

NBH/PC-14/C14/

Through Email

Date: 19.11.2022

To,
The Director (M),
Ministry of Environment, Forest & Climate Change,
Indira Paryavaran Bhawan,
JOR Bagh Road, Aliganj,
New Delhi-110003

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

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

Dear Sir,
Kindly refer to the above subject matter and refer EC letter no., please find attached herewith compliance of EC for the period of **April 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 moef@nic.in, ccb.cpcb@nic.in, member-secretary@rpcb.nic.in, cpcb.bhopal@gov.in, monitoring-ec@nic.in, iro.jaipur-mefcc@gov.in.

We hope that the compliance is in order.

Thanking you.

Yours Faithfully

For J. K. Cement Works, Nimbahera



R. B. M. Tripathi
President (Operations)

Encl: as above

Copy to:

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



Corporate Office

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Form for Uploading Six Monthly Compliance Report

Proposal Details

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

Compliance Letter/Report

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

Details of Production and Project Area

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

PRODUCTION CAPACITY

| Name of the Product* | Units* | As per EC granted* | Production during last financial year: 2021-22) |
|----------------------------------|--------------------|---------------------------|--|
| Limestone | Million TPA | 0.8609 | 0.7733 |
| Sub/grade /Mineral Reject | Million TPA | 0.0050 | 0.0009 |
| Inter-burden | Million TPA | 0.0220 | 0.0216 |
| Top Soil | Million TPA | 0.007 | 0.0069 |
| Total Excavation Quantity | Million TPA | 0.8949 | 0.8025 |

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

EC Compliance Report: April-2022 to September-2022

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

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

A. SPECIFIC CONDITION: -

| S. N. | Condition Type | Condition Details | Self Declaration | Remarks / Reason |
|-------|----------------------|--|------------------|--|
| 1. | Statutory compliance | Plantation must be completed this monsoon to fill the gaps. | Complied | <ul style="list-style-type: none"> • Total plantation within lease in 50.5 ha. with 121868 saplings till FY 2021-22 including safety zone (7.651 ha.). • Total plantation done in 16.45 ha in outside the lease area with 31765 nos. of saplings till FY 2021-22. • Total plantation done in FY 2022-23 till Sept in safety zone (7.5 m) of 0.30 ha. with 1301 saplings. • Total plantation done in FY 2022-23 till Sept within lease in 3.03 ha. with 17358 nos. saplings including gap plantation. |
| 2. | Mining Plan | Mining will be restricted to already broken area and NO FRESH WILL BE BROKEN. PP has submitted that already 48 million tonnes of mineral has been extracted with the EC of 2 MT. Therefore, PP should first mine and exhaust the smaller blocks with lesser quantity of ore within a year with appropriate closure plan. Thereafter, PP can take up excavation from the bigger block with larger reserves of ore instead of mining simultaneously from all the blocks. | Complied | Mining activities are being carried out as per the approved mining plan only. |
| 3. | Greenbelt | PP also should do plantation up to 2 benches of 10 m height each in the pit where water gets accumulated all around the periphery of the pit which must be completed in 2 years. | Complied | Noted and agreed, it is plan to complete the upper bench plantation within stipulated time period in non-working area. |

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| 4. | Public Hearing And Human Health Issues | Public hearing concerns to be addressed through capital expenditure as per the submission. | Complied | CSR initiative are being taken to address the public hearing concerns. Detail of the same is given in below table: |
|----|--|--|----------|--|

Details of CSR Initiative Taken to Address the Public Hearing Concerns

| S. No. | Activity Head | CSR Project or Activities | Time Bound Action Plan with Budgetary Allocation | CSR Expenditure Amount (In Lakh) | | | | | | |
|--------|--------------------------------------|--|---|----------------------------------|------------------------|--|---------|------------------------|---------|-------|
| | | | | 2021-22 | Work Completion Status | If work Completed How much Expenditure (in Lakh) | 2022-23 | Work Completion Status | 2023-24 | Total |
| 1 | Community Infrastructure Development | Provision for Installation of LED Bulb on electricity poles in Ahirpura village will be done by company. | Installation of LED Bulb on electricity poles will be done by FY: 2021-22, FY: 2022-23, FY: 2023-24 with a cost of Rs. 1.50 Lakh (0.50 Lakh per year for three year and Total 50 nos. of led lights of each 25 W) | 0.5 | To be done | -- | 0.5 | To be done | 0.5 | 1.5 |
| | | Construction of roof in temple (Rebari Bavji's place) in village Ahirpura will be done by company. | Rs. 35,000/- financial support is given to Panchayat for the construction of roof. | 0.35 | Completed | 0.5 | -- | -- | -- | 0.35 |
| | | Repairing of roof of class room of Village Ahirpura will be done by the Company. | Budget of Rs. 4.0 Lakhs has been taken for repairing of roof of class room of Village Ahirpura and work will be done in FY: 2021-22. | 4 | To be done | -- | -- | To be done | -- | 4 |
| | | Construction of Two class rooms (22X44 Square ft) in School at Village Ahirpura will be done by the Company. | Budget of Rs. 20.0 Lakhs for Construction of two rooms (22 X 44 Sq. ft) in school in the FY: 2022-23. | -- | -- | -- | 20 | To be done | -- | 20 |
| | | Computers, printers and furniture will be provided to Government High Primary School, Ahirpura | Budget of Rs. 2.0 Lakh for arrangements of computers, printers and furniture (steel chair & Table) and provided by FY: 2021-22. | 2 | To be done | -- | -- | To be done | -- | 2 |
| | | Construction of CC road in Village Phacher Ahiran will be done by the Company. | Budget of Rs. 18.0 Lakh has been taken for construction of CC road (1.4.km) in Village Phacher-Ahiran and work will be done in FY: 21-22. | 18 | To be done | -- | -- | To be done | -- | 18 |
| | | Construction of CC road & Drainage at Bansa & Rasulpur Village will be done by the Company. | Budget of Rs. 40 Lakh has been taken for Construction of CC road & Drainage at Bansa & Rasulpur Village and work will be done in FY: 2021-22 (15 Lakh), FY: 2022-23 (10 Lakh) and FY: 2023-24 (15 Lakh). | 15 | Completed | 12 | 10 | To be done | 15 | 40 |
| | | Construction of kitchen shed and toilets in existing community building in Village Ahirpura will be done by the Company. | Budget of Rs. 12.0 Lakh is allotted for construction of kitchen shed (15 X 20 square feet) and Toilet (10 X 10 Square feet), work will be done in FY: 2021-22. | 12 | To be done | -- | -- | -- | -- | 12 |
| | | Renovation work in Grave yard Phachar Ahiran village will be done by the Company. | Budget of Rs. 20.0 Lakh is allotted for Renovation work in Grave yard Phachar Ahiran village and work will be done in FY: 2021-22 & FY: 2022-23. | 10 | Completed | 14 | 10 | To be done | -- | 20 |
| | | Gravel Gitti road work in Phachar Ahiran Village will be done by the Company. | Budget of Rs. 13.0 Lakh has been taken for Gravel Gitti road (1.5.km) work in Phachar Ahiran Village and work will be completed in FY: 2021-22. | 13 | Completed | 16 | -- | -- | -- | 13 |
| | | Construction the New Hall And 6 Rooms in Exiting Community Hall Phachar Ahiran. | Budget of Rs. 40.0 Lakh is allotted for Construction the New Hall (5000 @ 800 Rs./Square feet) and 6 Rooms (20 X 20 square feet) in Exiting Community Hall Phachar Ahiran and work will be done in FY: 2021-22 & FY: 2022-23. | 20 | To be done | -- | 20 | To be done | -- | 40 |


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|--|----------------|---|---|---------------|------------|-------------|-------------|------------|-------------|---------------|
| 2 | Drinking Water | Drinking water tanker will be supplied to all nearby village as and when required. Already 2 Nos. of tankers are deputed for supplying of drinking water. | Rs. 5.0 Lakh per annum is allotted for drinking water supply. | 5 | Completed | 4 | 5 | To be done | 5 | 15 |
| 3 | Education | Women Skill Development activities should be continued. | Provision of Rs. 4.0 Lakh per year has been taken for women skill development program. | 4 | Completed | 4 | 4 | To be done | 4 | 12 |
| | | Free Coaching classes of students of rural areas at nearby villages | Provision of Rs. 2.0 Lakh per year for free Coaching of students of Rural areas at nearby villages has been considered. | 2 | Completed | 4 | 2 | To be done | 2 | 6 |
| | | Provision of RSCIT course. | Provision has been taken of Rs. 4.0 Lakh for RSCIT course in year 2021-22. | 4 | To be done | -- | -- | -- | | 4 |
| 4 | Environment | Sanitation & fogging work in entire as nearby Villages for Health awareness. | Provision of Rs. 2.0 Lakh per year has been taken. | 2 | Completed | 3 | 2 | To be done | 2 | 6 |
| Total CSR Expenditure (In Lakh) | | | | 111.85 | -- | 57.5 | 73.5 | -- | 28.5 | 213.85 |

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| 5. | Water Quality Monitoring And Preservation. | PP shall make attempts to reduce withdrawal of ground water. Explore the possibility of supplying water to the community from the pit water and pipeline supply should be supported by solar pump. The air quality monitoring, water quality monitoring noise & vibration will be continued with more focus on impacts near the lease boundary. | Complied | <ul style="list-style-type: none"> Yearly water audit is being carried out by CGWA approved agency and recommendation on ground water withdrawal are being followed. To utilize the mine pit water for domestic purpose, we have installed filtration plant which will help us to reduce GW consumption. Online CAAQMS has been installed as well as manual monitoring is being carried out by NABL recognized lab on periodical basis. |
| 6. | Miscellaneous | Installation of solar pumps for withdrawal of water collected in the mine pit. | Complied | Agreed & noted. |
| B. | STANDARD CONDITIONS: | | | |
| I. | Statutory Compliance | | | |
| 1. | Statutory Compliance | This environmental clearance (EC) is subject to orders/judgement of Hon'ble Supreme court of India, Hon'ble High court, Hon'ble NGT and any other court of Law, common cause conditions as may be applicable. | Complied | Noted |
| 2. | Statutory Compliance | The project proponent complies with all statutory requirements and judgement of Hon'ble Supreme court dated 2nd August, 2017 in Writ petition (Civil) no-114 of 2014 in matter of common cause versus Union of India & Ors before commencing the mining operations. | Complied | Certificate issued by Mining Department regarding the "No Dues" of compensation levied and letter submitted along with EC compliance report on 25.05.2022. |

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| 3. | Statutory Compliance | The state government concerned shall ensure that mining operation shall not be commenced till the entire compensation levied, if any, for illegal mining paid by the project proponent through their respective department of mining & geology in strict compliance of Judgement of Hon'ble Supreme court dated 2 nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of common cause versus Union of India & Ors. | Complied | Certificate issued by Mining Department regarding the "No Dues "of compensation levied and letter submitted along with EC compliance report on 25.05.2022. |
| 4. | Statutory Compliance | This Environmental Clearance shall become operational only after formal NBWL Clearance from MoEF&CC , subsequent to the recommendations of the standing committee of National board for wildlife, if applicable to the project. | Complied | Not applicable. |
| 5. | Statutory Compliance | This environmental clearance shall become operational only after receiving formal forest clearance (FC) under the provision of Forest Conservation Act, 1980, if applicable to the project. | Complied | Not applicable. |
| 6. | Statutory Compliance | PROJECT PROPONENT (PP) shall obtain consent to operate after grant of EC and effectively implement all the conditions stipulated therein. The mining activity shall not commence prior to obtaining consent to establish/consent to operate from the concerned State pollution control board/ committee. | Complied | Consent to operate has been obtain from RSPCB Jaipur vide letter No.: F(Mines)/Chittorgarh(Nimbahera)/1869(1)/2017-2018 /6610-6614, dated 15/02/2022: valid up to 31/05/2027. |
| 7. | Statutory Compliance | The PP shall adhere to the provision of the mines Act, 1952, Mines and mineral (Development & Regulation), Act, 2015 and rules & regulations made there under. PP shall adhere to various circulars issued by Directorate General Mines Safety (DGMS) and Indian Bureau of Mines from time to time. | Complied | Agreed and complied. |
| 8. | Statutory Compliance | The project proponent shall obtain consents from all the concerned land owners, before start of mining operations, as per the provisions of MMDR Act, 1957 and rules made there under in respect of lands which are not owned by it. | Complied | Agreed, land owners have no any concern. |
| 9. | Statutory Compliance | The project proponent shall follow the mitigation measures provided in MoEF&CC Office Memorandum No. Z-11013/57/2014-IA.II(M), dated 29 th October, | Complied | Unit has taken the following measures to reduces the impact of mining activities on habitations: - • Garland drain constructed, |

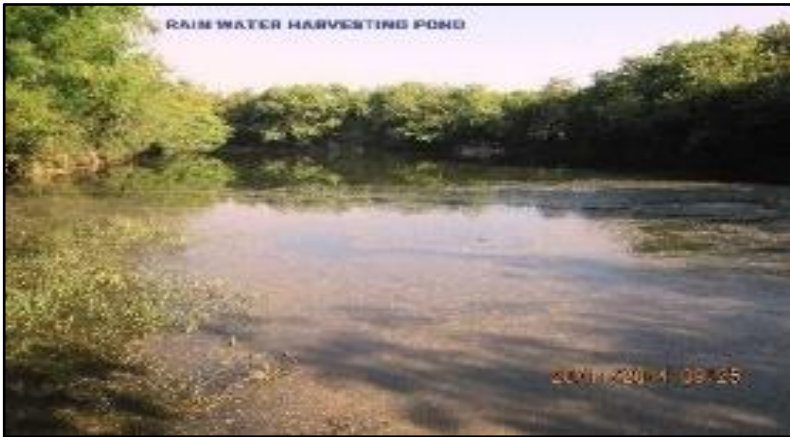

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| | | 2014, titled "Impact of mining activities on Habitation-issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area" | | <ul style="list-style-type: none"> • Siltation pond facilitated, • Regular water spray on haul road is being done, • Rain water collected in mine pit and as per requirement of villagers, water is being supplied to nearby villagers during the lean period, • Mask light are being kept in off mode during night period, • Control blasting has been implemented, • Company own road used for limestone transportation, and • Carried out dense plantation. |
| 10. | Statutory Compliance | The project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water and from CGWA for withdrawal of ground water for the project. | Complied | NOC has been obtained for withdrawal of ground water from CGWA vide letter No CGWA/NOC/IND/REN/3/2021/6476 dated. 14/05/2020, valid up to 13/05/2022. Applied for NOC Renewal on 29/04/2022 and GCWB Officials site verification visit was conducted on 25.08.2022, awaiting for NOC renewal. |
| 11. | Statutory Compliance | A copy of EC letter will be marked to the concerned Panchayat/Local NGO etc. if any, from whom suggestion/representation has been received while processing the proposal. | Complied | A copy of EC has been submitted at concern panchayat, Zila Parishad, DIC Office, District Collector, SDM Office on 08/07/2021. |
| 12. | Statutory Compliance | State pollution control board/committee shall be responsible for display of this EC letter at its Regional Office, District Industries Centre and Collector's Office/Tehsildar's Office for 30 days. | Complied | RSPCB displayed the EC letter at its Regional Office, District Industries Centre and Collector's Office/Tehsildar's Office for 30 days. |
| 13. | Statutory Compliance | The project authorities should widely advertise about this EC letter by printing the same in at least two local newspapers, one of which shall be in vernacular language of the concerned area. The advertisement shall be done within 7 days of the issue of the clearance letter mentioning that instant project has been accorded EC and copy of the EC letter is available with the State Pollution control board/committee and web site of the ministry of environment, forest and climate change (www.parivesh.nic.in). A copy of the advertisement may be forwarded to the concerned MoEF&CC Regional office for compliance and record. | Complied | EC granted information published in two local newspapers i.e.: Dainik Bhasker and Rajasthan Patrika on 09/07/2021 and proof of the same has been submitted along with last six monthly EC compliance report. |

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

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

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|----|--|--|----------|---|
| | | the pre-mining period. in case of any water scarcity in the area, the project proponent has to provide water to the villagers for their use. A provision for regular monitoring of water table in open dug wall located in village should be incorporated to ascertain the impact of mining over ground water table. The report on changes in ground water level and quality shall be submitted on six-monthly basis to the regional office of the ministry, CGWA and State groundwater department / State pollution control board. | | <ul style="list-style-type: none"> • To monitor the water level, one online water level recorder with telemetry has been installed and real time data is linked shared with CGWA. • Ground water level and quality report submitted on six-monthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department / State Pollution Control Board. |
| 3. | Water Quality Monitoring And Preservation. | Project proponent shall regularly monitor and maintain records w.r.t. ground water level and quality in and around the mine lease by establishing a network of existing wells as well as new piezo-meter installations during the mining operations in consultation with central ground water Authority/ State Ground water Department, The report on changes in ground water level and quality shall be submitted on six-monthly basis to the regional office of the Ministry , CGWA and State Groundwater Department / State pollution control Board. | Complied | <ul style="list-style-type: none"> • Regular monitoring of ground water level and quality is being carried out in and around the mining lease area as per the Environment Management Plan of approved Mining plan by establishing a network of existing wells. • Unit has installed one no. of piezometer fitted DWLR (Digital Water Level Recorder) with telemetry system for online monitoring of ground water level. • Detail ground water level monitoring report for the period: Apr-22 to Sept-22 is enclosed as <u>Annexure-3</u>. |
| 4. | Water Quality Monitoring And Preservation. | The project proponent shall undertake regular monitoring of natural water course/water resources/springs and perennial nallahs existing/ flowing in and around the mine lease and maintain its records. the project proponent shall undertake regular monitor of water quality upstream and downstream of water bodies passing within and nearby/adjacent to the mine lease and maintain its records. Sufficient number of gullies shall be provided at appropriate places within the lease for management of water. PP shall carryout monitoring w.r.t. pH and included and same in the monitoring plan. The parameters to be monitored shall include their water quality vis-a-vis suitability for usage as per CPCB criteria and flow rate. it shall be ensured that no obstruction and/or alteration be made to water bodies during mining operations without justification and prior approval of MoEF&CC. The monitoring of water courses/ bodies | Complied | <ul style="list-style-type: none"> • Unit is monitoring the ground water quality on quarterly basis i.e.: Pre-monsoon (April-May), Monsoon (August), Post-monsoon (November) and Winter (January) by deploying NABL accredited Laboratory. • Detail ground water quality analysis report for the period: Apri-22 to Sept-22 {Pre- monsoon (April-May) and Monsoon (August)} are enclosed as <u>Annexure-4</u>. |


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| | | existing in lease area shall be carried out four times in a year viz. pre-monsoon (April-May). Monsoon (August), post-monsoon(November) and winter (January) and the record of monitored data may be sent regularly to ministry of environment, forest and climate change and its regional office, Central Ground Water Authority and Regional Director, Central Ground Water Board, State pollution Control Board and Central Pollution Control Board. Clearly showing the trend analysis on six-monthly basis. | | |
| 5. | Water Quality Monitoring And Preservation. | Quality of polluted water generated from mining operation which include chemical oxygen demand (COD) in mines run-off, acid mine drainage and metal contamination in runoff shall be monitored along with Total Suspended Solids(TDS), Dissolved Oxygen(DO), pH and Total Suspended Solids(TSS). The monitored data shall be uploaded on the website of the company as well as displayed at the project site in public domain, on a display board at a suitable location near the main gate of the company. The circular No. J-20012/1/2006-IA.II(M) dated 27.5.2009 issued by ministry of environment forest and climate change may also be referred in this regard. | Complied | <ul style="list-style-type: none"> • There is no waste generation from the Limestone mining operation. • However, water is used for washing of HEMM contains silt and traces of oil & grease which is passed through up-flow filter to separate out the oil & grease and clear water will be used for dust suppression. • Mine Key parameter data has been uploaded at www.jkcement.com/environmental-compliance as per notification as well as displayed at mine office. |
| 6. | Water Quality Monitoring And Preservation. | Project proponent shall plan, develop and implement rainwater harvesting measures on long term basis to augment ground water resources in the area in consultation with Central Ground Water Board/State Groundwater Department. A report on amount of water recharged needs to be submitted to Regional office MoEF&CC annually. | Complied | <ul style="list-style-type: none"> • To augment the water resources, rain water harvesting is done and stored in lower most benches (Water reservoir). • Surface water during rainy season is collected in the lower bench of the mine to augment ground water resources. |


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| 7. | Water Quality Monitoring And Preservation. | Industrial waste water (workshop and waste water from the mine) should be properly collected and treated so as to conform to the notified standards prescribed from time to time. The standards shall be prescribed through consent to operate (CTO) issued by concerned State pollution control Board (SPCB). The workshop effluent shall be treated after its initial passage through oil and grease trap. | Complied | <ul style="list-style-type: none">Workshop waste water monitoring has been carried out by NABL accredited laboratory.Detail workshop waste water analysis report for the period: Apr-22 to Sept-22 is enclosed as Annexure-5. |
| 8. | Water Quality Monitoring And Preservation. | The water balance/water auditing shall be carried out and measure for reducing the consumption of water shall be taken up and reported to the Regional office of the MoEF & CC and State pollution Control Board /Committee. | Complied | Annual Water Audit conducted by the NPC and measures has been taken to reduce the water consumption as per the recommendations. Annual water audit report submitted on 25/05/2022. |
| IV. | Noise And Vibration Monitoring And Prevention | | | |
| 1. | Noise And Vibration Monitoring And Prevention | The peak particle velocity at 500m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines. | Complied | <ul style="list-style-type: none">Blasting operation is being carried out in day time only. Use of Sequential blasting machine (SBM), Delay detonator, Non-Electric detonator for blasting and to mitigate vibration. Water injection system on DTH drill has been provided which suppresses dust at its source of generation.Max Peak partial velocity was observed is 3.27 mm/sec for the period: Apr-22 to Sept-22, Detail PPV/vibration report is enclosed as Annexure-6. |
| 2. | Noise And Vibration | The illumination and sound at night at project sites disturb the villages in respect of both human and | Complied | <ul style="list-style-type: none">There is no mining operation during night time, hence no possibility of increase the noise level. |

| | Monitoring And Prevention | animal population. Consequent and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise level at night. PPs must ensure that the biological clock of the villages is not disturbed, by orienting the floodlights/masks away from the villagers and keeping the noise levels well within the prescribed limits for day/night hours. | | <ul style="list-style-type: none">There is no mining operation at night time hence, Mask/Flood Lights are kept on off mode.Detail ambient noise level monitoring report for the period: Apr-22 to Sept-22 is enclosed as <u>Annexure-7</u>. | | | | | | | | | | | | |
|---|---|--|----------|--|---|--|--|--|-----------|---------------------------|--------------|----------|-----------|-----|-----|-----|
| 3. | Noise And Vibration Monitoring And Prevention | The project proponent shall take measures for control of noise levels below 85dBA in the work environment. The workers engaged in operations of HEMM etc. should be provided with ear plugs/ muffs. All personnel including laborers working in dusty areas shall be provided with protective respiratory devices along with adequate training awareness and information on safety and health aspects. The PP shall be held responsible in case it has been found that workers/ personals/ laborers are working without personal protective equipment. | Complied | <ul style="list-style-type: none">Regular maintenance (including cabin) of HEMM are being done to keep noise level well within the specified limits.Workers engaged in operation of HEMM etc. are provided ear plugs.Onsite tool box talk is being conducted on daily basis and imparted the periodical training for all employee and workmen. | | | | | | | | | | | | |
| V.. | Mining Plan | | | | | | | | | | | | | | | |
| 1. | Mining Plan | The project proponent shall adhere to the working of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation i.e.: quantum of mineral waste, over burden, inter burden and top soil No change in basic mining proposal like mining technology. total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, overburden & dump management, O.B. & dump mining, mineral transportation mode, ultimate depth of mining etc.) shall not be carried out without prior approval of the ministry of Environments, forest and climate change, which entail adverse environmental impacts , even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form to short term permit (STP), query license or any other name. | Complied | <ul style="list-style-type: none">Method of mining is opencast, fully mechanized using wet drilling and control blasting. All mining activities are being carried out as per approved mining plan.Detail of excavation carried out during the period: Apr-22 to Sept-22: -<table border="1"><tr><th colspan="4">Detail of Total Excavation (MT) for the period: Apr-22 to Sept-22</th></tr><tr><th>Limestone</th><th>Sub-grade /Mineral Reject</th><th>Inter-burden</th><th>Top Soil</th></tr><tr><td>262985.35</td><td>NIL</td><td>NIL</td><td>NIL</td></tr></table> | Detail of Total Excavation (MT) for the period: Apr-22 to Sept-22 | | | | Limestone | Sub-grade /Mineral Reject | Inter-burden | Top Soil | 262985.35 | NIL | NIL | NIL |
| Detail of Total Excavation (MT) for the period: Apr-22 to Sept-22 | | | | | | | | | | | | | | | | |
| Limestone | Sub-grade /Mineral Reject | Inter-burden | Top Soil | | | | | | | | | | | | | |
| 262985.35 | NIL | NIL | NIL | | | | | | | | | | | | | |

| 2. | Mining Plan | The project proponent shall get the final mine closure plan along with financial assurance approved from Indian bureau of mines/ department of mining & geology as required under the provision of the MMDR Act,1957 and rules/ guidelines made there under. A copy of approved final mine closure plan shall be submitted within 2 months of the approval of the same from the competent authority to the concerned regional office of the ministry of environment, Forest and climate change for the record and verification. | Complied | The final mine closure plan will be submitted due course of time. | | | | | | | | | | | | |
|----------------------|------------------|---|----------|---|----------|--------|-------|--------|----------------|-----|-----|-----|----------|-----|-----|------|
| 3. | Mining Plan | The land use of the mine area at various stages of mining scheme as well as at the end-of-life shall be governed as per the approved mining plan. The excavation vis-à-vis backfilling in the mine lease area and corresponding afforestation to be raised in the reclaimed area shall be governed as per approved mining plan. PP shall ensure the monitoring and management of rehabilitated areas until the vegetation becomes self-sustaining. The compliance status shall be submitted half-yearly to the MoEF&CC and its concerned Regional office. | Complied | There is no back filling proposed under the approved mining plan. | | | | | | | | | | | | |
| VI. Land Reclamation | | | | | | | | | | | | | | | | |
| 1. | Land reclamation | The overburden (O.B.) generated during the mining operations shall be at earmarked OB dump site(s) only and it should not be kept active for a long period of time. The physical parameters of the OB dumps like height, width and angle of slope shall be governed as per the approved mining plan as per the guidelines/circulars issued by D.G.M.S. w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of top soil/OB dumps. The top soil shall be used for land reclamation and plantation. | Complied | Size in meters is given below: <table><tr><th>Material</th><th>Length</th><th>Width</th><th>Height</th></tr><tr><td>Mineral reject</td><td>156</td><td>105</td><td>8.8</td></tr><tr><td>OB waste</td><td>215</td><td>112</td><td>13.0</td></tr></table> | Material | Length | Width | Height | Mineral reject | 156 | 105 | 8.8 | OB waste | 215 | 112 | 13.0 |
| Material | Length | Width | Height | | | | | | | | | | | | | |
| Mineral reject | 156 | 105 | 8.8 | | | | | | | | | | | | | |
| OB waste | 215 | 112 | 13.0 | | | | | | | | | | | | | |
| 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 | Complied | OB and subgrade generated are stacked separately. | | | | | | | | | | | | |

| | | mining operations shall be strictly adhered to maintain the stability of waste dumps. | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|------------------|--|-----------|--|---------------|--------|-----------|--------|--------------------------------------|-----|--|-----|----------|------------|-----------|-----------|---------------|---|----|----|---|-----|---|----|----|---|-----|
| 3. | Land reclamation | The reclamation of waste dump sites shall be done in scientific manner as per the approved mining plan cum progressive mine closure plan. | Complied | Presently dump are active, there is no reclamation is going on. | | | | | | | | | | | | | | | | | | | | | | | |
| 4. | Land reclamation | The slope of dumps shall be vegetated in scientific manner with suitable native species to maintain the slope, prevent erosion and surface run off. The selection of local species regulates local climatic parameters and help in adaptation of plan species to the microclimate. The gullies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps. The dump mass should be consolidated with the help of dozer/ compactors thereby ensuring proper filling/ levelling of dump mass. In critical areas use of geo textiles/geo-membranes/clay liners/ Bentonite etc. shall be undertaken for stabilization of the dump. | Complied | Presently OB dumps are active, vegetation will be done after the dump are inactive or dead. | | | | | | | | | | | | | | | | | | | | | | | |
| 5. | Land reclamation | The project proponent shall carry out slope stability in case the dump height is more than 30 meters. The slope stability report shall be submitted to concerned regional office of MOEF&CC. | Complied | <div>Size in meters is given below:</div> <table><tr><th>Material</th><th>Length</th><th>Width</th><th>Height</th></tr><tr><td>Mineral reject</td><td>156</td><td>105</td><td>8.8</td></tr><tr><td>OB waste</td><td>215</td><td>112</td><td>13.0</td></tr></table> | Material | Length | Width | Height | Mineral reject | 156 | 105 | 8.8 | OB waste | 215 | 112 | 13.0 | | | | | | | | | | | |
| Material | Length | Width | Height | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineral reject | 156 | 105 | 8.8 | | | | | | | | | | | | | | | | | | | | | | | | |
| OB waste | 215 | 112 | 13.0 | | | | | | | | | | | | | | | | | | | | | | | | |
| 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>Constructed garland drains and siltation ponds. To collect run off water from subgrade dump and waste dump, garland drain and siltation pit has been constructed. Details are given below: -</div> <table><tr><th colspan="2">Garland Drain</th><th colspan="2">Dimension</th></tr><tr><td colspan="2">East side of Subgrade and waste dump</td><td colspan="2">Length - 430 m Width - 1.0m Depth - 1.0m</td></tr></table> <div>Constructed one 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>17</td><td>17</td><td>3</td><td>867</td></tr><tr><td>2</td><td>18</td><td>17</td><td>3</td><td>918</td></tr></table> | Garland Drain | | Dimension | | East side of Subgrade and waste dump | | Length - 430 m Width - 1.0m Depth - 1.0m | | S. No. | Length (m) | Width (m) | Depth (m) | Capacity (m3) | 1 | 17 | 17 | 3 | 867 | 2 | 18 | 17 | 3 | 918 |
| Garland Drain | | Dimension | | | | | | | | | | | | | | | | | | | | | | | | | |
| East side of Subgrade and waste dump | | Length - 430 m Width - 1.0m Depth - 1.0m | | | | | | | | | | | | | | | | | | | | | | | | | |
| S. No. | Length (m) | Width (m) | Depth (m) | Capacity (m3) | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 17 | 17 | 3 | 867 | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 18 | 17 | 3 | 918 | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | <table><tr><td>Total</td><td>1785</td></tr></table> <p>The storm water is being collected through garland drain from periphery of the subgrade and the waste dump and routed to siltation pond.</p>  | Total | 1785 | | |
|--------------------------------------|--|--|----------|---|---------------|-----------|--------------------------------------|--|
| Total | 1785 | | | | | | | |
| 7. | Land reclamation | Check dams of appropriate size, gradient and length shall be constructed around mine pit and OB dumps to prevent storm run-off and sediment flow into adjoining water bodies. A safety margin of 50% shall be kept for designing of sump structures over and above peak rainfall (based on 50 years' data) and maximum discharge in the mine and its adjoining area which shall also help in providing adequate retention time period thereby allowing proper settling of sediments/silt material. The sedimentation pits/sumps shall be constructed at the corners of the garland drains. | Complied | <ul style="list-style-type: none">Constructed garland drains and siltation ponds.To collect run off water from subgrade dump and waste dump, garland drain and siltation pit has been constructed. Details are given below:<table><tr><th>Garland drain</th><th>Dimension</th></tr><tr><td>East side of Subgrade and waste dump</td><td>Length - 430 m Width - 1.0 m Depth - 1.0 m</td></tr></table>Total available rainwater in single day (considering maximum 50 mm rainfall)<ol style="list-style-type: none">Overburden waste dump (area) X rainfall (m) X Runoff coefficient (20%): 26140 m² X 0.05 m X 0.20 = 261.4 m³ and considering 50% safety margin then total capacity of siltation pond should be 522.8 m³.Subgrade stack (area) X rainfall (m) X Runoff coefficient (20%): 24330 m² X 0.05 m X 0.20 = 243.3 m³ and considering 50% safety margin then total capacity of siltation pond should be 486.6 m³.Embankment dump (area) X rainfall (m) X Runoff coefficient (20%): 37140 m² X 0.05 m X 0.20 = 371.4 m³ and considering 50% safety margin then total capacity of siltation pond should be 742.8 m³. | Garland drain | Dimension | East side of Subgrade and waste dump | Length - 430 m Width - 1.0 m Depth - 1.0 m |
| Garland drain | Dimension | | | | | | | |
| East side of Subgrade and waste dump | Length - 430 m Width - 1.0 m Depth - 1.0 m | | | | | | | |
| 8. | Land reclamation | The top soil, if any, shall temporarily be stored at earmarked sites(s) within the mine lease only and should not be kept unutilized for long. The physical parameters of the top soil dumps like height, width | Complied | There is no storage of top soil, it is directly used for plantation purpose. | | | | |

| | | and angle of slope shall be governed as per the approved mining plan and as per the guidelines framed by D.G.M.S w.r.t. safety in mining operations shall be strictly adhered the stability of dumps. The top soil shall be used for land reclamation and plantation purpose. | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|----------------|---|------------|---|-----|-------------|----------|----------|---|------------|-----------------|------------|---|------------|-----------------|------------|---|------------|-----------------|------------|---|------------|-----------------|------------|---|------------|-----------------|------------|---|------------|-----------------|------------|---|------------|-----------------|------------|
| VII. Transportation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. | Transportation | No transportation of the minerals shall be allowed in case of roads passing through villages/ habitations. In such cases, PP shall construct a 'bypass' road for the purpose of transportation of the minerals leaving an adequate gap (say at least 200 meters) so that the adverse impact of sound and dust along with chances of accidents could be mitigated. All costs resulting from widening and strengthening of existing public road network shall be borne by the PP in consultation with nodal State Govt. Department. Transportation of minerals through road movement in case of existing village/ rural roads shall be allowed in consultation with nodal state Govt. department only after required strengthening such that the carrying capacity of roads is increased to handle the traffic load. The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly Vehicular emissions shall be kept under control and regularly monitored. Project should obtain Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centres. | Complied | <ul style="list-style-type: none">Company has own dedicated CC road for mineral transportation.Periodical vehicle emission monitoring is being carried out and PUC test carried out during the period: Apr-22 to Sept-22 is enclosed in below table: <table><tr><th>S N</th><th>Vehicle No.</th><th>PUCC No.</th><th>Validity</th></tr><tr><td>1</td><td>RJ09GC0328</td><td>D1007RJ03105601</td><td>03-12-2022</td></tr><tr><td>2</td><td>RJ09GC1128</td><td>D1007RJ03105626</td><td>04-12-2022</td></tr><tr><td>3</td><td>RJ09GC1228</td><td>D1007RJ03105606</td><td>03-06-2023</td></tr><tr><td>4</td><td>RJ09GC1328</td><td>D1007RJ03105645</td><td>04-12-2022</td></tr><tr><td>5</td><td>RJ09GC1428</td><td>D1007RJ03105628</td><td>04-12-2022</td></tr><tr><td>6</td><td>RJ09GC2328</td><td>D1007RJ03105627</td><td>04-12-2022</td></tr><tr><td>7</td><td>RJ09GC2528</td><td>D1007RJ03105638</td><td>04-12-2022</td></tr></table> | S N | Vehicle No. | PUCC No. | Validity | 1 | RJ09GC0328 | D1007RJ03105601 | 03-12-2022 | 2 | RJ09GC1128 | D1007RJ03105626 | 04-12-2022 | 3 | RJ09GC1228 | D1007RJ03105606 | 03-06-2023 | 4 | RJ09GC1328 | D1007RJ03105645 | 04-12-2022 | 5 | RJ09GC1428 | D1007RJ03105628 | 04-12-2022 | 6 | RJ09GC2328 | D1007RJ03105627 | 04-12-2022 | 7 | RJ09GC2528 | D1007RJ03105638 | 04-12-2022 |
| S N | Vehicle No. | PUCC No. | Validity | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | RJ09GC0328 | D1007RJ03105601 | 03-12-2022 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | RJ09GC1128 | D1007RJ03105626 | 04-12-2022 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | RJ09GC1228 | D1007RJ03105606 | 03-06-2023 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | RJ09GC1328 | D1007RJ03105645 | 04-12-2022 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | RJ09GC1428 | D1007RJ03105628 | 04-12-2022 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | RJ09GC2328 | D1007RJ03105627 | 04-12-2022 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | RJ09GC2528 | D1007RJ03105638 | 04-12-2022 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | Complied | Water spray are being done through water tanker on haul road. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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|-------------------------|------------|--|----------|--|
| | | points. Material yards etc. should invariably be provide with dust suppression arrangements. The air pollution control equipment's like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at crusher, belt –conveyors and other areas prone to air pollution the belt conveyor should be fully covered to avoid generation of dust while transportation. PP shall take necessary measures to avoid generation of fugitive dust emissions. | | |
| VIII. Green Belt | | | | |
| 1. | Green Belt | The project proponent shall develop greenbelt in 7.5m wide safety zone all along the mine lease boundary as per the guidelines of CPCB in order to arrest pollution emanating from mining operations within the lease. The whole Green belt shall be developed within first 5 years starting from windward side of the active mining area. The development of greenbelt shall be governed as per the EC granted by the Ministry irrespective of the stipulation made in approved mine plan. | Complied | <ul style="list-style-type: none"> • Total plantation within lease in 50.5 ha. with 121868 saplings till FY 2021-22 including safety zone (7.651 ha.). • Total plantation done in 16.45 ha in outside the lease area with 31765 nos. of saplings till FY 2021-22. • Total plantation done in FY 2022-23 till Sept in safety zone (7.5 m) of 0.30 ha. with 1301 saplings. • Total plantation done in FY 2022-23 till Sept within lease in 3.03 ha. with 17358 nos. saplings including gap plantation. |
| 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 backfilled, pit shall be used for water storage at conceptual stage. |
| 3. | Green Belt | The project proponent shall make necessary alternative arrangements for livestock feed be developing grazing land with a view to compensate those areas which are coming within the mine lease rea. The development of such grazing land shall be | Complied | Grazing land has been developed within plantation area. |

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|------------|---|--|----------|---|
| | | 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. | | |
| 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 | Combined WLCP has been prepared for 5 Nos. of captive Limestone Mines and 2 Nos. of Integrated Cement Plant of J K Cement Ltd are situated within 10 Km radius in Tehsil Nimbahera, Chittorgarh District. Wildlife Conservation Plan (WCP) has been prepared for 6 Schedule-I Species found in the buffer area during the survey i.e.: - 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) Wildlife conservation plan has been forwarded by the DFO - Chittorgarh to Divisional Chief Conservator of Forest vide letter No.: F(5) Survey/UVS/2021-22/4089 dated 13.07.2021 and accordingly 20% amount of Rs. 57.07 Lakh deposited to DFO - Chittorgarh against the total amount of WCP of Rs. 285.30/- Cr in July-2021. |
| 5. | Green Belt | And implemented in consultation with the state Forest and Wildlife Department. A copy of wildlife conservation Plan and its implementation status (annual) shall be submitted to the Regional Office of the Ministry. | Complied | Wildlife conservation plan will be implemented at site after final approval of WLCP and status will be send to your good office. |
| IX. | Public Hearing And Human Health Issues | | | |
| 1. | Public Hearing And Human Health Issues | The Project Proponent shall appoint an Occupational Health Specialist for Regular as well as Periodical medical examination of the workers engaged in the mining activities, as per the DGMS guidelines. The records shall be maintained properly. PP shall also | Complied | Periodic medical check-up of workers are being carried out on regular basis. Detail of medical check-up carried out during the period: Apr-22 to Sept-22 is given in below table: - |

| | | 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. | | <table><tr><th>Particular</th><th>Medical Exam. Carried out (in Nos.)</th></tr><tr><td>Persons examined</td><td>12</td></tr><tr><td>Initial Medical Examination</td><td>2</td></tr><tr><td>Periodical Medical Examination</td><td>10</td></tr><tr><td>Disease observed</td><td>NIL</td></tr></table> | Particular | Medical Exam. Carried out (in Nos.) | Persons examined | 12 | Initial Medical Examination | 2 | Periodical Medical Examination | 10 | Disease observed | NIL |
|--------------------------------|--|---|----------|--|------------|-------------------------------------|------------------|----|-----------------------------|---|--------------------------------|----|------------------|-----|
| Particular | Medical Exam. Carried out (in Nos.) | | | | | | | | | | | | | |
| Persons examined | 12 | | | | | | | | | | | | | |
| Initial Medical Examination | 2 | | | | | | | | | | | | | |
| Periodical Medical Examination | 10 | | | | | | | | | | | | | |
| Disease observed | NIL | | | | | | | | | | | | | |
| 2. | Public Hearing And Human Health Issues | The Project Proponent must demonstrate commitment to work towards 'Zero Harm' from their mining activities and carry out Health Risk Assessment (HRA) for identification workplace hazards and assess their potential risks to health and determine appropriate control measures to protect the health and wellbeing of workers and nearby community. The proponent shall maintain accurate and systematic records of the I-IRA. The I-IRA for neighbourhood has to focus on Public Health Problems like Malaria, Tuberculosis, HIV, Anaemia, Diarrhoea in children under five, respiratory infections due to bio mass cooking. The proponent shall also create awareness and educate the nearby community and workers for Sanitation, Personal Hygiene, Hand washing, not to defecate in open, Women Health and Hygiene (Providing Sanitary Napkins), hazard of tobacco and alcohol use. The Proponent shall carryout base line I-IRA for all the category of workers and thereafter every five years. | Complied | <ul style="list-style-type: none">• Company has implemented “Zero Harm Goal Policy” and periodically identified the hazards & preventive action are being taken.• Best practices have been implemented to maintain vibration, fly rocks, dust emission, noise level and all parameters well within the limit.• Mobile medical check-up camps are being organized to all nearby villages for treatment and medicine free of cost. | | | | | | | | | | |
| 3. | Public Hearing And Human Health Issues | The Proponent shall carry out Occupational health surveillance which be a part of HRA and include Biological Monitoring where practical and feasible, and the tests and investigations relevant to the exposure (e.g. for Dust a X-Ray chest; For Noise Audiometric; for Lead Exposure Blood Lead, For Welders Full Ophthalmologic Assessment; for Manganese Miners a complete Neurological Assessment by a Certified Neurologist, and Manganese (Mn), Estimation in Blood; For Inorganic Chromium, Fortnightly skin inspection of hands and | Complied | Pre-employment medical check-up are being carried out considering the parameter as per DGMS. | | | | | | | | | | |

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|----|--|---|----------|------------------------------|
| | | <p>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&CC annually along with details of the relief and compensation paid to workers having above indications.</p> | Complied | Record are being maintained. |

| | | | | |
|-----------|---|--|----------|---|
| 5. | Public Hearing And Human Health Issues | The Project Proponent shall ensure that Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. | Complied | PPEs have been provided and used by the persons engaged in drilling, dozing and loading. VT is being provided as under required VT Rules. |
| 6. | Public Hearing And Human Health Issues | Project Proponent shall make provision for the housing for workers/labors or shall construct labor camps within/outside (company owned land) with necessary basic infrastructure/ facilities like fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche for kids etc. The housing may be provided in the form of temporary structures which can be removed after the completion of the project related infrastructure. The domestic waste water should be treated with STP in order to avoid contamination of underground water. | Complied | <ul style="list-style-type: none"> • All workman and employees are residing in colony situated at Nimbahera Cement Plant where all basic facilities are available. • There is no temporary structure/hutment has been constructed in mining area. |
| 7. | Public Hearing And Human Health Issues | The activities proposed in Action plan prepared for addressing the issues raised during the Public Hearing shall be completed as per the budgetary provisions mentioned in the Action Plan and within the stipulated time frame. The Status Report on implementation of Action Plan shall be submitted to the concerned Regional Office of the Ministry along with District Administration. | Complied | For details reply, kindly refer above Specific Condition No.: 4. |
| X. | Corporate Environment Responsibility | | | |
| 1. | Corporate Environment Responsibility | The activities and budget earmarked for Corporate Environmental Responsibility (CER) as per Ministry's M No 22-65/2017-IA.II(M) dated 01.05.2018 or as proposed by EAC should be kept in a separate bank account. The activities proposed for CER shall be implemented in a time bound manner and annual report of implementation of the same along with documentary proof viz. photographs, purchase documents, latitude & longitude of infrastructure developed & road constructed needs to be submitted to Regional Office MoEF&CC annually along with audited statement. | Complied | Kindly refer the point no. 4. |

| | | | | |
|--------------------------|--------------------------------------|---|----------|---|
| 2. | Corporate Environment Responsibility | Project Proponent shall keep the funds earmarked for environmental protection measures in a separate account and refrain from diverting the same for other purposes. The year wise expenditure of such funds should be reported to the MoEF&CC and its concerned Regional Office. | Complied | Noted and being followed. |
| XI. Miscellaneous | | | | |
| 1. | Miscellaneous | The Project Proponent shall prepare digital map (land use & land cover) of the entire lease area once in five years purpose of monitoring land use pattern and submit a report to concerned Regional Office of the MoEF&CC. | Complied | Last digital map for land use cover report has been submitted on 02.03.2020 and for next period it will be submitted on due course of time. |
| 2. | Miscellaneous | The Project Authorities should inform to the Regional Office regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work. | Complied | Noted. |
| 3. | Miscellaneous | The Project Proponent shall submit six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards to the MOEF&CC & its concerned Regional Office, Central Pollution Control Board and State Pollution Control Board. | Complied | Last six monthly EC compliance report has been submitted on 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 has been established & has sufficient monitoring equipment in environmental laboratory. |
| 5. | Miscellaneous | The concerned Regional Office of the MoEF&CC shall randomly monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the MoEF&CC officer(s) by furnishing the requisite data / information / monitoring reports. | Complied | Agreed & Noted. |
| 6. | Miscellaneous | The Ministry or any other competent authority may alter/modify the above conditions or stipulate any | Complied | Agreed & Noted. |

| | | | | |
|-----|---------------|--|----------|-------------------|
| | | further condition in the interest of environment protection. | | |
| 7. | Miscellaneous | Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attracts action under the provisions of Environment (Protection) Act, 1986. | Complied | Noted. |
| 8. | Miscellaneous | The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/ High Court of Chhattisgarh and any other Court of Law relating to the subject matter. | Complied | Agreed & Noted. |
| 9. | Miscellaneous | Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010. | Complied | Noted and agreed. |
| 10. | Miscellaneous | This issues with the approval of competent Authority. | Complied | Noted and agreed |

Yours Sincerely,
For, Nimbahera-Ahirpura Limestone Mines,
J. K. Cement Works, Mangrol



(Authorized Signatory)



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

Report No. : **2087**

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 (Ahirpura mines M.L.No. 2/97, murliya block)** 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) $\mu\text{g}/\text{m}^3$ | 78 |
| 2 | PM 2.5 ug/m^3 | 36 |
| 3 | Sulphur Dioxide as SO2 ug/m^3 | 9.9 |
| 4 | NO2 ug/m^3 | 13.6 |

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. : **2088**

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 (Ahirpura mines M.L.No. 2/97 murliya block)** 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) $\mu\text{g}/\text{m}^3$ | 58 |
| 2 | PM 2.5 ug/m^3 | 26 |
| 3 | Sulphur Dioxide as SO2 ug/m^3 | 6.2 |
| 4 | NO2 ug/m^3 | 16.5 |

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.)



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RSPCB

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

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522400001736 | Date : | 05-07-2022 |
| Issued To : | M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement ,Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Ambient Air Quality Monitoring | Date of Sample Collection/Monitoring : | 23-06-2022 |
| Point of Collection : | Murlia Village | Date of Receipt : | 28-06-2022 |
| Date of Test/Analysis : | 28-06-2022 to 05-07-2022 | Sampling Plan : | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample : | - | Sample Collected By : | kishan murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per National Ambient Air Quality Standard, 2009 |
|------|---|----------------|--|---|
| 1 | Ammonia [microgram/m3] | BDL (<10.0) | IS 5182 (Part 25) : 2018 | 400.00 |
| 2 | Carbon Monoxide [microgram/m3] | 290 | TTH/AAQM/08 | 4000 |
| 3 | Lead [microgram/m3] | 0.11 | IS 5182 (Part 22) : 2004 Reaffirmed 2019 | 1.00 |
| 4 | Nitrogen Dioxide as NO2 [microgram/m3] | 12.4 | 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] | 26.21 | IS 5182 (Part 24) : 2019 | 60.00 |
| 7 | Sulphur Dioxide [microgram/m3] | 5.16 | IS 5182 (Part 2) : 2001 RA 2017 | 80.00 |
| 8 | Particulate Matter (PM 10) [microgram/m3] | 69.59 | 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] | 8.2 | IS 5182 : Part 26 : 2020 | 20.00 |

Notes :-

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Puran Mal Yogi

Rajesh Maheshwar



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

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | 400001736 | Date : | 05-07-2022 |
| Issued To : | M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement ,Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Ambient Air Quality Monitoring | Date of Sample Collection/Monitoring : | 23-06-2022 |
| Point of Collection : | Murlia Village | Date of Receipt : | 28-06-2022 |
| Date of Test/Analysis : | 28-06-2022 to 05-07-2022 | Sampling Plan : | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample : | - | Sample Collected By : | kishan murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per National Ambient Air Quality Standard, 2009 |
|------|----------------------------|----------------|----------------------------------|---|
| 1 | 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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Puran Mal Yogi
Senior Analyst

Rajesh Maneshwar
Authorized Signatory
(Report No: 400001736)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522400001737 | Date : | 05-07-2022 |
| Issued To : | M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement, Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Ambient Air Quality Monitoring | Date of Sample Collection/Monitoring : | 24-06-2022 |
| Point of Collection : | Ahirpura Village | Date of Receipt : | 28-06-2022 |
| Date of Test/Analysis : | 28-06-2022 to 05-07-2022 | Sampling Plan : | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample : | - | Sample Collected By : | kishan murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per National Ambient Air Quality Standard, 2009 |
|------|---|----------------|--|---|
| 1 | 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] | 0.12 | IS 5182 (Part 22) : 2004 Reaffirmed 2019 | 1.00 |
| 4 | Nitrogen Dioxide as NO2 [microgram/m3] | 12.48 | 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] | 32.82 | IS 5182 (Part 24) : 2019 | 60.00 |
| 7 | Sulphur Dioxide [microgram/m3] | 3.91 | IS 5182 (Part 2) : 2001 RA 2017 | 80.00 |
| 8 | Particulate Matter (PM 10) [microgram/m3] | 65.41 | 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] | 9.9 | IS 5182 : Part 26 : 2020 | 20.00 |

Notes :-

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Puran Mal Yogi

Rajesh Maheshwari



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Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | 400001737 | Date : | 05-07-2022 |
| Issued To : | M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement ,Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Ambient Air Quality Monitoring | Date of Sample Collection/Monitoring : | 24-06-2022 |
| Point of Collection : | Ahirpura Village | Date of Receipt : | 28-06-2022 |
| Date of Test/Analysis : | 28-06-2022 to 05-07-2022 | Sampling Plan : | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample : | - | Sample Collected By : | kishan murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per National Ambient Air Quality Standard, 2009 |
|------|----------------------------|----------------|----------------------------------|---|
| 1 | 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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Purni Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 400001737)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522400002317 | Date : | 24-08-2022 |
| Issued To : | M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement ,Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Ambient Air Quality Monitoring | Date of Sample Collection/Monitoring : | 01-08-2022 |
| Point of Collection : | Near Water Pump house Ahirpura Block | Date of Receipt : | 08-08-2022 |
| Date of Test/Analysis : | 08-08-2022 to 19-08-2022 | 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] | 230 | TTH/AAQM/08 | 4000 |
| 2 | Nitrogen Dioxide as NO2 [microgram/m3] | 12.47 | IS 5182 (Part 6) : 2006 Reaffirmed 2017 | 80.00 |
| 3 | Particulate Matter (PM2.5) [microgram/m3] | 20.39 | IS 5182 (Part 24) : 2019 | 60.00 |
| 4 | Sulphur Dioxide [microgram/m3] | 3.34 | IS 5182 (Part 2) : 2001 RA 2017 | 80.00 |
| 5 | Particulate Matter (PM 10) [microgram/m3] | 48.27 | 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: TC502522400002317)



TEAM TEST HOUSE

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



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

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522400002318 | Date : | 24-08-2022 |
| Issued To : | M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement ,Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Ambient Air Quality Monitoring | Date of Sample Collection/Monitoring : | 01-08-2022 |
| Point of Collection : | Near Mine Office Ahirpura Block | Date of Receipt : | 08-08-2022 |
| Date of Test/Analysis : | 08-08-2022 to 19-08-2022 | 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] | 12.44 | IS 5182 (Part 6) : 2006 Reaffirmed 2017 | 80.00 |
| 3 | Particulate Matter (PM2.5) [microgram/m3] | 23.81 | IS 5182 (Part 24) : 2019 | 60.00 |
| 4 | Sulphur Dioxide [microgram/m3] | 3.29 | IS 5182 (Part 2) : 2001 RA 2017 | 80.00 |
| 5 | Particulate Matter (PM 10) [microgram/m3] | 58.62 | IS 5182 (Part 23)-2006 RA 2017 | 100.00 |

Notes :-

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Senior Analyst

Puran Mal Yogi

K.N. MIKUDADHYAY

Authorized Signatory

(Report No: TC502522400002318)



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

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522400002319 | Date : | 24-08-2022 |
| Issued To : | M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement ,Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Ambient Air Quality Monitoring | Date of Sample Collection/Monitoring : | 02-08-2022 |
| Point of Collection : | Near Mine office Murlia Block | Date of Receipt : | 08-08-2022 |
| Date of Test/Analysis : | 08-08-2022 to 19-08-2022 | 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] | 230 | TTH/AAQM/08 | 4000 |
| 2 | Nitrogen Dioxide as NO2 [microgram/m3] | 12.36 | IS 5182 (Part 6) : 2006 Reaffirmed 2017 | 80.00 |
| 3 | Particulate Matter (PM2.5) [microgram/m3] | 16.38 | IS 5182 (Part 24) : 2019 | 60.00 |
| 4 | Sulphur Dioxide [microgram/m3] | 3.87 | IS 5182 (Part 2) : 2001 RA 2017 | 80.00 |
| 5 | Particulate Matter (PM 10) [microgram/m3] | 42.9 | IS 5182 (Part 23)-2006 RA 2017 | 100.00 |

Notes :-

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Senior Analyst

Puran Mal Yogi

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Authorized Signatory

(Report No: TC502522400002319)



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

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522400002320 | Date : | 24-08-2022 |
| Issued To : | M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement ,Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Ambient Air Quality Monitoring | Date of Sample Collection/Monitoring : | 02-08-2022 |
| Point of Collection : | Near Ravana office Murlia Block | Date of Receipt : | 08-08-2022 |
| Date of Test/Analysis : | 08-08-2022 to 19-08-2022 | 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] | 350 | TTH/AAQM/08 | 4000 |
| 2 | Nitrogen Dioxide as NO2 [microgram/m3] | 12.46 | IS 5182 (Part 6) : 2006 Reaffirmed 2017 | 80.00 |
| 3 | Particulate Matter (PM2.5) [microgram/m3] | 21.71 | IS 5182 (Part 24) : 2019 | 60.00 |
| 4 | Sulphur Dioxide [microgram/m3] | 3.98 | IS 5182 (Part 2) : 2001 RA 2017 | 80.00 |
| 5 | Particulate Matter (PM 10) [microgram/m3] | 51.66 | IS 5182 (Part 23)-2006 RA 2017 | 100.00 |

Notes :-

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Puran Mal Yogi
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Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522400002323 | Date : | 24-08-2022 |
| Issued To : | M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement ,Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Ambient Air Quality Monitoring | Date of Sample Collection/Monitoring : | 01-08-2022 |
| Point of Collection : | Murlia Village | Date of Receipt : | 08-08-2022 |
| Date of Test/Analysis : | 08-08-2022 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] | 180 | TTH/AAQM/08 | 4000 |
| 2 | Nitrogen Dioxide as NO2 [microgram/m3] | 10.26 | IS 5182 (Part 6) : 2006 Reaffirmed 2017 | 80.00 |
| 3 | Particulate Matter (PM2.5) [microgram/m3] | 16.38 | IS 5182 (Part 24) : 2019 | 60.00 |
| 4 | Sulphur Dioxide [microgram/m3] | 4.01 | IS 5182 (Part 2) : 2001 RA 2017 | 80.00 |
| 5 | Particulate Matter (PM 10) [microgram/m3] | 37.89 | IS 5182 (Part 23)-2006 RA 2017 | 100.00 |

Notes :-

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Senior Analyst

Puran Mal Yogi

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Authorized Signatory

(Report No: TC502522400002323)



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

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522400002324 | Date : | 24-08-2022 |
| Issued To : | M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement ,Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Ambient Air Quality Monitoring | Date of Sample Collection/Monitoring : | 02-08-2022 |
| Point of Collection : | Ahirpura Village | Date of Receipt : | 08-08-2022 |
| Date of Test/Analysis : | 08-08-2022 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] | 180 | TTH/AAQM/08 | 4000 |
| 2 | Nitrogen Dioxide as NO2 [microgram/m3] | 8.72 | IS 5182 (Part 6) : 2006 Reaffirmed 2017 | 80.00 |
| 3 | Particulate Matter (PM2.5) [microgram/m3] | 19.19 | 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] | 35.35 | 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: TC502522400002324)

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

[illegible]

J.K. Cement WORKS, NIMBAHERA (RAJ)

NIMBAHERA - AHIRPURA LIMESTONE MINE (Murlia block)

SIX MONTHLY AMBIENT AIR QUALITY & NOISE MONITORING REPORT

April '2022 to September'2022

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

| Month | Near Mines Gate | | | | | Near Ravana Office | | | | |
|---------|-----------------|--------|-----------------|-----------------|-----|--------------------|--------|-----------------|-----------------|-----|
| | PM10 | PM 2.5 | SO ₂ | NO _x | CO | PM10 | PM 2.5 | SO ₂ | NO _x | CO |
| Apr-22 | 52.2 | 27.6 | 8.4 | 27.2 | 647 | 63.8 | 38.4 | 11.6 | 33.1 | 790 |
| May-22 | 55.7 | 29.2 | 13.7 | 24.6 | 687 | 62.7 | 34.6 | 18.1 | 29.6 | 727 |
| Jun-22 | 59.6 | 41.7 | 16.5 | 27.8 | 510 | 73.4 | 53.0 | 20.8 | 28.7 | 853 |
| Jul-22 | 50.8 | 36.6 | 13.2 | 21.9 | 608 | 68.1 | 48.1 | 17.1 | 29.8 | 693 |
| Aug-22 | 34.8 | 20.7 | 12.5 | 24.2 | 642 | 40.7 | 24.6 | 16.6 | 29.6 | 682 |
| Sep-22 | 32.4 | 18.8 | 11.7 | 23.3 | 682 | 39.1 | 22.0 | 14.2 | 27.6 | 705 |
| AVERAGE | 47.6 | 29.1 | 12.7 | 24.8 | 629 | 58.0 | 36.8 | 16.4 | 29.7 | 742 |



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ANNEXURE-2



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Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522400001504 | Date : | 20-06-2022 |
| Issued To : | M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement, Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Fugitive Emission Quality Monitoring | Date of Sample Collection/Monitoring : | 04-06-2022 |
| Point of Collection : | Near loading point of Murlia Block | Date of Receipt : | 10-06-2022 |
| Date of Test/Analysis : | 10-06-2022 to 20-06-2022 | Sampling Plan : | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample : | - | Sample Collected By : | Rakesh Sharma |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|---|----------------|---|
| 1 | Suspended Particulate Matter [microgram/m3] | 473.09 | IS 5182 (Part 4) : 1999 RA 2019 |
| 2 | Sulphur Dioxide [microgram/m3] | 4.69 | IS 5182 (Part 2) : 2001 RA 2017 |
| 3 | Oxides of Nitrogen [microgram/m3] | 13.21 | IS 5182 (Part 6) : 2006 Reaffirmed 2017 |
| 4 | Carbon Monoxide [microgram/m3] | 270 | TTH/AAQM/08 |

Notes :-

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Purni Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: TC502522400001504)



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

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522400001503 | Date : | 20-06-2022 |
| Issued To : | M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement ,Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Fugitive Emission Quality Monitoring | Date of Sample Collection/Monitoring : | 04-06-2022 |
| Point of Collection : | 3-10 Meter Distance from Drilling Point of Murlia block | Date of Receipt : | 10-06-2022 |
| Date of Test/Analysis : | 10-06-2022 to 20-06-2022 | Sampling Plan : | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample : | - | Sample Collected By : | Rakesh Sharma |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|---|----------------|---|
| 1 | Suspended Particulate Matter [microgram/m3] | 470.03 | IS 5182 (Part 4) : 1999 RA 2019 |
| 2 | Sulphur Dioxide [microgram/m3] | 4.54 | IS 5182 (Part 2) : 2001 RA 2017 |
| 3 | Oxides of Nitrogen [microgram/m3] | 12.12 | IS 5182 (Part 6) : 2006 Reaffirmed 2017 |
| 4 | Carbon Monoxide [microgram/m3] | 350 | TTH/AAQM/08 |

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: TC502522400001503)



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TEST REPORT

| | | | |
|-------------------------|---|--|------------------------------|
| Report No./ULR No. : | TC502522400001502 | Date : | 20-06-2022 |
| Issued To : | M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement , Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Fugitive Emission Quality Monitoring | Date of Sample Collection/Monitoring : | 03-06-2022 |
| Point of Collection : | Near Loading point of Ahirpura Block | Date of Receipt : | 10-06-2022 |
| Date of Test/Analysis : | 10-06-2022 to 20-06-2022 | Sampling Plan : | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample : | - | Sample Collected By : | Rakesh Sharma |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|---|----------------|---|
| 1 | Suspended Particulate Matter [microgram/m3] | 394.3 | IS 5182 (Part 4) : 1999 RA 2019 |
| 2 | Sulphur Dioxide [microgram/m3] | 6.54 | IS 5182 (Part 2) : 2001 RA 2017 |
| 3 | Oxides of Nitrogen [microgram/m3] | 15.15 | IS 5182 (Part 6) : 2006 Reaffirmed 2017 |
| 4 | Carbon Monoxide [microgram/m3] | 360 | TTH/AAQM/08 |

Notes :-

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Puran
Puran Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522400001502)



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

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522400001501 | Date : | 20-06-2022 |
| Issued To : | M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement ,Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Fugitive Emission Quality Monitoring | Date of Sample Collection/Monitoring : | 03-06-2022 |
| Point of Collection : | 3-10 Meter Distance from Drilling Point of Ahirpura block | Date of Receipt : | 10-06-2022 |
| Date of Test/Analysis : | 10-06-2022 to 18-06-2022 | Sampling Plan : | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample : | - | Sample Collected By : | Rakesh Sharma |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol |
|------|---|----------------|---|
| 1 | Suspended Particulate Matter [microgram/m3] | 375.49 | IS 5182 (Part 4) : 1999 RA 2019 |
| 2 | Sulphur Dioxide [microgram/m3] | 6.56 | IS 5182 (Part 2) : 2001 RA 2017 |
| 3 | Oxides of Nitrogen [microgram/m3] | 13.73 | IS 5182 (Part 6) : 2006 Reaffirmed 2017 |
| 4 | Carbon Monoxide [microgram/m3] | 330 | TTH/AAQM/08 |

Notes :-

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Puran Mali Yogi
Senior Analyst

Raj
Rajesh Maneshwan
Authorized Signatory
(Report No: TC502522400001501)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522400002321 | Date : | 24-08-2022 |
| Issued To : | M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement ,Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Fugitive Emission Quality Monitoring | Date of Sample Collection/Monitoring : | 01-08-2022 |
| Point of Collection : | 3-10 Meter Distance from Drilling Point of Murlia block | Date of Receipt : | 08-08-2022 |
| Date of Test/Analysis : | 08-08-2022 to 20-08-2022 | 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] | 261.45 | IS 5182 (Part 4) : 1999 RA 2019 |
| 2 | Sulphur Dioxide [microgram/m3] | 3.84 | IS 5182 (Part 2) : 2001 RA 2017 |
| 3 | Oxides of Nitrogen [microgram/m3] | 12.5 | IS 5182 (Part 6) : 2006 Reaffirmed 2017 |
| 4 | Carbon Monoxide [microgram/m3] | 250 | TTH/AAQM/08 |

Notes :-

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Puran Mal Yogi
Senior Analyst

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

TEST REPORT

| | | | |
|-------------------------|--|--|------------------------------|
| Report No./ULR No. : | TC502522400002322 | Date : | 24-08-2022 |
| Issued To : | M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement ,Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Fugitive Emission Quality Monitoring | Date of Sample Collection/Monitoring : | 02-08-2022 |
| Point of Collection : | Near loading point of Murlia Block | Date of Receipt : | 08-08-2022 |
| Date of Test/Analysis : | 08-08-2022 to 20-08-2022 | 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] | 259.76 | 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] | 11.53 | IS 5182 (Part 6) : 2006 Reaffirmed 2017 |
| 4 | Carbon Monoxide [microgram/m3] | 260 | TTH/AAQM/08 |

Notes :-

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Puran Mal Yogi
Senior Analyst

K.N. MUKHOPADHYAY
Authorized Signatory
(Report No: TC502522400002322)

J.K. Cement WORKS, NIMBAHERA (RAJ)
NIMBAHERA - AHIRPURA LIMESTONE MINE
MONTHLY FUGITIVE MONITORING REPORT
April '2022 to September'2022

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

| Month | 3 to10 Meter Distance From Drilling Operation | | | | Near loading point | | | |
|---------|--|-----------------|-----------------|-----|--------------------|-----------------|-----------------|-----|
| | SPM | SO ₂ | NO _x | CO | SPM | SO ₂ | NO _x | CO |
| Apr-22 | 328 | 18.8 | 27.0 | 693 | 298 | 15.9 | 24.1 | 653 |
| May-22 | 341 | 24.5 | 42.4 | 824 | 318 | 20.4 | 36.9 | 790 |
| Jun-22 | 389 | 15.3 | 29.2 | 779 | 361 | 17.2 | 25.5 | 888 |
| Jul-22 | 393 | 16.7 | 30.3 | 779 | 352 | 18.2 | 32.2 | 807 |
| Aug-22 | 307 | 11.8 | 19.8 | 641 | 263 | 9.8 | 13.8 | 607 |
| Sep-22 | 296 | 11.6 | 14.5 | 624 | 255 | 7.4 | 11.3 | 590 |
| AVERAGE | 342 | 16.4 | 27.2 | 723 | 308 | 14.8 | 24.0 | 722 |

| M/s J.K.CEMENT WORKS,NIMBAHERA | | |
|---|------------------------------------|----------------|
| Digital Water Level Recorder Report (Ground water Level) of Nimbahera – Ahirpura Limestone Mine (ML Area. 403.1875 ha.)) | | |
| Month | Telemetry BW_3 (in m)(avg.) | Remarks |
| Apr-22 | 17.3 | |
| May-22 | 17.79 | |
| Jun-22 | 19.41 | |
| Jul-22 | 10.07 | |
| Aug-22 | 3.68 | |
| Sep-22 | 4.75 | |



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

TEST REPORT

| | | | |
|-------------------------|--|--|-----------------------------|
| Report No./ULR No. : | TC502522100000697 | Date : | 09-05-2022 |
| Issued To : | M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement, Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Potable and Domestic Water | Date of Sample Collection/Monitoring : | 25-04-2022 |
| Point of Collection : | Pit Water (Surface Water) | Date of Receipt : | 27-04-2022 |
| Date of Test/Analysis : | 27-04-2022 to 09-05-2022 | Sampling Plan : | IS 3025:1987(Part 1)RA 2014 |
| Quantity of Sample : | 2 Ltr. | Sample Collected By : | Rakesh Sharma |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max. | Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012 |
|------|-------------------------------|----------------|----------------------------------|--|--|
| 1 | Color [Hazen] | 10 | IS 3025 (Part 4) : 1983 RA 2017 | 5.00 | 15.00 |
| 2 | Odour | Agreeable | IS 3025 (Part 5) : 2018 | Agreeable | - |
| 3 | Turbidity [NTU] | 0.85 | IS 3025 (Part 10) : 1984 RA 2017 | 1.00 | 5.00 |
| 4 | pH | 7.95 | IS 3025 (Part 11) : 1983 RA 2017 | 6.50 - 8.50 | - |
| 5 | Hardness (total) [mg/l] | 427.18 | IS 3025 (Part 21) : 2009 RA 2019 | 200.00 | 600.00 |
| 6 | Iron [mg/l] | BDL(<0.01) | IS 3025 (Part 53) : 2003 RA 2019 | 1.0 | - |
| 7 | Chloride [mg/l] | 63.07 | IS 3025 (Part 32) : 1988 RA 2019 | 250.00 | 1000.00 |
| 8 | Total Dissolved Solids [mg/l] | 577 | IS 3025 (Part 16) : 1984 RA 2017 | 500.00 | 2000.00 |

Note:

Continue to next page...



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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] | 138.25 | IS 3025 (Part 40) : 1991 RA 2019 | 75.00 | 200.00 |
| 10 | Magnesium [mg/l] | 19.82 | IS 3025 (Part 46) : 1994 RA 2019 | 30.00 | 100.00 |
| 11 | Fluoride [mg/l] | 0.58 | IS 3025 (Part 60) : 2008 RA 2019 | 1.00 | 1.50 |
| 12 | Suspended Solids [mg/l] | 20 | 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] | 898 | APHA 2017 : 2510 B | - | - |
| 15 | M - Alkalinity [mg/l] | 180 | APHA : 2017, 2320 B | - | - |

Notes :-

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Puran Mal Yogi
Senior Analyst

Rakesh Maheshwan
Authorized Signatory
(Report No: TC502522100000697)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|-----------------------------|
| Report No./ULR No. : | TC502522100000698 | Date : | 09-05-2022 |
| Issued To : | M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement, Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan). | Type of Unit : | Mines |
| Type of Sample : | Borewell Water | Date of Sample Collection/Monitoring : | 25-04-2022 |
| Point of Collection : | Sharda's Tube Well - (Ground Water) | Date of Receipt : | 27-04-2022 |
| Date of Test/Analysis : | 27-04-2022 to 09-05-2022 | Sampling Plan : | IS 3025:1987(Part 1)RA 2014 |
| Quantity of Sample : | 2 Ltr. | Sample Collected By : | Rakesh Sharma |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max. | Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012 |
|------|-------------------------------|----------------|----------------------------------|--|--|
| 1 | Color [Hazen] | Less than 5 | IS 3025 (Part 4) : 1983 RA 2017 | 5.00 | 15.00 |
| 2 | Odour | Agreeable | IS 3025 (Part 5) : 2018 | Agreeable | - |
| 3 | Turbidity [NTU] | BDL(<0.1) | IS 3025 (Part 10) : 1984 RA 2017 | 1.00 | 5.00 |
| 4 | pH | 7.65 | IS 3025 (Part 11) : 1983 RA 2017 | 6.5 to 8.5 | No relaxation |
| 5 | Hardness (total) [mg/l] | 310.68 | 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] | 67.01 | IS 3025 (Part 32) : 1988 RA 2019 | 250.00 | 1000.00 |
| 8 | Total Dissolved Solids [mg/l] | 427 | IS 3025 (Part 16) : 1984 RA 2017 | 500.00 | 2000.00 |

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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] | 110.29 | IS 3025 (Part 40) : 1991 RA 2019 | 75.00 | 200.00 |
| 10 | Magnesium [mg/l] | 8.49 | IS 3025 (Part 46) : 1994 RA 2019 | 30.00 | 100.00 |
| 11 | Fluoride [mg/l] | 0.75 | IS 3025 (Part 60) : 2008 RA 2019 | 1.00 | 1.50 |
| 12 | Conductivity [micromho/cm] | 658 | 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] | 140 | APHA : 2017, 2320 B | - | - |

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Purni Mal Yogi
Senior Analyst


Authorized Signatory
(Report No: TC502522100000698)



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TEST REPORT

| | | | |
|-------------------------|--|--|-----------------------------|
| Report No./ULR No. : | TC502522100000699 | Date : | 09-05-2022 |
| Issued To : | M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement ,Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Borewell Water | Date of Sample Collection/Monitoring : | 25-04-2022 |
| Point of Collection : | Crusher Tube Well - (Ground Water) | Date of Receipt : | 27-04-2022 |
| Date of Test/Analysis : | 27-04-2022 to 09-05-2022 | Sampling Plan : | IS 3025:1987(Part 1)RA 2014 |
| Quantity of Sample : | 2 Ltr. | Sample Collected By : | Rakesh Sharma |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max. | Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012 |
|------|-------------------------------|----------------|----------------------------------|--|--|
| 1 | Color [Hazen] | Less than 5 | IS 3025 (Part 4) : 1983 RA 2017 | 5.00 | 15.00 |
| 2 | Odour | Agreeable | IS 3025 (Part 5) : 2018 | Agreeable | - |
| 3 | Turbidity [NTU] | BDL(<0.1) | IS 3025 (Part 10) : 1984 RA 2017 | 1.00 | 5.00 |
| 4 | pH | 7.98 | IS 3025 (Part 11) : 1983 RA 2017 | 6.5 to 8.5 | No relaxation |
| 5 | Hardness (total) [mg/l] | 318.45 | 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] | 450 | IS 3025 (Part 16) : 1984 RA 2017 | 500.00 | 2000.00 |

Note:

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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] | 100.97 | 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] | 0.69 | IS 3025 (Part 60) : 2008 RA 2019 | 1.00 | 1.50 |
| 12 | Conductivity [micromho/cm] | 718 | 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] | 160 | APHA : 2017, 2320 B | - | - |

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Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522100000699)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|---|--|-----------------------------|
| Report No./ULR No. : | TC502522100000700 | Date : | 09-05-2022 |
| Issued To : | M/S Nimbahera - Ahirpura Limestone Mine (ML No.-2/97), Murlia Block C/o JK Cement Works, Nimbahera, Tehsil- Nimbahera, District- Chittorgarh (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Potable and Domestic Water | Date of Sample Collection/Monitoring : | 26-04-2022 |
| Point of Collection : | Pit Water (Surface Water) | Date of Receipt : | 27-04-2022 |
| Date of Test/Analysis : | 27-04-2022 to 09-05-2022 | Sampling Plan : | IS 3025:1987(Part 1)RA 2014 |
| Quantity of Sample : | 2 Ltr. | Sample Collected By : | Rakesh Sharma |
| Unit's representative : | Mr Sunil Kumar Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max. | Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012 |
|------|-------------------------------|----------------|----------------------------------|--|--|
| 1 | Color [Hazen] | 15 | IS 3025 (Part 4) : 1983 RA 2017 | 5.00 | 15.00 |
| 2 | Odour | Agreeable | IS 3025 (Part 5) : 2018 | Agreeable | - |
| 3 | Turbidity [NTU] | 1.88 | IS 3025 (Part 10) : 1984 RA 2017 | 1.00 | 5.00 |
| 4 | pH | 8.22 | IS 3025 (Part 11) : 1983 RA 2017 | 6.50 - 8.50 | - |
| 5 | Hardness (total) [mg/l] | 388.35 | 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] | 72.93 | IS 3025 (Part 32) : 1988 RA 2019 | 250.00 | 1000.00 |
| 8 | Total Dissolved Solids [mg/l] | 541 | IS 3025 (Part 16) : 1984 RA 2017 | 500.00 | 2000.00 |

Note:

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Rajesh Maheshwar



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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] | 132.04 | IS 3025 (Part 40) : 1991 RA 2019 | 75.00 | 200.00 |
| 10 | Magnesium [mg/l] | 14.16 | IS 3025 (Part 46) : 1994 RA 2019 | 30.00 | 100.00 |
| 11 | Fluoride [mg/l] | 0.68 | IS 3025 (Part 60) : 2008 RA 2019 | 1.00 | 1.50 |
| 12 | Suspended Solids [mg/l] | 26 | IS 3025 (Part 17) : 1984 RA 2017 | - | - |
| 13 | Oil and Grease [mg/l] | Less than 1 | IS 3025 (Part 39) : 1991 RA 2019 | - | - |
| 14 | Conductivity [micromho/cm] | 847 | APHA 2017 : 2510 B | - | - |
| 15 | M - Alkalinity [mg/l] | 180 | APHA : 2017, 2320 B | - | - |

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Puran Mal Yogi
Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522100000700)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|-----------------------------|
| Report No./ULR No. : | TC502522100000701 | Date : | 09-05-2022 |
| Issued To : | M/S Nimbahera - Ahirpura Limestone Mine (ML No.-2/97), Murlia Block C/o JK Cement Works, Nimbahera, Tehsil- Nimbahera, District- Chittorgarh (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Borewell Water | Date of Sample Collection/Monitoring : | 26-04-2022 |
| Point of Collection : | Hand Pump (Near Hut) - (Ground Water) | Date of Receipt : | 27-04-2022 |
| Date of Test/Analysis : | 27-04-2022 to 09-05-2022 | Sampling Plan : | IS 3025:1987(Part 1)RA 2014 |
| Quantity of Sample : | 2 Ltr. | Sample Collected By : | Rakesh Sharma |
| Unit's representative : | Mr Sunil Kumar Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max. | Standard Permissible 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] | 380.58 | IS 3025 (Part 21) : 2009 RA 2019 | 200.00 | 600.00 |
| 6 | Iron [mg/l] | BDL(<0.01) | IS 3025 (Part 53) : 2003 RA 2019 | 1.0 | - |
| 7 | Chloride [mg/l] | 74.9 | IS 3025 (Part 32) : 1988 RA 2019 | 250.00 | 1000.00 |
| 8 | Total Dissolved Solids [mg/l] | 502 | IS 3025 (Part 16) : 1984 RA 2017 | 500.00 | 2000.00 |

Note:

Continue to next page...

Rajesh Maheshwari



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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] | 130.49 | IS 3025 (Part 40) : 1991 RA 2019 | 75.00 | 200.00 |
| 10 | Magnesium [mg/l] | 13.21 | 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] | 781 | 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] | 170 | APHA : 2017, 2320 B | - | - |

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Purni Mal Yogi
Senior Analyst


Rajesh Maheshwan
Authorized Signatory
(Report No: TC502522100000701)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|---|--|-----------------------------|
| Report No./ULR No. : | TC502522100000702 | Date : | 09-05-2022 |
| Issued To : | M/S Nimbahera - Ahirpura Limestone Mine (ML No.-2/97), Murlia Block C/o JK Cement Works, Nimbahera, Tehsil- Nimbahera, District- Chittorgarh (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Borewell Water | Date of Sample Collection/Monitoring : | 26-04-2022 |
| Point of Collection : | Tube Well (Near Mangrol Chauraha) (Ground Water) | Date of Receipt : | 27-04-2022 |
| Date of Test/Analysis : | 27-04-2022 to 09-05-2022 | Sampling Plan : | IS 3025:1987(Part 1)RA 2014 |
| Quantity of Sample : | 2 Ltr. | Sample Collected By : | Rakesh Sharma |
| Unit's representative : | Mr Sunil Kumar Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max. | Standard Permissible 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] | 442.72 | 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] | 70.96 | IS 3025 (Part 32) : 1988 RA 2019 | 250.00 | 1000.00 |
| 8 | Total Dissolved Solids [mg/l] | 558 | IS 3025 (Part 16) : 1984 RA 2017 | 500.00 | 2000.00 |

Note:

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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] | 155.34 | IS 3025 (Part 40) : 1991 RA 2019 | 75.00 | 200.00 |
| 10 | Magnesium [mg/l] | 13.21 | IS 3025 (Part 46) : 1994 RA 2019 | 30.00 | 100.00 |
| 11 | Fluoride [mg/l] | 0.97 | IS 3025 (Part 60) : 2008 RA 2019 | 1.00 | 1.50 |
| 12 | Conductivity [micromho/cm] | 916 | 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] | 6 | IS 3025 (Part 17) : 1984 RA 2017 | - | - |
| 15 | M - Alkalinity [mg/l] | 176 | APHA : 2017, 2320 B | - | - |

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: TC502522100000702)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|--|--|-----------------------------|
| Report No./ULR No. : | TC502522100001439 | Date : | 18-08-2022 |
| Issued To : | M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement, Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Potable and Domestic Water | Date of Sample Collection/Monitoring : | 02-08-2022 |
| Point of Collection : | Pit Water (Surface Water - Ahirpura Block) | Date of Receipt : | 08-08-2022 |
| Date of Test/Analysis : | 08-08-2022 to 18-08-2022 | 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] | 0.70 | IS 3025 (Part 10) : 1984 RA 2017 | 1.00 | 5.00 |
| 4 | pH | 7.26 | IS 3025 (Part 11) : 1983 RA 2017 | 6.50 - 8.50 | - |
| 5 | Hardness (total) [mg/l] | 343.14 | 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] | 507 | 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] | 11.91 | IS 3025 (Part 46) : 1994 RA 2019 | 30.00 | 100.00 |

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

| S.No | Parameters | Observed Value | Testing Protocol | Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max. | Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012 |
|------|----------------------------|----------------|----------------------------------|--|--|
| 11 | Fluoride [mg/l] | 0.63 | IS 3025 (Part 60) : 2008 RA 2019 | 1.00 | 1.50 |
| 12 | Suspended Solids [mg/l] | 18 | 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] | 818 | APHA 2017 : 2510 B | - | - |
| 15 | M - Alkalinity [mg/l] | 170 | APHA : 2017, 2320 B | - | - |
| 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
Senior Analyst
Balram Adarwai

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522100001439)



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TEST REPORT

| | | | |
|-------------------------|--|--|-----------------------------|
| Report No./ULR No. : | TC502522100001440 | Date : | 18-08-2022 |
| Issued To : | M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement, Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Borewell Water | Date of Sample Collection/Monitoring : | 02-08-2022 |
| Point of Collection : | Sharda's Tube Well - (Ground Water) | Date of Receipt : | 08-08-2022 |
| Date of Test/Analysis : | 08-08-2022 to 18-08-2022 | 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 Limit in the absence of alternative Source as per IS 10500 : 2012 |
|------|-------------------------------|----------------|----------------------------------|--|--|
| 1 | Color [Hazen] | Less than 5 | IS 3025 (Part 4) : 1983 RA 2017 | 5.00 | 15.00 |
| 2 | Odour | Agreeable | IS 3025 (Part 5) : 2018 | Agreeable | - |
| 3 | Turbidity [NTU] | BDL(<0.1) | IS 3025 (Part 10) : 1984 RA 2017 | 1.00 | 5.00 |
| 4 | pH | 7.43 | IS 3025 (Part 11) : 1983 RA 2017 | 6.5 to 8.5 | No relaxation |
| 5 | Hardness (total) [mg/l] | 352.94 | 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] | 70.45 | IS 3025 (Part 32) : 1988 RA 2019 | 250.00 | 1000.00 |
| 8 | Total Dissolved Solids [mg/l] | 453 | 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] | 14.29 | IS 3025 (Part 46) : 1994 RA 2019 | 30.00 | 100.00 |

Rajesh Maheshwari



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

| S.No | Parameters | Observed Value | Testing Protocol | Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max. | Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012 |
|------|-------------------------------|----------------|-------------------------------------|--|--|
| 11 | Fluoride [mg/l] | 0.69 | IS 3025 (Part 60) : 2008 RA 2019 | 1.00 | 1.50 |
| 12 | Conductivity [micromho/cm] | 736 | 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] | 160 | APHA 2017 : 2510 B | - | - |

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Senior Analyst

Rajesh
Authorized Signatory
Rajesh Kumar Shwari
(Report No: TC502522100001440)



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TEST REPORT

| | | | |
|-------------------------|--|--|-----------------------------|
| Report No./ULR No. : | TC502522100001441 | Date : | 18-08-2022 |
| Issued To : | M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement, Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Borewell Water | Date of Sample Collection/Monitoring : | 02-08-2022 |
| Point of Collection : | Crusher Tube Well - (Ground Water) | Date of Receipt : | 08-08-2022 |
| Date of Test/Analysis : | 08-08-2022 to 18-08-2022 | 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 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 | 7.35 | IS 3025 (Part 11) : 1983 RA 2017 | 6.5 to 8.5 | No relaxation |
| 5 | Hardness (total) [mg/l] | 343.14 | 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] | 70.45 | IS 3025 (Part 32) : 1988 RA 2019 | 250.00 | 1000.00 |
| 8 | Total Dissolved Solids [mg/l] | 483 | IS 3025 (Part 16) : 1984 RA 2017 | 500.00 | 2000.00 |
| 9 | Calcium [mg/l] | 109.8 | IS 3025 (Part 40) : 1991 RA 2019 | 75.00 | 200.00 |
| 10 | Magnesium [mg/l] | 16.68 | IS 3025 (Part 46) : 1994 RA 2019 | 30.00 | 100.00 |

Rajesh Maheshwar



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

| S.No | Parameters | Observed Value | Testing Protocol | Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max. | Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012 |
|------|-------------------------------|----------------|----------------------------------|--|--|
| 11 | Fluoride [mg/l] | 0.75 | IS 3025 (Part 60) : 2008 RA 2019 | 1.00 | 1.50 |
| 12 | Conductivity [micromho/cm] | 696 | 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] | 150 | APHA : 2017, 2320 B | - | - |

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Balram

Senior Analyst

Rajesh

Authorized Signatory
Rajesh Maheshwari
(Report No: TC502522100001441)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

| | | | |
|-------------------------|---|--|-----------------------------|
| Report No./ULR No. : | TC502522100001442 | Date : | 18-08-2022 |
| Issued To : | M/S Nimbahera - Ahirpura Limestone Mine (ML No.-2/97), Murlia Block C/o JK Cement Works, Nimbahera, Tehsil- Nimbahera, District- Chittorgarh (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Potable and Domestic Water | Date of Sample Collection/Monitoring : | 02-08-2022 |
| Point of Collection : | Pit Water (Surface Water - Murlia Block) | Date of Receipt : | 08-08-2022 |
| Date of Test/Analysis : | 08-08-2022 to 18-08-2022 | 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 Kumar Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max. | Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012 |
|------|-------------------------------|----------------|----------------------------------|--|--|
| 1 | Color [Hazen] | 15 | IS 3025 (Part 4) : 1983 RA 2017 | 5.00 | 15.00 |
| 2 | Odour | Agreeable | IS 3025 (Part 5) : 2018 | Agreeable | - |
| 3 | Turbidity [NTU] | 1.65 | IS 3025 (Part 10) : 1984 RA 2017 | 1.00 | 5.00 |
| 4 | pH | 7.21 | IS 3025 (Part 11) : 1983 RA 2017 | 6.50 - 8.50 | - |
| 5 | Hardness (total) [mg/l] | 401.96 | IS 3025 (Part 21) : 2009 RA 2019 | 200.00 | 600.00 |
| 6 | Iron [mg/l] | BDL(<0.01) | IS 3025 (Part 53) : 2003 RA 2019 | 1.0 | - |
| 7 | Chloride [mg/l] | 74.36 | IS 3025 (Part 32) : 1988 RA 2019 | 250.00 | 1000.00 |
| 8 | Total Dissolved Solids [mg/l] | 498 | 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] | 26.21 | IS 3025 (Part 46) : 1994 RA 2019 | 30.00 | 100.00 |

Rajesh Maheshwari



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

| S.No | Parameters | Observed Value | Testing Protocol | Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max. | Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012 |
|------|----------------------------|----------------|----------------------------------|--|--|
| 11 | Fluoride [mg/l] | 0.63 | 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] | 805 | APHA 2017 : 2510 B | - | - |
| 15 | M - Alkalinity [mg/l] | 190 | APHA : 2017, 2320 B | - | - |
| 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
Senior Analyst

Raj
Authorized Signatory
(Report No: TC502522100001442)



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

TEST REPORT

| | | | |
|-------------------------|---|--|-----------------------------|
| Report No./ULR No. : | TC502522100001443 | Date : | 18-08-2022 |
| Issued To : | M/S Nimbahera - Ahirpura Limestone Mine (ML No.-2/97), Murlia Block C/o JK Cement Works, Nimbahera, Tehsil- Nimbahera, District- Chittorgarh (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Borewell Water | Date of Sample Collection/Monitoring : | 02-08-2022 |
| Point of Collection : | Hand Pump (Near Hut) - (Ground Water) | Date of Receipt : | 08-08-2022 |
| Date of Test/Analysis : | 08-08-2022 to 18-08-2022 | 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 Kumar Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max. | Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012 |
|------|-------------------------------|----------------|----------------------------------|--|--|
| 1 | Color [Hazen] | Less than 5 | IS 3025 (Part 4) : 1983 RA 2017 | 5.00 | 15.00 |
| 2 | Odour | Agreeable | IS 3025 (Part 5) : 2018 | Agreeable | - |
| 3 | Turbidity [NTU] | BDL(<0.1) | IS 3025 (Part 10) : 1984 RA 2017 | 1.00 | 5.00 |
| 4 | pH | 7.81 | IS 3025 (Part 11) : 1983 RA 2017 | 6.5 to 8.5 | No relaxation |
| 5 | Hardness (total) [mg/l] | 411.76 | IS 3025 (Part 21) : 2009 RA 2019 | 200.00 | 600.00 |
| 6 | Iron [mg/l] | BDL(<0.01) | IS 3025 (Part 53) : 2003 RA 2019 | 1.0 | - |
| 7 | Chloride [mg/l] | 72.4 | IS 3025 (Part 32) : 1988 RA 2019 | 250.00 | 1000.00 |
| 8 | Total Dissolved Solids [mg/l] | 581 | IS 3025 (Part 16) : 1984 RA 2017 | 500.00 | 2000.00 |
| 9 | Calcium [mg/l] | 125.49 | 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
Rajesh Maheswari



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

| S.No | Parameters | Observed Value | Testing Protocol | Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max. | Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012 |
|------|-------------------------------|----------------|----------------------------------|--|--|
| 11 | Fluoride [mg/l] | 0.86 | IS 3025 (Part 60) : 2008 RA 2019 | 1.00 | 1.50 |
| 12 | Conductivity [micromho/cm] | 907 | APHA 2017 : 2510 B | - | - |
| 13 | Oil and Grease [mg/l] | BDL(<0.1) | IS 3025 (Part 39) : 1991 RA 2019 | - | - |
| 14 | Total Suspended Solids [mg/l] | 6 | IS 3025 (Part 17) : 1984 RA 2017 | - | - |
| 15 | M - Alkalinity [mg/l] | 190 | APHA : 2017, 2320 B | - | - |

Notes :-

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Balram
Senior Analyst

Rajesh
Authorized Signatory
(Report No: TC502522100001443)



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

TEST REPORT

| | | | |
|-------------------------|---|--|-----------------------------|
| Report No./ULR No. : | TC502522100001444 | Date : | 18-08-2022 |
| Issued To : | M/S Nimbahera - Ahirpura Limestone Mine (ML No.-2/97), Murlia Block C/o JK Cement Works, Nimbahera, Tehsil- Nimbahera, District- Chittorgarh (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Borewell Water | Date of Sample Collection/Monitoring : | 02-08-2022 |
| Point of Collection : | Tube Well (Near Mangrol Chauraha) (Ground Water) | Date of Receipt : | 08-08-2022 |
| Date of Test/Analysis : | 08-08-2022 to 18-08-2022 | 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 Kumar Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max. | Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012 |
|------|-------------------------------|----------------|----------------------------------|--|--|
| 1 | Color [Hazen] | Less than 5 | IS 3025 (Part 4) : 1983 RA 2017 | 5.00 | 15.00 |
| 2 | Odour | Agreeable | IS 3025 (Part 5) : 2018 | Agreeable | - |
| 3 | Turbidity [NTU] | BDL(<0.1) | IS 3025 (Part 10) : 1984 RA 2017 | 1.00 | 5.00 |
| 4 | pH | 7.79 | IS 3025 (Part 11) : 1983 RA 2017 | 6.5 to 8.5 | No relaxation |
| 5 | Hardness (total) [mg/l] | 401.96 | 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] | 519 | IS 3025 (Part 16) : 1984 RA 2017 | 500.00 | 2000.00 |
| 9 | Calcium [mg/l] | 133.33 | IS 3025 (Part 40) : 1991 RA 2019 | 75.00 | 200.00 |
| 10 | Magnesium [mg/l] | 16.68 | IS 3025 (Part 46) : 1994 RA 2019 | 30.00 | 100.00 |

Rajesh Maneshwar



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

| S.No | Parameters | Observed Value | Testing Protocol | Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max. | Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012 |
|------|----------------------------------|----------------|-------------------------------------|--|---|
| 11 | Fluoride [mg/l] | 0.93 | IS 3025 (Part 60) : 2008 RA 2019 | 1.00 | 1.50 |
| 12 | Conductivity [micromho/cm] | 875 | APHA : 2017 : 2510 B | - | - |
| 13 | Oil and Grease [mg/l] | BDL(<0.1) | 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] | 170 | APHA : 2017, 2320 B | - | - |

Notes :-

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Balram

Senior Analyst
Balram Agarwal

Rajesh

Authorized Signatory
Rajesh Maheshwari
(Report No: TC502522100001444)

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

TEST REPORT

| | | | |
|-------------------------|---|--|------------------|
| Report No./ULR No. : | TC502522200001298 | Date : | 22-06-2022 |
| Issued To : | M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Distt. - Chittorgarh (Rajasthan) | Type of Unit : | Mines |
| Type of Sample : | Liquid Effluents | Date of Sample Collection/Monitoring : | 11-06-2022 |
| Point of Collection : | Ahripura Mine Workshop Water | Date of Receipt : | 14-06-2022 |
| Date of Test/Analysis : | 14-06-2022 to 22-06-2022 | Sampling Plan : | APHA 2017 : 1060 |
| Quantity of Sample : | 2 Ltr. | Sample Collected By : | kishan murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|-------------------------|--|
| 1 | Total Suspended Solids [mg/l] | 27 | APHA.2017:2540-D | 100 |
| 2 | Biochemical Oxygen Demand (BOD) [mg/l] | 19 | APHA 2017:5210-B | 30 |
| 3 | Chloride as Cl [mg/l] | 129.21 | APHA 2017 : 4500- Cl- B | - |
| 4 | Chemical Oxygen Demand (COD) [mg/l] | 104.45 | APHA:2017 : 5220-C | 250 |
| 5 | pH | 7.98 | APHA:2017 : 4500 H+B | 5.5 - 9.0 |
| 6 | Sulphate [mg/l] | 78.95 | APHA:2017 : 4500-SO4-E | - |
| 7 | Chromium Total [mg/l] | BDL(<0.01) | APHA :2017 :3111- B | 2.0 |
| 8 | Copper [mg/l] | BDL(<0.01) | APHA :2017 :3111- B | 3.0 |
| 9 | Iron [mg/l] | BDL(<0.01) | APHA :2017 :3111- B | 3.0 |
| 10 | Zinc [mg/l] | 0.07 | APHA :2017 :3111- B | 5.0 |
| 11 | Oil & Grease [mg/l] | 4 | APHA 2017 : 5520 B | 10 |
| 12 | Total Residual chlorine [mg/l] | BDL (<0.1) | APHA 2017 : 4500- Cl- B | 0.5 |
| 13 | Phosphate (total) as P [mg/l] | BDL (<0.1) | APHA 2017 : 4500-P C | 5 |

Notes :-

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Senior Analyst
Sunil Kumar


Authorized Signatory
(Report No: TC502522200001298)

Instantel JK CEMENT LIME STONE MINES NIMBAHERA

Date/Time Tran at 13:09:04 July 26, 2022
 Trigger Source Geo: 0.700 mm/s, Mic: 148.0 dB(L)
 Range Geo: 31.75 mm/s
 Record Time 27.25 sec (Auto=3Sec) at 1024 sps

Serial Number BE18244 V 10.72-1.1 Minimate Blaster
 Battery Level 5.9 Volts (Battery Low)
 Unit Calibration February 18, 2022 by UES New Delhi
 File Name T244JLSF.740

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

Post Event Notes
 JK CEMENT LIME STONE MINES NIMBAHERA (MURLIA BLOCK)
 I Bench S S-PIT DIRECTION OF BLAST= S-N BID :0-53/22
 NO. OF HOLES= 9, MAX.CHARGE/DELAY= 18.20 KG.
 DIST.FROM BLAST TO INSTRUMENT = 300 MTR.Towards Village

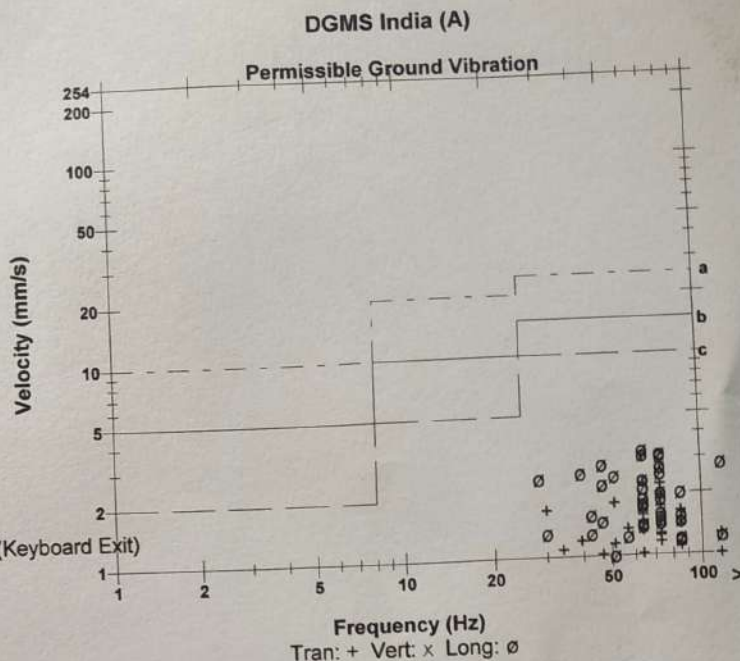
Extended Note

Microphone Weighting
 PSPL dB(L) at 0.706 sec
 ZC Freq
 Channel Test ed (Freq = 20.1 Hz Amp = 506 mv)

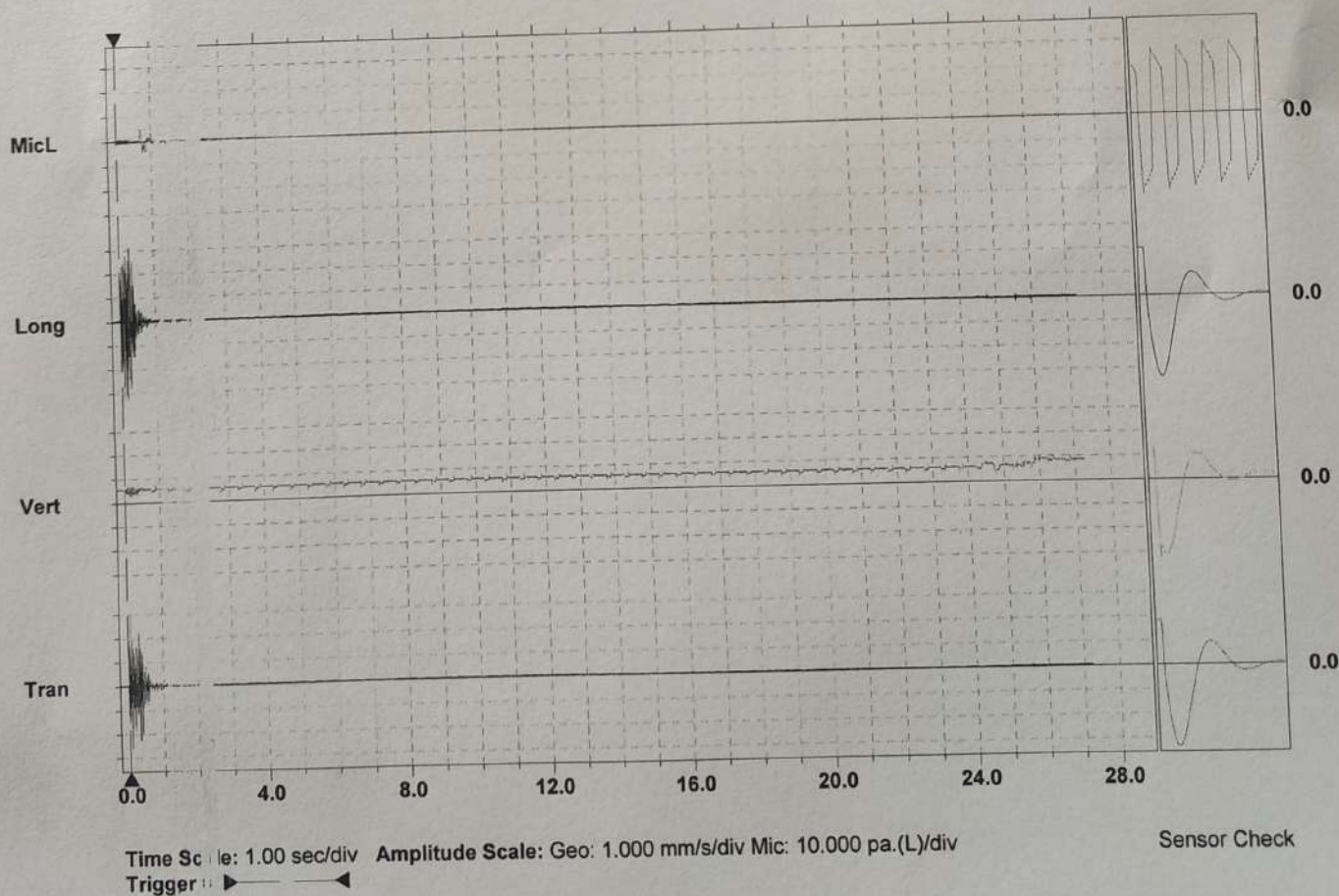
| | Tran | Vert | Long | |
|------------------|--------|--------|--------|------|
| PPV | 3.080 | 1.048 | 3.270 | mm/s |
| ZC Freq | 64 | N/A | 64 | Hz |
| Time (Rel. to T) | 0.076 | 26.367 | 0.174 | sec |
| Peak Accelerat | 0.128 | 0.040 | 0.174 | g |
| Peak Displacem | 0.007 | 0.000 | 0.008 | mm |
| Sensor Check | Passed | Check | Passed | |
| Frequency | 7.7 | 9.4 | 7.9 | Hz |
| Overswing Ratio | 3.6 | 2.9 | 3.6 | |

Peak Vector Sum 3.615 mm/s at 0.075 sec
 N/A: Not Applicable

Monitor Log
 Jul 26 /22 13:01:30 Jul 26 /22 13:09:31 Event recorded. (Keyboard Exit)



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



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

ANNEXURE-7

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 | 2093 | J. K. Cement Works (Ahipura Mine), RIICO INDUSTRIAL AREA , Ahipura Tehsil:Nimbahera District:Chittorgarh | ambient noise monitoring near mines office (Ahipura mines, murliya block M.L.No. 2-97) | 15/06/2022 | 53.6 | 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 | 2094 | J. K. Cement Works (Ahirpura Mine), RIICO INDUSTRIAL AREA , Ahirpura Tehsil:Nimbahera District:Chittorgarh | ambient noise monitoring near ravana office (Ahirpura mines, murliya block M.L.No. 2-97) | 15/06/2022 | 58.6 | ND |


BOARD ANALYST

Rajasthan State Pollution Control Board

* ND = Not Done



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

TEST REPORT

| | | | |
|-------------------------|--|--|-------------------|
| Report No./ULR No. : | TC502522600001531 | Date : | 24-08-2022 |
| Issued To : | M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement ,Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Ambient Noise Level Monitoring | Date of Sample Collection/Monitoring : | 02-08-2022 |
| Point of Collection : | Near Water Pump , Ahirpura Block | Date of Receipt : | 09-08-2022 |
| Date of Test/Analysis : | 09-08-2022 to 24-08-2022 | 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)] | 62.3 | IS 9989 | 75 |
| 2 | Noise Level (Night Time) : Leq [dB(A)] | 52.4 | IS 9989 | 70 |

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[Signature]

Senior Analyst **Mal Yogi**

[Signature]
K.N. MUKHOPADHYAY

Authorized Signatory

(Report No: TC502522600001531)



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

TEST REPORT

| | | | |
|-------------------------|--|--|-------------------|
| Report No./ULR No. : | TC502522600001532 | Date : | 24-08-2022 |
| Issued To : | M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement ,Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Ambient Noise Level Monitoring | Date of Sample Collection/Monitoring : | 02-08-2022 |
| Point of Collection : | Near Mine Office Ahirpura Block | Date of Receipt : | 09-08-2022 |
| Date of Test/Analysis : | 09-08-2022 to 24-08-2022 | 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)] | 58.7 | IS 9989 | 75 |
| 2 | Noise Level (Night Time) : Leq [dB(A)] | 50.3 | IS 9989 | 70 |

Notes :-

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Senior Analyst **Rajan Mal Yogi**

K.N. MIKHOADHYAY

Authorized Signatory

(Report No: TC502522600001532)



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

TEST REPORT

| | | | |
|-------------------------|--|--|-------------------|
| Report No./ULR No. : | TC502522600001533 | Date : | 24-08-2022 |
| Issued To : | M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement ,Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Ambient Noise Level Monitoring | Date of Sample Collection/Monitoring : | 02-08-2022 |
| Point of Collection : | Near Mine office Murlia Block | Date of Receipt : | 09-08-2022 |
| Date of Test/Analysis : | 09-08-2022 to 24-08-2022 | 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)] | 60.3 | IS 9989 | 75 |
| 2 | Noise Level (Night Time) : Leq [dB(A)] | 51.6 | IS 9989 | 70 |

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.

Senior Analyst

Puran Mal Yogi

Authorized Signatory

(Report No: TC502522600001533)



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)

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TEST REPORT

| | | | |
|-------------------------|--|--|-------------------|
| Report No./ULR No. : | TC502522600001534 | Date : | 24-08-2022 |
| Issued To : | M/S Nimbahera- Ahirpura Limestone Mine (ML - 2/97) J.K Cement ,Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Ambient Noise Level Monitoring | Date of Sample Collection/Monitoring : | 02-08-2022 |
| Point of Collection : | Near Ravana office Murlia Block | Date of Receipt : | 09-08-2022 |
| Date of Test/Analysis : | 09-08-2022 to 24-08-2022 | 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)] | 61.6 | IS 9989 | 75 |
| 2 | Noise Level (Night Time) : Leq [dB(A)] | 53.4 | IS 9989 | 70 |

Notes :-

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Senior Analyst

Puran Mal Yogi

Authorized Signatory

(Report No: TC502522600001534)

K.N. MUKHOPADHYAY

J.K. Cement WORKS, NIMBAHERA (RAJ)
NIMBAHERA - AHIRPURA LIMESTONE MINE (Ahipura Block)
MONTHLY NOISE MONITORING REPORT
April '2022 to September'2022

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

| Month | Near Mines Gate | | Near Mine Water Pump House | |
|--------|-----------------|-------|----------------------------|-------|
| | DAY | NIGHT | DAY | NIGHT |
| Apr-22 | 52.5 | 43.6 | 54.2 | 42.2 |
| May-22 | 50.5 | 41.6 | 55.3 | 47.5 |
| Jun-22 | 54.6 | 47.6 | 55.5 | 42.8 |
| Jul-22 | 56.9 | 48.5 | 58.4 | 43.3 |
| Aug-22 | 55.4 | 46.3 | 59.7 | 44.1 |
| Sep-22 | 53.2 | 45.5 | 57.8 | 46.9 |

J.K. Cement WORKS, NIMBAHERA (RAJ)
NIMBAHERA - AHIRPURA LIMESTONE MINE (Murlia block)
MONTHLY AMBIENT NOISE MONITORING REPORT
April '2022 to September'2022

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

| Month | Near Mines Gate | | Near Ravana Office | |
|--------|-----------------|-------|--------------------|-------|
| | DAY | NIGHT | DAY | NIGHT |
| Apr-22 | 61.2 | 45.2 | 55.9 | 41.3 |
| May-22 | 59.5 | 42.6 | 58.1 | 45.6 |
| Jun-22 | 60.6 | 42.2 | 58.8 | 47.6 |
| Jul-22 | 61.1 | 41.3 | 60.2 | 46.7 |
| Aug-22 | 58.7 | 39.6 | 59.6 | 43.8 |
| Sep-22 | 60.2 | 40.4 | 63.4 | 42.9 |