

MGR/PC-14/C12/**Through Email****Date: 18.05.2023****To,****The Director (M),**

Ministry of Environment, Forests & Climate Change

Indira Paryavaran Bhavan, JOR Bagh Road,

Near JOR bagh Metro station, New Delhi 110003.

Sub: Environmental Clearance Compliance report of Mangrol Limestone Mine (M.L. No. 26/08 Area 132 ha.) by M/s J.K. Cement Works, Mangrol, Tehsil: Nimbahera, Dist. Chittorgarh (Raj.).**Ref.:** Environment Clearance letter no. - J-11015/427/2008-IA.II (M) Dated 06 August 2010.

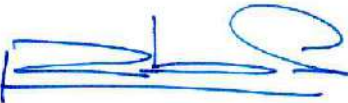
Dear Sir,

Kindly refer to the above subject matter and refer EC letter no., please find attached herewith compliance of EC for the period of **October 2022 to March 2023**.As per MoEF & CC notification no. S.O. 5845 (E) 26.11.2018 the soft copy of same has been sent through email to iro.jaipur-mefcc@gov.in, moef@nic.in, ccb.cpcb@nic.in, member-secretary@rpcb.nic.in, cpcb.bhopal@gov.in, monitoring-ec@nic.in.

We trust you will find the same in order.

Thanking you,

Yours Faithfully

For J. K. Cement Works, Mangrol**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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**JK SUPER
CEMENT**
BUILD SAFE**Manufacturing Units at :**Nimbahera, Mangrol, Gotan (Rajasthan) | Muddapur (Karnataka)
Jharli (Haryana) | Katni (M.P.) | Aligarh (U.P.) | Balasinor (Gujarat)**JK CEMENT**
WallMaxX
White Cement Wall Putty

Form for Uploading Six Monthly Compliance Report					
Proposal Details					
Proposal No.		IA/RJ/MIN/8947/2008	Project Name	Mangrol Limestone Mining Project (ML No.: 26/08, Area 132 ha. of M/s. J.K. Cement Works, located in Village - Mangrol, Tehsil - Nimbahera, District Chittorgarh, Rajasthan (Limestone 1.5 MMTPA)	
Category		A	MoEF File No.	J-11015/427/2008-IA.II (M) dated 06 th August, 2010	
Name of the Entity / Corporate Office*		M/s. J.K. Cement Works, Nimbahera, Kailash Nagar, District Chittorgarh-312617 (Rajasthan)			
Entity's PAN*		AABCJ0355R			
Entity Name as per PAN		J K CEMENT LIMITED.			
Compliance Letter/Report					
Reporting Year*		2023	Reporting Period*	October-2022 to March-2023	
Remarks (if any)		Submitting herewith the Six Monthly EC Compliance Report for the period: October-2022 to March-2023 of Mangrol Limestone Mine (ML. No.: 26/08, Area 132.00 ha.) - Limestone Production - 1.5 MMTPA.			
Details of Production and Project Area					
Date of Commencement of Project /Activity:*		13-06-2013	Project Area as Per EC Granted (In Case of Mine Lease):*		132.00 ha.
Actual Project Area (In Case of Mine Lease):*		115.23 ha.			
PRODUCTION CAPACITY:		Detail of Mines Excavation Quantity for the FY: 2022-23			
S. No.	Name of the Product	Unit	As per EC granted	Production during last Financial Year: 2021-22	Production during current Financial Year: 2022-23
1	Cement Grade Limestone	Million TPA	1.500	0.99208	0.109329
2	Subgrade Limestone	Million TPA	-	0.02580	0.00
3	Top Soil	Million TPA	-	0.012156	0.000046
Total Excavation Quantity		Million TPA	1.500	1.0299	0.109375

Mangrol Limestone Mine (M.L. No.: 26/08, Area - 132.00 ha.)
M/s. J. K. Cement Works, at Village - Mangrol, Tehsil - Nimbahera, District - Chittorgarh, Rajasthan-312617

EC Compliance Report for the period: October-22 to March-23

Mangrol Limestone Mine (ML No.: 26/08, Area 132 ha., Limestone 1.5 MMTPA, Village-Mangrol, Tehsil-Nimbahera, District-Chittorgarh, Rajasthan

Environment Clearance vide No.: J-11015/427/2008-IA.II (M) dated 06th August, 2010

A. SPECIFIC CONDITION: -				
S. No.	Condition Type	Condition Details	Self Declaration	Remarks / Reason
(i)	Statutory compliance	The project proponent shall obtain Consent to Establish and Consent to Operate from the Rajasthan State Pollution Control Board and effectively implement all the conditions stipulated therein.	Complied	<ul style="list-style-type: none"> • Consent to Establish has been obtained vide letter No.: F(Mines)/Chittorgarh/(Nimbahera) 966(1) 2011- 12/4718-4722 dated 29.09.2011. • Consent to operate has been obtained vide letter No.: F(Mines)/Chittorgarh(Nimbahera)/1863(1)/2016-2017/7040-7044 dated 25.02.2019, valid up to 31.01.2024.
(ii)	Statutory compliance	Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India in Contempt Petition (C) No.412/2004 in IA No. 833 in Writ Petition (C) No. 202 of 1995, as may be applicable to this project.	Complied	Noted.
(iii)	Miscellaneous	The environmental clearance is subject to approval of the State Land Use Department, Government of Rajasthan for diversion of agricultural land for non-agricultural use.	Complied	Private agriculture land is used only after diversion for non-agriculture use from state revenue department.
(iv)	Statutory compliance	Necessary prior permission from the Competent Authority as may be applicable for use of grazing land for mining purpose shall be obtained.	Complied	Permission for use of grazing land for mining purpose has been obtained from Revenue Department, Govt. of Rajasthan vide letter No.: Revenue/2011-12 dated 12/01/2012.
(v)	Miscellaneous	The project proponent shall develop fodder plots in the non-mineralized area in lieu of use of grazing land.	Complied	Fodder plots are being developed in our purchased land having non-mineralized zone and are falling in our mines lease area.

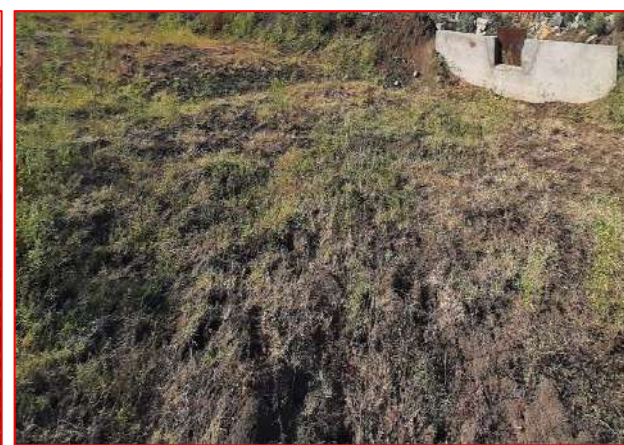
(vi)	Statutory compliance	The mining operations shall be restricted to above ground water table and it should not intersect the groundwater table. In case of working below the ground water table, prior approval of the Ministry of Environment and Forests and the Central Ground Water Authority shall be obtained, for which a detailed hydro-geological study shall be carried out.	Complied	<ul style="list-style-type: none">Water table will not be intersected during the conceptual phase/life of mine.Detail of the mine elevation, ground water table and working level are given below: <table><tr><th>S. N.</th><th>Particulars</th><th>Level (MSL)</th><th>BGL (M)</th></tr><tr><td>1</td><td>Highest Elevation</td><td>440</td><td>--</td></tr><tr><td>2</td><td>Lowest Elevation</td><td>432</td><td>--</td></tr><tr><td>3</td><td>General Ground Level</td><td>435</td><td>--</td></tr><tr><td>4</td><td>Water Table (Pre-Monsoon)</td><td>380-385</td><td>50-55</td></tr><tr><td>5</td><td>Water Table (Post-Monsoon)</td><td>395</td><td>40</td></tr><tr><td>6</td><td>Ultimate Pit Limit</td><td>395</td><td>40</td></tr></table> <p>Source: - As per approved Modified Mining Plan with PMCP dated 03.01.2019.</p>	S. N.	Particulars	Level (MSL)	BGL (M)	1	Highest Elevation	440	--	2	Lowest Elevation	432	--	3	General Ground Level	435	--	4	Water Table (Pre-Monsoon)	380-385	50-55	5	Water Table (Post-Monsoon)	395	40	6	Ultimate Pit Limit	395	40
S. N.	Particulars	Level (MSL)	BGL (M)																													
1	Highest Elevation	440	--																													
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5	Water Table (Post-Monsoon)	395	40																													
6	Ultimate Pit Limit	395	40																													
(vii)	Miscellaneous	The project proponent shall ensure that no natural watercourse and/or water resources are obstructed due to any mining operations.	Complied	There are no large channels or other sources of water in the area. The water drains out of the area following the natural slope. No natural water course are being obstructed during mining operation.																												
(viii)	Miscellaneous	The top soil shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation.	Complied	Top soil generated during FY 22-23 is 0.000046 Million TPA.																												
(ix)	Miscellaneous	The waste generated during the mining operation shall be stacked at the earmarked site and reclaimed by the plantation. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status should be submitted to the Ministry of Environment & Forests and its Regional Office, Lucknow on six monthly basis.	Complied	<ul style="list-style-type: none">Waste/mineral reject not generated during the period: Oct-22 to March-22, previously generated waste/mineral reject is stacked at designated places, levelled and being stabilized by carrying out plantation over it.Latest EC compliance report for the period: April-22 to Sept-22 has been submitted to MoEF&CC including its Regional Office located at Lucknow and the SPCB & CPCB vide letter No.: MGR/PC-14/C12 dated 18.11.2022, e-mailed on 19.11.2022.																												
(x)	Statutory compliance	The void left unfilled in the entire excavated area of 88.55 ha. shall be converted into water body. The higher benches of excavated void/mining pit shall be	Yet to be complied	Whole excavated area will be used for collection of harvested rain water. The entire excavated area will be properly fenced along the periphery and plantation to be done at the end of life of mine.																												

		terraced and plantation done to stabilize the slopes. The slope of higher benches shall be made gentler for easy accessibility by local people to use the water body. Peripheral fencing shall be carried out all along the excavated area.		
(xi)	Miscellaneous	<p>Catch drains and siltation ponds of appropriate size shall be constructed for the working pit, temporary soil, mineral dumps and waste dump(s) to arrest flow of silt and sediment directly into the agricultural fields, the Gambhiri dam, the Murlia reservoir, the Gambhiri river and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains should be regularly desilted particularly after the monsoon and maintained properly.</p> <p>Garland drains, setting tanks and check dams of appropriate size, gradient and length shall be constructed both around the mine pit and waste dump(s) to prevent run off of water and flow of sediments directly into the agricultural fields, the Gambhiri dam, the Murlia reservoir, the Gambhiri river and other water bodies and sump capacity should be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper setting of slit material. Sedimentation pits should be constructed at the corners of the garland drains and desilted at regular intervals.</p>	Complied	<ul style="list-style-type: none"> • Catch drain and siltation ponds has been constructed of appropriate size around the mining pit to prevent run off water and flow of sediments going directly into the agriculture fields/outside the mining limit and water bodies. There will be no generation of waste as prescribed in approved mining plan, hence no overburden dump will be formed. • Garland drain system of appropriate size, gradient and length has been constructed around the mining pit to prevent runoff water and flow of sediments outside the mining limit. There will be no generation of waste as mentioned in approved mining plan; hence no overburden dump will be formed.
(xii)	Miscellaneous	Dimension of the retaining wall at the toe of the waste dumps and the waste benches within the mine to check run-off and siltation should be based on the rain fall data.	Complied	Since there is no generation of waste, only top soil is generated, which is being used in plantation. Garland drain and siltation pond has been constructed to check runoff.

(xiii)	Greenbelt	Plantation shall be raised in an area of 14 ha including a 7.5 m wide green belt in the safety zone around the mining lease, reclaimed area, around water body, around waste dumps along the roads etc. by planting the native species in consultation with the local DFO/ Agriculture Department. The density of the trees should be around 1000 plants per ha. Greenbelt shall be developed all along the mine lease area in a phased manner and shall be completed within first five years.	Complied	<ul style="list-style-type: none"> • Total Plantation done in 8.50 ha. with 10828 nos. of plants till FY 2020-21. (within lease 6.48 ha with 7808 plants and outside lease 2.02 ha. with 3020 plants). • In FY 2021-22, total plantation done in 0.80 ha. within lease area is 2091 plants. • In FY 2021-22, total plantation done in 1.40 ha. in safety zone (7.5m) with 3659 plants. • In FY 2022-23, total plantation done in safety zone in 0.7 ha. with 3961 of saplings. • In FY 2022-23, total plantation done within lease in 2.01 ha. with 2829 of saplings.
(xiv)	Statutory compliance	Effective safeguard measures, such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as around crushing and screening plant, loading and unloading point and all transfer points. Extensive water sprinkling shall be carried out on haul roads. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.	Complied	<ul style="list-style-type: none"> • Regular water sprinkling done on the haul roads by water tanker which has sprinkler facility. Wet drilling system is practiced during drilling of holes. • Ambient air quality monitoring in core as well as buffer zone are being conducted on regular basis and the results are found well within the prescribed norms. • Details ambient air quality monitoring report for the period: Oct-22 to March-23 is enclosed as <u>Annexure-1</u>.
(xv)	Miscellaneous	The project authority should implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board.	Complied	Rain water is being collected in mine pit and utilized in cement plant operation.
(xvi)	Statutory compliance	Regular monitoring of ground water level and quality shall be carried out in and around the mine lease by establishing a network of existing wells and installing new piezometers during the mining operation. The periodic monitoring [(at least four times in a year - pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January); once in each season)] shall be carried out in consultation with the State Ground Water Board/Central Ground Water	Complied	<ul style="list-style-type: none"> • Periodically ground water level and quality is being monitored in and around the mining lease area as per the Environment Management Plan of approved Mining plan by establishing a network of existing wells. • We have installed 3 Nos. of manual piezometer holes & one DWLR (Digital Water Level Recorder) with telemetry system for online monitoring of ground water level. The water quality report tested by NABL lab and report is being submitted to MoEF&CC and its Regional Office, Lucknow, the CGWA and

		Authority and the data thus collected may be sent regularly to the Ministry of Environment and Forests and its Regional Office, Lucknow, the Central Ground Water Authority and the Regional Director, Central Ground Water Board. If at any stage, it is observed that the groundwater table is getting depleted due to the mining activity, necessary corrective measures shall be carried out.		the Regional Director, Central Ground Water Board on periodic basis. • Water quality analysis report for post monsoon and winter season report is enclosed as Annexure-2 .
(xvii)	Miscellaneous	Appropriate mitigative measures shall be taken to prevent pollution of the Gambhiri River and Murlia Dam in consultation with the State Pollution Control Board.	Complied	Gambhiri dam and Murlia dam is far away from the mine and control blasting is implemented with delay detonator.
(xviii)	Statutory compliance	The project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of ground water required for the project.	Complied	Renewal NOC obtained vide letter No.: CGWA/NOC/MIN/REN/2/2021/5960 and Corrigendum vide letter No.: 21-4/532/RJ/ MIN/2012-99, dated 20/05/2021, valid up to 06/04/2023. Renewal application has been submitted.
(xix)	Miscellaneous	Suitable rainwater harvesting measures on long term basis shall be planned and implemented in consultation with the Regional Director, Central Ground Water Board.	Complied	Rain water harvesting is being done through mine pit water stored in lower most benches and constructed one recharge well & 02 Nos. Check Dams to augment the water resources in the mines area.

Photographs of RWH Structures



(xx)	Miscellaneous	Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The mineral transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded.	Complied	Tipplers engaged in the mine are regularly checked once in six months for vehicle emissions and always kept under permissible limits as per the guidelines issued by the authorities. The tipplers are not being loaded above the rated capacity.
(xxi)	Miscellaneous	Controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.	Complied	<ul style="list-style-type: none"> Controlled blasting is being carried out by using delay detonator, non-electric detonator. Regular monitoring of ground vibration is being practiced. Rock breaker is used to eliminate secondary blasting. During this period mines was not in operation, whenever we operated the mines that period we are conducting the vibration monitoring.
(xxii)	Miscellaneous	The project proponent shall take all mitigative measures during the mining operation to ensure that the buildings/structures in the nearby areas shall not be affected due to blasting.	Complied	No secondary blasting is being done during the mining operation. Oversized boulders are broken by use of Hydraulic Rock breaker.
(xxiii)	Air Quality Monitoring And Preservation	Drills shall either be operated with dust extractors or equipped with water injection system.	Complied	Water injection system on wagon drill is provided to suppress dust at its source of generation and only wet drilling is being carried out as committed in environment management plan of approved mining plan.
(xxiv)	Air Quality Monitoring And Preservation	Mineral handling area shall be provided with the adequate number of high efficiency dust extraction system. Loading and unloading areas including all the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated.	Complied	Regular water spraying arrangement on haul roads and on blast material before loading is practices to control of fugitive emission.
(xxv)	Water Quality Monitoring And Preservation	Sewage treatment plant shall be installed for the colony. ETP shall also be provided for the workshop and waste water generated during the mining operation.	Complied	<ul style="list-style-type: none"> STP is already installed in the colony. No industrial waste water is being generated from mine operation and workshop waste water collected in pit and use for in dust suppression after separation of oil.

				<ul style="list-style-type: none"> Workshop waste water quality analysis report for the period: Oct-22 to March-23 is enclosed as Annexure-3.
(xxvi)	Human Health Environment	Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly.	Complied	Pre-placement initial medical examination of the workers is carried out and record being maintained. Schedule of health examination drawn in such a manner that every workman is being examined once in five years.
(xxvii)	Miscellaneous	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Complied	No construction labour is being engaged.
(xxviii)	Statutory compliance	The critical parameters such as RSPM (Particulate matter with size less than 10 microns i.e. PM ₁₀) and NO _x in the ambient air within the impact zone, peak particle velocity at 300m distance or within the nearest habitation, whichever is closer shall be monitored periodically. Further, quality of discharged water shall also be monitored [(TDS, DO, PH and Total Suspended Solids (TSS))]. The monitored data shall be uploaded on the website of the company as well as displayed on the display board at the project site at a suitable location near the main gate of the Company in public domain. The Circular No. J-20012/1/2006-IA.II(M) dated 27.05.2009 issued by Ministry of Environment and Forests, which is available on the website of the Ministry www.envfor.nic.in shall also be referred in this regard for its compliance.	Complied	Critical parameters are being measured periodically during ambient air monitoring. No industrial waste water is being generated during mines operation and workshop waste water collected in pit and use in dust suppression after oil separation. Mines key parameters are being uploaded on our company website www.jkcement.com/environmental-complaine in every quarterly basis.

(xxix)	Statutory compliance	A Final Mine Closure Plan along with details of Corpus Fund should be submitted to the Ministry of Environment and Forests 5 years in advance of final mine closure for approval.	Yet to be complied	Progressive Mine Closure Plan is prepared along with approved Mining plan. There is no plan of final mine closure in first five year of Mining Plan.
B.	General Conditions:			
(i)	Statutory compliance	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment, Forest and Climate Change.	Complied	Mining is being done in accordance with approved Mining Plan.
(ii)	Statutory compliance	No change in the calendar plan including excavation, quantum of mineral limestone and waste should be made.	Complied	Mining is being done in accordance with approved Mining Plan.
(iii)	Statutory compliance	Conservation measures for protection of flora and fauna in the core and buffer zone should be drawn up in consultation with the local forest and wildlife department and effectively implemented.	Complied	<p>Combined WLCP has been prepared for 5 Nos. of captive Limestone Mines and 2 Nos. of Integrated Cement Plant of J K Cement Ltd are situated within 10 Km radius in Tehsil Nimbahera, Chittorgarh District.</p> <p>Wildlife Conservation Plan (WCP) has been prepared for 6 Schedule-I Species found in the buffer area during the survey i.e.:</p> <ul style="list-style-type: none"> a) Pavocristatus (Indian Peafowl), b) Pantherapadusfusca (Indian Leopard), c) Prionailurusrubiginosus (Rusty-Spotted Cat), d) Canis lupus pallipes (Indian Wolf), e) Varanusbengalensis (Indian Monitor Lizard) f) Gyps indicus/Gyps bengalensis (Indian Vulture) <p>Wild life conservation plan has been forwarded by the DFO, Chittorgarh to Divisional Chief Conservator of Forest vide letter No.: F(5) Survey/UVS/2021-22/4089 dated 13.07.2021 and accordingly 20% amount of Rs. 57.07 Lakh deposited to DFO - Chittorgarh against the total amount of WCP of Rs. 285.30/- Cr in July-2021.</p>
(iv)	Air Quality Monitoring And Preservation	Four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for RSPM (Particulate matter with size less than	Complied	Ambient Air Quality Monitoring stations has been established in consultation with the State Pollution Control Board vide letter no. MGR/PC/28/1600 on dated 4/10/2013.

		10 micron i.e., PM10) and NOx monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board.		
(v)	Air Quality Monitoring And Preservation	Data on ambient air quality RSPM (Particulate matter with size less than 10 micron i.e., PM10) & NOx should be regularly submitted to the Ministry of Environment and Forests including its Regional Office located at Lucknow and the State Pollution Control Board/ Central Pollution Control Board once in six months.	Complied	Monitoring data is regularly submitting to the concerned offices. Latest EC compliance report for the period: April-22 to Sept-22 has been submitted to MoEF&CC including its Regional Office located at Lucknow and the SPCB & CPCB vide letter No.: MGR/PC-14/C12 dated 18.11.2022, e-mailed on 19.11.2022.
(vi)	Air Quality Monitoring And Preservation	Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.	Complied	<ul style="list-style-type: none"> • Water spraying arrangement on haul roads, loading & unloading point and transfer points has been provided. Green belt developed in and around mine lease area to control fugitive dust emission. • During this period mines was not in operation, whenever we operated the mines that period we are conducting the fugitive monitoring.
(vii)	Noise and vibration monitoring and prevention	Measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs / muffs.	Complied	<ul style="list-style-type: none"> • Regular maintenance (including cabin) of HEMM being done to keep noise level within the specified limits. • Workers engaged in operation of HEMM etc. are provided with ear plugs. • Detail noise level monitoring report of ambient & work zone area for the period: Oct-22 to March-23 is enclosed as <u>Annexure.-4.</u>
(viii)	Water Quality Monitoring And Preservation	Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluents.	Complied	No industrial waste water is generating during mine operation and workshop waste water collected in pit and use in dust suppression. Trapped oil and grease has safely disposed by co-processing in own cement kiln.

(ix)	Human Health Environment	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. Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.	Complied	Protective respiratory devices are provided to every personal working in dusty area. Training and information on safety and health aspects is imparted. Occupational health surveillance program of the workers is being undertaken periodically. Environment awareness program have conducted time to time in plant, mines & near villages.
(x)	Statutory compliance	A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.	Complied	JKCL have well equipped Environment Laboratory with suitable qualified personnel.
(xi)	Miscellaneous	The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry of Environment and Forests and its Regional Office located at Lucknow.	Complied	Separate fund is kept for environment protection measures and report is being sent regularly to the concerned authority.
(xii)	Miscellaneous	The project authorities should be inform to the Regional Office located at Lucknow regarding data of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	Complied	Total project cost of mine is 44.0662 Cr. and commercial date of production is 13.06.2013 of this mine.
(xiii)	Miscellaneous	The Regional Office of this Ministry located at Lucknow shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data/information/ monitoring reports.	Complied	Noted and will extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data/information/ monitoring reports.
(xiv)	Statutory compliance	The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results	Complied	<ul style="list-style-type: none"> • Six Monthly EC Compliance Reports has been submitted to all concern authorities.

		of monitored data (both in hard copies as well as by e-mail) to the Ministry of Environment and Forests, its Regional Office located at Lucknow, the respective Zonal Office of Central Pollution Control Board the State Pollution Control Board. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional office of the Ministry of Environment and Forests, Lucknow, the respective Zonal Office of Central Pollution Control Board and the State Pollution Control Board.		<ul style="list-style-type: none"> • Latest EC compliance report for the period: April-22 to Sept-22 has been submitted to MoEF&CC including its Regional Office located at Lucknow and the SPCB & CPCB vide letter No.: MGR/PC-14/C12 dated 18.11.2022, e-mailed on 19.11.2022 and also uploaded on company website: https://www.jkcement.com/environmental-compliance
(xv)	Miscellaneous	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad, Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	Complied	EC copy has been submitted to concerned Panchayat, Zila Parisad, Municipal Corporation and Urban Local Body. EC letter is also uploaded on our company website in public domain.
(xvi)	Miscellaneous	The State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industry Centre and the Collector's Office/ Tehsildar's Office for 30 days.	Complied	This condition not related to us.
(xvii)	Miscellaneous	The environmental statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be	Complied	Environment Statement Report of FY 2021-22 has submitted vide letter No.: MGR/PC/ESR/21/639 dated 19.09.2022.

		sent to the Regional Office of the Ministry of Environment and Forests, Lucknow by e-mail.		
(xviii)	Miscellaneous	The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at website of the Ministry of Environment and Forests at http://envfor.nic.in and a copy of the same should be forwarded to the Regional Office of this Ministry located at Lucknow.	Complied	Implemented and the necessary information already sent to the concerned authority.

Yours sincerely,

For, Mangrol Limestone Mines
J. K. Cement Works, Mangrol



(Authorized Signatory)

J.K.CEMENT WORKS, MANGROL
TEHSIL: NIMBAHERA ,CHITTORGARH (RAJ.)

Annexure-01

AIR QUALITY MONITORING REPORT FOR PHERIPHARY OF MANGROL LIMESTONE MINE

MONTHLY AVERAGE AMBIENT AIR QUALITY REPORT

October'2022 to March'2023

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

Mangrol Mines

Sr.No.	Month	Towards Factory Gate					Near Ravana Office				
		PM10	PM2.5	SO ₂	Nox	CO	PM10	PM2.5	SO ₂	Nox	CO
1	Oct-22	47.5	22.0	7.3	15.8	475	41.8	19.1	8.8	11.6	487
2	Nov-22	44.1	19.5	6.6	13.6	435	38.6	19.0	11.5	14.7	544
3	Dec-22	57.0	20.5	9.7	24.2	779	42.6	15.3	12.5	17.5	653
4	Jan-23	56.0	31.8	15.8	27.0	836	58.5	18.6	19.1	23.1	853
5	Feb-23	54.8	28.7	15.8	27.0	687	67.0	32.7	11.4	24.6	590
6	Mar-23	50.1	24.0	12.6	26.3	567	57.9	29.5	12.9	21.4	412
Quarterly Average		51.6	24.4	11.3	22.3	630	51.1	22.4	12.7	18.8	590



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

TEST REPORT

Report No./ULR No. :	TC502522400003519	Date :	01-12-2022
Issued To :	M/S Mangrol Limestone Mine (ML No.-26/08) C/o J. K. Cement Works Tehsil- Nimbahera,, District- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	25-11-2022
Point of Collection :	Towards Factory Gate, Mangrol Mine	Date of Receipt :	28-11-2022
Date of Test/Analysis :	28-11-2022 to 01-12-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Carbon Monoxide [microgram/m3]	300	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	12.81	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Particulate Matter (PM2.5) [microgram/m3]	36.82	IS 5182 (Part 24) : 2019	60.00
4	Sulphur Dioxide [microgram/m3]	1.94	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM 10) [microgram/m3]	73.49	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Rajan

Senior Analyst

Rajan Mal Yogi

Rajan

Authorized Signatory

(Report No: TC502522400003519)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522400003520	Date :	01-12-2022
Issued To :	M/S Mangrol Limestone Mine (ML No.-26/08) C/o J. K. Cement Works Tehsil- Nimbahera,, District- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	26-11-2022
Point of Collection :	Near Ravana Office ,Mangrol Mine	Date of Receipt :	28-11-2022
Date of Test/Analysis :	28-11-2022 to 01-12-2022	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]	13.15	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]	2.92	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM 10) [microgram/m3]	71.85	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: TC502522400003520)



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

TEST REPORT

Report No./ULR No. :	TC502522400003523	Date :	01-12-2022
Issued To :	M/S Mangrol Limestone Mine (ML No.-26/08) C/o J. K. Cement Works Tehsil- Nimbahera,, District- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	25-11-2022
Point of Collection :	Tie Village, Mangrol	Date of Receipt :	28-11-2022
Date of Test/Analysis :	28-11-2022 to 01-12-2022	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]	270	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	15.1	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Particulate Matter (PM2.5) [microgram/m3]	33.71	IS 5182 (Part 24) : 2019	60.00
4	Sulphur Dioxide [microgram/m3]	3.26	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM 10) [microgram/m3]	71.55	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Puran Mal Yogi

Senior Analyst

Authorized Signatory
Rajesh Maneshwari
(Report No: TC502522400003523)



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TEST REPORT

Report No./ULR No. :	TC502522400003524	Date :	01-12-2022
Issued To :	M/S Mangrol Limestone Mine (ML No.-26/08) C/o J. K. Cement Works Tehsil- Nimbahera,, District- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	26-11-2022
Point of Collection :	Mangrol Village	Date of Receipt :	28-11-2022
Date of Test/Analysis :	28-11-2022 to 01-12-2022	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]	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]	33.19	IS 5182 (Part 24) : 2019	60.00
4	Sulphur Dioxide [microgram/m3]	2.26	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM 10) [microgram/m3]	70.81	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Purnan Mal Yogi
Senior Analyst

Rajendra Kumar Swaraj
Authorized Signatory
(Report No: TC502522400003524)



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TEST REPORT

Report No./ULR No. :	TC502523400000488	Date :	10-03-2023
Issued To :	M/S Mangrol Limestone Mine (ML No.-26/08) C/o J. K. Cement Works Tehsil- Nimbaheera,, District- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	09-02-2023 12:28 to 10-02-2023 12:28
Point of Collection :	Towards Factory Gate, Mangrol Mine	Date of Receipt :	04-03-2023
Date of Test/Analysis :	04-03-2023 to 10-03-2023	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]	15.69	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Particulate Matter (PM2.5) [microgram/m3]	39.11	IS 5182 (Part 24) : 2019	60.00
4	Sulphur Dioxide [microgram/m3]	5.05	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM 10) [microgram/m3]	76.24	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Purni Mal yogi
Senior Analyst

Rajesh Maneshwar
Authorized Signatory
(Report No: TC502523400000488)



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TEST REPORT

Report No./ULR No. :	TC502523400000489	Date :	10-03-2023
Issued To :	M/S Mangrol Limestone Mine (ML No.-26/08) C/o J. K. Cement Works Tehsil- Nimbahera,, District- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	09-02-2023 12:29 to 10-02-2023 12:29
Point of Collection :	Near Ravana Office ,Mangrol Mine	Date of Receipt :	04-03-2023
Date of Test/Analysis :	04-03-2023 to 10-03-2023	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]	330	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	14.93	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Particulate Matter (PM2.5) [microgram/m3]	32.76	IS 5182 (Part 24) : 2019	60.00
4	Sulphur Dioxide [microgram/m3]	5.5	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM 10) [microgram/m3]	81.99	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Purandhar

Senior Analyst

Rajesh

Authorized Signatory

(Report No: TC502523400000489)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523400000490	Date :	10-03-2023
Issued To :	M/S Mangrol Limestone Mine (ML No.-26/08) C/o J. K. Cement Works Tehsil- Nimbahera,, District- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	09-02-2023 12:30 to 10-02-2023 12:31
Point of Collection :	Tie Village, Mangrol	Date of Receipt :	04-03-2023
Date of Test/Analysis :	04-03-2023 to 10-03-2023	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]	340	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	14.37	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Particulate Matter (PM2.5) [microgram/m3]	36.27	IS 5182 (Part 24) : 2019	60.00
4	Sulphur Dioxide [microgram/m3]	5.25	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM 10) [microgram/m3]	75.22	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Prahlad Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523400000490)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523400000491	Date :	10-03-2023
Issued To :	M/S Mangrol Limestone Mine (ML No.-26/08) C/o J. K. Cement Works Tehsil- Nimbaheera,, District- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	09-02-2023 12:33 to 10-02-2023 12:33
Point of Collection :	Mangrol Village	Date of Receipt :	04-03-2023
Date of Test/Analysis :	04-03-2023 to 10-03-2023	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]	350	TTH/AAQM/08	4000
2	Nitrogen Dioxide as NO2 [microgram/m3]	16.33	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
3	Particulate Matter (PM2.5) [microgram/m3]	29.64	IS 5182 (Part 24) : 2019	60.00
4	Sulphur Dioxide [microgram/m3]	5.65	IS 5182 (Part 2) : 2001 RA 2017	80.00
5	Particulate Matter (PM 10) [microgram/m3]	72.98	IS 5182 (Part 23)-2006 RA 2017	100.00

Notes :-

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Puran Mar Yogi
Senior Analyst

Ramesh Chandra Swain
Authorized Signatory
(Report No: TC502523400000491)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522100002141	Date :	23-11-2022
Issued To :	M/S Mangrol Limestone Mine (ML No.-26/08) C/o J. K. Cement Works Tehsil- Nimbahera,, District- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Potable and Domestic Water	Date of Sample Collection/Monitoring :	07-11-2022
Point of Collection :	Pit Water - (Surface Water)	Date of Receipt :	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 :	Mahaveer singh Gurjar
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	10	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Turbidity [NTU]	3.25	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
4	pH	7.76	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
5	Hardness (total) [mg/l]	142.31	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]	43.05	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
8	Total Dissolved Solids [mg/l]	338	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
9	Calcium [mg/l]	100	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00
10	Magnesium [mg/l]	25.7	IS 3025 (Part 46) : 1994 RA 2019	30.00	100.00

Rajesh Maheshwari
Rajesh Maheshwari



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S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
11	Fluoride [mg/l]	0.45	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
12	Suspended Solids [mg/l]	23	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]	508	APHA 2017 : 2510 B	-	-
15	M - Alkalinity [mg/l]	90	APHA : 2017, 2320 B	-	-
16	Total coliform [MPN/100ml]	Not Detected	IS 1622 : 1981	Shall not be detectable in 100ml Sample	-
17	E. Coli [MPN/100ml]	Not Detected	IS 5887 (Part 1) : 1976 RA 2018	Shall not be detectable in 100ml Sample	-

Notes :-

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Balram
Balram Agarwal
Senior Analyst

Rajesh
Rajesh Maheshwari
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TEST REPORT

Report No./ULR No. :	TC502522100002142	Date :	23-11-2022
Issued To :	M/S Mangrol Limestone Mine (ML No.-26/08) C/o J. K. Cement Works Tehsil- Nimbahera,, District- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Borewell Water	Date of Sample Collection/Monitoring :	07-11-2022
Point of Collection :	Tube Well in Plantation area (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 :	Mahaveer singh Gurjar
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Turbidity [NTU]	BDL (<0.1)	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
4	pH	7.31	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]	73.38	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
8	Total Dissolved Solids [mg/l]	507	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
9	Calcium [mg/l]	73.08	IS 3025 (Part 40) : 1991 RA 2019	75.00	200.00
10	Magnesium [mg/l]	28.04	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]	0.70	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
12	Conductivity [micromho/cm]	802	APHA 2017 : 2510 B	-	-
13	Oil and Grease [mg/l]	BDL(<1.0)	IS 3025 (Part 39) : 1991 RA 2019	-	-
14	Total Suspended Solids [mg/l]	4	IS 3025 (Part 17) : 1984 RA 2017	-	-
15	M - Alkalinity [mg/l]	240	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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Balram Agarwal
Senior Analyst

Rajesh
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TEST REPORT

Report No./ULR No. :	TC502522100002143	Date :	23-11-2022
Issued To :	M/S Mangrol Limestone Mine (ML No.-26/08) C/o J. K. Cement Works Tehsil- Nimbahera,, District- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Borewell Water	Date of Sample Collection/Monitoring :	07-11-2022
Point of Collection :	Tube Well in Gopalji Ag. Land (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 :	Mahaveer singh Gurjar
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Turbidity [NTU]	BDL (<0.1)	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
4	pH	7.75	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
5	Hardness (total) [mg/l]	336.54	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]	83.17	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
8	Total Dissolved Solids [mg/l]	537	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]	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 (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]	0.72	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
12	Conductivity [micromho/cm]	860	APHA 2017 : 2510 B	-	-
13	Oil and Grease [mg/l]	BDL(<1.0)	IS 3025 (Part 39) : 1991 RA 2019	-	-
14	Total Suspended Solids [mg/l]	5	IS 3025 (Part 17) : 1984 RA 2017	-	-
15	M - Alkalinity [mg/l]	248	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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Rajesh
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TEST REPORT

Report No./ULR No. :	TC502523100000036	Date :	13-01-2023
Issued To :	M/S Mangrol Limestone Mine (ML No.-26/08) C/o J. K. Cement Works Tehsil- Nimbahera,, District- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Water / Chemical	Date of Sample Collection/Monitoring :	06-01-2023 14:48 to 06-01-2023 14:48
Point of Collection :	Pit Water - (Surface Water)..	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

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	Agreeable
3	Turbidity [NTU]	BDL (<0.1)	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
4	pH	7.67	IS 3025 (Part 11) : 1983 RA 2017	6.50 - 8.50	-
5	Hardness (total) [mg/l]	264.08	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]	46.96	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
8	Total Dissolved Solids [mg/l]	418	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	Suspended Solids [mg/l]	5	IS 3025 (Part 17) : 1984 RA 2017	-	-
11	Oil and Grease [mg/l]	Less than 1	IS 3025 (Part 39) : 1991 RA 2019	-	-
12	Conductivity [micromho/cm]	623	APHA 2017 : 2510 B	-	-

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S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible limits in the absence of Alternate Sources as per IS 10500 : 2012
13	Calcium Hardness [mg/l]	233.00	IS 3025 (Part 40) : 1991 RA 2019	-	-
14	Magnesium Hardness [mg/l]	31.06	IS 3025 (Part 46) : 1994 RA 2019	-	-
15	M - Alkalinity [mg/l]	127.38	IS 3025 (Part 23) : 1986 RA 2019	-	-

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TEST REPORT

Report No./ULR No. :	TC502523100000037	Date :	13-01-2023
Issued To :	M/S Mangrol Limestone Mine (ML No.-26/08) C/o J. K. Cement Works Tehsil- Nimbaheera,, District- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water / Chemical	Date of Sample Collection/Monitoring :	06-01-2023 14:49 to 06-01-2023 14:49
Point of Collection :	Tube Well in Plantation Area..	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

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Turbidity [NTU]	0.5	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
4	pH	7.76	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
5	Hardness (total) [mg/l]	252.43	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]	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]	0.64	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
10	Conductivity [micromho/cm]	598	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]	229.12	IS 3025 (Part 40) : 1991 RA 2019	-	-
14	M - Alkalinity [mg/l]	131.24	IS 3025 (Part 23) : 1986 RA 2019	-	-
15	Magnesium Hardness [mg/l]	23.30	APHA:2017 : 3500-Mg-B	-	-

Notes :-

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TEST REPORT

Report No./ULR No. :	TC502523100000038	Date :	13-01-2023
Issued To :	M/S Mangrol Limestone Mine (ML No.-26/08) C/o J. K. Cement Works Tehsil- Nimbahera,, District- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ground Water / Chemical	Date of Sample Collection/Monitoring :	06-01-2023 14:50 to 06-01-2023 14:50
Point of Collection :	Tube Well in Gopalji Ag. Land..	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

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
1	Color [Hazen]	Less than 5	IS 3025 (Part 4) : 1983 RA 2017	5.00	15.00
2	Odour	Agreeable	IS 3025 (Part 5) : 2018	Agreeable	-
3	Turbidity [NTU]	0.3	IS 3025 (Part 10) : 1984 RA 2017	1.00	5.00
4	pH	7.68	IS 3025 (Part 11) : 1983 RA 2017	6.5 to 8.5	No relaxation
5	Hardness (total) [mg/l]	213.59	IS 3025 (Part 21) : 2009 RA 2019	200.00	600.00
6	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019	1.0	-
7	Chloride [mg/l]	45.01	IS 3025 (Part 32) : 1988 RA 2019	250.00	1000.00
8	Total Dissolved Solids [mg/l]	386	IS 3025 (Part 16) : 1984 RA 2017	500.00	2000.00
9	Fluoride [mg/l]	0.61	IS 3025 (Part 60) : 2008 RA 2019	1.00	1.50
10	Conductivity [micromho/cm]	588	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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Email : marketinglab@teamtesthouse.com

S.No	Parameters	Observed Value	Testing Protocol	Requirement (Acceptable Limit) as per IS 10500 : 2012 (RA 2018) Max.	Standard Permissible Limit in the absence of alternative Source as per IS 10500 : 2012
13	Calcium Hardness [mg/l]	194.17	IS 3025 (Part 40) : 1991 RA 2019	-	-
14	M - Alkalinity [mg/l]	127.38	IS 3025 (Part 23) : 1986 RA 2019	-	-
15	Magnesium Hardness [mg/l]	19.41	APHA:2017 : 3500-Mg-B	-	-

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Balram
Balram Agarwal
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523100000038)



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TEST REPORT

Report No./ULR No. :	TC502522200002740	Date :	01-12-2022
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Cement Plant
Type of Sample :	Liquid Effluents	Date of Sample Collection/Monitoring :	22-11-2022
Point of Collection :	Mangrol Mine Workshop Water	Date of Receipt :	24-11-2022
Date of Test/Analysis :	24-11-2022 to 30-11-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr.	Sample Collected By :	Mahaveer singh Gurjar
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	28	APHA.2017:2540-D	100
2	Biochemical Oxygen Demand (BOD) [mg/l]	16.36	APHA 2017:5210-B	30
3	Chloride as Cl [mg/l]	126.15	APHA 2017 : 4500- Cl- B	-
4	Chemical Oxygen Demand (COD) [mg/l]	118.66	APHA:2017 : 5220-C	250
5	pH	7.96	APHA:2017 : 4500 H+B	5.5 - 9.0
6	Phosphate (total) as P [mg/l]	BDL (<0.1)	APHA 2017 : 4500-P C	5
7	Sulphate [mg/l]	79.82	APHA:2017 : 4500-SO4-E	Not Specified
8	Chromium Total [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	2.0
9	Copper [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	3.0
10	Iron [mg/l]	0.04	APHA :2017 :3111- B	3.0
11	Zinc [mg/l]	0.06	APHA :2017 :3111- B	5.0
12	Oil & Grease [mg/l]	5	APHA 2017 : 5520 B	10
13	Free available chlorine [mg/l]	BDL (<0.1)	APHA 2017 : 4500- Cl- B	0.5

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Senior Analyst


Authorized Signatory



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TEST REPORT

Report No./ULR No. :	TC502523200000488	Date :	10-03-2023
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	25-02-2023
Point of Collection :	Mangrol Mine Workshop Water	Date of Receipt :	03-03-2023
Date of Test/Analysis :	03-03-2023 to 10-03-2023	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 ltr.	Sample Collected By :	Prahlad yogi
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	26	APHA.2017:2540-D	100
2	Biochemical Oxygen Demand (BOD) [mg/l]	10.67	APHA 2017:5210-B	30
3	Chloride as Cl [mg/l]	152.75	APHA 2017 : 4500- Cl- B	-
4	Chemical Oxygen Demand (COD) [mg/l]	81.6	APHA:2017 : 5220-C	250
5	pH	7.41	APHA:2017 : 4500 H+B	5.5 - 9.0
6	Phosphate (total) as P [mg/l]	BDL (<0.1)	APHA 2017 : 4500-P C	5
7	Sulphate [mg/l]	84.67	APHA:2017 : 4500-SO4-E	Not Specified
8	Chromium Total [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	2.0
9	Copper [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	3.0
10	Iron [mg/l]	0.06	APHA :2017 :3111- B	3.0
11	Zinc [mg/l]	0.08	APHA :2017 :3111- B	5.0
12	Oil & Grease [mg/l]	3	APHA 2017 : 5520 B	10

Notes :-

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Sunil kumar
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523200000488)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	200000488	Date :	10-03-2023
Issued To :	M/S J.K. Cement Works, Nimbahera Tehsil - Nimbahera, Dist.- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	25-02-2023
Point of Collection :	Mangrol Mine Workshop Water	Date of Receipt :	03-03-2023
Date of Test/Analysis :	03-03-2023 to 10-03-2023	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 ltr.	Sample Collected By :	Prahlad yogi
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

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

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Sunil kumar
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 200000488)

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

Annexure-04

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

Month	Towards Factory Gate		Near Ravana Office	
	DAY	NIGHT	DAY	NIGHT
Oct-22	58.3	41.4	54.2	43.8
Nov-22	61.2	43.9	58.6	45.9
Dec-22	55.4	45.4	50.2	47.1
Jan-23	58.6	46.6	55.3	45.3
Feb-23	60.3	49.6	62.6	48.3
Mar-23	62.2	49.8	60.9	45.2



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522600002351	Date :	01-12-2022
Issued To :	M/S Mangrol Limestone Mine (ML No.-26/08) C/o J. K. Cement Works Tehsil- Nimbahera,, District- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	26-11-2022
Point of Collection :	Towards Factory Gate, Mangrol Mine	Date of Receipt :	28-11-2022
Date of Test/Analysis :	28-11-2022 to 01-12-2022	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

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	61.9	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	45.8	IS 9989	65

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: TC502522600002351)



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TEST REPORT

Report No./ULR No. :	TC502522600002352	Date :	01-12-2022
Issued To :	M/S Mangrol Limestone Mine (ML No.-26/08) C/o J. K. Cement Works Tehsil- Nimbahera,, District- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	26-11-2022
Point of Collection :	Near Ravana Office ,Mangrol Mine	Date of Receipt :	28-11-2022
Date of Test/Analysis :	28-11-2022 to 01-12-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Krashtra Murari
Unit's representative :	Mr Sunil Singh	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	64.1	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	48.7	IS 9989	65

Notes :-

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Puran

Senior Analyst **Puran Mal Yogi**

Rajesh
Rajesh Maneshwar
Authorized Signatory

(Report No: TC502522600002352)



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TEST REPORT

Report No./ULR No. :	TC502523600000377	Date :	10-03-2023
Issued To :	M/S Mangrol Limestone Mine (ML No.-26/08) C/o J. K. Cement Works Tehsil- Nimbahera,, District- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	09-02-2023 12:35 to 10-03-2023 12:35
Point of Collection :	Towards Factory Gate, Mangrol Mine	Date of Receipt :	04-03-2023
Date of Test/Analysis :	04-03-2023 to 10-03-2023	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)]	62.3	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	54.2	IS 9989	65

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523600000377)



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TEST REPORT

Report No./ULR No. :	TC502523600000378	Date :	10-03-2023
Issued To :	M/S Mangrol Limestone Mine (ML No.-26/08) C/o J. K. Cement Works Tehsil- Nimbaheera,, District- Chittorgarh (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	09-02-2023 12:36 to 10-03-2023 12:36
Point of Collection :	Near Ravana Office ,Mangrol Mine	Date of Receipt :	04-03-2023
Date of Test/Analysis :	04-03-2023 to 10-03-2023	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)]	56.4	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	48.8	IS 9989	65

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(Report No: TC502523600000378)