

JK Cement Works, Nimbahera A unit of JK Cement Ltd. CIN: L17229UP1994PLC017199

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NBH/PC-14/C13/

Through Email

Date: 22.05.2023

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

Sub: Environmental Clearance Compliance report of Karunda Limestone Mine (ML 03/2003) by J. K. Cement Works, Nimbahera, Dist. Chittorgarh, Rajasthan (J K Cement Ltd.)

Ref.: EC letter no. - J-11015 / 36/ 2019-IA.II (M) dated 19th August 2021

Dear Sir,

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

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

We hope that the compliance is in order. Thanking you. Yours Faithfully For J. K. Cement Works, Nimbahera

R. B. M. Tripathi President (Operations)

Encl: as above

Copy to:

1. The Deputy Director(S), Ministry of Environment, Forests & Climate Change, Integrated Regional office, Jaipur, A-218, Aranya Bhawan, Jhalana Institutional Area, **Jaipur-302004**

2. The Regional Director Central Pollution Control Board, Paryavaran Parisar, E-5, Arera colony, **Bhopal** (M.P) 462016

3. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-CUM office complex, East Arjun Nagar, New Delhi 110032.

4. The Chairman, Rajasthan State Pollution Control Board, 4, Institutional Area, Jhalana Doongri, Jaipur - 302004 (Rajasthan)

Corporate Office

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



| | Form for Uploading Six Monthly Compliance Report | | | | | | |
|---|--|---|--|---|---|----------------------------------|------------------|
| Proposal Details: | | | | | | | |
| Proposal No. | IA/RJ/MIN/ 210770/2019 | Project Name | Area 24 Grade I Screen Crushe | nvironmental Clearance for Expansion of Karunda Limestone Mine (M.L. No.: 03/2003, ML rea 240.86 ha.) from 2.0 Million TPA Limestone to total excavation of 3.8 Million TPA (Cement rade Limestone: 3.448 Million TPA, Subgrade Limestone: 0.152 Million TPA, Interstitial Clay/ creen rejects/ Waste: 0.189 Million TPA and Top Soil: 0.011 Million TPA) and Limestone rusher with Screening (500 TPH Limestone and 50 TPH Screening Clay) situated at Village - arunda, Tehsil - Nimbahera, District - Chittorgarh, Rajasthan by M/s. J.K. Cement Limited. | | | |
| Category | А | MoEF File No. J-11015/36/2019-IA.II (M), dated 19.08.2021 | | | | | |
| Name of the Entity / Corporate Office* | | | | | | | |
| Entity's PAN* | AABCJ0355R | | | | | | |
| Entity Name as per PAN | J K CEMENT LIM | 1ITED | | | | | |
| Compliance Letter/Report: | | | | | | | |
| Reporting Year* | 2023 | | | Reporting Period* | October-2022 to March-2023 | | |
| Remarks (if any) | (M.L. No.: 03/20 | 003, ML Area: 2 reening (500 TP | 40.86 h H Limes | a.) from 2.0 Million T tone and 50 TPH Scre | period: October-2022 to Marc IPA Limestone to total excavati eening Clay) situated at Village - | ion of 3.8 Million T | PA and Limestone |
| Details of Production and Pr | oject Area | | | | | | |
| Date of Commencement | of Project /Activ | i ty: * 25.02.198 | 36 | Project | Area as Per EC Granted (In Cas | e of Mine Lease):* | 240.86 ha. |
| Actual Project Area (In C | ase of Mine Leas | e):* 228.13 ha | Э. | | | | |
| PRODUCTION CAPACITY: D | Detail of Mines Ex | cavation Quan | tity for | the FY: 2022-23 | | | |
| S. No. Name of the Produ | | Unit | <u> </u> | As per EC Granted | Production During Last Financial Year: 2021-22 | Production Du Financial Year: | - |
| 1 Cement Grade Lime | estone | Million T | PA | 3.448 | 2.2625 | 3.348 | 25232 |
| 2 Subgrade Limeston | e | Million T | PA | 0.152 | 0.0150 | 0.1 | 488 |
| 3 Interstitial Clay/Scr | een rejects/ Wa | ste Million T | PA | 0.189 | 0.0550 | 0.08 | 3492 |
| 4 Top Soil | | Million T | PA | 0.011 | 0.0075 | 0.01 | .096 |
| Total Excavation Quantity | / | Million T | PA | 3.800 | 2.3401 | 3.592 | 93232 |

<u>Karunda Limestone Mine (M.L. No.: 03/2003, ML Area: 240.86 ha.)</u> <u>M/s. J. K. Cement Works, Karunda, Nimbahera, Chittorgarh, Rajasthan-312617</u> <u>EC Compliance Report: October-2022 to March-2023</u>

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

Environment Clearance vide No.: J-11015/36/ 2019-IA.II (M), dated 19/08/2021

A. SPECIFIC CONDITION: -

| S. No. | Condition Type | Condition Details | Self Declaration | Remarks / Reason |
|-----------|-------------------------|---|-----------------------|--|
| 1 | Statutory compliance | The project proponent should explore the possibility of plantation in the adjoining area outside the lease boundary between the village and the mine lease to create a barrier of at least 50 m width belt. | Complied | Safety zone of 300 m has been maintained towards Charliya, Karunda and Pipliya villages and same will be maintained till conceptual stage. If, any changes is required, prior permission will be obtained. |
| 2 | Statutory compliance | It is proposed to create a water reservoir at 175.086 ha. at the end of closure of mine. PP must submit a detailed plan that how will this water reservoir be protected, utilized for villagers in agriculture after necessary treatment. | Yet to be complied | Water reservoir to be developed on 175.086 ha. and detailed plan will be submitted at the time of closure of mine. |
| 3 | Miscellaneous | The project proponent should explore the possibility of use of permanent water sprinklers for control of dust on the haul roads within the mine lease area. | Complied | Unit has deployed one mobile water tanker of 15 KL capacity for regular water sprinkling on the haul roads to prevent dust generation during transportation of limestone through dumpers. Water tanker has also been equipped with high pressure jet system to wet the blasted muck for suppression the fugitive dust emission during loading activity. Image: Comparison of the system comparison of the system comparison of the system comparison during loading activity. Image: Comparison of the system comparison of the system comparison during loading activity. Image: Comparison of the system comparison of the system comparison during loading activity. Image: Comparison of the system comparison of the system comparison during loading activity. Image: Comparison of the system comparison during loading activity. |

| 4 | Statutory compliance | There are village roads passing through the mine lease area. 50 m safety zone on either side and avenue plantation must be undertaken as there was no proposal for road diversion. The safety zone from nearby village currently maintained at 300 m till the life of mine must be maintained at SE and SW directions. | Complied | 50 m sa plantatic • Safety zo Charliya, maintain | fety z on is bo one of Karu ed til | ad has been to one on eithe eing undertak f 300 m has nda and Pip I conceptual permission v | er side of ro cen. been mainta liya Villages stage. If a | ained t ained t and in ny cha | d avenue owards - t will be |
|---|-------------------------|---|-----------------------|---|--|---|--|---|-----------------------------------|
| 5 | Mining Plan | OLBC must be completed within 5 months as committed during the presentation. | Complied | OLBC has l intimated | | commissioned histry. | d on 12/01/2 | 2022, w | hich has |
| 6 | Green Belt | PP should ensure plantation in the mined out pits in the benches, which are not sub-merged in water with 95 % survival rate. | Complied | Presently, mine pits are in active condition, plantation will be done in the benches of mined out pits. | | | ation will | | |
| 7 | Mining Plan | PP must not exceed the total excavation that it has considered for preparation of EMP at any time during the operation. | Complied | | limit. s belo rade ne | ntity is ma Details of ex w: Sub Grade Limestone 0.1488 | - | illion Ti Reject/ :e | |
| 8 | Mining Plan | Timeline for crusher and belt conveyer installation from Karunda to Maliakhera for internal transport be submitted. | Yet to be Complied | Noted | | | | | |
| 9 | Green Belt | The PP must submit the status report of plantation in the periphery, non-mineral zone, safety zone, avenue plantation, and either side of village road to the Ministry in every 6 months. | Complied | Details of Location of plantation Periphery | olanta Total Area 4.90 | Total Plantation till the FY: 2022- 23 2.868 ha | ed are: - Total Plantation in FY-2022-23 0.33 ha. with | | mark |
| | | | | area (Safety Zone) | ha | covered with 7175 nos. of saplings. | 825 nos. of saplings | Periphe plantat 2.032 l done remain | ery |
| | | | | Non mineral area/ Avenue | | Cumulative within lease - 25.652 ha. | 2.04 ha sapling 5105 nos. | | |

| 10 | Statutory compliance | The compliance to public hearing as indicated in the ta with an investment of 160 Lakhs be submitted annu to the Ministry. | | omplied | Plantation/ Village Road Total Details of PH is | nos. sa Cumu outside 1.5 ha 4850 r sapl 30.0 (7558(| lative lease – a. with nos. of | table: | |
|-----------------------|---|--|----------|---------------------|---|---|---|-------------|-------|
| | | Details of PH | Issue Ad | dressed | | | | | |
| CSR Activ | Project or vities | Time bound Action Plan with Budgetary allocation | 2021-22 | Completio Status | | 2022-23 | l Cost (In Lakh) Completion Status | 2023- 24 | Total |
| | chayati Nohra in ge Maliakheri | After allotment of land by Government/Panchayat Construction of Panchayati Nohra/Community Center in Village Maliakhedi will be done in FY 2022-23 with a budget of Rs.50 Lakhs | | - | - | 50 | To be completed (After available of panchayat land) | - | 50 |
| Alsig | garn Balaji Iple near Village | Budget for Plantation activities (300 nos of sapling with tree guard) at Alsigarh Balaji Temple near Village Falwa will be Rs. 5.0 Lakhs and work will be completed in FY 2021-22 & 2022-23. | | Completed | d 0.5 | 2.5 | To be completed | - | 5 |
| Gau: Phal | shala in Village wa | After allotment of land by Government/Panchayat, Construction of Gaushala in village Phalwa will be done in FY 2021-22 & 2022-23 with a budget of Rs.20.0 Lakhs. | | - | - | - | - | 20 | 20 |
| | | Installation of Solar water pump set will be done by year 2021-22 with a cost of Rs. 3.0 Lakhs | 3 | - | - | - | - | - | 3 |
| CC draii | Road and | Construction of CC road (700-800 mtr) and drainage in Village Shergarh will be done in year 2022-23 with a budget of Rs. 14.0 Lakh | | - | - | 14 | Completed | - | 14 |
| | | Construction of CC road (1400 mtr) and drainage in Village Saand will be done in year 2021-22 with a budget of Rs. 18.0 Lakh | 18 | Completed | 16 | - | - | - | 18 |
| Com Pipli Villa | ya Gadiya | After allotment of land by Government/Panchayat, Construction of Community Hall in Pipliya Gadiya Village will be done in FY 2022-23 with a budget of Rs.20 Lakhs | | - | - | 20 | To be completed (Government land is not available) | - | 20 |
| wate | line for drinking er in Village iakhera | Budget for the pipeline will be Rs. 20 Lakhs and completed in FY 2021-22 (1000 mtr Length) | 20 | Completed | 20 | - | - | - | 20 |

| Nee | d based C | otal project cost is Rs. 49.29 Crore and considering 2% of project cost, total CER cost comes to Rs. 99 lacs. However, we are proposing CER Cost of Rs. 160 lacs. Accordingly, there is an additional provision of Rs. 24 lacs to meet the instant requirement from the community | - | - | - | - | - | 24 | 24 |
|-----|----------------------|---|------|---------------------|---|--|---|--|--|
| | | Total CSR Expenditure (In Lakh) | 43.5 | - | 36.5 | 86.5 | - | 44 | 160 |
| 11 | Miscellaneous | Submit the update on implementation of Wild Conservation Plan both specific to this mine expendit as well as combined expenditure annually. | | omplied | Limestone Mir of J K Cement L Nimbahera, Ch Wildlife Consel Schedule-I Spe survey i.e.: - a) Pavocristatu b) Pantherapat c) Prionailurus d) Canis lupus e) Varanusben f) Gyps indicus Wild life conse DFO, Chittorga vide letter No 13.07.2021 and deposited to D | nes and td are si nittorgar rvation F ecies fou us (India dusfusca srubigino pallipes galensis s/Gyps b ervation rh to Div c.: F(5) d accord DFO - Ch | Plan (WCP) has been und in the buffer a n Peafowl), a (Indian Leopard), osus (Rusty-Spotted | d Ceme radius prepar rea dui Cat), ard) /ulture) warded rvator o 22/4089 f Rs. 57. | nt Plant in Tehsil red for 6 ring the by the of Forest 0 dated .07 Lakh |
| 12 | Miscellaneous | At the time of revision of mining plan, EMP if modified for a peak production be submitted along with revised mining plan to the Ministry. | | et to be omplied | Agreed, no any | revisio | n of mining plan. | | |
| 13 | Greenbelt | The study carried out by drone and shown during presentation must be submitted to the Ministry for purpose of record. | | omplied | | ed to | n by drone during E the MoEF&CC a 30/11/2021. | | - |
| В. | STANDARD CO | INDITIONS: | | | | | | | |
| Ι | Statutory Com | pliance | | | | | | | |
| 1 | Statutory compliance | This Environmental Clearance (EC) is subject to orde judgment of Hon'ble Supreme Court of India, Hon | | omplied | Noted | | | | |

| | | High Court, Hon'ble NGT and any other Court of Law, Common Cause Conditions as may be applicable. | | |
|---|-------------------------|--|----------|--|
| 2 | Statutory compliance | The Project proponent complies with all the statutory requirements and judgment of Hon'ble Supreme Court dated 2 nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors before commencing the mining operations. | Complied | Unit is complies with all the statutory requirements. |
| 3 | Statutory compliance | The State Government concerned shall ensure that mining operation shall not be commenced till the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department of Mining & Geology in strict compliance of Judgment of Hon'ble Supreme Court dated 2 nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors. | Complied | Certificate issued by Mining Department regarding the "No Dues "of compensation levied. |
| 4 | Statutory compliance | This Environmental Clearance shall become operational only after receiving formal NBWL Clearance from MoEF&CC subsequent to the recommendations of the Standing Committee of National Board for Wildlife, if applicable to the Project. | Complied | Not applicable |
| 5 | Statutory compliance | This environmental clearance shall become operational only after receiving formal forest clearance (FC) under the provision of forest conservation act, 1980, if applicable to the project. | Complied | Not applicable |
| 6 | Statutory compliance | Project proponent (PP) shall obtain consent to operate after grant of EC and effectively implement all the conditions stipulated therein. The mining activity shall not commence prior to obtaining consent to establish/consent to operate from the concerned state pollution control board /committee. | Complied | Unit obtained the CTE & CTO from RSPCB: - CTE granted by RSPCB vide letter No.: F (Mines)/Chittorgarh (Nimbahera)/1869 (1) /2017-2018/3482-3486, dated 26.10.2021. CTO granted by RSPCB vide letter No.: F (Mines)/Chittorgarh (Nimbahera)/1869(1) /2017-2018/3891-3895, dated 12.11.2021, valid up to 31/10/2026. |
| 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 | Complied | Agreed and complied. |

| | | shall adhere to various circulars issued by Directorate General Mines Safety (DGMS) and Indian bureau of mines from time to time. | | |
|----|-------------------------|--|----------|---|
| 8 | Statutory compliance | The project proponent shall obtain consents from all the concerned land owners, before start of mining operations as per the provisions of MMDR Act, 1957 and rules made there under in respect of lands which are not owned by it. | Complied | Agreed, land owners have no any concern. |
| 9 | Statutory compliance | The project proponent shall follow the mitigation measures provided in MOEFCC's office memorandum No. Z-1103/57/2014-IA.II(M), dated 29 th October, 2014, titled "Impact of mining activities on Habitations - issues related to the mining projects wherein habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area" | Complied | Unit has taken the following measures to reduces the impact of mining activities on habitations: - Garland drain constructed, Siltation pond facilitated, Regular water spray on haul road is being done, Rain water collected in mine pit and as per requirement of villagers, water is being supplied to nearby villagers during the lean period, Mask light are being kept in off mode during night period, Company own road used for limestone transportation, Carried out dense plantation. |
| 10 | Statutory compliance | The project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water from CGWA for withdrawal of ground water for the project. | Complied | Unit has obtained Combined NOC for ground water withdrawal for Plant & Mines from CGWA vide letter No.: CGWA/NOC/MIN/REN/2/2021/6354 dated 28.10.2020, valid till 27/10/2022. |
| 11 | Statutory compliance | A copy of EC letter will be marked to concerned Panchayat / local NGO etc. if any, from whom suggestion / representation has been received while processing the proposal. | Complied | EC copy had been submitted to concern Panchayat, Zila Parishad, DIC Office, District Collector, SDM Office vide letter No.: NBH/ PC-A/EC-M/KRD/13, dated 23.08.2021. Receipt copy of the same has also been submitted to ministry along with last EC half yearly compliance report. |
| 12 | Statutory compliance | State Pollution Control Board/Committee shall be responsible for display of this EC letter at its Regional office, District Industries Centre and Collector's office/ Tehsildar's Office for 30 days. | Complied | Agreed & Noted. |

| 13 | Statutory compliance | The Project Authorities should widely advertise about the grant of this EC letter by printing the same in at least two local newspapers, one of which shall be in vernacular language of the concerned area. The advertisement shall be done within 7 days of the issue of the clearance letter mentioning that the instant project has been accorded EC and copy of the EC letter is available with the State Pollution Control Board/Committee and web site of the Ministry of Environment, Forest and Climate Change (www.parivesh.nic.in). A copy of the advertisement may be forwarded to the concerned MoEF&CC Regional Office for compliance and record. | Complied | EC granted information published in two local newspapers i.e.: Dainik Bhasker and Rajasthan Patrika on 24/08/2021 and proof of the same has been submitted along with last six monthly EC compliance report. |
|----|--|---|----------|--|
| 14 | Statutory compliance | The Project Proponent shall inform the MoEF&CC for any change in ownership of the mining lease. In case there is any change in ownership or mining lease is transferred than mining operation shall only be carried out after 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. |
| П | Air Quality Mo | nitoring And Preservation | | |
| 1 | Air Quality Monitoring And Preservation | The Project Proponent shall install a minimum of 3 (three) online Ambient Air Quality Monitoring Stations with 1 (one) in upwind and 2 (two) in downwind direction based on long term climatological data about wind direction such that an angle of 120° is made between the monitoring locations to monitor critical parameters, relevant for mining operations of air pollution viz. PM10, PM2.5, NO2, CO and SO2 etc. as per the methodology mentioned in NAAQS Notification No.: B-29016/20/90/PCI/I, dated 18.11.2009 covering the aspects of transportation and use of heavy machinery in the impact zone. The ambient air quality shall also be monitored at prominent places like office building, canteen etc. as per the site condition to ascertain the exposure characteristics at specific places. The above data shall be digitally displayed within 03 months in front of the Main Gate of the mine site. | Complied | Three (03) nos. of CAAQMS has been installed all along the mine lease boundary: - Near View Point towards Villages Charliya and Peepliya. Near North Pit towards Village Karunda. Towards Village Charliya (Common for Karunda Limestone Mine and Maliakhera Limestone Mine). Digital display board has been provided at Mine Office Near Main Gate. CAAQMS data has been uploaded on CPCB and RSPCB portals. |

| 2 | Air Quality Monitoring And Preservation | Effective safeguard measures for prevention of dust generation and subsequent suppression (like regular water sprinkling, metaled road construction etc.) shall be carried out in areas prone to air pollution wherein high levels of PM10 and PM2.5 are evident such as haul road, loading and unloading point and transfer points. The Fugitive dust emissions from all sources shall be regularly controlled by installation of required equipment's/ machineries and preventive maintenance. Use of suitable water-soluble chemical dust suppressing agents may be explored for better effectiveness of dust control system. It shall be ensured that air pollution level conform to the standards prescribed by the MoEFCC /Central Pollution Control Board. | Complied | Following safeguard measures taken for prevention of dust generation: - Regular water sprinkling is being done on haul roads and water sprinkling system has been provided at the unloading point to control the fugitive emission. Ambient air quality monitoring is being carried out on regular basis by NABL accredited laboratory. Detail Ambient air quality and fugitive emission monitoring reports for the period: Oct-22 to March-23 are enclosed as <u>Annexure-1</u> and <u>Annexure-2</u>, respectively. |
|---|--|--|----------|--|
| ш | Water Quality | Monitoring And Preservation | | |
| 1 | Water Quality Monitoring And Preservation | In case, immediate mining scheme envisages intersection of ground water table, then Environmental Clearance shall become operational only after receiving formal clearance from CGWA. In case, mining operation involves intersection of ground water table at a later stage, then PP shall ensure that prior approval from CGWA and MoEF&CC is in place before such mining operations. The permission for intersection of ground water table shall essentially be based on detailed hydro-geological study of the area. | Complied | Unit has obtained the NOC for Mines Seepage permission from CGWA vide NOC No.: CGWA/NOC/MIN/ ORIG/2022/14763, dated 10/03/2022, valid till 09/03/2024. |
| 2 | Water Quality Monitoring And Preservation | Regular monitoring of the flow rate of the springs and perennial nallahs flowing in and around the mine lease shall be carried out and records maintain. The natural water bodies and or streams which are flowing in an around the village, should not be disturbed. The Water Table should be nurtured so as not to go down below the pre-mining period. In case of any water scarcity in the area, the Project Proponent has to provide water to the villagers for their use. A provision for regular monitoring of water table in open dug wall located in village should be incorporated to ascertain the impact of mining over ground water table. The Report on changes in Ground | Complied | Unit has taken following measures: - No natural water course and / or water resources will be obstructed due to any mining operation. In Karunda Mining lease area, there exists a nallah in South side flowing in South direction from SW to SE direction meeting the catchment area of the earthen dam. This nallah is only a seasonal nallah and is not a perennial one. This area is already deducted from the active mine working and also we have put embankment all along the length of the nallah keeping a safety distance of 15 |

| | | 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. | | m from it in addition to safety zone of 45 m on both side all along the nallah. 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. groundwater level and quality in and around the mine lease by establishing a network of existing wells as well as new piezo-meter installations during the mining operation in consultation with Central Ground Water Authority/ State Ground Water Department. The Report on changes in Ground water level and quality shall be submitted on six-monthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department/State Pollution Control Board. | Complied | 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 5 nos. of piezometers for periodic and installed one DWLR (Digital Water Level Recorder) with telemetry system for online monitoring of ground water level. Detail ground water level monitoring report for the period: Oct-22 to March-23 is enclosed as <u>Annexure-3</u>. |
| 4 | Water Quality Monitoring And Preservation | The Project Proponent shall undertake regular monitoring of natural water course/water resources /springs and perennial nallahs existing/ flowing in and around the mine lease and maintain its records. The project proponent shall undertake regular monitoring of water quality upstream and downstream of water bodies passing within and nearby/adjacent to the mine lease and maintain its records. Sufficient number of gullies shall be provided at appropriate places within the lease for management of water. PP shall carryout regular monitoring w.r.t. pH and included the same in monitoring plan. The parameters to be monitored shall include their water quality vis-a-vis suitability for usage as per CPCB criteria and flow rate. It shall be ensured that no obstruction and/ or alteration be made to water bodies during mining operations without justification and prior approval of MoEF&CC. The monitoring of water courses/ bodies existing in lease area shall be carried out four times in a year viz.: Pre- monsoon (April-May), Monsoon (August), Post-monsoon (November) and Winter (January) and the record of monitored data may | Complied | Unit is monitoring the ground water quality on quarterly basis i.e.: Pre-monsoon (April-May), Monsoon (August), Post-monsoon (November) and Winter (January) by deploying NABL accredited Laboratory. Ground water quality analysis report for post monsoon and winter season are enclosed as <u>Annexure-4</u>. |

| | | 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 operations which include Chemical Oxygen Demand (COD) in mines run-off; acid mine drainage and metal contamination in runoff shall be monitored along with Total Suspended Solids (TDS), Dissolved Oxygen (DO), pH and Total Suspended Solids (TSS). The monitored data shall be uploaded on the website of the company as well as displayed at the project site in public domain, on a display board, at a suitable location near the main gate of the Company. The circular No. J- 20012/1/2006-IA. II (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change may also be referred in this regard. | Complied | There is no waste water generation from the Limestone mining operation. Mine Key parameter data has been uploaded at <u>www.jkcement.com/environmental-compliance</u> as per notification as well as displayed at mine office. |
| 6 | Water Quality Monitoring And Preservation | Project Proponent shall plan, develop and implement rainwater harvesting measures on long term basis to augment ground water resources in the area in consultation with Central Ground Water Board/ State Groundwater Department. A report on amount of water recharged needs to be submitted to Regional Office MoEF&CC annually. | Complied | To augment the water resources, rain water harvesting is done and stored in lower most benches (Water reservoir). Surface rain water is collected in the lower most benches to augment Ground water resources. Anicut and siltation pond is constructed to augment water table. Photographs of implemented rainwater harvesting measures are as below: |

| | | | | Linket WARGES Linket WARGES Extended 313812 Pro Responses 71382 Responses 7138 |
|----|---|---|----------|---|
| 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 | There is no industrial waste water is generated from the Mine operation. |
| 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 Vibr | ration 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 | 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. The nearest habitation Village Charliya and Pipliya - Gadia are at 300m. Max Peak partial velocity was observed is 3.252 mm/sec for the period: Oct-22 to March-23 and report of the same is enclosed as <u>Annexure-5</u>. |

| 2 | Noise And Vibration Monitoring And Prevention | The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise level at night. PPs must ensure that the biological clock of the villages is not disturbed, by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day/night hours. | Complied | Unit is maintaining the illumination and noise level well within permissible limits during day and night hours. Detail ambient noise level monitoring report for the period: Oct-22 to March-23 is enclosed as <u>Annexure-6</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 | Regular maintenance (including cabin) of HEMM are being done to keep noise level well within the specified limits. Workers engaged in operation of HEMM etc. are provided ear plugs. Onsite tool box talk is being conducted on daily basis and imparted the periodical training for all employee & workmen. |
| v | Mining Plan | | | |
| 1 | Mining Plan | The project proponent shall adhere to the working of mining plan, which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation i.e.: Quantum of mineral waste, over burden, inter burden and top soil. No change in basic mining proposal like mining technology. total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, overburden & dump management, O.B. & dump mining, mineral transportation mode, ultimate depth of mining etc.) shall not be carried out without prior approval of the ministry of Environment, forest and climate change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form to short term permit (STP), query license or any other name. | Complied | 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. Total excavation Million TPA during FY 2022-23: Cement Grade Sub Grade Limestone IB/Screen Reject/ Top Soil 3.34825232 0.1488 0.08492 0.01096 |

| 2 | Mining Plan | The project proponent shall get the final mine closure plan along with financial assurance approved from Indian bureau of mines/ department of mining & geology as required under the provision of the MMDR Act,1957 and rules /guidelines made there under. A copy of approved final mine closure plan shall be submitted within 2 months of the approval of the same from the competent authority to the concerned regional office of the ministry of environment, Forest and climate change for the record and verification. | Yet to be Complied | Unit will be submitted the final mine closure plan within due course of time. |
|----|---------------------|--|-----------------------|---|
| 3 | Mining Plan | The land use of the mine area at various stages of mining scheme as well as at the end-of-life shall be governed as per the approved mining plan. The excavation vis-à-vis backfilling in the mine lease area and corresponding afforestation to be raised in the reclaimed area shall be governed as per approved mining plan. PP shall ensure the monitoring and management of rehabilitated areas until the vegetation becomes self-sustaining. The compliance status shall be submitted half-yearly to the MoEF&CC and its concerned Regional office. | Complied | There is no back filling proposed in the approved mining plan. |
| VI | Land Reclamat | tion | | |
| 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 | Interstitial clay/waste generated during the mining operations are being at earmarked dump sites only. Physical parameters of dumps i.e.: height, width and angle of slope being maintained in compliance of the approved mining plan as per the guidelines /circulars issued by DGMS. Top soil generation quantity from mining operation in the FY: 2022-23 is 0.01096 Million TPA. It is being used for plantation purpose. |
| 2 | Land Reclamation | The reject/waste generated during the mining operations shall be stacked at earmarked waste dump site(s) only. The physical parameters of the waste dumps like height, width, and angle of slope shall be governed as per the approved mining plan as per the guidelines/circulars | Complied | Waste generated during the mining operations is being at earmarked waste dump sites only. Physical parameters of the waste dumps i.e.: height, width and angle of slope being maintained in |

| | | issued by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of waste dumps. | | compliance of the guidelines/ circulate Inter-burden/intermining operation TPA. Sub-grade minerroperation in the F The total area material in 7.61 here | ars issued b erstitial clay in the FY: 2 al generati FY: 2022-23 occupied b | y DGMS. generation 2022-23 is 0 on quantity is 0.1488 M | quantity from 0.08492 Million 7 from mining 1illion TPA. |
|---|---|---|----------|--|--|---|---|
| 3 | Land Reclamation | The reclamation of waste dump sites shall be done in scientific manner as per the approved mining plan cum progressive mine closure plan. | Complied | Agreed, reclamation approved mining pla | | • | • |
| 4 | Reclamation 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/ | eclamation 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 | Complied | Presently, total dumps are in acti There are 3 nos. of existing in our min as follows: | ve condition of active du | n. mps of subg | rade materials |
| | | | | No. of Dump | Length | Width | Height |
| | | | | 1 - South | 463 | 86.5 | <10 |
| | | | | 2 - East | 255 | 106 | <10 |
| | | | | 3 - West | 200 | 71 | <10 |
| | | levelling of dump mass. In critical areas use of geo textiles/geo-membranes/clay liners/Bentonite etc. shall | | There are 2 nos. of their dimension in | | • | stitial Clay and |
| | | be undertaken for stabilization of the dump. | | No. of Dump | Length | Width | Height |
| | | | | 1-south | 385 | 66 | <10 |
| | | | | 2-West | 114 | 50 | <10 |
| | | | | As per the condit dumps become ir | • | tion will be | done after the |
| 5 | Land Reclamation | The project proponent shall carry out slope stability in case the dump height is more than 30 meters. The slope stability report shall be submitted to concerned regional office of MOEF&CC. | Complied | Agreed and will be of 30m. Presently, dur grade mineral. | • | | |
| 6 | Land Reclamation | Catch drains, settling tanks and siltation ponds of appropriate size shall be constructed around the mine working, mineral yards and Top Soil/OB/ Waste dumps to prevent run off of water and flow of sediments directly | Complied | Rainwater collected non-working mine sedimentation mine | pits for se | dimentation | n, after proper |

| · · · · · | | | | 1 | | | | |
|-----------|---------------------|---|----------|-----------------------------|---|--|---|---|
| | | into the water bodies (Nallahs/River/Pond etc.) The collected water should be utilized for watering the mine | | S.N. | Catch Drain, Drai | | Din | mension |
| | | area, roads, green belt development, plantation etc. the drains/sedimentation sumps etc. shall be de-silted | | 1 | West of North | Pit | Length - 850 Depth - 1.5 n | m, Width - 1 m, n |
| | | regularly, particularly after monsoon season, and | | 2 | South West of | South Pit | |) m, Width - 1 m, |
| | | maintained properly. | | 3 | Around Subgr in NE side of | | Length – 921 | L m, Width - 1 m, |
| | | | | 4 | near Charlia V Around Subg | | Length - 183 | m, Width - 1 m, |
| | | | | | in South side of | of South Pit | Depth - 1.5 n | |
| | | | | below | /: - | • | | |
| | | | | S. No | • • • • | | | Capacity (M ³) |
| | | | | 1 | 15.5 | 15 | 2.45 | 569.625 |
| | | | | 2. | 18 | 17 | 3 | 918 |
| | | | | 3. 4. | 17 20 | 17 | 3 2.46 | 867 787.2 |
| | | | | 4. 5. | 11 | 16 8 | 3 | 264 |
| | | | | 6. | 9 | 8 | 2.5 | 180 |
| | | | | 0. | | Total | 2.5 | 3585.825 |
| | | | | A View | e di Garland Drain Syst | tern At Karunda Lir | mestone Mine of J.K. (| Cerment Works, Nimbahera |
| 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 | Complied | rainfa 1. To X X (| ll): - tal rain wate Rainfall(m) X).05 m X 0.20 | r would be Runoff coe = 233.4 m ³ | e available = efficient (20% ³ and conside | 0 mm maximum OB dump (area) 6) i.e.: 23340 m ² ering 50% safety pond should be |

| | | 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. | | 466.8 m³. 2. Sub-grade (area) X Rainfall (m) X Runoff coefficient (20%) i.e.: 62540 m² X 0.05 m X 0.20 = 625.4 m³ and considering 50% safetymargin then total capacity of siltation pond should be 1250.8 m³. 3. Total rain water collection capacity of siltation pit requires = 466.8 m³ + 1250.8 m³ = 1717.6 m³. 4. The storm water is being collected to garland drain from the periphery of the pit area and waste dump area routed to siltation pond. The collected water is being used for plantation and water sprinkling on haul road. |
|-----|---------------------|---|----------|---|
| 8 | Land Reclamation | The top soil, if any, shall temporarily be stored at earmarked sites(s) within the mine lease only and should not be kept unutilized for long. The physical parameters of the top soil dumps like height, width and angle of slope shall be governed as per the approved mining plan and as per the guidelines framed by D.G.M.S w.r.t. safety in mining operations shall be strictly adhered the stability of dumps. The top soil shall be used for land reclamation and plantation purpose. | Complied | Top soil generated during mining operation in FY: 2022-23 is 0.01096 Million TPA and it's stored at earmarked sites within the mine lease only and same is being used for plantation purpose. |
| VII | Transportation | 1 | | |
| 1 | Transportatio n | 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 | Complied | Not applicable, road is not passing through any villages/habitations. All the minerals are being transported by own cemented concrete road. |

| | | sprinkling will also be done regularly Vehicular emissions shall be kept under control and regularly monitored. Project should obtain Pollution Under Control(PUC) certificate for all the vehicles from authorized pollution testing centers. | | | | | | |
|---|--|--|---------------------------------------|---|---|---|---|--|
| 2 | Transportatio n | The main haulage road within the mine lease should be provided with a permanent water sprinkling arrangement for dust suppression. other roads within the mine lease should be wetted regularly with tanker- mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points. material yards etc. should invariably be provide with dust suppression arrangements. The air pollution control equipment's like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at crusher, belt –conveyors and other areas prone to air pollution the belt conveyor should be fully covered to avoid generation of dust while transportation. PP shall take necessary measures to avoid generation of fugitive dust emissions. | Complied | provided for water sprin points, tran the dust | or cor hkling hsfer beco | ntrol of fugitive being carried points as well | ve dust emiss l out on load as the haul r orne during | tem has been sion and regular ling & unloading roads to prevent transportation |
| | 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 | Complied | Details of | planta | tion develop Total | | |
| | | the guidelines of CPCB in order to arrest pollution emanating from mining operations within the lease. The | | Location of plantation | | Plantation till the FY: 2022- 23 | Total Plantation in FY-2022-23 | Remark |
| | 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. | | Periphery area (Safety Zone) | 4.90 ha | 2.868 ha covered with 7175 nos. of saplings. | 0.33 ha. with 825 nos. of saplings | Remaining Periphery plantation area 2.032 ha will be done in remaining period of the FY 2023-24 | |
| | | | | Non mineral area/ Avenue Plantation/ Village Road | | Cumulative within lease - 25.652 ha. with 63555 nos. saplings. Cumulative outside lease – | 2.04 ha sapling 5105 nos. | |

| | | | | 1.5 ha. with 4850 nos. of saplings. Total 30.02 ha (75580 nos.) (5975 nos.) |
|---|------------|--|----------|---|
| 2 | Green Belt | The project proponent shall carryout plantation / afforestation in backfilled and reclaimed area of mining lease, around water body, along the roadsides, in community areas etc. by planting the native species in consultation with the state forest department/ Agriculture Department/ Rural development/ Tribal Welfare Department/ gram panchayat such that only those species be selected which are of use to the local people. The CPCB guidelines in this respect shall also be adhered. The density of the trees should be around 2500 saplings per hectare adequate budgetary provision shall be made for protection and care of trees. | Complied | There is no proposal of backfilling as per approved mining plan. |
| 3 | Green Belt | The project proponent shall make necessary alternative arrangements for livestock feed 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 done in consultation with the state government, in this regard Project proponent should essentially implement the directions of the Hon'ble Supreme Court with regard to acquisition of grazing land. The Sparse trees on such grazing ground , which provide mid-day shelter from the scorching sun, should be scrupulously guarded / protected against felling and plantation of such trees should be promoted. | Complied | Mining lease was originally granted on 25/07/1984 and executed on 13/12/1984, which is prior to the court order. Permission for working in gazing land has been granted by District Authority vide letter No.: Rajasva/Khanan/NOC/12-12(66)07/199 on 2nd Jan., 2012 and Rajasva/Khanan/NOC/12-12(66)07/228 on 6th Feb., 2012 and Prakaran No.: 5/96 on 27th March, 1996. |
| 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 (Ru d) Canis lupus pallipes (Indian e) Varanusbengalensis (Indian f) Gyps indicus/Gyps bengaler Wild life conservation plan h DFO, Chittorgarh to Divisional vide letter No.: F(5) Survey 13.07.2021 and accordingly 20 deposited to DFO - Chittorgarh WCP of Rs. 285.30/- Cr in July- | Wolf), Monitor Lizard) nsis (Indian Vulture) has been forwarded by the Chief Conservator of Forest J/UVS/2021-22/4089 dated % amount of Rs. 57.07 Lakh hagainst the total amount of |
|----|----------------|--|----------|--|--|
| 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 pre DFO and implementation will approved wildlife conservation submitted after final approval | also be done according to n plan. Annual status will be |
| IX | Public Hearing | And Human Health Issues | | | |
| 1 | | The Project Proponent shall appoint an Occupational Health Specialist for Regular as well as Periodical medical examination of the workers engaged in the mining activities, as per the DGMS guidelines. The records shall be maintained properly. PP shall also carryout Occupational health check-ups in respect of workers which are having ailments like BP, diabetes, habitual smoking, etc. The check-ups shall be undertaken once in six months and necessary remedial/ preventive measures be.taken. A status report on the same may be sent to MoEF&CC Regional Office and DGMS on half-yearly basis. | Complied | Periodical medical examination carried out. Detail of medical examination period: Oct-22 to March-23 Particular No. of persons examined Initial Medical Examination Periodical Medical Examination Disease observed | ation carried out for the |
| 2 | - | 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 | Complied | taken. • Best practices have been | preventive action are being implemented to maintain mission, noise level and all |

| | | maintain accurate and systematic records of the I-IRA. The I-IRA for neighborhood has to focus on Public Health Problems like Malaria, Tuberculosis, HIV, Anaemia, Diarrhoea in children under five, respiratory infections due to bio mass cooking. The proponent shall also create awareness and educate the nearby community and workers for Sanitation, Personal Hygiene, Hand washing, not to defecate in open, Women Health and Hygiene (Providing Sanitary Napkins), hazard of tobacco and alcohol use. The Proponent shall carryout base line I-IRA for all the category of workers and thereafter every five years. | | Mobile medical check-up camps are being organized at all nearby villages for treatment and medicine free of cost. |
|---|---|--|----------|---|
| 3 | - | The Proponent shall carry out Occupational health surveillance which be a part of HRA and include Biological Monitoring where practical and feasible, and the tests and investigations relevant to the exposure (e.g. for Dust a X-Ray chest; For Noise Audiometric; for Lead Exposure Blood Lead, For Welders Full Ophthalmologic Assessment; for Manganese Miners a complete Neurological Assessment by a Certified Neurologist, and Manganese (Mn) Estimation in Blood; For Inorganic Chromium- Fortnightly skin inspection of hands and forearms by a responsible person. Except routine tests all tests would be carried out in a Lab accredited by NABH. Records of Health Surveillance must be kept for 30 years, including the results of and the records of Physical examination and tests. The record of exposure due to materials like Asbestos, Hard Rock Mining, Silica, Gold, Kaolin, Aluminium, Iron, Manganese, Chromium, Lead, Uranium need to be handed over to the Mining Department of the State in case the life of the mine is less than 30 years. It would be obligatory for the State Mines Departments to make arrangements for the safe and secure storage of the records including X-Ray. Only conventional X-Ray will be accepted for record purposes and not the digital one) must meet ILO criteria (17 x14 inches and of good quality). | Complied | Pre-employment medical check-up are being carried out considering the parameter as per DGMS. |

| 4 | - | 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. | Complied | Unit is maintaining record of performance indicators for workers. There is no any abnormality has been reported till date, therefore no any relief and compensation required to paid to the workers. |
|---|---|--|----------|---|
| 5 | - | The Project Proponent shall ensure that Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. | Complied | PPE's have been provided and used by the persons engaged in drilling, dozing and loading. VT is being provided as under required VT Rules. |
| 6 | - | 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 | All workers engaged are belongs to local area and they are living in their own houses, therefore temporary structure/ hutment are not required. Employees are residing in colony situated at Nimbahera Cement Plant, where all basic facilities are available. |
| 7 | • | The activities proposed in Action plan prepared for addressing the issues raised during the Public Hearing shall be completed as per the budgetary provisions | Complied | Kindly refer to the point no. 10 |

| | | | | 1 |
|----|--|---|----------|--|
| | | 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. | | |
| Х | Corporate Envi | ronment Responsibility | | |
| 1 | Corporate Environment Responsibility | The activities and budget earmarked for Corporate Environmental Responsibility (CER) as per Ministry's O. M. No. 22-65/2017-IA. II (M) dated 01.05.2018 or as proposed by EAC should be kept in a separate bank account. The activities proposed for CER shall be implemented in a time bound manner and annual report of implementation of the same along with documentary proof viz. photographs, purchase documents, latitude & longitude of infrastructure developed & road constructed needs to be submitted to Regional Office MoEF&CC annually along with audited statement. | Complied | Activities proposed for CER are being implemented in a time bound manner and annual report of implementation of the same has been submitted to Regional Office MoEF&CC for the FY: 2022-23 along with last EC compliance report. |
| 2 | Corporate Environment Responsibility | Project Proponent shall keep the funds earmarked for environmental protection measures in a separate account and refrain from diverting the same for other purposes. The Year wise expenditure of such funds should be reported to the MoEF&CC and its concerned Regional Office. | Complied | Complied with |
| XI | Miscellaneous | | | |
| 1 | Miscellaneous | The Project Proponent shall prepare digital map (land use & land cover) of the entire lease area once in five years purpose of monitoring land use pattern and submit a report to concerned Regional Office of the MoEF&CC. | Complied | Digital processing report of the entire lease area has been submitted on 02.03.2020 vide letter No.: NBH/PC- 14/C12/5905. |
| 2 | Miscellaneous | The Project Authorities should inform to the Regional Office regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work. | Complied | This is the existing captive limestone mine and Project cost after expansion is 49.29 Crores. |
| 3 | Miscellaneous | The Project Proponent shall submit six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards to the MOEF&CC & its concerned Regional Office, Central | Complied | Latest six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards were sent through email on 19.11.2022 to the MoEF&CC, CPCB and RPCB vide our letter No.: NBH/PC- |

| | | Pollution Control Board and State Pollution Control Board. | | 14/C13, dated 18/11/2022. |
|----|---------------|---|----------|---|
| 4 | Miscellaneous | A separate 'Environmental Management Cell' with suitable qualified manpower should be set-up under the control of a Senior Executive. The Senior Executive shall directly report to Head of the Organization. Adequate number of qualified Environmental Scientists and Mining Engineers shall be appointed and submit a report to RO, MoEF&CC. | Complied | A separate environmental management cell with qualified personnel is already established and has sufficient monitoring equipment's in environmental laboratory. |
| 5 | Miscellaneous | The concerned Regional Office of the MoEF&CC shall randomly monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the MoEF&CC officer(s) by furnishing the requisite data / information / monitoring reports. | Complied | Agreed, unit will extend full cooperation to the MoEF&CC officer(s) by furnishing the requisite data / information / monitoring reports. |
| 24 | Miscellaneous | The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection. | Complied | Noted & agreed. |
| 25 | Miscellaneous | Concealing factual data or submission of false/ fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attracts action under the provisions of Environment (Protection) Act, 1986. | Complied | Noted & agreed. |
| 26 | Miscellaneous | The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/High Court of Chhattisgarh and any other Court of Law relating to the subject matter. | Complied | Noted & agreed. |
| 27 | Miscellaneous | Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a | Complied | Noted & agreed. |

| | | period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010. | | |
|----|---------------|--|----------|-------|
| 28 | Miscellaneous | This issues with the approval of competent Authority. | Complied | Noted |

Yours Sincerely,

For, Karunda Limestone Mine J. K. Cement Work, Nimbahera

(Authorized Signatory)

| AMBIENT AIR | J.K. Cement Works, Nimbahera (RAJ) <u>KARUNDA LIMESTONE MINE</u> <u>MONTHLY AVERAGE AMBIENT AIR QUALITY REPORT</u> <u>October'2022 to March'2023</u> Annexure-01 <u>AMBIENT AIR QUALITY RESULTS : (ALL VALUES IN μg/M3)</u> | | | | | | | | | |
|-------------|--|-------|-----------------|-------|-------|------|-------|-----------------|--------|-------|
| | | Nea | r Mine O | ffice | | | Near | Ravana | Office | |
| Month | PM10 | PM2.5 | SO ₂ | Nox | со | PM10 | PM2.5 | SO ₂ | Nox | СО |
| Oct-22 | 57.2 | 28.7 | 12.5 | 25.9 | 590 | 51.4 | 24.5 | 13.0 | 16.2 | 676 |
| Nov-22 | 63.6 | 31.4 | 15.4 | 33.5 | 687 | 58.7 | 29.5 | 18.6 | 29.3 | 556 |
| Dec-22 | 65.7 | 30.5 | 10.5 | 26.1 | 458 | 50.7 | 20.0 | 13.4 | 27.0 | 727 |
| Jan-23 | 42.4 | 21.2 | 13.7 | 27.6 | 315 | 51.9 | 22.8 | 13.3 | 25.9 | 516 |
| Feb-23 | 56.4 | 26.4 | 12.6 | 25.2 | 556 | 61.6 | 35.6 | 14.6 | 27.2 | 453 |
| Mar-23 | 53.8 | 25.0 | 12.6 | 25.2 | 556 | 45.2 | 28.4 | 7.3 | 24.2 | 699 |
| AVERAGE | 56.5 | 27.2 | 12.9 | 27.2 | 527.0 | 53.2 | 26.8 | 13.4 | 25.0 | 604.3 |



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TEST REPORT

| Report No./ULR No. : | TC502522400003446 | Date : | 30-11-2022 |
|----------------------------|--|---|---------------------------------|
| Issued To : | M/S Karunda Limestone Mine (ML No3/03) C/o J.K. Cement Works , Nimbahera, Tehsil- Nimbahera,, District- Chittorgarh 312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Ambient Air Quality Monitoring | Date of Sample Collection/Monitori ng : | 21-11-2022 |
| Point of Collection : | Near Mine office, Karunda Mine | Date of Sample Receipt : | 24-11-2022 |
| Date of Test : | 24-11-2022 to 30-11-2022 | Sampling Plan : | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample : | - | Sample Collected By : | Krashna Murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per National Ambient Air Quality Standard, 2009 |
|------|---|----------------|--|--|
| 1 | Carbon Monoxide [microgram/m3] | 300 | TTH/AAQM/08 | 4000 |
| 2 | Nitrogen Dioxide as NO2 [microgram/m3] | 10.55 | IS 5182 (Part 6) : 2006 Reaffirmed 2017 | 80.00 |
| 3 | Particulate Matter (PM2.5) [microgram/m3] | 32.21 | IS 5182 (Part 24) : 2019 | 60.00 |
| 4 | Sulphur Dioxide [microgram/m3] | 3.59 | IS 5182 (Part 2) : 2001 RA 2017 | 80.00 |
| 5 | Particulate Matter (PM 10) [microgram/m3] | 68.13 | IS 5182 (Part 23)-2006 RA 2017 | 100.00 |

Notes :-

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Puran Mal Yogi Senior Analyst

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TEST REPORT

| Report No./ULR No. : | TC502522400003447 | Date : | 30-11-2022 |
|----------------------------|--|---|---------------------------------|
| Issued To : | M/S Karunda Limestone Mine (ML No3/03) C/o J.K. Cement Works , Nimbahera, Tehsil- Nimbahera,, District- Chittorgarh 312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Ambient Air Quality Monitoring | Date of Sample Collection/Monitori ng : | 22-11-2022 |
| Point of Collection : | Near Ravana Office ,Karunda Mine | Date of Sample Receipt : | 24-11-2022 |
| Date of Test : | 24-11-2022 to 30-11-2022 | Sampling Plan : | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample : | - | Sample Collected By : | Krashna Murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per National Ambient Air Quality Standard, 2009 |
|------|---|----------------|--|--|
| 1 | Carbon Monoxide [microgram/m3] | 280 | TTH/AAQM/08 | 4000 |
| 2 | Nitrogen Dioxide as NO2 [microgram/m3] | 11.56 | IS 5182 (Part 6) : 2006 Reaffirmed 2017 | 80.00 |
| 3 | Particulate Matter (PM2.5) [microgram/m3] | 32.35 | IS 5182 (Part 24) : 2019 | 60.00 |
| 4 | Sulphur Dioxide [microgram/m3] | 3.41 | IS 5182 (Part 2) : 2001 RA 2017 | 80.00 |
| 5 | Particulate Matter (PM 10) [microgram/m3] | 74.64 | IS 5182 (Part 23)-2006 RA 2017 | 100.00 |

Notes :-

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last Senior Analyst

Raji

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TEST REPORT

| Report No./ULR No. : | TC502522400003450 | Date : | 30-11-2022 |
|-------------------------|--|---|---------------------------------|
| Issued To : | M/S Karunda Limestone Mine (ML No3/03) C/o J.K. Cement Works , Nimbahera, Tehsil- Nimbahera,, District- Chittorgarh 312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Ambient Air Quality Monitoring | Date of Sample Collection/Monitori ng : | 21-11-2022 |
| Point of Collection | Charlia Gadia Village Karunda | Date of Sample Receipt : | 24-11-2022 |
| Date of Test : | 24-11-2022 to 30-11-2022 | Sampling Plan : | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample : | - | Sample Collected By : | Krashna Murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per National Ambient Air Quality Standard, 2009 |
|------|---|----------------|--|--|
| 1 | Carbon Monoxide [microgram/m3] | 300 | TTH/AAQM/08 | 4000 |
| 2 | Nitrogen Dioxide as NO2 [microgram/m3] | 13.61 | IS 5182 (Part 6) : 2006 Reaffirmed 2017 | 80.00 |
| 3 | Particulate Matter (PM2.5) [microgram/m3] | 33.77 | IS 5182 (Part 24) : 2019 | 60.00 |
| 4 | Sulphur Dioxide [microgram/m3] | 3.71 | IS 5182 (Part 2) : 2001 RA 2017 | 80.00 |
| 5 | Particulate Matter (PM 10) [microgram/m3] | 76.56 | IS 5182 (Part 23)-2006 RA 2017 | 100.00 |

Notes :-

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

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Pufan Mal Yogi

Senior Analyst

Raja Authorized Signatory (Report No: TC502522400003450)



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TEST REPORT

| Report No./ULR No. : | TC502522400003451 | Date : | 30-11-2022 |
|----------------------------|--|---|---------------------------------|
| Issued To : | M/S Karunda Limestone Mine (ML No3/03) C/o J.K. Cement Works , Nimbahera, Tehsil- Nimbahera,, District- Chittorgarh 312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Ambient Air Quality Monitoring | Date of Sample Collection/Monitori ng : | 22-11-2022 |
| Point of Collection : | Karunda Village | Date of Sample Receipt : | 24-11-2022 |
| Date of Test : | 24-11-2022 to 30-11-2022 | Sampling Plan : | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample : | - | Sample Collected By : | Krashna Murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per National Ambient Air Quality Standard, 2009 |
|------|---|----------------|--|--|
| 1 | Carbon Monoxide [microgram/m3] | 320 | TTH/AAQM/08 | 4000 |
| 2 | Nitrogen Dioxide as NO2 [microgram/m3] | 10.77 | IS 5182 (Part 6) : 2006 Reaffirmed 2017 | 80.00 |
| 3 | Particulate Matter (PM2.5) [microgram/m3] | 39.5 | IS 5182 (Part 24) : 2019 | 60.00 |
| 4 | Sulphur Dioxide [microgram/m3] | 3.9 | IS 5182 (Part 2) : 2001 RA 2017 | 80.00 |
| 5 | Particulate Matter (PM 10) [microgram/m3] | 74.35 | IS 5182 (Part 23)-2006 RA 2017 | 100.00 |

Notes :-

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Senior Anglystin Mal Yogi

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| Website : www.teamtesthouse.com | | | Email : director@teamtesthouse.com, | | |

Email : team.bdhead@gmail.com

Email : marketinglab@teamtesthouse.com

TEST REPORT

| Report No./ULR No. : | TC502523400000503 | Date : | 17-03-2023 |
|----------------------------------|--|--------------------------|--|
| Issued To : | M/S Karunda Limestone Mine (ML No3/03) C/o J.K. Cement Works , Nimbahera, Tehsil- Nimbahera,, District- Chittorgarh 312617 (Rajasthan), | Type of Unit : | Mines |
| Type of sample / Discipline : | Ambient Air Quality Monitoring / Chemical | In all the anti- | 16-02-2023 12:16 to 17- 02-2023 12:16 |
| Point of Collection | Near Mine office, Karunda Mine | Date of Receipt : | 08-03-2023 |
| Date of Test/Analysis : | 08-03-2023 to 17-03-2023 | Sampling Plan : | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample : | - | Sample Collected By : | Prahlad yogi |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS.

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per National Ambient Air Quality Standard, 2009 |
|------|---|----------------|--|--|
| 1 | Carbon Monoxide [microgram/m3] | 320 | TTH/AAQM/08 | 4000 |
| 2 | Nitrogen Dioxide as NO2 [microgram/m3] | 14.8 | IS 5182 (Part 6) : 2006 Reaffirmed 2017 | 80.00 |
| 3 | Particulate Matter (PM2.5) [microgram/m3] | 34.15 | IS 5182 (Part 24) : 2019 | 60.00 |
| 4 | Sulphur Dioxide [microgram/m3] | 5.1 | IS 5182 (Part 2) : 2001 RA 2017 | 80.00 |
| 5 | Particulate Matter (PM 10) [microgram/m3] | 75.14 | IS 5182 (Part 23)-2006 RA 2017 | 100.00 |

Notes :-

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TEST REPORT

| Report No./ULR No. : | TC502523400000504 | Date : | 17-03-2023 |
|----------------------------------|--|---|--|
| Issued To : | M/S Karunda Limestone Mine (ML No3/03) C/o J.K. Cement Works , Nimbahera, Tehsil- Nimbahera,, District- Chittorgarh 312617 (Rajasthan), | Type of Unit : | Mines |
| Type of sample / Discipline : | Ambient Air Quality Monitoring / Chemical | Date of Sample Collection/Monitori ng : | 16-02-2023 12:17 to 17- 02-2023 12:18 |
| Point of Collection | Near Ravana Office ,Karunda Mine | Date of Receipt : | 08-03-2023 |
| Date of Test/Analysis : | 08-03-2023 to 17-03-2023 | Sampling Plan : | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample : | - | Sample Collected By : | Prahlad yogi |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per National Ambient Air Quality Standard, 2009 |
|------|---|----------------|--|--|
| 1 | Carbon Monoxide [microgram/m3] | 360 | TTH/AAQM/08 | 4000 |
| 2 | Nitrogen Dioxide as NO2 [microgram/m3] | 14.82 | IS 5182 (Part 6) : 2006 Reaffirmed 2017 | 80.00 |
| 3 | Particulate Matter (PM2.5) [microgram/m3] | 27.79 | IS 5182 (Part 24) : 2019 | 60.00 |
| 4 | Sulphur Dioxide [microgram/m3] | 3.7 | IS 5182 (Part 2) : 2001 RA 2017 | 80.00 |
| 5 | Particulate Matter (PM 10) [microgram/m3] | 78.82 | IS 5182 (Part 23)-2006 RA 2017 | 100.00 |

Notes :-

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Email : marketinglab@teamtesthouse.com

TEST REPORT

| Report No./ULR No. : | TC502523400000507 | Date : | 17-03-2023 |
|----------------------------------|---|---|--|
| Issued To : | M/S Karunda Limestone Mine (ML No3/03) C/o J.K. Cement Works, Nimbahera, Tehsil- Nimbahera,, District- Chittorgarh 312617 (Rajasthan), | Type of Unit : | Mines |
| Type of sample / Discipline : | Ambient Air Quality Monitoring / Chemical | Date of Sample Collection/Monitori ng : | 16-02-2023 12:21 to 17- 02-2023 12:21 |
| Point of Collection | Charlia Gadia Village Karunda | Date of Receipt : | 08-03-2023 |
| Date of Test/Analysis : | 08-03-2023 to 17-03-2023 | Sampling Plan : | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample : | • | Sample Collected By : | Prahlad yogi |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per National Ambient Air Quality Standard, 2009 |
|------|---|----------------|--|--|
| 1 | Carbon Monoxide [microgram/m3] | 390 | TTH/AAQM/08 | 4000 |
| 2 | Nitrogen Dioxide as NO2 [microgram/m3] | 15.08 | IS 5182 (Part 6) : 2006 Reaffirmed 2017 | 80.00 |
| 3 | Particulate Matter (PM2.5) [microgram/m3] | 40.1 | IS 5182 (Part 24) : 2019 | 60.00 |
| 4 | Sulphur Dioxide [microgram/m3] | 5.56 | IS 5182 (Part 2) : 2001 RA 2017 | 80.00 |
| 5 | Particulate Matter (PM 10) [microgram/m3] | 80.92 | IS 5182 (Part 23)-2006 RA 2017 | 100.00 |

Notes :-

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| C-Scheme, Jaipur - 302001, Rajasthan | | | Sitapura, Jaipur - 302022, Rajasthan | | | | | |
| Phone : +91 637721 | 0064, 9414077379, | | Phone : +91 9460222039, 9460222049, | | | | | |

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

Email : director@teamtesthouse.com,

Email : marketinglab@teamtesthouse.com

TEST REPORT

| Report No./ULR No. : | TC502523400000508 | Date : | 17-03-2023 |
|----------------------------------|--|---|--|
| Issued To : | M/S Karunda Limestone Mine (ML No3/03) C/o J.K. Cement Works, Nimbahera, Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan), | Type of Unit : | Mines |
| Type of sample / Discipline : | Ambient Air Quality Monitoring / Chemical | Date of Sample Collection/Monitori ng : | 16-02-2023 12:23 to 17- 02-2023 12:23 |
| Point of Collection | Karunda Village | Date of Receipt : | 08-03-2023 |
| Date of Test/Analysis : | 08-03-2023 to 17-03-2023 | Sampling Plan : | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample : | - | Sample Collected By : | Prahlad yogi |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per National Ambient Air Quality Standard, 2009 |
|------|---|----------------|--|--|
| 1 | Carbon Monoxide [microgram/m3] | 320 | TTH/AAQM/08 | 4000 |
| 2 | Nitrogen Dioxide as NO2 [microgram/m3] | 15.46 | IS 5182 (Part 6) : 2006 Reaffirmed 2017 | 80.00 |
| 3 | Particulate Matter (PM2.5) [microgram/m3] | 35.91 | IS 5182 (Part 24) : 2019 | 60.00 |
| 4 | Sulphur Dioxide [microgram/m3] | 4.51 | IS 5182 (Part 2) : 2001 RA 2017 | 80.00 |
| 5 | Particulate Matter (PM 10) [microgram/m3] | 87.72 | IS 5182 (Part 23)-2006 RA 2017 | 100.00 |

Notes :-

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

Annexure-02

(ALL VALUES IN µg/M3)

| Month | 3 to10 Meter Distance From Drilling Operation | | | Near loading point | | | | |
|---------|--|-----------------|-------|--------------------|--------|--------|-------|--------|
| Wonth | SPM | SO ₂ | NOx | со | SPM | SO_2 | NOx | СО |
| Oct-22 | 359 | 13.4 | 30.9 | 607.2 | 301.0 | 17.7 | 19.5 | 544.2 |
| Nov-22 | 366 | 13.2 | 27.4 | 647.3 | 293.0 | 16.1 | 24.6 | 658.7 |
| Dec-22 | 338 | 11.2 | 21.2 | 658.7 | 365.0 | 12.1 | 21.5 | 773.3 |
| Jan-23 | 258 | 13.1 | 17.7 | 705.0 | 353.0 | 13.5 | 19.1 | 658.7 |
| Feb-23 | 387 | 11.9 | 17.9 | 687.4 | 432.0 | 14.3 | 17.8 | 784.7 |
| Mar-23 | 401 | 14.0 | 23.7 | 796.2 | 302.0 | 12.8 | 21.5 | 767.6 |
| AVERAGE | 351.50 | 12.80 | 23.14 | 683.62 | 341.00 | 14.40 | 20.66 | 697.87 |



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TEST REPORT

| Report No./ULR No. : | TC502522400003448 | Date : | 30-11-2022 |
|-------------------------|--|---|---------------------------------|
| Issued To : | M/S Karunda Limestone Mine (ML No3/03) C/o J.K. Cement Works , Nimbahera, Tehsil- Nimbahera,, District- Chittorgarh 312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Ambient Air Quality Monitoring | Date of Sample Collection/Monitori ng : | 21-11-2022 |
| Point of Collection : | 3-10 Meter Distance Form Drilling Point of Karunda Mine | Date of Sample Receipt : | 24-11-2022 |
| Date of Test : | 24-11-2022 to 30-11-2022 | Sampling Plan : | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample : | - | Sample Collected By : | Krashna Murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

| RESULTS |
|---------|
|---------|

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per National Ambient Air Quality Standard, 2009 |
|------|--|----------------|--|--|
| 1 | Carbon Monoxide [microgram/m3] | 320 | TTH/AAQM/08 | 4000 |
| 2 | Nitrogen Dioxide as NO2 [microgram/m3] | 11.89 | IS 5182 (Part 6) : 2006 Reaffirmed 2017 | 80.00 |
| 3 | Sulphur Dioxide [microgram/m3] | 3.21 | IS 5182 (Part 2) : 2001 RA 2017 | 80.00 |
| 4 | Suspended Particulate Matter (SPM) [microgram/m3] | 468.91 | IS 5182 (Part 4) : 1999 RA 2019 | · settingen |

Notes :-

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an Mal Yogi Senior Analyst

Authorized Signatory War (Report No: TC502522400003448)



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TEST REPORT

| Report No./ULR No. : | TC502522400003448 | Date : | 30-11-2022 |
|----------------------------|--|---|---------------------------------|
| Issued To : | M/S Karunda Limestone Mine (ML No3/03) C/o J.K. Cement Works , Nimbahera, Tehsil- Nimbahera,, District- Chittorgarh 312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Ambient Air Quality Monitoring | Date of Sample Collection/Monitori ng : | 21-11-2022 |
| Point of Collection | 3-10 Meter Distance Form Drilling Point of Karunda Mine | Date of Sample Receipt : | 24-11-2022 |
| Date of Test : | 24-11-2022 to 30-11-2022 | Sampling Plan : | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample : | • | Sample Collected By : | Krashna Murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per National Ambient Air Quality Standard, 2009 |
|------|--|----------------|--|--|
| 1 | Carbon Monoxide [microgram/m3] | 320 | TTH/AAQM/08 | 4000 |
| 2 | Nitrogen Dioxide as NO2 [microgram/m3] | 11.89 | IS 5182 (Part 6) : 2006 Reaffirmed 2017 | 80.00 |
| 3 | Sulphur Dioxide [microgram/m3] | 3.21 | IS 5182 (Part 2) : 2001 RA 2017 | 80.00 |
| 4 | Suspended Particulate Matter (SPM) [microgram/m3] | 468.91 | IS 5182 (Part 4) : 1999 RA 2019 | - |

Notes :-

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Senior Ahalystan Mal Yogi

Authorized Signatory Shwari (Report No: TC502522400003448)



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TEST REPORT

| Report No./ULR No. : | TC502522400003449 | Date : | 30-11-2022 |
|----------------------------|--|---|---------------------------------|
| Issued To : | M/S Karunda Limestone Mine (ML No3/03) C/o J.K. Cement Works , Nimbahera, Tehsil- Nimbahera,, District- Chittorgarh 312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Ambient Air Quality Monitoring | Date of Sample Collection/Monitori ng : | 22-11-2022 |
| Point of Collection : | Near Loading point of Karunda Mine | Date of Sample Receipt : | 24-11-2022 |
| Date of Test : | 24-11-2022 to 30-11-2022 | Sampling Plan : | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample : | - | Sample Collected By : | Krashna Murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

| RESULTS | | | | | |
|---------|--|----------------|--|--|--|
| S.No | Parameters | Observed Value | Testing Protocol | Limits as per National Ambient Air Quality Standard, 2009 | |
| 1 | Carbon Monoxide [microgram/m3] | 310 | TTH/AAQM/08 | 4000 | |
| 2 | Nitrogen Dioxide as NO2 [microgram/m3] | 13.44 | IS 5182 (Part 6) : 2006 Reaffirmed 2017 | 80.00 | |
| 3 | Sulphur Dioxide [microgram/m3] | 4.24 | IS 5182 (Part 2) : 2001 RA 2017 | 80.00 | |
| 4 | Suspended Particulate Matter (SPM) [microgram/m3] | 483.01 | IS 5182 (Part 4) : 1999 RA 2019 | - | |

Notes :-

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TEST REPORT

| Report No./ULR No. : | TC502523400000505 | Date : | 17-03-2023 |
|----------------------------------|--|---|---------------------------------|
| Issued To : | M/S Karunda Limestone Mine (ML No3/03) C/o J.K. Cement Works , Nimbahera, Tehsil- Nimbahera,, District- Chittorgarh 312617 (Rajasthan), | Type of Unit : | Mines |
| Type of sample / Discipline : | Fugitive Emission Quality Monitoring / Chemical | Date of Sample Collection/Monitori ng : | 16-02-2023 |
| Point of Collection | 3-10 Meter Distance Form Drilling Point of Karunda Mine | Date of Receipt : | 08-03-2023 |
| Date of Test/Analysis : | 08-03-2023 to 17-03-2023 | Sampling Plan : | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample : | - | Sample Collected By : | Prahlad yogi |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

| S.No | Parameters | Observed Value | Testing Protocol |
|------|--|----------------|--|
| 1 | Suspended Particulate Matter [microgram/m3] | 201.89 | IS 5182 (Part 4) : 1999 RA 2019 |
| 2 | Sulphur Dloxide [microgram/m3] | 3.67 | IS 5182 (Part 2) : 2001 RA 2017 |
| 3 | Oxides of Nitrogen [microgram/m3] | 14.37 | IS 5182 (Part 6) : 2006 Reaffirmed 2017 |
| 4 | Carbon Monoxide [microgram/m3] | 320 | TTH/AAQM/08 |

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Notes :-

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Senior Analyst nar

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Authorized Signatory (Report No: TC502523400000505)





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TEST REPORT

| Report No./ULR No. : | TC502523400000506 | Date : | 17-03-2023 |
|----------------------------------|--|---|---------------------------------|
| Issued To : | M/S Karunda Limestone Mine (ML No3/03) C/o J.K. Cement Works , Nimbahera, Tehsil- Nimbahera,, District- Chittorgarh 312617 (Rajasthan), | Type of Unit : | Mines |
| Type of sample / Discipline : | Fugitive Emission Quality Monitoring / Chemical | Date of Sample Collection/Monitori ng : | 17-02-2023 |
| Point of Collection | Near Loading point of Karunda Mine | Date of Receipt : | 08-03-2023 |
| Date of Test/Analysis : | 08-03-2023 to 17-03-2023 | Sampling Plan : | IS 5182:2000(Part 14)RA 2014 |
| Quantity of Sample : | - | Sample Collected By : | Prahlad yogi |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

| S.No | Parameters | Observed Value | Testing Protocol |
|------|--|----------------|--|
| 1 | Suspended Particulate Matter [microgram/m3] | 269.87 | IS 5182 (Part 4) : 1999 RA 2019 |
| 2 | Sulphur Dioxide [microgram/m3] | 3.54 | IS 5182 (Part 2) : 2001 RA 2017 |
| 3 | Oxides of Nitrogen [microgram/m3] | 14.72 | IS 5182 (Part 6) : 2006 Reaffirmed 2017 |
| 4 | Carbon Monoxide [microgram/m3] | 290 | TTH/AAQM/08 |

RESULTS

Notes :-

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Authorized Signatory | Yogi (Report No: TC502523400000506)

| Annexure-03 M/s J.K.CEMENT WORKS,NIMBAHERA | | | | | |
|--|--------------|--|--|--|--|
| Digital Water Level Recorder Report (Ground water Level) of Karunda Limestone Mine. (ML No. 3/2003) | | | | | |
| Month Telemetry BW_7 (in m)(avg.) Remarks | | | | | |
| Oct-22 | 6.12 | | | | |
| Nov-22 | 8.92 | | | | |
| Dec-22 | 10.89 | | | | |
| Jan-23 | Jan-23 12.05 | | | | |
| Feb-23 12.75 | | | | | |
| Mar-23 | 13.81 | | | | |



Annexure-04

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TEST REPORT

| Report No./ULR No. : | TC502522100002135 | Date : | 23-11-2022 |
|----------------------------|--|---|--------------------------------|
| Issued To : | M/S Karunda Limestone Mine (ML No3/03) C/o J.K. Cement Works , Nimbahera, Tehsil- Nimbahera,, District- Chittorgarh 312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Potable and Domestic Water | Date of Sample Collection/Monitori ng : | 08-11-2022 |
| Point of Collection : | Pit Water (Surface Water) | Date of Receipt : | 17-11-2022 |
| Date of Test/Analysis : | 17-11-2022 to 23-11-2022 | Sampling Plan : | IS 3025:1987(Part 1)RA 2014 |
| Quantity of Sample : | 2 Ltr | Sample Collected By : | Rakesh Sharma |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

| 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 | - Istalia |
| 3 | Turbidity [NTU] | 0.89 | IS 3025 (Part 10) : 1984 RA 2017 | 1.00 | 5.00 |
| 4 | рН | 7.92 | IS 3025 (Part 11) : 1983 RA 2017 | 6.50 - 8.50 | - |
| 5 | Hardness (total) [mg/l] | 163.46 | IS 3025 (Part 21) : 2009 RA 2019 | 200.00 | 600.00 |
| 6 | Iron [mg/I] | BDL(<0.01) | IS 3025 (Part 53) : 2003 RA 2019 | 1.0 | |
| 7 | Chloride [mg/l] | 53.81 | IS 3025 (Part 32) : 1988 RA 2019 | 250.00 | 1000.00 |
| 8 | Total Dissolved Solids [mg/l] | 290 | IS 3025 (Part 16) : 1984 RA 2017 | 500.00 | 2000.00 |
| 9 | Calcium [mg/l] | 38.46 | IS 3025 (Part 40) : 1991 RA 2019 | 75.00 | 200.00 |
| 10 | Magnesium [mg/l] | 16.36 | IS 3025 (Part 46) : 1994 RA 2019 | 30.00 | 100.00 |







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S.No Parameters **Observed Value** Testing Protocol Requirement Standard (Acceptable Permissible Limit) as per IS limits in the 10500 : 2012 absence of (RA 2018) Max. Alternate Sources as per IS 10500 : 2012 11 Fluoride [mg/l] 0.51 IS 3025 (Part 60) : 2008 1.00 1.50 RA 2019 12 Suspended Solids [mg/l] 15 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] 432 APHA 2017: 2510 B 15 M - Alkalinity [mg/l] 90 APHA: 2017, 2320 B Not Detected 16 Total coliform [MPN/100ml] IS 1622 : 1981 Shall not be detectable in 100ml Sample 17 E. Coli [MPN/100ml] IS 5887 (Part 1) : 1976 RA Not Detected Shall not be 2018 detectable in 100ml Sample

Notes :-

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Raissh Maheshwari

Authorized Signatory (Report No: TC502522100002135)





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Email : marketinglab@teamtesthouse.com

TEST REPORT

| Report No./ULR No. : | TC502522100002136 | Date : | 23-11-2022 |
|----------------------------|--|---|--------------------------------|
| Issued To : | M/S Karunda Limestone Mine (ML No3/03) C/o J.K. Cement Works , Nimbahera, Tehsil- Nimbahera,, District- Chittorgarh 312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Borewell Water | Date of Sample Collection/Monitori ng : | 08-11-2022 |
| Point of Collection | Tube Well (Mines Office) (Ground Water) | Date of Receipt : | 17-11-2022 |
| Date of Test/Analysis : | 17-11-2022 to 23-11-2022 | Sampling Plan : | IS 3025:1987(Part 1)RA 2014 |
| Quantity of Sample : | 2 Ltr | Sample Collected By : | Rakesh Sharma |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

| | | | RESULTS | | and the second |
|------|-------------------------------|----------------|-------------------------------------|--|---|
| 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 | Planet Marine |
| 3 | Turbidity [NTU] | BDL (<0.1) | IS 3025 (Part 10) : 1984 RA 2017 | 1.00 | 5.00 |
| 4 | рН | 7.88 | IS 3025 (Part 11) : 1983 RA 2017 | 6.5 to 8.5 | No relaxation |
| 5 | Hardness (total) [mg/l] | 298.08 | IS 3025 (Part 21) : 2009 RA 2019 | 200.00 | 600.00 |
| 6 | Iron [mg/l] | BDL(<0.01) | IS 3025 (Part 53) : 2003 RA 2019 | 1.0 | - |
| 7 | Chloride [mg/l] | 62.62 | IS 3025 (Part 32) : 1988 RA 2019 | 250.00 | 1000.00 |
| 8 | Total Dissolved Solids [mg/l] | 402 | IS 3025 (Part 16) : 1984 RA 2017 | 500.00 | 2000.00 |
| 9 | Calcium [mg/l] | 84.62 | IS 3025 (Part 40) : 1991 RA 2019 | 75.00 | 200.00 |
| 10 | Magnesium [mg/l] | 21.03 | IS 3025 (Part 46) : 1994 RA 2019 | 30.00 | 100.00 |







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| S.No | Parameters | Observed Value | Testing Protocol | Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max. | Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012 |
|------|----------------------------------|----------------|-------------------------------------|--|---|
| 11 | Fluoride [mg/l] | 0.56 | IS 3025 (Part 60) : 2008 RA 2019 | 1.00 | 1.50 |
| 12 | Conductivity [micromho/cm] | 635 | APHA 2017 : 2510 B | - 104 75 74 100 | - 1015 246 |
| 13 | Oil and Grease [mg/l] | BDL(<1.0) | IS 3025 (Part 39) : 1991 RA 2019 | - | - |
| 14 | Total Suspended Solids [mg/l] | 8 | IS 3025 (Part 17) : 1984 RA 2017 | - | - |
| 15 | M - Alkalinity [mg/l] | 180 | APHA : 2017, 2320 B | - | - |
| 16 | E-Coli [MPN/100ml] | Not Detected | IS 5887 (Part 1) : 1976 RA 2018 | Shall not be detectable in any 100 ml sample | - |
| 17 | Total Coliform [MPN/100ml] | Not Detected | IS 1622 : 1981 | Shall not be detectable in any 100 ml sample | - |

Notes :-

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arwal Senior Analyst

Pajer ieshwari

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TEST REPORT

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| Issued To : | M/S Karunda Limestone Mine (ML No3/03) C/o J.K. Cement Works , Nimbahera, Tehsil- Nimbahera,, District- Chittorgarh 312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Borewell Water | Date of Sample Collection/Monitori ng : | 08-11-2022 |
| Point of Collection : | Hand Pump (Near Village Charlia) (Ground Water) | Date of Receipt : | 17-11-2022 |
| Date of Test/Analysis : | 17-11-2022 to 23-11-2022 | Sampling Plan : | IS 3025:1987(Part 1)RA 2014 |
| Quantity of Sample : | 2 Ltr | Sample Collected By : | Rakesh Sharma |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max. | Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012 |
|------|-------------------------------|----------------|-------------------------------------|--|---|
| 1 | Color [Hazen] | Less than 5 | IS 3025 (Part 4) : 1983 RA 2017 | 5.00 | 15.00 |
| 2 | Odour | Agreeable | IS 3025 (Part 5) : 2018 | Agreeable | |
| 3 | Turbidity [NTU] | BDL (<0.1) | IS 3025 (Part 10) : 1984 RA 2017 | 1.00 | 5.00 |
| 4 | рН | 7.74 | IS 3025 (Part 11) : 1983 RA 2017 | 6.5 to 8.5 | No relaxation |
| 5 | Hardness (total) [mg/l] | 365.38 | IS 3025 (Part 21) : 2009 RA 2019 | 200.00 | 600.00 |
| 6 | Iron [mg/l] | BDL(<0.01) | IS 3025 (Part 53) : 2003 RA 2019 | 1.0 | - |
| 7 | Chloride [mg/l] | 50.88 | IS 3025 (Part 32) : 1988 RA 2019 | 250.00 | 1000.00 |
| 8 | Total Dissolved Solids [mg/l] | 422 | IS 3025 (Part 16) : 1984 RA 2017 | 500.00 | 2000.00 |
| 9 | Calcium [mg/l] | 107.69 | IS 3025 (Part 40) : 1991 RA 2019 | 75.00 | 200.00 |
| 10 | Magnesium [mg/l] | 23.36 | IS 3025 (Part 46) : 1994 RA 2019 | 30.00 | 100.00 |

Rajesh Maneshwa







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| S.No | Parameters | Observed Value | Testing Protocol | Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max. | Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012 |
|------|----------------------------------|----------------|-------------------------------------|--|---|
| 11 | Fluoride [mg/l] | 0.58 | IS 3025 (Part 60) : 2008 RA 2019 | 1.00 | 1.50 |
| 12 | Conductivity [micromho/cm] | 628 | APHA 2017 : 2510 B | - Hannahannan | |
| 13 | Oil and Grease [mg/l] | BDL(<1.0) | IS 3025 (Part 39) : 1991 RA 2019 | | - |
| 14 | Total Suspended Solids [mg/l] | 8 | IS 3025 (Part 17) : 1984 RA 2017 | - | - |
| 15 | M - Alkalinity [mg/l] | 210 | APHA : 2017, 2320 B | - | - |
| 16 | E-Coli [MPN/100ml] | Not Detected | IS 5887 (Part 1) : 1976 RA 2018 | Shall not be detectable in any 100 ml sample | - |
| 17 | Total Coliform [MPN/100ml] | Not Detected | IS 1622 : 1981 | Shall not be detectable in any 100 ml sample | - |

Notes :-

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Bairam Agarwal Senior Analyst

RolePaytahoshwari

Authorized Signatory (Report No: TC502522100002137)





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TEST REPORT

| Report No./ULR No. : | TC502523100000033 | Date : | 13-01-2023 |
|----------------------------------|--|---|--|
| Issued To : | M/S Karunda Limestone Mine (ML No3/03) C/o J.K. Cement Works , Nimbahera, Tehsil- Nimbahera,, District- Chittorgarh 312617 (Rajasthan), | Type of Unit : | Mines |
| Type of sample / Discipline : | Water / Chemical | Date of Sample Collection/Monitori ng : | 06-01-2023 12:41 to 06- 01-2023 12:41 |
| Point of Collection | Pit Water (Surface Water) | Date of Receipt : | 07-01-2023 |
| Date of Test/Anatysis : | 07-01-2023 to 13-01-2023 | Sampling Plan : | IS 3025:1987(Part 1)RA 2014 |
| Quantity of Sample : | 2 Ltr. | Sample Collected By : | Prahlad yogi |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

| S.No | Parameters | Observed Value | Testing Protocol | Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max. | Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012 |
|------|-------------------------------|----------------|-------------------------------------|--|---|
| 1 | Color [Hazen] | Less than 5 | IS 3025 (Part 4) : 1983 RA 2017 | 5.00 | 15.00 |
| 2 | Odour | Agreeable | IS 3025 (Part 5) : 2018 | Agreeable | Agreeable |
| 3 | Turbidity [NTU] | 0.6 | IS 3025 (Part 10) : 1984 RA 2017 | 1.00 | 5.00 |
| 4 | рН | 7.92 | IS 3025 (Part 11) : 1983 RA 2017 | 6.50 - 8.50 | 1 |
| 5 | Hardness (total) [mg/l] | 225.24 | IS 3025 (Part 21) : 2009 RA 2019 | 200.00 | 600.00 |
| 6 | Iron [mg/I] | BDL(<0.01) | IS 3025 (Part 53) : 2003 RA 2019 | 1.0 | • |
| 7 | Chloride [mg/l] | 45.01 | IS 3025 (Part 32) : 1988 RA 2019 | 250.00 | 1000.00 |
| 8 | Total Dissolved Solids [mg/l] | 376 | IS 3025 (Part 16) : 1984 RA 2017 | 500.00 | 2000.00 |
| 9 | Fluoride [mg/l] | 0.76 | IS 3025 (Part 60) : 2008 RA 2019 | 1.00 | 1.50 |
| 10 | Suspended Solids [mg/l] | 3 | IS 3025 (Part 17) : 1984 RA 2017 | - | - 11 |
| 11 | Oil and Grease [mg/l] | Less than 1 | IS 3025 (Part 39) : 1991 RA 2019 | - | - |
| 12 | Conductivity [micromho/cm] | 597 | APHA 2017 : 2510 B | | - |





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S.No Parameters Observed Value **Testing Protocol** Standard Requirement Permissible (Acceptable Limit) as per IS limits in the 10500 : 2012 absence of (RA 2018) Max. Alternate Sources as per IS 10500 : 2012 205.82 IS 3025 (Part 40) : 1991 13 Calcium Hardness [mg/l] RA 2019 14 Magnesium Hardness [mg/l] 19.41 IS 3025 (Part 46) : 1994 RA 2019 15 M - Alkalinity [mg/l] 162.12 IS 3025 (Part 23) : 1986 RA 2019

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Balram Agarwal Senior Analyst

Ray

Rajesh Maheshwari Authorized Signatory (Report No: TC502523100000033)





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TEST REPORT

| Report No./ULR No. : | TC502523100000034 | Date : | 13-01-2023 |
|----------------------------------|--|---|--|
| Issued To : | M/S Karunda Limestone Mine (ML No3/03) C/o J.K. Cement Works , Nimbahera, Tehsil- Nimbahera,, District- Chittorgarh 312617 (Rajasthan), | Type of Unit : | Mines |
| Type of sample / Discipline : | Ground Water / Chemical | Date of Sample Collection/Monitori ng : | 06-01-2023 12:44 to 06- 01-2023 12:44 |
| Point of Collection | Tube Well (Mines Office) | Date of Receipt : | 07-01-2023 |
| Date of Test/Analysis : | 07-01-2023 to 13-01-2023 | Sampling Plan : | IS 3025:1987(Part 1)RA 2014 |
| Quantity of Sample : | 2 Ltr. | Sample Collected By : | Prahlad yogi |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

| O 11. | Burnet | | RESULTS | D transit | 0 |
|-------|----------------------------------|----------------|-------------------------------------|--|---|
| S.No | Parameters | Observed Value | Testing Protocol | Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max. | Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012 |
| 1 | Color [Hazen] | Less than 5 | IS 3025 (Part 4) : 1983 RA 2017 | 5.00 | 15.00 |
| 2 | Odour | Agreeable | IS 3025 (Part 5) : 2018 | Agreeable | - |
| 3 | Turbidity [NTU] | 0.3 | IS 3025 (Part 10) : 1984 RA 2017 | 1.00 | 5.00 |
| 4 | pH | 7.94 | IS 3025 (Part 11) : 1983 RA 2017 | 6.5 to 8.5 | No relaxation |
| 5 | Hardness (total) [mg/l] | 174.76 | IS 3025 (Part 21) : 2009 RA 2019 | 200.00 | 600.00 |
| 6 | Iron [mg/i] | BDL(<0.01) | IS 3025 (Part 53) : 2003 RA 2019 | 1.0 | |
| 7 | Chloride [mg/l] | 33.27 | IS 3025 (Part 32) : 1988 RA 2019 | 250.00 | 1000.00 |
| 8 | Total Dissolved Solids [mg/l] | 320 | IS 3025 (Part 16) : 1984 RA 2017 | 500.00 | 2000.00 |
| 9 | Fluoride [mg/l] | 0.55 | IS 3025 (Part 60) : 2008 RA 2019 | 1.00 | 1.50 |
| 10 | Conductivity [micromho/cm] | 449 | APHA 2017 : 2510 B | | - |
| 11 | Oil and Grease [mg/l] | Less than 1 | IS 3025 (Part 39) : 1991 RA 2019 | - | - |
| 12 | Total Suspended Solids [mg/l] | 3 | IS 3025 (Part 17) : 1984 RA 2017 | - | • |

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| S.No | Parameters | Observed Value | Testing Protocol | Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max. | Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012 |
|------|---------------------------|----------------|-------------------------------------|--|---|
| 13 | Calcium Hardness [mg/l] | 147.75 | IS 3025 (Part 40) : 1991 RA 2019 | - | - |
| 14 | M - Alkalinity [mg/l] | 135.1 | IS 3025 (Part 23) : 1986 RA 2019 | | - |
| 15 | Magnesium Hardness [mg/l] | 27.18 | APHA:2017 : 3500-Mg-B | - | - |

Notes :-

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Balram Agarwal

Senior Analyst

Beejl

Rajesh Maheshwari Authorized Signatory (Report No: TC502523100000034)





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TEST REPORT

| Report No./ULR No. : | TC502523100000035 | Date : | 13-01-2023 |
|----------------------------------|---|--------------------------|--|
| Issued To : | M/S Karunda Limestone Mine (ML No3/03) C/o J.K. Cement Works, Nimbahera, Tehsil- Nimbahera,, District- Chittorgarh 312617 (Rajasthan), | Type of Unit : | Mines |
| Type of sample / Discipline : | Ground Water / Chemical | 1 | 06-01-2023 12:46 to 06- 01-2023 12:47 |
| Point of Collection : | Hand Pump (Near Village Charlia)., | Date of Receipt : | 07-01-2023 |
| Date of Test/Analysis : | 07-01-2023 to 13-01-2023 | Sampling Plan : | IS 3025:1987(Part 1)RA 2014 |
| Quantity of Sample : | 2 Ltr. | Sample Collected By : | Prahlad yogi |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

| S.No | Parameters | Observed Value | Testing Protocol | Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max. | Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012 |
|------|----------------------------------|----------------|-------------------------------------|--|---|
| 1 | Color [Hazen] | Less than 5 | IS 3025 (Part 4) : 1983 RA 2017 | 5.00 | 15.00 |
| 2 | Odour | Agreeable | IS 3025 (Part 5) : 2018 | Agreeable | - |
| 3 | Turbidity [NTU] | 0.4 | IS 3025 (Part 10) : 1984 RA 2017 | 1.00 | 5.00 |
| 4 | рН | 7.59 | IS 3025 (Part 11) : 1983 RA 2017 | 6.5 to 8.5 | No relaxation |
| 5 | Hardness (total) [mg/l] | 213.59 | IS 3025 (Part 21) : 2009 RA 2019 | 200.00 | 600.00 |
| 6 | Iron [mg/I] | BDL(<0.01) | IS 3025 (Part 53) : 2003 RA 2019 | 1.0 | |
| 7 | Chloride [mg/l] | 39.14 | IS 3025 (Part 32) : 1988 RA 2019 | 250.00 | 1000.00 |
| 8 | Total Dissolved Solids [mg/l] | 374 | IS 3025 (Part 16) : 1984 RA 2017 | 500.00 | 2000.00 |
| 9 | Fluoride [mg/l] | 0.68 | IS 3025 (Part 60) : 2008 RA 2019 | 1.00 | 1.50 |
| 10 | Conductivity [micromho/cm] | 551 | APHA 2017 : 2510 B | - | - |
| 11 | Oil and Grease [mg/l] | Less than 1 | IS 3025 (Part 39) : 1991 RA 2019 | - | - |
| 12 | Total Suspended Solids [mg/l] | 5 | IS 3025 (Part 17) : 1984 RA 2017 | | - |

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| S.No | Parameters | Observed Value | Testing Protocol | Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max. | Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012 |
|------|---------------------------|----------------|-------------------------------------|--|---|
| 13 | Calcium Hardness [mg/l] | 163.10 | IS 3025 (Part 40) : 1991 RA 2019 | - | - |
| 14 | M - Alkalinity [mg/l] | 208.44 | IS 3025 (Part 23) : 1986 RA 2019 | -3 | |
| 15 | Magnesium Hardness [mg/l] | 50.48 | APHA:2017 : 3500-Mg-B | - | - |

Notes :-

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Balram Agarwal

Senior Analyst

Baj

Rajesh Maheshwari Authorized Signatory (Report No: TC502523100000035)



Event Report

Velocity (mm/s)

Date/TimeVert at 13:45:26 February 20, 2023Trigger SourceGeo: 0.500 mm/sRangeGeo: 254.0 mm/sRecord Time3.0 sec at 2048 spsOperator/Setup:Operator/kdm RAJESH.mmb

Notes

| Location: | KARUNDA LIMESTONE MINE |
|------------|----------------------------|
| Client: | JK CEMENT WORKS, NIMBAHERA |
| User Name: | JK CEMENT WORKS, NIMBAHERA |
| General: | LIMESTONE MINE |

| Microphone | Linear Weighting |
|--------------|--|
| PSPL | 3.025 pa.(L) at 1.271 sec |
| ZC Freq | 8.2 Hz |
| Channel Test | Passed (Freq = 20.5 Hz Amp = 1233 mv) |

| | Tran | Vert | Long | |
|---------------------|--------|--------|--------|------|
| PPV | 2.751 | 1.805 | 2.932 | mm/s |
| PPV | 59.79 | 56.13 | 60.34 | dB |
| ZC Freq | 34 | 79 | 41 | Hz |
| Time (Rel. to Trig) | 0.285 | 0.228 | 0.351 | sec |
| Peak Acceleration | 0.079 | 0.102 | 0.076 | g |
| Peak Displacement | 0.015 | 0.004 | 0.012 | mm |
| Sensor Check | Passed | Passed | Passed | |
| Frequency | 7.3 | 7.5 | 7.5 | Hz |
| Overswing Ratio | 4.6 | 4.4 | 4.4 | |

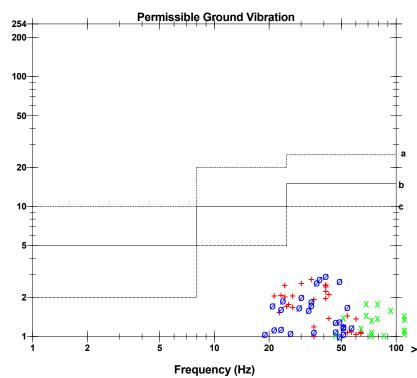
Peak Vector Sum 3.252 mm/s at 0.261 sec

Serial NumberUM19523 V 10-90GC Micromate ISEEBattery Level3.5 VoltsUnit CalibrationSeptember 7, 2022 by UES New DelhiFile NameUM19523_20230220134526.IDFW

Post Event Notes

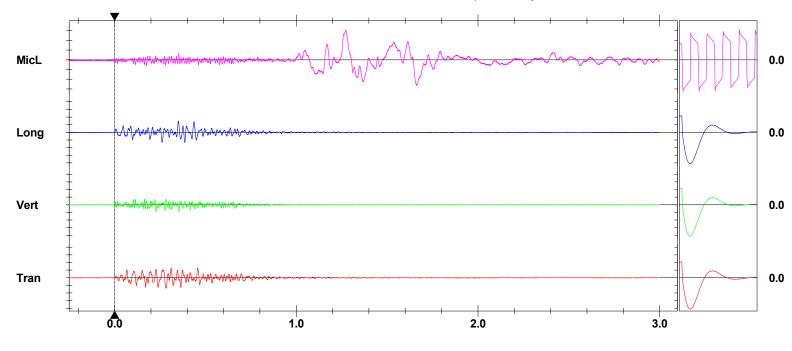
Bench-II N-pit,Face S--N, B Id=13--1 No. of holes=18, Ch./Delay=28.02Kg Vibration monitor 300 m back side of blasting face

DGMS India (A)



Tran: + Vert: x Long: ø

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



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

Sensor Check

J.K. Cement WORKS, NIMBAHERA (RAJ) <u>KARUNDA LIMESTONE MINE</u> <u>MONTHLY AMBIENT NOISE MONITORING REPORT</u> <u>October'2022 to March'2023</u>

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Annexure-06

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

| Month | Near M | ines Gate | Near Rav | ana Office |
|--------|--------|-----------|----------|------------|
| | DAY | NIGHT | DAY | NIGHT |
| Oct-22 | 66.5 | 50.9 | 62.2 | 51.6 |
| Nov-22 | 64.2 | 45.5 | 60.1 | 47.4 |
| Dec-22 | 61.2 | 48.4 | 64.8 | 52.5 |
| Jan-23 | 67.9 | 49.6 | 68.3 | 50.2 |
| Feb-23 | 65.4 | 50.8 | 63.6 | 51.9 |
| Mar-23 | 68.1 | 48.1 | 62.3 | 46.6 |



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TEST REPORT

| Report No./ULR No. : | TC502522600002314 | Date : | 30-11-2022 |
|----------------------------|--|---|-----------------|
| Issued To : | M/S Karunda Limestone Mine (ML No3/03) C/o J.K. Cement Works , Nimbahera, Tehsil- Nimbahera,, District- Chittorgarh 312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Ambient Noise Level Monitoring | Date of Sample Collection/Monitori ng : | 22-11-2022 |
| Point of Collection : | Near Mine office, Karunda Mine | Date of Sample Receipt : | 24-11-2022 |
| Date of Test : | 24-11-2022 to 30-11-2022 | Sampling Plan : | TTH/NOISE/01 |
| Quantity of Sample : | - | Sample Collected By : | Krashna Murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

| 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)] | 46.8 | IS 9989 | 65 |

Notes :-

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Rati Authorized Signatorynwan (Report No: TC502522600002314)



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TEST REPORT

| Report No./ULR No. : | TC502522600002315 | Date : | 30-11-2022 |
|----------------------------|--|---|-----------------|
| Issued To : | M/S Karunda Limestone Mine (ML No3/03) C/o J.K. Cement Works , Nimbahera, Tehsil- Nimbahera,, District- Chittorgarh 312617 (Rajasthan), | Type of Unit : | Mines |
| Type of Sample : | Ambient Noise Level Monitoring | Date of Sample Collection/Monitori ng : | 22-11-2022 |
| Point of Collection | Near Ravana Office ,Karunda Mine | Date of Sample Receipt : | 24-11-2022 |
| Date of Test : | 24-11-2022 to 30-11-2022 | Sampling Plan : | TTH/NOISE/01 |
| Quantity of Sample : | - | Sample Collected By : | Krashna Murari |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|------------------|---|
| 1 | Noise Level (Day Time): Leq [dB(A)] | 64.8 | IS 9989 | 75 |
| 2 | Noise Level (Night Time): Leq [dB(A)] | 47.6 | IS 9989 | 65 |

Notes :-

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Signatory wari TC502522600002315)





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TEST REPORT

| Report No./ULR No. : | TC502523600000387 | Date : | 17-03-2023 |
|----------------------------------|--|--------------------------|--|
| Issued To : | M/S Karunda Limestone Mine (ML No3/03) C/o J.K. Cement Works , Nimbahera, Tehsil- Nimbahera,, District- Chittorgarh 312617 (Rajasthan), | Type of Unit : | Mines |
| Type of sample / Discipline : | Ambient Noise Level Monitoring / Chemical | 1 | 16-02-2023 12:25 to 17- 02-2023 12:25 |
| Point of Collection | Near Mine office, Karunda Mine | Date of Receipt : | 08-03-2023 |
| Date of Test/Analysis : | 08-03-2023 to 17-03-2023 | Sampling Plan : | TTH/NOISE/01 |
| Quantity of Sample : | | Sample Collected By : | Prahlad yogi |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|------------------|---|
| 1 | Noise Level (Day Time): Leq [dB(A)] | 58.5 | IS 9989 | 75 |
| 2 | Noise Level (Night Time): Leq [dB(A)] | 49.4 | IS 9989 | 65 |

Notes :-

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SeniorAnalysKumar

Authorized Signator al Yogi

(Report No: TC502523600000387)





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TEST REPORT

| Report No./ULR No. : | TC502523600000388 | Date : | 17-03-2023 |
|----------------------------------|--|---|--|
| Issued To : | M/S Karunda Limestone Mine (ML No3/03) C/o J.K. Cement Works, Nimbahera, Tehsil- Nimbahera, District- Chittorgarh 312617 (Rajasthan), | Type of Unit : | Mines |
| Type of sample / Discipline : | Ambient Noise Level Monitoring / Chemical | Date of Sample Collection/Monitori ng : | 16-02-2023 12:26 to 17- 02-2023 12:26 |
| Point of Collection | Near Ravana Office ,Karunda Mine | Date of Receipt : | 08-03-2023 |
| Date of Test/Analysis : | 08-03-2023 to 17-03-2023 | Sampling Plan : | TTH/NOISE/01 |
| Quantity of Sample : | - | Sample Collected By : | Prahlad yogi |
| Unit's representative : | Mr Sunil Singh | Condition of Sample : | Fit for testing |

RESULTS

| S.No | Parameters | Observed Value | Testing Protocol | Limits as per Environment protection rules, 1986 |
|------|--|----------------|------------------|---|
| 1 | Noise Level (Day Time): Leq [dB(A)] | 61.2 | IS 9989 | 75 |
| 2 | Noise Level (Night Time): Leq [dB(A)] | 52.4 | IS 9989 | 65 |

Notes :-

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Senior Analyst Annal

mengon Authorized Signatory Mal Yogi

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