noise And Vibration Monitoring And Prevention</b>				
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"> <li>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.</li> <li>The nearest habitation Village Charliya and Pipliya - Gadia are at 300m. Max Peak partial velocity was observed is 2.873 mm/sec for the period: Apr-22 to Sept-22 and report of the same is enclosed as <b><u>Annexure-5</u></b>.</li> </ul>
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"> <li>Unit is maintaining the illumination and noise level well within permissible limits during day and night hours.</li> <li>Detail ambient noise level monitoring report for the period: Apr-22 to Sept-22 is enclosed as <b><u>Annexure-6</u></b>.</li> </ul>
3	Noise And Vibration Monitoring And Prevention	The project proponent shall take measures for control of noise levels below 85dBA in the work environment. The workers engaged in operations of HEMM etc. should be provided with ear plugs / muffs. All personnel including laborers working in dusty areas shall be provided with protective respiratory devices along with adequate	Complied	<ul style="list-style-type: none"> <li>Regular maintenance (including cabin) of HEMM are being done to keep noise level well within the specified limits.</li> <li>Workers engaged in operation of HEMM etc. are provided ear plugs.</li> </ul>

		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.		<ul style="list-style-type: none"><li>Onsite tool box talk is being conducted on daily basis and imparted the periodical training for all employee &amp; workmen.</li></ul>								
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"><li>Method of mining is opencast, fully mechanized using wet drilling and control blasting. All mining activities are being carried out as per approved mining plan.</li><li>Total excavation during the period: Apr-22 to Sept-22.</li></ul> <table><tr><th>Cement Grade Limestone (MT)</th><th>Sub Grade Limestone (MT)</th><th>IB/Screen Reject / Waste (MT)</th><th>Top Soil (MT)</th></tr><tr><td>1160929.35</td><td>-</td><td>15440</td><td>9960</td></tr></table>	Cement Grade Limestone (MT)	Sub Grade Limestone (MT)	IB/Screen Reject / Waste (MT)	Top Soil (MT)	1160929.35	-	15440	9960
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2	Mining Plan	The project proponent shall get the final mine closure plan along with financial assurance approved from Indian bureau of mines/ department of mining & geology as required under the provision of the MMDR Act,1957 and rules /guidelines made there under. A copy of approved final mine closure plan shall be submitted within 2 months of the approval of the same from the competent authority to the concerned regional office of the ministry of environment, Forest and climate change for the record and verification.	Yet to be Complied	Unit will be submitted the final mine closure plan within due course of time.								
3	Mining Plan	The land use of the mine area at various stages of mining scheme as well as at the end-of-life shall be governed as per the approved mining plan. The excavation vis-à-vis backfilling in the mine lease area and corresponding afforestation to be raised in the reclaimed area shall be	Complied	There is no back filling proposed in the approved mining plan.								



		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.		
<b>VI Land Reclamation</b>				
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	<ul style="list-style-type: none"> <li>• Interstitial clay/waste generated during the mining operations are being at earmarked dump sites only.</li> <li>• Physical parameters of dumps i.e.: height, width and angle of slope being maintained in compliance of the approved mining plan as per the guidelines /circulars issued by DGMS.</li> <li>• Top soil generation quantity from mining operation in the FY: 2022-23 (till Sept-22) is 9960 MT. It is being used for plantation purpose.</li> </ul>
2	Land Reclamation	The reject/waste generated during the mining operations shall be stacked at earmarked waste dump site(s) only. The physical parameters of the waste dumps like height, width, and angle of slope shall be governed as per the approved mining plan as per the guidelines/circulars issued by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of waste dumps.	Complied	<ul style="list-style-type: none"> <li>• Waste generated during the mining operations is being at earmarked waste dump sites only.</li> <li>• Physical parameters of the waste dumps i.e.: height, width and angle of slope being maintained in compliance of the approved mining plan as per the guidelines/ circulars issued by DGMS.</li> <li>• Inter-burden/interstitial clay generation quantity from mining operation in the FY: 2022-23 (till Sept-22) is 15440 MT.</li> <li>• Sub-grade mineral generation quantity from mining operation in the FY: 2022-23 (till Sept-22) is NIL.</li> <li>• The total area occupied by stacking of sub grade material in 6.275 ha.</li> </ul>
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	Complied	<ul style="list-style-type: none"> <li>• Presently, total 5 nos. of sub-grade/interstitial clay dumps are in active condition.</li> </ul>

		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.		<ul style="list-style-type: none"><li>There are 3 nos. of active dumps of subgrade materials existing in our mine and their dimension in meters are as follows:<table><tr><th>No. of Dump</th><th>Length</th><th>Width</th><th>Height</th></tr><tr><td>1 - South</td><td>463</td><td>86.5</td><td>&lt;10</td></tr><tr><td>2 - East</td><td>255</td><td>106</td><td>&lt;10</td></tr><tr><td>3 - West</td><td>200</td><td>71</td><td>&lt;10</td></tr></table></li><li>There are 2 nos. of active dumps of Interstitial Clay and their dimension in meters are as under:<table><tr><th>No. of Dump</th><th>Length</th><th>Width</th><th>Height</th></tr><tr><td>1-south</td><td>385</td><td>66</td><td>&lt;10</td></tr><tr><td>2-West</td><td>114</td><td>50</td><td>&lt;10</td></tr></table></li><li>As per the condition, plantation will be done after the dumps become inactive.</li></ul>	No. of Dump	Length	Width	Height	1 - South	463	86.5	<10	2 - East	255	106	<10	3 - West	200	71	<10	No. of Dump	Length	Width	Height	1-south	385	66	<10	2-West	114	50	<10		
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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 complied, if dump height goes beyond 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 after monsoon season, and maintained properly.	Complied	<div>Rainwater collected in working mine pit and it transfers to non-working mine pits for sedimentation, after proper sedimentation mine water is utilized for various purposes.</div> <table><tr><th>S.N.</th><th>Catch Drain/ Garland Drain</th><th>Dimension</th></tr><tr><td>1</td><td>West of North Pit</td><td>Length - 850 m, Width - 1 m, Depth - 1.5 m</td></tr><tr><td>2</td><td>South West of South Pit</td><td>Length – 770 m, Width - 1 m, Depth - 1.5 m</td></tr><tr><td>3</td><td>Around Subgrade dump in NE side of North pit near Charlia Village</td><td>Length – 921 m, Width - 1 m, Depth - 1.5 m</td></tr><tr><td>4</td><td>Around Subgrade dump in South side of South Pit</td><td>Length - 183 m, Width - 1 m, Depth - 1.5 m</td></tr></table> <div>Constructed six siltation pit with dimension as given below: -</div> <table><tr><th>S. No.</th><th>Length (M)</th><th>Width (M)</th><th>Depth (M)</th><th>Capacity (M³)</th></tr><tr><td>1</td><td>15.5</td><td>15</td><td>2.45</td><td>569.625</td></tr><tr><td>2.</td><td>18</td><td>17</td><td>3</td><td>918</td></tr></table>	S.N.	Catch Drain/ Garland Drain	Dimension	1	West of North Pit	Length - 850 m, Width - 1 m, Depth - 1.5 m	2	South West of South Pit	Length – 770 m, Width - 1 m, Depth - 1.5 m	3	Around Subgrade dump in NE side of North pit near Charlia Village	Length – 921 m, Width - 1 m, Depth - 1.5 m	4	Around Subgrade dump in South side of South Pit	Length - 183 m, Width - 1 m, Depth - 1.5 m	S. No.	Length (M)	Width (M)	Depth (M)	Capacity (M³)	1	15.5	15	2.45	569.625	2.	18	17	3	918
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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"> <li>1. Total rain water would be available = OB dump (area) X Rainfall(m) X Runoff coefficient (20%) i.e.: <math>23340 \text{ m}^2 \times 0.05 \text{ m} \times 0.20 = 233.4 \text{ m}^3</math> and considering 50% safety margin. Total capacity of siltation pond should be <math>466.8 \text{ m}^3</math>.</li> <li>2. Sub-grade (area) X Rainfall (m) X Runoff coefficient (20%) i.e.: <math>62540 \text{ m}^2 \times 0.05 \text{ m} \times 0.20 = 625.4 \text{ m}^3</math> and considering 50% safety margin then total capacity of siltation pond should be <math>1250.8 \text{ m}^3</math>.</li> <li>3. Total rain water collection capacity of siltation pit requires = <math>466.8 \text{ m}^3 + 1250.8 \text{ m}^3 = 1717.6 \text{ m}^3</math>.</li> <li>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.</li> </ol>																									
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	Complied	Top soil generated during mining operation in FY: 2022-23 (till September-22) is 9960 MT and it's stored at earmarked sites within the mine lease only and same is being used for plantation purpose.																									

		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.		
<b>VII Transportation</b>				
1	Transportation	No transportation of the minerals shall be allowed in case of roads passing through villages/ habitations. In such cases, PP shall construct a 'bypass' road for the purpose of transportation of the minerals leaving an adequate gap (say at least 200 meters) so that the adverse impact of sound and dust along with chances of accidents could be mitigated. All costs resulting from widening and strengthening of existing public road network shall be borne by the PP in consultation with nodal State Govt. Department. Transportation of minerals through road movement in case of existing village/rural roads shall be allowed in consultation with nodal state govt. department only after required strengthening such that the carrying capacity of roads is increased to handle the traffic load. The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly Vehicular emissions shall be kept under control and regularly monitored. Project should obtain Pollution Under Control(PUC) certificate for all the vehicles from authorized pollution testing centers.	Complied	<ul style="list-style-type: none"> <li>Not applicable, road is not passing through any villages/habitations. All the minerals are being transported by own cemented concrete road.</li> </ul>
2	Transportation	The main haulage road within the mine lease should be provided with a permanent water sprinkling arrangement for dust suppression. other roads within the mine lease should be wetted regularly with tanker-mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points. material yards etc. should invariably be provide with dust suppression arrangements. The air pollution control equipment's like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at	Complied	Tanker-mounted water sprinkling system has been provided for control of fugitive dust emission and regular water sprinkling being carried out on loading & unloading points, transfer points as well as the haul roads to prevent the dust becoming air borne during transportation movement of vehicles by water tanker.

		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.																						
<b>VIII Green Belt</b>																								
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	<b>Details of plantation developed are: -</b> <table border="1"> <thead> <tr> <th>Location of plantation</th><th>Total Area</th><th>Total Plantation till the FY: 2021-22</th><th>Total Plantation in FY-2022-23 till Sept-22</th><th>Remark</th></tr> </thead> <tbody> <tr> <td>Periphery area (Safety Zone)</td><td>4.90 ha</td><td>2.538 ha covered with 6350 nos. of tree saplings.</td><td>-</td><td>Remaining Periphery plantation area 2.362 ha will be done in remaining period of the FY 2022-23</td></tr> <tr> <td>Non mineral area/ Avenue Plantation/ Village Road</td><td>--</td><td>25.112 ha. with 63300 nos. plantation done (within &amp; outside lease area)</td><td>1.14 ha sapling 5850 nos.</td><td>--</td></tr> <tr> <td><b>Total</b></td><td>--</td><td><b>27.65 ha (69650 nos.)</b></td><td><b>1.14 ha (5850 nos.)</b></td><td>--</td></tr> </tbody> </table>	Location of plantation	Total Area	Total Plantation till the FY: 2021-22	Total Plantation in FY-2022-23 till Sept-22	Remark	Periphery area (Safety Zone)	4.90 ha	2.538 ha covered with 6350 nos. of tree saplings.	-	Remaining Periphery plantation area 2.362 ha will be done in remaining period of the FY 2022-23	Non mineral area/ Avenue Plantation/ Village Road	--	25.112 ha. with 63300 nos. plantation done (within & outside lease area)	1.14 ha sapling 5850 nos.	--	<b>Total</b>	--	<b>27.65 ha (69650 nos.)</b>	<b>1.14 ha (5850 nos.)</b>	--
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<b>Total</b>	--	<b>27.65 ha (69650 nos.)</b>	<b>1.14 ha (5850 nos.)</b>	--																				
2	Green Belt	The project proponent shall carryout plantation / afforestation in backfilled and reclaimed area of mining lease, around water body, along the roadsides, in community areas etc. by planting the native species in consultation with the state forest department/ Agriculture Department/ Rural development/ Tribal Welfare Department/ gram panchayat such that only those species be selected which are of use to the local people. The CPCB guidelines in this respect shall also be adhered. The density of the trees should be around 2500 saplings per hectare adequate budgetary provision shall be made for protection and care of trees.	Complied	There is no proposal of backfilling as per approved mining plan.																				



3	Green Belt	The project proponent shall make necessary alternative arrangements for livestock feed by developing grazing land with a view to compensate those areas which are coming within the mine lease area. The development of such grazing land shall be done in consultation with the state government, in this regard Project proponent should essentially implement the directions of the Hon'ble Supreme Court with regard to acquisition of grazing land. The Sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded / protected against felling and plantation of such trees should be promoted.	Complied	<ul style="list-style-type: none"> <li>• Mining lease was originally granted on 25/07/1984 and executed on 13/12/1984, which is prior to the court order.</li> <li>• Permission for working in grazing land has been granted by District Authority vide letter No.: Rajasva/Khanan/NOC/12-12(66)07/199 on 2<sup>nd</sup> Jan., 2012 and Rajasva/Khanan/NOC/12-12(66)07/228 on 6<sup>th</sup> Feb., 2012 and Prakaran No.: 5/96 on 27<sup>th</sup> March, 1996.</li> </ul>
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"> <li>a) Pavocristatus (Indian Peafowl),</li> <li>b) Pantherapadusfusca (Indian Leopard),</li> <li>c) Prionailurusrubiginosus (Rusty-Spotted Cat),</li> <li>d) Canis lupus pallipes (Indian Wolf),</li> <li>e) Varanusbengalensis (Indian Monitor Lizard)</li> <li>f) Gyps indicus/Gyps bengalensis (Indian Vulture)</li> </ol> <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 wildlife conservation Plan and its implementation status (annual) shall be submitted to the Regional Office of the Ministry.	Complied	Wildlife conservation plan prepared in the consultation of DFO and implementation will also be done according to approved wildlife conservation plan. Annual status will be submitted after final approval of WCP.
<b>IX</b>	<b>Public Hearing And Human Health Issues</b>			

1		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"><li>Periodical medical examination of workmen is being carried out.</li><li>Detail of medical examination carried out for the period: Apr-22 to Sept-22 is given below:</li></ul> <table><tr><td>Particular</td><td>Medical Exam. Carried out (in Nos.)</td></tr><tr><td>No. of persons examined</td><td>2</td></tr><tr><td>Initial Medical Examination</td><td>2</td></tr><tr><td>Periodical Medical Examination</td><td>0</td></tr><tr><td>Disease observed</td><td>NO</td></tr></table>	Particular	Medical Exam. Carried out (in Nos.)	No. of persons examined	2	Initial Medical Examination	2	Periodical Medical Examination	0	Disease observed	NO
Particular	Medical Exam. Carried out (in Nos.)													
No. of persons examined	2													
Initial Medical Examination	2													
Periodical Medical Examination	0													
Disease observed	NO													
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 (Providing Sanitary Napkins), hazard of tobacco and alcohol use. The Proponent shall carryout base line I-IRA for all the category of workers and thereafter every five years.	Complied	<ul style="list-style-type: none"><li>Company has “Zero Harm Goal Policy” and periodically identified the hazards and preventive action are being taken.</li><li>Best practices have been implemented to maintain vibration, fly rocks, dust emission, noise level and all parameters are well within the limit.</li><li>Mobile medical check-up camps are being organized at all nearby villages for treatment and medicine free of cost.</li></ul>										
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	Complied	Pre-employment medical check-up are being carried out considering the parameter as per DGMS.										

		<p>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).</p>		
4	Public Hearing And Human Health Issues	<p>The Proponent shall maintained a record of performance indicators for workers which includes (a) there should not be a significant decline in their Body Mass Index and it should stay between 18.5 -24.9, (b) the Final Chest X-Ray compared with the base line X-Ray should not show any capacities ,(c) At the end of their leaving job there should be no Diminution in their Lung Functions Forced Expiratory Volume in one second (FEV1) , forced vital capacity (FVC) and the ratio unless they are smokers which has to be adjusted and the effect of age , (d) their hearing should not be affected . as a proof an Audiogram (first and last need to be presented), (e) they should not have developed any persistent back pain, neck 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&amp;CC</p>	Complied	<p>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>

		annually along with details of the relief and compensation paid to workers having above indications.		
5	Public Hearing And Human Health Issues	The Project Proponent shall ensure that Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.	Complied	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.
6	Public Hearing And Human Health Issues	Project Proponent shall make provision for the housing for workers/labors or shall construct labor camps within/outside (company owned land) with necessary basic infrastructure/facilities like fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche for kids etc. The housing may be provided in the form of temporary structures which can be removed after the completion of the project related infrastructure. The domestic waste water should be treated with STP in order to avoid contamination of underground water.	Complied	<ul style="list-style-type: none"> <li>• All workers engaged are belongs to local area and they are living in their own houses, therefore temporary structure/ hutment are not required.</li> <li>• Employees are residing in colony situated at Nimbahera Cement Plant, where all basic facilities are available.</li> </ul>
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	Kindly refer to the point no. 10
<b>X</b>	<b>Corporate Environment Responsibility</b>			
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 for the FY: 2021-22 along with last EC compliance report.

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"> <li>Expenditures made towards environment protection measures taken during the FY 2021-22 is Rs. 430364/-.</li> <li>Detail expenditure occurred in the FY: 2022-23 will be submitted along with next six monthly EC compliance report.</li> </ul>
<b>XI Miscellaneous</b>				
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	Digital processing report of the entire lease area has been submitted on 02.03.2020 vide letter No.: NBH/PC-14/C12/5905.
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 49.29 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 safeguards were sent to the MoEF&CC, CPCB and RPCB vide our letter No.: NBH/PC-14/C13, dated 25/05/2022.
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	Complied	Noted & agreed.



		further condition in the interest of environment protection.		
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  
(Karunda Limestone Mines)



(Authorized Signatory)



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

Report No. : **2083**

Report On : **23/06/2022**

I hereby certify that I **Dr Giriraj Kumar Songara**, State Board Analyst duly appointed **under sub Section(2) of Section 29 of the Air (Prevention & Control of Pollution) Act, 1981** received on the **16/06/2022** from **Mansingh, JSO, Chittorgarh ,RSPCB Chittorgarh** a sample of **Ambient Air Quality** of **M/S J.K.Cement Works , Plant - J.K. Cement Works [190] ,Nimbahera, Kailash Nagar , City- Ahirpura Tehsil- Nimbahera , District- Chittorgarh ~~M.L.No. 2/97~~** Collected from **ambient air quality monitoring near ravana office (Karunda mines M.L.No. 3/03)** Collected on **15/06/2022**. The Sample was in a condition fit for analysis as reported below :-

I further certify that I have analyzed the aforementioned sample on **23/06/2022** and declare the result of the analysis to be as below :-

S. No.	Parameters	Result
1	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	73
2	PM 2.5 $\mu\text{g}/\text{m}^3$	28
3	Sulphur Dioxide as SO2 $\mu\text{g}/\text{m}^3$	6.3
4	NO2 $\mu\text{g}/\text{m}^3$	17.3

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

Signed This On **23/06/2022**

  
**BOARD ANALYST**

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

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

Report No. : **2084**

Report On : **23/06/2022**

I hereby certify that I **Dr Giriraj Kumar Songara**, State Board Analyst duly appointed under sub Section(2) of Section 29 of the Air (Prevention & Control of Pollution) Act, 1981 received on the 16/06/2022 from **Mansingh, JSO, Chittorgarh ,RSPCB Chittorgarh** a sample of **Ambient Air Quality** of **M/S J.K.Cement Works , Plant - J.K. Cement Works [190] ,Nimbahera, Kailash Nagar , City- Ahirpura Tehsil- Nimbahera , District- Chittorgarh ~~M.L.No- 2/97~~** Collected from **ambient air quality monitoring near mines office (Karunda mines M.L.No. 3/03)** Collected on **15/06/2022**. The Sample was in a condition fit for analysis as reported below :-

I further certify that I have analyzed the aforementioned sample on **23/06/2022** and declare the result of the analysis to be as below :-

S. No.	Parameters	Result
1	Particulate Matter (PM10) $\mu\text{g}/\text{m}^3$	77
2	PM 2.5 $\mu\text{g}/\text{m}^3$	36
3	Sulphur Dioxide as SO2 $\mu\text{g}/\text{m}^3$	9.2
4	NO2 $\mu\text{g}/\text{m}^3$	11.4

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

Signed This On **23/06/2022**



**BOARD ANALYST**

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





# TEAM TEST HOUSE

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



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

RSPCB

ISO 9001:2015,

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ISO 45001:2018 (OH&S)

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. :	TC502522400001515	Date :	20-06-2022
Issued To :	M/S Karunda Limestone Mine (ML No.-3/03) C/o J.K. Cement Works , Nimbahera, Tehsil- Nimbahera,, District- Chittorgarh 312617 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	10-06-2022
Point of Collection :	Karunda Village	Date of Receipt :	11-06-2022
Date of Test/Analysis :	11-06-2022 to 20-06-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
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	Ammonia [microgram/m3]	BDL (<10.0)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	250	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.13	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	12.51	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL (<20.0)	APHA 1977,Part 819	100.00
6	Particulate Matter (PM2.5) [microgram/m3]	31.44	IS 5182 (Part 24) : 2019	60.00
7	Sulphur Dioxide [microgram/m3]	3.16	IS 5182 (Part 2) : 2001 RA 2017	80.00
8	Particulate Matter (PM 10) [microgram/m3]	74.69	IS 5182 (Part 23)-2006 RA 2017	100.00
9	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2019	6.00
10	Nickel [ng/m3]	7.4	IS 5182 : Part 26 : 2020	20.00

### Notes :-

- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

P  
Puran Mal Yogi

Rajesh Maheshwar



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

## TEST REPORT

Report No./ULR No. :	400001515	Date :	20-06-2022
Issued To :	M/S Karunda Limestone Mine (ML No.-3/03) C/o J.K. Cement Works , Nimbahera, Tehsil- Nimbahera,, District- Chittorgarh 312617 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	10-06-2022
Point of Collection :	Karunda Village	Date of Receipt :	11-06-2022
Date of Test/Analysis :	11-06-2022 to 20-06-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
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	Benzene [microgram/m3]	BDL (<1.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
2	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00

Notes :-

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P. Mal Yogi  
Senior Analyst

Rajesh Maheshwari  
Authorized Signatory  
(Report No: 400001515 )





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## TEST REPORT

Report No./ULR No. :	TC502522400001514	Date :	20-06-2022
Issued To :	M/S Karunda Limestone Mine (ML No.-3/03) C/o J.K. Cement Works , Nimbahera, Tehsil- Nimbahera,, District- Chittorgarh 312617 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	10-06-2022
Point of Collection :	Charlia Gadia Village Karunda	Date of Receipt :	11-06-2022
Date of Test/Analysis :	11-06-2022 to 20-06-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
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	Ammonia [microgram/m3]	BDL (<10.0)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	270	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.08	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.29	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL (<20.0)	APHA 1977,Part 819	100.00
6	Particulate Matter (PM2.5) [microgram/m3]	34.57	IS 5182 (Part 24) : 2019	60.00
7	Sulphur Dioxide [microgram/m3]	4.61	IS 5182 (Part 2) : 2001 RA 2017	80.00
8	Particulate Matter (PM 10) [microgram/m3]	75.84	IS 5182 (Part 23)-2006 RA 2017	100.00
9	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2019	6.00
10	Nickel [ng/m3]	13	IS 5182 : Part 26 : 2020	20.00

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Puran Mal Yogi

Rajesh Maheshwar



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Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No. :	400001514	Date :	20-06-2022
Issued To :	M/S Karunda Limestone Mine (ML No.-3/03) C/o J.K. Cement Works , Nimbahera, Tehsil- Nimbahera,, District- Chittorgarh 312617 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	10-06-2022
Point of Collection :	Charlia Gadia Village Karunda	Date of Receipt :	11-06-2022
Date of Test/Analysis :	11-06-2022 to 20-06-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
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	Benzene [microgram/m3]	BDL (<1.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
2	Benzo-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00

Notes :-

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

Pooja Mal Yogi  
Senior Analyst

Rajesh Maheshwari  
Authorized Signatory  
(Report No: 400001514 )





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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. :	TC502522400002331	Date :	24-08-2022
Issued To :	M/S Karunda Limestone Mine (ML No.-3/03) C/o J.K. Cement Works , Nimbahera, Tehsil- Nimbahera,, District- Chittorgarh 312617 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	08-08-2022
Point of Collection :	Near Mine office, Karunda Mine	Date of Receipt :	09-08-2022
Date of Test/Analysis :	09-08-2022 to 24-08-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
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]	210	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	12.65	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Particulate Matter (PM2.5) [microgram/m3]	23.98	IS 5182 (Part 24) : 2019	60.00
4	Sulphur Dioxide [microgram/m3]	3.89	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM 10) [microgram/m3]	38.97	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Senior Analyst

Mal Yogi

K.M. MUKHOPADHYAY

Authorized Signatory

(Report No: TC502522400002331 )





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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. :	TC502522400002332	Date :	24-08-2022
Issued To :	M/S Karunda Limestone Mine (ML No.-3/03) C/o J.K. Cement Works , Nimbahera, Tehsil- Nimbahera,, District- Chittorgarh 312617 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	09-08-2022
Point of Collection :	Near Ravana Office ,Karunda Mine	Date of Receipt :	09-08-2022
Date of Test/Analysis :	09-08-2022 to 24-08-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
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]	190	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	12.5	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Particulate Matter (PM2.5) [microgram/m3]	17.87	IS 5182 (Part 24) : 2019	60.00
4	Sulphur Dioxide [microgram/m3]	3.36	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM 10) [microgram/m3]	40.06	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Senior Analyst  
Rajan Mal Yogi

K.N. MUKHOPADHYAY  
Authorized Signatory  
(Report No: TC502522400002332 )



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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. :	TC502522400002335	Date :	24-08-2022
Issued To :	M/S Karunda Limestone Mine (ML No.-3/03) C/o J.K. Cement Works , Nimbahera, Tehsil- Nimbahera,, District- Chittorgarh 312617 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	08-08-2022
Point of Collection :	Charlia Gadia Village Karunda	Date of Receipt :	09-08-2022
Date of Test/Analysis :	09-08-2022 to 24-08-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
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]	150	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	10.14	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Particulate Matter (PM2.5) [microgram/m3]	17.54	IS 5182 (Part 24) : 2019	60.00
4	Sulphur Dioxide [microgram/m3]	3.36	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM 10) [microgram/m3]	42.64	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Senior Analyst

**Purni Mal Yogi**

**K.N. MUKHOPADHYAY**

Authorized Signatory

(Report No: TC502522400002335 )



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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. :	TC502522400002336	Date :	24-08-2022
Issued To :	M/S Karunda Limestone Mine (ML No.-3/03) C/o J.K. Cement Works , Nimbahera, Tehsil- Nimbahera,, District- Chittorgarh 312617 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	09-08-2022
Point of Collection :	Karunda Village	Date of Receipt :	09-08-2022
Date of Test/Analysis :	09-08-2022 to 23-08-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
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]	150	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	9.92	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Particulate Matter (PM2.5) [microgram/m3]	22.02	IS 5182 (Part 24) : 2019	60.00
4	Sulphur Dioxide [microgram/m3]	4.07	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM 10) [microgram/m3]	38.22	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Senior Analyst

**Puran Mal Yogi**

**K.N. MUKHOPADHYAY**

Authorized Signatory

(Report No: TC502522400002336 )





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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

## ANNEXURE-2

### TEST REPORT

Report No./ULR No. :	TC502522400001513	Date :	20-06-2022
Issued To :	M/S Karunda Limestone Mine (ML No.-3/03) C/o J.K. Cement Works , Nimbahera, Tehsil- Nimbahera,, District- Chittorgarh 312617 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Fugitive Emission Quality Monitoring	Date of Sample Collection/Monitoring :	09-06-2022
Point of Collection :	Near Loading point of Karunda Mine	Date of Receipt :	11-06-2022
Date of Test/Analysis :	11-06-2022 to 20-06-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
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]	479.58	IS 5182 (Part 4) : 1999 RA 2019
2	Sulphur Dioxide [microgram/m3]	4.62	IS 5182 (Part 2) : 2001 RA 2017
3	Oxides of Nitrogen [microgram/m3]	15.42	IS 5182 (Part 6) : 2006 Reaffirmed 2017
4	Carbon Monoxide [microgram/m3]	290	TTH/AAQM/08

#### Notes :-

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*P. Maheshwan*  
P. Maheshwan  
Senior Analyst

*P. Maheshwan*  
Rajesh Maheshwan  
Authorized Signatory  
(Report No: TC502522400001513 )



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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. :	TC502522400001512	Date :	20-06-2022
Issued To :	M/S Karunda Limestone Mine (ML No.-3/03) C/o J.K. Cement Works , Nimbahera, Tehsil- Nimbahera,, District- Chittorgarh 312617 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Fugitive Emission Quality Monitoring	Date of Sample Collection/Monitoring :	09-06-2022
Point of Collection :	3-10 Meter Distance Form Drilling Point of Karunda Mine	Date of Receipt :	11-06-2022
Date of Test/Analysis :	11-06-2022 to 20-06-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
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]	362.95	IS 5182 (Part 4) : 1999 RA 2019
2	Sulphur Dioxide [microgram/m3]	4.3	IS 5182 (Part 2) : 2001 RA 2017
3	Oxides of Nitrogen [microgram/m3]	15.08	IS 5182 (Part 6) : 2006 Reaffirmed 2017
4	Carbon Monoxide [microgram/m3]	310	TTH/AAQM/08

### Notes :-

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Purnan Mal Yogi  
Senior Analyst

Rajesh Maheshwan  
Authorized Signatory  
(Report No: TC502522400001512 )





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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. :	TC502522400002333	Date :	24-08-2022
Issued To :	M/S Karunda Limestone Mine (ML No.-3/03) C/o J.K. Cement Works , Nimbahera, Tehsil- Nimbahera,, District- Chittorgarh 312617 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Fugitive Emission Quality Monitoring	Date of Sample Collection/Monitoring :	08-08-2022
Point of Collection :	3-10 Meter Distance Form Drilling Point of Karunda Mine	Date of Receipt :	09-08-2022
Date of Test/Analysis :	09-08-2022 to 24-08-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
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]	216.74	IS 5182 (Part 4) : 1999 RA 2019
2	Sulphur Dioxide [microgram/m3]	2.59	IS 5182 (Part 2) : 2001 RA 2017
3	Oxides of Nitrogen [microgram/m3]	13.29	IS 5182 (Part 6) : 2006 Reaffirmed 2017
4	Carbon Monoxide [microgram/m3]	260	TTH/AAQM/08

### Notes :-

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Purnan Mal Yogi  
Senior Analyst

K.N. MUKHOPADHYAY  
Authorized Signatory  
(Report No: TC502522400002333)



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**JDA/UDH**

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C-Scheme, Jaipur - 302001, Rajasthan  
Phone : +91 6377210064, 9414077379,  
Website : [www.teamtesthouse.com](http://www.teamtesthouse.com)  
Email : [team.bdhead@gmail.com](mailto:team.bdhead@gmail.com)

Laboratory : G1-584, RIICO Industrial Area,  
Sitapura, Jaipur - 302022, Rajasthan  
Phone : +91 9460222039, 9460222049,  
Email : [director@teamtesthouse.com](mailto:director@teamtesthouse.com),  
Email : [marketinglab@teamtesthouse.com](mailto:marketinglab@teamtesthouse.com)

## TEST REPORT

Report No./ULR No. :	TC502522400002334	Date :	24-08-2022
Issued To :	M/S Karunda Limestone Mine (ML No.-3/03) C/o J.K. Cement Works , Nimbahera, Tehsil- Nimbahera,, District- Chittorgarh 312617 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Fugitive Emission Quality Monitoring	Date of Sample Collection/Monitoring :	09-08-2022
Point of Collection :	Near Loading point of Karunda Mine	Date of Receipt :	09-08-2022
Date of Test/Analysis :	09-08-2022 to 24-08-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
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]	344.22	IS 5182 (Part 4) : 1999 RA 2019
2	Sulphur Dioxide [microgram/m3]	4.07	IS 5182 (Part 2) : 2001 RA 2017
3	Oxides of Nitrogen [microgram/m3]	14.17	IS 5182 (Part 6) : 2006 Reaffirmed 2017
4	Carbon Monoxide [microgram/m3]	270	TTH/AAQM/08

### Notes :-

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

**Purni Mal Yogi**  
Senior Analyst

**K.N. MUKHOPADHYAY**  
Authorized Signatory  
(Report No: TC502522400002334 )

## ANNEXURE-3

<b>M/s J.K.CEMENT WORKS, NIMBAHERA</b>		
<b>Digital Water Level Recorder Report (Ground water Level) of Karunda Limestone Mine ( ML No. 3/03))</b>		
<b>Month</b>	<b>Telemetry BW_7 (in m)(avg.)</b>	<b>Remarks</b>
<b>Apr-22</b>	18.78	
<b>May-22</b>	14.06	
<b>Jun-22</b>	13.82	
<b>Jul-22</b>	10.71	
<b>Aug-22</b>	6.53	
<b>Sep-22</b>	5.58	





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JDA/UDH

Office : E-65, Chitrangan Marg,  
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. :	TC502522100001450	Date :	20-08-2022
Issued To :	M/S Karunda Limestone Mine (ML No.-3/03) C/o J.K. Cement Works , Nimbahera, Tehsil- Nimbahera,, District- Chittorgarh 312617 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Potable and Domestic Water	Date of Sample Collection/Monitoring :	09-08-2022
Point of Collection :	Pit Water (Surface Water)	Date of Receipt :	09-08-2022
Date of Test/Analysis :	09-08-2022 to 20-08-2022	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]	5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Turbidity [NTU]	0.3	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
4	pH	7.98	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
5	Hardness (total) [mg/l]	107.84	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]	35.22	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
8	Total Dissolved Solids [mg/l]	228	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
9	Calcium [mg/l]	31.37	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00
10	Magnesium [mg/l]	7.15	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00

Rajesh Maheshwari





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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

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]	0.34	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
12	Suspended Solids [mg/l]	4	IS 3025 (Part 17) : 1984 RA 2017	-	-
13	Oil and Grease [mg/l]	Less than 1	IS 3025 (Part 39) : 1991 RA 2019	-	-
14	Conductivity [micromho/cm]	308	APHA 2017 : 2510 B	-	-
15	M - Alkalinity [mg/l]	60	IS 3025 (Part 23) : 1986 RA 2019	-	-
16	Total coliform [MPN/100ml]	Not Detected	IS 1622 : 1981	Shall not be detectable in 100 ml sample	-
17	E. Coli [MPN/100ml]	Not Detected	IS 5887 (Part 1) : 1976 RA 2018	Shall not be detectable in 100 ml sample	-

Notes :-

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*Balram*  
Balram Agarwal  
Senior Analyst

*Rajesh*  
Rajeshwar Singh  
Authorized Signatory  
(Report No: TC502522100001450)





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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. :	TC502522100001451	Date :	20-08-2022
Issued To :	M/S Karunda Limestone Mine (ML No.-3/03) C/o J.K. Cement Works, Nimbahera, Tehsil- Nimbahera,, District- Chittorgarh 312617 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Borewell Water	Date of Sample Collection/Monitoring :	09-08-2022
Point of Collection :	Tube Well (Mines Office) (Ground Water)	Date of Receipt :	09-08-2022
Date of Test/Analysis :	09-08-2022 to 20-08-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr.	Sample Collected By :	Vimal Kumar Yadav
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	8.00	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
5	Hardness (total) [mg/l]	382.35	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]	606	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
9	Calcium [mg/l]	113.73	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00
10	Magnesium [mg/l]	23.82	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00

*Rajesh Maheshwar*  
Rajesh Maheshwar





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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

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]	0.63	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
12	Conductivity [micromho/cm]	936	APHA 2017 : 2510 B	-	-
13	Oil and Grease [mg/l]	Less than 1	IS 3025 (Part 39) : 1991 RA 2019	-	-
14	Total Suspended Solids [mg/l]	8	IS 3025 (Part 17) : 1984 RA 2017	-	-
15	M - Alkalinity [mg/l]	250	IS 3025 (Part 23) : 1986 RA 2019	-	-

Notes :-

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*Behram*  
Senior Analyst

*Rajesh*  
Authorized Signatory  
(Report No: TC502522100001451 )





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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. :	TC502522100001452	Date :	20-08-2022
Issued To :	M/S Karunda Limestone Mine (ML No.-3/03) C/o J.K. Cement Works , Nimbahera, Tehsil- Nimbahera,, District- Chittorgarh 312617 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Borewell Water	Date of Sample Collection/Monitoring :	09-08-2022
Point of Collection :	Hand Pump (Near Village Charlia) (Ground Water)	Date of Receipt :	09-08-2022
Date of Test/Analysis :	09-08-2022 to 20-08-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr.	Sample Collected By :	Vimal Kumar Yadav
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	7.92	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
5	Hardness (total) [mg/l]	392.16	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]	76.32	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
8	Total Dissolved Solids [mg/l]	504	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
9	Calcium [mg/l]	117.65	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00
10	Magnesium [mg/l]	23.82	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00

Raresh Maheshwan





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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]	0.89	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
12	Conductivity [micromho/cm]	813	APHA 2017 : 2510 B	-	-
13	Oil and Grease [mg/l]	Less than 1	IS 3025 (Part 39) : 1991 RA 2019	-	-
14	Total Suspended Solids [mg/l]	7	IS 3025 (Part 17) : 1984 RA 2017	-	-
15	M - Alkalinity [mg/l]	230	IS 3025 (Part 23) : 1986 RA 2019	-	-

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*Babbar*  
Senior Analyst

*Rajesh*  
Authorized Signatory  
Rajesh Maheshwari  
(Report No: TC502522100001452 )



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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. :	TC502522100000724	Date :	07-05-2022
Issued To :	M/S Karunda Limestone Mine (ML No.-3/03) C/o J.K. Cement Works , Nimbahera, Tehsil- Nimbahera,, District- Chittorgarh 312617 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Potable and Domestic Water	Date of Sample Collection/Monitoring :	25-04-2022
Point of Collection :	Pit Water (Surface Water)	Date of Receipt :	28-04-2022
Date of Test/Analysis :	28-04-2022 to 07-05-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr.	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

### RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	10	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Turbidity [NTU]	1.7	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
4	pH	7.88	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
5	Hardness (total) [mg/l]	345.63	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]	59.13	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
8	Total Dissolved Solids [mg/l]	413	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00

Note:

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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

**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
9	Calcium [mg/l]	104.08	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00
10	Magnesium [mg/l]	20.76	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
11	Fluoride [mg/l]	0.47	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
12	Suspended Solids [mg/l]	16	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]	592	APHA 2017 : 2510 B	-	-
15	M - Alkalinity [mg/l]	140	IS 3025 (Part 23) : 1986 RA 2019	-	-

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*Balran*

Senior Analyst

*Baf*

Authorized Signatory

(Report No: TC502522100000724 )





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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. :	TC502522100000725	Date :	07-05-2022
Issued To :	M/S Karunda Limestone Mine (ML No.-3/03) C/o J.K. Cement Works , Nimbahera, Tehsil- Nimbahera,, District- Chittorgarh 312617 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Borewell Water	Date of Sample Collection/Monitoring :	26-04-2022
Point of Collection :	Tube Well (Mines Office) (Ground Water)	Date of Receipt :	28-04-2022
Date of Test/Analysis :	28-04-2022 to 07-05-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr.	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
4	pH	8.03	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
5	Hardness (total) [mg/l]	419.42	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
6	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
7	Chloride [mg/l]	78.84	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
8	Total Dissolved Solids [mg/l]	591	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00

Note:

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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

## 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
9	Calcium [mg/l]	138.25	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00
10	Magnesium [mg/l]	17.93	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
11	Fluoride [mg/l]	0.82	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
12	Conductivity [micromho/cm]	869	APHA 2017 : 2510 B	-	-
13	Oil and Grease [mg/l]	Less than 1	IS 3025 (Part 39) : 1991 RA 2019	-	-
14	Total Suspended Solids [mg/l]	5	IS 3025 (Part 17) : 1984 RA 2017	-	-
15	M - Alkalinity [mg/l]	280	IS 3025 (Part 23) : 1986 RA 2019	-	-

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*Balran*

Senior Analyst

*Raj*

Authorized Signatory

(Report No: TC502522100000725 )





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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. :	TC502522100000726	Date :	07-05-2022
Issued To :	M/S Karunda Limestone Mine (ML No.-3/03) C/o J.K. Cement Works , Nimbahera, Tehsil- Nimbahera,, District- Chittorgarh 312617 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Borewell Water	Date of Sample Collection/Monitoring :	26-04-2022
Point of Collection :	Hand Pump (Near Village Charlia) (Ground Water)	Date of Receipt :	28-04-2022
Date of Test/Analysis :	28-04-2022 to 07-05-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr.	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Turbidity [NTU]	BDL(<0.1)	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
4	pH	7.49	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
5	Hardness (total) [mg/l]	446.6	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
6	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
7	Chloride [mg/l]	78.84	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
8	Total Dissolved Solids [mg/l]	576	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00

Note:

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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

## 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
9	Calcium [mg/l]	152.23	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00
10	Magnesium [mg/l]	16.04	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00
11	Fluoride [mg/l]	0.95	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
12	Conductivity [micromho/cm]	887	APHA 2017 : 2510 B	-	-
13	Oil and Grease [mg/l]	Less than 1	IS 3025 (Part 39) : 1991 RA 2019	-	-
14	Total Suspended Solids [mg/l]	4	IS 3025 (Part 17) : 1984 RA 2017	-	-
15	M - Alkalinity [mg/l]	260	IS 3025 (Part 23) : 1986 RA 2019	-	-

### Notes :-

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*Balran*

Senior Analyst

*Raj*

Authorized Signatory

(Report No: TC502522100000726 )



**Date/Time** Vert at 14:04:22 July 11, 2022  
**Trigger Source** Geo: 0.500 mm/s  
**Range** Geo: 31.75 mm/s  
**Record Time** 3.75 sec (Auto=3Sec) at 1024 sps  
**Job Number:** 4

**Serial Number** BE17659 V 10.72-1.1 Minimate Blaster  
**Battery Level** 5.9 Volts  
**Unit Calibration** February 18, 2022 by UES New Delhi  
**File Name** S659JL0P.RA0

## Notes

**Location:** KARUNDA LIME STONE MINES  
**Client:** J K Cement Works Nimbahera  
**User Name:** RAJESH KUMAR JOSHI  
**General:**

## Post Event Notes

Bench=III-E ,Face E-W , S-Pit, B Id.=9--62  
 No. of holes=16 ,Ch./delay=32.92 Kg  
 Vibration monitor 300m front side of blasting face on  
 Karunda village road.

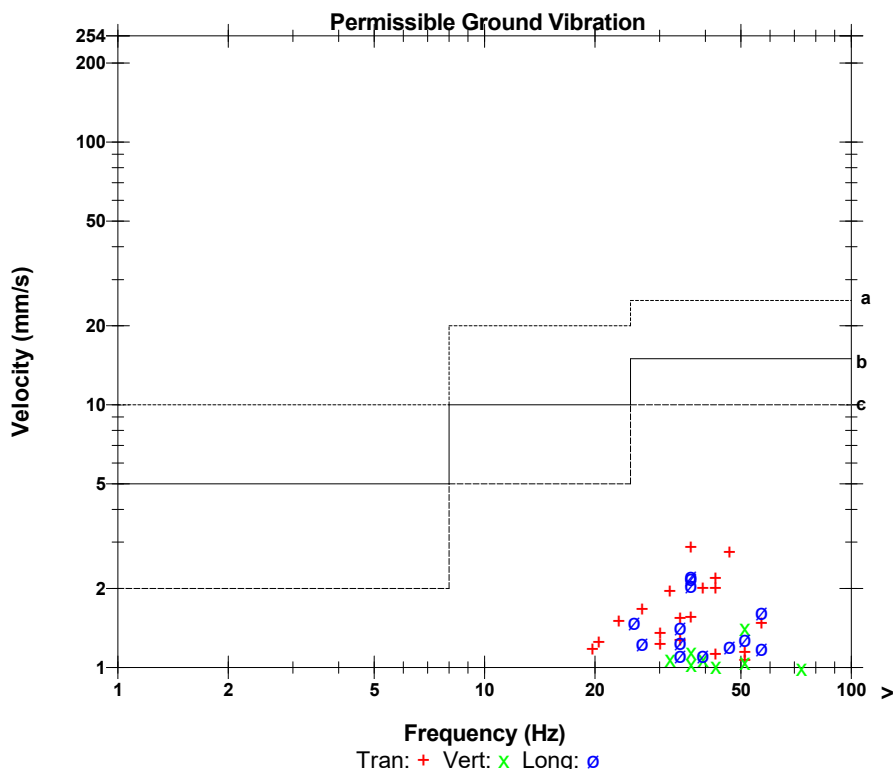
## Extended Notes

**Microphone** Linear Weighting  
**PSPL** 118.7 dB(L) at 1.324 sec  
**ZC Freq** 15 Hz  
**Channel Test** Passed (Freq = 19.7 Hz Amp = 464 mv )

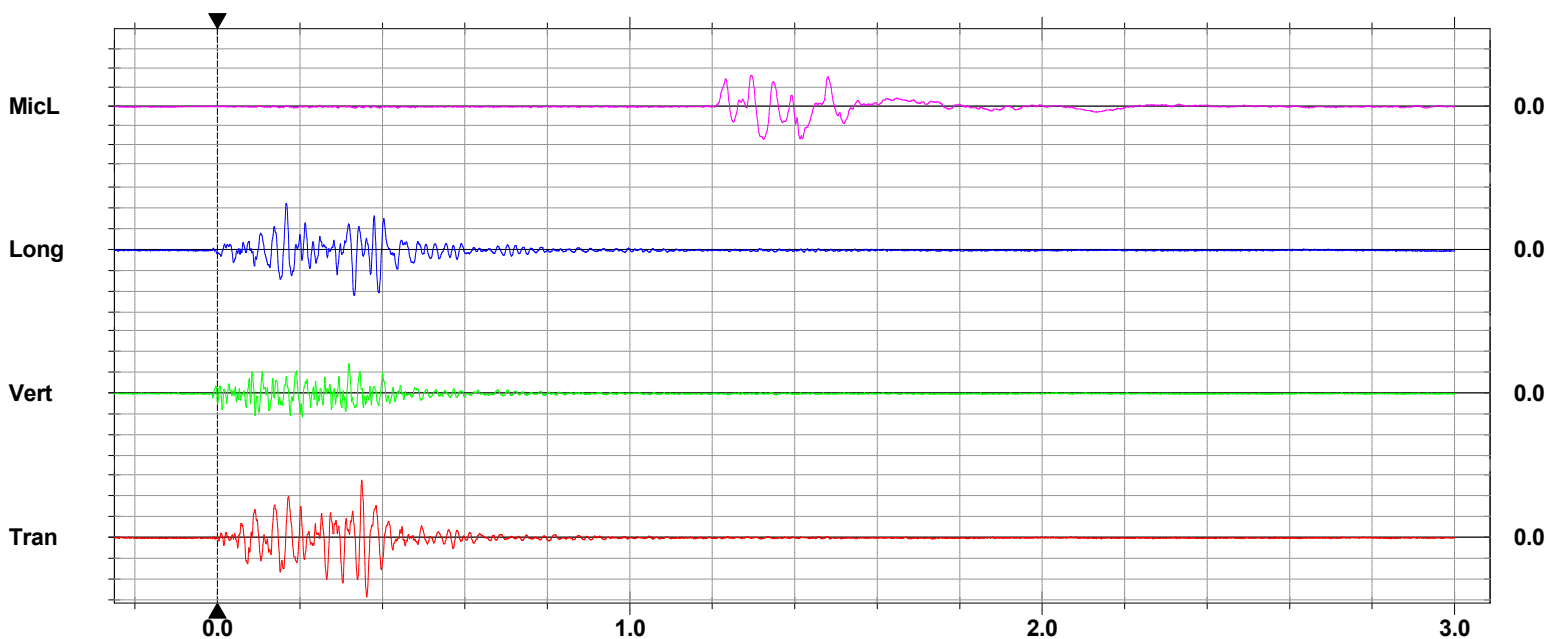
	Tran	Vert	Long	
PPV	2.873	1.413	2.222	mm/s
ZC Freq	37	51	37	Hz
Time (Rel. to Trig)	0.362	0.318	0.167	sec
Peak Acceleration	0.089	0.060	0.061	g
Peak Displacement	0.012	0.004	0.009	mm
Sensor Check	Passed	Passed	Passed	

**Peak Vector Sum** 2.910 mm/s at 0.362 sec

## DGMS India (A)



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



Time scale has been modified and may not represent the actual length of the event record

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

Trigger =

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

DATE OF RECEIPT : 16/06/2022

MONITORED BY : Mansingh, JSO, Chittorgarh

S.No.	Lab Sample No	Name of Industry / Place	Point of Collection / Location	Date of Monitoring	Noise Level In Day Time(Leq dB(A))	Noise Level In Night Time(Leq dB(A))
1	2089	J. K. Cement Works (Karunda Mine), Karunda Tehsil: Nimbahera District: Chittorgarh	ambient noise monitoring near ravana office (karunda mines M.L.No.3-03)	15/06/2022	48.5	ND



**BOARD ANALYST**

Rajasthan State Pollution Control Board

\* ND = Not Done

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

Result of Ambient Noise Level Monitoring

DATE OF RECEIPT : 16/06/2022

MONITORED BY : Mansingh, JSO, Chittorgarh

S.No.	Lab Sample No	Name of Industry / Place	Point of Collection / Location	Date of Monitoring	Noise Level In Day Time(Leq dB(A))	Noise Level In Night Time(Leq dB(A))
1	2090	J. K. Cement Works (Karunda Mine), Karunda Tehsil: Nimbahera District: Chittorgarh	ambient noise monitoring near mines office (karunda mines M.L.No. 3-03)	15/06/2022	59.7	ND



**BOARD ANALYST**

Rajasthan State Pollution Control Board

\* ND = Not Done



# TEAM TEST HOUSE

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



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

RSPCB

ISO 9001:2015,

ISO 14001:2015,

ISO 45001:2018 (OH&S)

JDA/UDH

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. :	TC502522600001537	Date :	24-08-2022
Issued To :	M/S Karunda Limestone Mine (ML No.-3/03) C/o J.K. Cement Works , Nimbahera, Tehsil- Nimbahera,, District- Chittorgarh 312617 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	09-08-2022
Point of Collection :	Near Mine office, Karunda Mine	Date of Receipt :	09-08-2022
Date of Test/Analysis :	09-08-2022 to 23-08-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
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)]	63.9	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	53.4	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

**K.N. MUKHOPADHYAY**  
Authorized Signatory  
(Report No: TC502522600001537 )





# TEAM TEST HOUSE

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



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

RSPCB

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

## TEST REPORT

Report No./ULR No. :	TC502522600001538	Date :	24-08-2022
Issued To :	M/S Karunda Limestone Mine (ML No.-3/03) C/o J.K. Cement Works , Nimbahera, Tehsil- Nimbahera,, District- Chittorgarh 312617 (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	09-08-2022
Point of Collection :	Near Ravana Office ,Karunda Mine	Date of Receipt :	09-08-2022
Date of Test/Analysis :	09-08-2022 to 23-08-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time ) : Leq [dB(A)]	60.7	IS 9989	75
2	Noise Level (Night Time ) : Leq [dB(A)]	50.5	IS 9989	65

### Notes :-

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

*Puran Mal Yogi*  
**Puran Mal Yogi**

*K.N. Mukhopadhyay*  
**K.N. MUKHOPADHYAY**

Authorized Signatory

(Report No: TC502522600001538 )

**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 Rahul Lohar** **S/O Shri Onkar Lal Lohar**  
 employed as **Taxi Driver in Karunda Limestone Mines, Form A No-**

has been examined for an **Initial/Periodical** medical examination. He appears to be 21 years of age.

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

**Shri Rahul Lohar S/O Shri Onkar Lal Lohar** (a) \* is medically fit for any employment in mines, ✓

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

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

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

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

Space for affixing passport size

Photograph of the Candidate



Signature of the examining Authority

.....  
 Name and designation in Block letters

**J. E. CHANDRA**  
**NIRAHARA (M)**  
**Reg. No. 21732**

\*Delete whatever is not applicable

\*\* One copy of the certificate shall be handed over to the person concerned and another copy shall be sent to the manager of the mine concerned by registered post ; and the third copy shall be retained by the examining authority.

FORM - O (Continued)

Report of the examination authority

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

Annexure to certificate No. \_\_\_\_\_ as a result of medical examination on 23/04/22  
identification Mark A Scar mark over

chir

Left thumb impression of the candidate



1. General Development

Good / Fair / Poor

2. Height 171 cms

3. Weight 65 kg.

4. Eyes:-

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

(ii) Any organic disease of eyes none

(iii) Night blindness no

(iv) Color Blindness no

(v) Squint \_\_\_\_\_

(to be tested in special cases)

5. Ears:-

(i) Hearing Right ear N Left ear N

(ii) Any organic disease none

6. Respiratory system (Chest measurement):-

(i) After full inspiration 95 cms.

(ii) After full expiration 90 cms.

7. Circulatory system:-

(i) Blood Pressure 120/76 mmHg

(ii) Pulse 77/min



## Report of Medical Examination under Mines Rule 29 B

(To be issued in continuation with Form - O)

Certificate No. ....

Name: Rahul Lohar

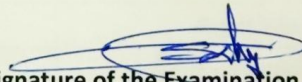
Identification Mark Scar Mark over chin

### Result of Lung Function Test (Spirometry)

Parameters	Predicted Value	Performed Value	% of Predicted
Forced Vital Capacity (FEV )	3.77	3.64	97
Forced Vital Capacity 1(FEV 1)	3.27	3.50	107
FEV 1 / FVC	86.74	96.15	111
Peak Expiratory Flow	9.59	8.08	84

Spirometry Report Enclosed:-

Dr. S. K. CHAUDHARY  
C.M.O.  
J. K. Cement Works  
NIMBAHERA (Raj.)  
Reg. No. 21732

  
Signature of the Examination Authority  
**Dr. S. K. CHAUDHARY**  
C.M.O.  
J. K. Cement Works  
NIMBAHERA (Raj.)  
Reg. No. 21732



8. Abdomen:-

- (i) Tenderness-----*no*-----  
(ii) Liver-----  
(iii) Spleen-----*} NP*-----  
(iv) Tumour-----*not seen*-----

9. Nervous system:-

- (i) History of fits or epilepsy-----*no*-----  
(ii) Paralysis-----*no*-----  
(iii) Mental Health-----*fine*-----

10. Locomotors system-----*(N)*-----

11. Skin-----*(N)*-----

12. Hernia-----*no*-----

13. Hydrocele-----*no*-----

14. Any other abnormality-----*none*-----

15. Urine:-

- (i) Reaction-----*acidic*-----  
(ii) Albumin-----*nil*-----  
(iii) Sugar-----*nil*-----

16. Skiagram of chest. *NAD*

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

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

Place:-

*Nimbarhera*  
J. K. Cement Works  
NIMBAHERA (Raj.)  
Reg. No. 21732

Signature of the examining Authority.

*[Signature]*  
Dr. S. K. CHAUDHARY  
C.M.O.  
J. K. Cement Works  
NIMBAHERA (Raj.)  
Reg. No. 21732

## Report of Medical Examination as per the recommendations of

### National Safety Conferences in Mines

(To be issued in continuation with Form - O)

Certificate No. ....

Name: Rahul Lohar

Identification Mark Scar mark over chin

#### 1. Cardio logical Assessment:-

Auscultation	S 1	<u>N</u>
	S 2	<u>N</u>
	Additional Sound	<u>none</u>
Electrocardiograph ( 12 leads ) findings :-		<u>Normal / Abnormal</u>

Enclosed ECG:-

#### 2. Neurological Assessment:-

Findings.	Normal / Abnormal.
Superficial Reflexes.	<u>N</u>
Deep Reflexes.	<u>N</u>
Peripheral Circulation.	<u>N</u>
Vibrational Syndromes.	<u>N</u>

#### 3. ILO Classification of Chest Radiograph:-

Profusion of Pneumoconiosis opacities	Grade	Type
<u>Present / Absent</u>	<u>✓</u>	<u>✓</u>

Enclosed Chest Radiograph:-

#### 4. Audiometry Findings:-

Conduction Type	Left Ear	Right Ear
Ear Conduction.	<u>Normal / Abnormal</u>	<u>Normal / Abnormal</u>
Bone Conduction.	<u>Normal / Abnormal</u>	<u>Normal / Abnormal</u>

Enclosed Audiometry Report:-



5. Pathological / Microbiological Investigations:-

Sr. No.	Tests	Findings
1.	Blood- Tc , Dc, Hb, ESR, Platelets	WNL / Abnormal
2.	Blood Sugar – Fasting & PP	WNL / Abnormal
3.	Lipid Profile.	WNL / Abnormal
4.	Blood Urea, Creatinine.	WNL / Abnormal
5.	Urine Routine	WNL / Abnormal
6.	Stool Routine.	WNL / Abnormal

Enclosed Investigation Report:-

6. Special Tests for Mn exposure:-

Behavioral Disturbances.		Present / Not Present
Neurological Disturbances	Speech Defect	Present / Not Present
	Tremor	Present / Not Present
	Adiadocokinesia	Present / Not Present
	Emotional Changes	Present / Not Present

7. Any other Special Test Required:-

Signature of the Examination Authority

**Dr. S. K. CHAUDHARY**  
C.M.O.  
J. K. Cement Works  
NIMBAHERA (Raj.)  
Reg. No. 21732