

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

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MGR/PC-14/C14/C11/

Through Email

Date: 18.11.2023

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

Sub: Submission of Six-monthly Environmental Clearance Condition Wise Compliance report of J.K. Cement Works, Mangrol, Tilakhera Limestone Mine (ML No: 07/97, ML area 299 20 Ha.)

Ref.: EC letter no. - J-11015/25/2011-IA. II(M) dated. 03-03-2021

Dear Sir.

Please be informed that with reference to the above subject, we J.K. Cememt works, Mangrol located at Village Mangrol, Tehsil Nimbahera, District Chittorgarh, State Rajasthan here with submit the Six-monthly Environment Clearance condition wise compliance report for the period of April 2023 to September 2023 for Tilakhera Limestone mine to your good office.

As per MoEF & CC notification no. S.O. 5845 (E) 26.11.2018 the soft copy of same has been sent through email to moef@nic.in, ccb.cpcb@nic.in, moef@nic.in, monitoring-ec@nic.in, moef@nic.in, <a href="mailto:mo

Thanking you.
Yours Faithfully
For J. K. Cement Works, Mangrol



R. B. M. Tripathi
Unit Head & President (Operations)

Encl: Environment Clearance Condition wise compliance report for the period of April2023 to September 2023 Copy to:

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



Corporate Office

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Interstitial Clay/ Screen

rejects/ Waste

0.0251

CEMENT WORKS, MANGROE (RAS)							
Form for Uploading Six Monthly Compliance Report							
Proposal Details							
Proposal No. IA	/RJ/MIN/181062/ 2018	Project Name	Proposal for Environmental Clearance (EC) of Mangrol-Tilakhera Limestone Mine with expansion from 1.6 million TPA [ROM] to 2.4 million TPA [ROM] Total Excavation (Limestone - 1.80 million TPA + Mineral Rejects - 0.55 million TPA + Interstitial clay - 0.04 million TPA + Soil - 0.01 million TPA) in the mine lease area of 299.20 ha. located at Village - Mangrol and Tilakhera, Tehsil - Nimbahera, District- Chittorgarh, Rajasthan by M/s. J.K. Cement Limited.				
	Category A	MoEF File No.	J-11015/25/2011	-IA. II (M) date	ed 03rd March, 2021		
Name of the E	ntity /Corporate Office*	M/s. J.K. Cemer	nt Kamla Tower, Þ	(anpur-20800	1 Uttar Pradesh		
	Entity's PAN*	AABCJ0355R					
Entity Name as	per PAN J K CEMENT	LIMITED.					
Compliance Lette	er/Report						
Reporting Yea	ar* 2023	Rep	oorting Period* A	pril-2023 to S	September-2023		
Remarks (if an	Mine with expansion - 0.55 million TPA +	from 1.6 million T Interstitial clay - (PA [ROM] to 2.4 m 0.04 million TPA +	nillion TPA [RO Soil - 0.01 m	M] Total Excavation (Limesto	r- 2023 of Mangrol-Tilakhera Limestone ne - 1.80 million TPA + Mineral Rejects area of 299.20 ha. located at Village - ted.	
Details of Produ	uction and Project Area						
Date of Comm	encement of Project /Ac	ctivity: * 0	7/05/1979	Project Are	ea as Per EC Granted (In Ca	se of Mine Lease): * 299.20 Ha.	
Actual Project	Area (In Case of Mine L	ease): * 2	211.62 Ha				
PRODUCTION (CAPACITY					•	
Name of the	Product*	Units*	nits* As per EC granted*		Production during FY: 2021-22*	Production during FY*: 2022-23	
Cement Grade Li	imestone M	illion TPA	1.80		1.5556	1.7887	
Subgrade Limestone Million TPA			0.55	,	0.5201	0.542	

0.04

0.0389

Million TPA

Topsoil	Million TPA	Million TPA 0.01		0.0099
Total Excavation Quantity	Million TPA	2.40	2.1094	2.3795

Mangrol-Tilakhera Limestone Mine (M.L. No.: 07/97, ML Area: 299.20 ha.)
At Village - Mangrol and Tilakhera, Tehsil - Nimbahera, District- Chittorgarh, Rajasthan-312617 by M/s. J.K. Cement Limited

EC Compliance Report: April-2023 to September-2023

Proposal for Environmental Clearance (EC) of Mangrol-Tilakhera Limestone Mine with expansion from 1.6 million TPA [ROM] to 2.4 million TPA [ROM] Total Excavation (Limestone - 1.80 million TPA + Mineral Rejects - 0.55 million TPA + Interstitial clay - 0.04 million TPA + Soil - 0.01 million TPA) in the mine lease area of 299.20 ha. located at Village - Mangrol and Tilakhera, 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

Α	SPECIFIC C	ONDITION			
S. No	Condition Type	Environmental Parameter	Description of Condition	Self- Declaration	Remarks/Reason
1	Specific Condition	Statutory compliance	The project proponent shall submit an undertaking that gap plantation will be completed in balance 1.72 ha by September 2021 using tall saplings of 5-6 feet as per the guidelines of the ministry.	Complied	Total plantation done in safety zone till FY 2022- 23 is 4.013 Ha with 10262 no's including gap filling.
2	Specific Condition	Biodiversity	The project proponent shall spend Rs. 25 lakhs for creating water resources or water harvesting structures to benefit the wildlife	Complied	The WCLP has been referred by DFO Chittorgarh to the Chief Conservation Officer of the Forest Department.20% of Rs 57.07 lakh will be paid to DFO — Chittorgarh against the WCP total of 285.30/-Cr in July 2021
3	Specific Condition	Biodiversity	The project proponent shall review annually the efficacy of conservation plan and shall submit the progress report to ministry as directed.	Complied	After approval of Wildlife Conservation Plan, an implementation status report is submitted.
4	Specific Condition	Statutory Compliance	PP shall establish the environment management cell separately for the mine & engage sufficient number of qualified staff for the implementation of EC conditions & other statutory requirements	Complied	A separate environmental management cell has been established with qualified personnel and having sufficient monitoring equipment's in environmental laboratory.
5	Specific Condition	Statutory Compliance	PP to ensure that the necessary EMP should be implemented & monitored properly to ensure better compliance of the said conservation measures.	Complied	EMP has been implemented



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6	Specific Condition	Human Health Environment	Regular surveillance on Silicosis shall be carried through regular occupational health check-up of 1/3 of the persons every year.	Complied	Preplacement medical examination Particular No. of persons examined Initial Medical Examination Periodical Medical Examination Disease observed	
7	Specific Condition	Statutory Compliance	This environmental clearance is subject to orders / judgement of Hon'ble supreme court of India, Hon'ble high court, Hon'ble NGT and any other court of law, common cause conditions as may be applicable	Agree	We are bound to the conditions	s and abide by law
8	Specific Condition	Statutory Compliance	The project proponent complies with all statutory requirements and judgement of Hon'ble supreme court dated 2nd august,2017 in writ petition(civil) no.114 of 2014 in matter of common causes versus union of India & Ors before commencing the mining operations.	Agree	Certificate issued by Mir regarding the "No Dues "of cor NOC letter submitted along report on 25.05.2022	
9	Specific Condition	Statutory Compliance	The state government concerned shall ensure that mining operation shall not be commenced till the entire compensation levied if any for illegal mining paid by the project proponent through their respective department of mining & geology in strict compliance of judgement of Hon'ble supreme court dated 2nd August 2017 in writ petition civil no-114 of 2014 in matter of common cause versus union of India & Ors.	Agree	A certificate issued by the confirming that the No Dues Levied". NOC letter and compon 25 May 2022	"of compensation
10	Specific Condition	Statutory Compliance	The project proponent shall follow the mitigation measures provided in MoEF&CC office memorandum No. Z-11013/57/2014-IIA. IIM), dated 29th October 2014 titled "Impact of mining activities on Habitations -	Complied	Garland drain, Siltation Pond a Rainwater collected in mine pi to the villagers during the lean Control blasting implemented.	t is being supplied



			issues related to the mining projects where in Habitations and villages are the part of mine lease area" A copy of EC letter will be marked to concerned		A copy of EC has been submitted at concern
11	Specific Condition	Statutory Compliance	Panchayat / local NGO etc if any, from whom suggestion / representation has been received while processing the proposal.	Complied	panchayat, Zila Parishad, DIC office, District Collector, SDM office vide letter no. MGR/PC/A/11/748 on 04.03.2021.
12	Specific Condition	Statutory Compliance	Sate pollution control board/committee shall be responsible for display of this EC letter at its regional office, District industries centre and collector office / Tehsildar's office for 30 days.	Complied	This condition is complied
13	Specific Condition	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. 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 & Rajasthan Patrika on 06.03.2021.
14	Specific Condition	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.	Agree	Noted for Compliance.
15	Specific Condition	Air Quality Monitoring & Preservation	The project proponent shall install a minimum 3 online ambient air quality monitoring stations with one in upwind and 2 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, & SO2 etc. as per the methodology	Complied	Locations of 3 CAAQMS Near mining office Towards Tilakhera Mine Towards Sahabad village Etc CAAQMS connection is established with RSPCB, and a connection request is made to CPCB.

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			mentioned in NAAQS notification No. B-29016/20/90PCI/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.				
16	Specific Condition	Air Quality Monitoring & Preservation	Effective safeguard measures for prevention of dust generation and subsequent suppression (like regular water sprinkling, metalled road construction etc) shall be carried out in areas prone to air pollution where in high levels of PM10 and PM 2.5 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 confirm to the standards prescribed by the MoEF&CC/ central pollution Board.	Complied	Regular water sprinkling is being unloading point, transfer point prevent air borne dust. Wet blasting system implemented. AAQ, fugitive emission monitoperiod: April to September-Annexure-1	nt & haul re drilling & oring report	oads to control for the
			In case, immediate mining scheme envisages intersection of ground water table then environmental		Water table is not intersect activities. S. Particulars	ing due to	
			clearance shall become operational only after receiving		No. 1. Highest Elevation	427	
	Cracific	Water Quality	formal clearance from GGWA. Increase mining		Lowest Elevation	438	
17	Specific Condition	Monitoring &	operation involves intersection of ground water table at a later stage, then PP shall ensure that prior approval	Agree	General Ground Level	430	
		Preservation	from CGWA and MoEF&CC is in place before such		4. Water Table (Pre-Monsoon)	367	60
			mining operations. The permission for intersection of ground water table shall essentially be based on		5. Water Table (Post-Monsoon)	397	33
			detailed hydro-geological study of the area.		6. Ultimate Pit Limit	374	56
			, , , ,		7. Present working depth pit 1	437-397.70	0-33



					8. Present working depth pit 2 436.0-405.77 0-25
					Source: - As per approved Modified Mining Plan with PMCP dated 03.01.2019.
18	Specific Condition	Water Quality Monitoring & Preservation	Project proponent shall regularly monitor and maintain records w.r.t. ground water level and quality in and around the mine lease by establishing a network of existing's 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-month basis to the regional office of the ministry CGWA and state ground water department / state pollution control board.	Complied	As per mining plan, groundwater values are measured in the network of existing wells.3piezo holes for periodical and one DWLR with a telemetry system for online monitoring of groundwater levels.
19	Specific Condition	Water Quality Monitoring & Preservation	The parameters to be monitored shall include their water quality vis-à-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 operation without justification and prior approval of MoEF&CC. The monitoring of water courses / bodies existing in the 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 he 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.	Not Applicable	However, we are monitoring the water quality & analysis reports for post-monsoon & winter Seasons are enclosed
20	Specific Condition	Water Quality Monitoring & 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 run-off shall be monitored along with Total Suspended Solids (TDS), Dissolved Oxygen (DO), pH and Total Suspended Solids (TSS). The monitored	Complied	As per the said MOEFCC notification, Mine Key parameter data has been uploaded at www.jkcement.com as well as displayed at mines office.





			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.		
21	Specific Condition	Water Quality Monitoring & Preservation	Project proponent shall plan, develop, and implement rainwater harvesting measured on a long-term basis to augment ground water resources in the area in consultation with central ground water board / state ground water department. A report on amount of water recharged needs to be submitted to regional office MoEF&CC annually.	Complied	Rainwater harvesting is done through mine pit, water stored in lower most benches and one recharge well has constructed.

Rain Water Harvesting through Mine Pit-1 (North Pit).



Rain Water Harvesting through Mine Pit-2 (South Pit)



Water Quality Monitoring & Preservation Industrial wastewater (workshop and wastewater 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

Not Applicable

Not Applicable

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	Cracific	Water Quality	consent to operate (CTO) issued by concerned state pollution control board (SPCB)the workshop effluent shall be treated after this initial passage through oil and grease tap. The water balance/water auditing shall be carried out		Water audit has been carried out by NPCC, New
23	Specific Condition	Monitoring & Preservation	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 Board/committee.	Complied	Delhi and same has been submitted to concerned authorities along with last EC Compliance Report on 25.05.2023
24	Specific Condition	Noise, Vibration Monitoring & Preservation	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	We are under limit. The Peak particle velocity report is ANNEXED
25	Specific Condition	Noise, Vibration Monitoring & Preservation	The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed, by orienting the floodlights /masks away from the villages and keeping the noise levels well within the prescribed limits day/night hours.	Complied	Blasting operation is being carried out in daytime only. The illumination and Noise level is being monitored and results are well within the limit
26	Specific Condition	Noise, Vibration Monitoring & Preservation	The project proponent shall take measures for control of noise levels below 85 dBA in the work environment the workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs. All personnel including labours 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 / labours are working without personal protective equipment.	Complied	Onsite tool talk is being provided on daily basis and periodical training given to all employee & workmen. Workers engaged in operation of HEMM etc. are provided with ear plugs.
27	Specific Condition	Mining Plan	The project proponent shall adhere to approved mining plan, inter alia including, total excavation (quantum of mineral, waste, over burden, inter burden and top soil	Complied	Sub-grade generated during the FY: 2022-23 is 0.542 million TPA.

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			etc.) mining technology lease area scope of working (method of mining, overburden & dump management, OB & dump mining, mineral transportation mode, ultimate depth of mining, concurrent reclamation and reclamation at mine closure; land use of the mine lease area at various stages of mining scheme as well as at the end of life; etc.)		OB/Waste generated the FY: 2022-23 is 0.0389 million TPA. Topsoil generated during the FY: 2022-23 is 0.0099 million TPA.
28	Specific Condition	Land Reclamation	The 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.	Noted for Compliance	In the approved Mining Plan, no back filling is proposed.
29	Specific Condition	Land Reclamation	The overburden (OB) waste and topsoil generated during the mining operations shall be stacked at earmarked OB dump sites(s) only and it should not be kept active for a long period of time. The physical parameters of the OB/waste dumps/topsoil dump like height, width and angle of slope shall be governed as per the approved mining plan and the guideline/ circulars issued by D.G.M.S. the topsoil shall be used for land reclamation and plantation.	Noted for Compliance	Topsoil is being used for the plantation purpose. Excavated area will be used as water reservoir in 52.879 ha. at conceptual stage, no backfilling is proposed.
30	Specific Condition	Land Reclamation	The slope of dumps shall be vegetated in scientific manner with suitable native species to maintain the slope stability prevent erosion and surface run-off. the selection of local species regulates local climatic parameters and help in adaption of plant 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 there by ensuring proper filling / levelling of dump mass. in critical areas use of geo textiles/ geo membranes /clay	Noted for Compliance	Presently OB dumps are active, vegetation and geo textile will be done after the dumps are inactive or dead. Garland drains with siltation pond has been provided all around the dump.

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		NGROE (RAS)			
			liners / bentonite etc. shall be undertaken for stabilization of the dump.		
31	Specific Condition	Land Reclamation	Catch drains settling tanks and siltation ponds of appropriate size shall be constructed around the mine working minerals yards and topsoil/OB waste dumps to prevent run off water and flow of sediments directly into the water bodies (Nallahs/river/pond etc.) the collected water should be utilized for watering the mine area roads green belt development plantation etc. The drains sedimentation sumps etc. shall be de-silted regularly, particularly after monsoon seasons and maintained properly.	Complied	To collect run off water from subgrade dump and waste dump, garland drain & siltation pit has been constructed. Siltation Pond is being cleaned every year before monsoon. To collect run off water from subgrade dump and waste dump, garland drain & siltation pit has been constructed. Details are given below: - Garland Drain East of Subgrade Length - 1015m and waste dump Width - 1.0m Depth - 1.0 m
32	Specific Condition	Land Reclamation	Checks dams of appropriate size gradient and length shall be constructed around mine pit and OB dumps to prevent storm runoff and sediment flow into adjoining water bodies. A safety margin of 50 % shall be kept for designing of sump structures over and above peak rainfall (based on 50 years data) and maximum discharge in the mine and its adjoining area which shall also help in providing retention period thereby allowing proper settling of sediments/silt material the sedimentation pits/ sumps shall be constructed at the corners of the garland drains.		Total available rainwater in single day (considering maximum 50 mm rainfall): - Subgrade dump & waste dump (area) X Rainfall (m) X Runoff Coefficient (20%): 218030 M² X 0.05 M X 0.20 : 2180.30 m³ and considering 50% safety margin thentotal capacity of siltation pond is 4360.6 m³. Total rain water collection capacity of siltation proceedings = 4360.6 m³. Constructed three siltation pits with dimension as given below: - S. Length Width Depth Capacity (M³) 1 19 18 3 1026 2 22 20 3 1320 3 27 25 3 2025 Total Capacity (m³) 4371 The storm water is being collected to garland drain from the periphery of the subgrade and the waste dump area routed to siltation pond.



					Mineral is being transported by own CC road. Periodical vehicle emission monitoring is being carried out. Periodical vehicle emission monitoring is being carried out Please find list of PUC certificates.		
33	Specific Condition	Transportation	No transportation of the minerals shall be allowed in case of roads passing through villagers/habitations The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. vehicular emissions shall be kept under control and regularly monitored. project should obtain pollution under control (PUC) certificate for all the vehicles from authorized pollution testing centres [if applicable in case of road transport	Complied	SN Vehicle No. PUCC No. Validity 1 RJ-09-GD-0941 D73RJ21108071 10-12-2023 2 RJ-09-GD-1578 D73RJ21108072 10-12-2023 3 RJ-09-GD-1579 D73RJ21108073 10-12-2023 4 RJ-09-GC-8246 D73RJ21108074 10-12-2023 5 RJ-09-GC-8247 D73RJ21108076 10-12-2023 6 RJ-09-GC-0616 D60RJ21137301 31-05-2024 7 RJ-09-GC-363 D60RJ21137299 30-11-2024 8 RJ-09-GC-0354 D60RJ21137298 31-05-2024 9 RJ-09-GC-0615 D60RJ21137300 31-05-2024 10 RJ-09-GC-0028 D1007RJ03117289 20-05-2024 11 RJ-09-GC-0228 D1007RJ03117337 21-05-2024 12 RJ-09-GC-0128 D1007RJ03117392 26-05-2024 13 RJ-09-GC-2228 D1007RJ03117392 26-05-2024 14 RJ-09-GC-2128 D1007RJ03117349 21-05-2024 15 RJ-06-GC-8723 D1007RJ03117344 21-05-2024		
34	Specific Condition	Transportation	The main haulage road within the mine lease should be provided with a permanent water sprinkling arrangement for dust suppression. other roads within the mine lease should be wetted regularly with tanker-mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points, material yards etc. should invariably be provide with dust suppression arrangements the air pollution control equipment's like bag filter, vacuum suction hoods, dry fogging system etc. shall be installed at crusher belt-conveyors and other areas prone to air	Complied	Tanker-mounted water sprinkling system has provided for control of fugitive dust emission		



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			pollution. the belt transportation. PP shall take necessary measures to avoid generation of fugitive dust emissions.		
35	Specific Condition	Green Belt Development	The project proponent shall develop greenbelt in 7.5 m wide safety zone all along the mine lease boundary as per the guidelines of CPCB to arrest pollution emanating from mining operations within the lease. the whole green belt shall be developed with in first 5 years starting from windward side of the active mining area. The development of greenbelt shall be governed as per the EC granted by the ministry irrespective of the stipulation made in approved mine plan.	Complied	Total plantation done in safety zone till FY 2022-23 is 4.013 ha with 10262 nos. including gap filling.
3	Specific Condition	Green Belt Development	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 department / 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 shall be made for protection and care of tress.	Noted for Compliance	There is no back filling proposed. Total plantation done in safety zone till FY 2022- 23 is 4.013 ha with 10262 nos. including gap filling.
3	Specific Condition	Green Belt Development	The project proponent shall make necessary alternative arrangement for livestock feed by developing grazing land with a view to compensate those areas which are coming within the mine lease 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/	Noted for Compliance	Till date no grazing land was required for any mining activities

			protected against feeling and plantation of such trees should be promoted.		
39	Specific Condition	Public Hearing	Project proponent shall make provisions for the housing for workers/labours or shall construct labours 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 structured which can be removed after the completion of the project related infrastructures. the domestic waste should be treated with STP in order to avoid contamination of underground water	Complied	A separate residential colony has been developed, where all the basic amenities are available and STP has installed
40	Specific Condition	Corporate Environment Responsibility	The Project proponent shall submit the time-bound action plan to the concerned regional; office of the ministry within 6 months from the date of issuance of environmental clearance for undertaking the activities committed during public consultation by the project proponent and as discussed by the EAC, in terms of the provisions of the MoEF & CC office memorandum No.22/65/201-IA.III dated 30 September 2020. The action plan shall be implemented within three years of commencement of the project.	Complied	Public hearing commitment is being complied.
41	Specific Condition	Miscellaneous	The project proponent shall prepare digital map (land use & land cover) of the entire lease area once in 5 years purpose of monitoring land use pattern and submit a report to concerned regional office of the MoEF & CC.	Complied	The last digital land use map has been submitted vide letter no. MGR/PC-14/C-11/5391 on 30/11/2022 and further report will be submitted in due period.
42	Specific Condition	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.	Noted	Noted for compliance
43	Specific Condition	Miscellaneous	The project proponent shall submit six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards to the MOEFCC & its concerned regional office, central	Complied	The last EC compliance report submitted through email on 27/05/2023, vide our letter no. MGR/PC-14/C11 dated 18/05/2023.

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			pollution control board and state pollution control board.		
44	Specific Condition	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 scientist and mining engineers shall be appointed and submit a report to RO, MoEF&CC	Complied	A separate environmental management cell has been established with qualified personnel & has sufficient monitoring equipment in environmental laboratory.
45	Specific Condition	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 officers by furnishing the requisite data/ information / monitoring reports.	Noted for Compliance	Noted for compliance
46	Specific Condition	Miscellaneous	In pursuant to ministry's O.M. No. 22/34/2018-IA.III dated 16.01.2020 to comply with the direction made by Hon'ble supreme court on 08.01.2020 in W.P.(civil) No.114/2014 in the matter common cause vs union of India the mining lease holder shall after ceasing mining operations undertake re-grassing the mining area and any other area which may have been disturbed due to other mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.	Noted	Noted
47	Specific Condition	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.	Agree	Agreed & noted
	Specific Condition	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.	Noted	Agreed & noted
	Specific Condition	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	Noted	Agreed & noted

SIX MONTHLY ENVIRONMENT CLEARANCE CONDITION WISE COMPLIANCE OF TILAKHERA LIMESTONE MINE J.K. CEMENT WORKS, MANGROL, VILLAGE-MANGROL, TEHSIL-NIMBAHERA, DISTRICT-CHITTORGARH, RAJASTHAN





		19 wi al co	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 ourt of India/High court and any other court of law elating to the subject matter.		
Specif Condi		leous lie	ony appeal against this environmental clearance shall e with the national green tribunal, if preferred within a period of 30 days as prescribed under section 16 of the pational green tribunal Act, 2010.		Agreed & noted
Specif Condi	I MICCOLLAR	eous Th	his issues with the approval of competent authority.	Noted	Agreed & noted

Yours Sincerely,

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



R.B.M. Tripathi

Unit Head & President (Operations) (Authorized Signatory)



Phone: 91 294 2494600 to 02 E-mail: info.wcs@wolkem.com

Report No. 20230610023/A

Report Issue Date: - 23.06.2023

TEST REPORT

1. Name of Customer

Tilakhera Limestone Mine,

Mine Lease Area(MLA) - 07/97 M/s J.K. Cement Works Mangrol,

Tehsil - Nimbahera, District - Chittorgarh,

State- Rajasthan (INDIA),

2. Purchase Order Number

4600093211 Dated:- 13.06.2023

3. Date & Time of Monitoring

08.06.2023/01:20PM

4. Sample Identification

Air Sample Sealed/Ok

5. Condition of Sample 6. Sample Received On

10.06.2023

7. Period of Analysis

10.06.2023 to 22.06.2023

8. Name of Location

Shahbad (Tilakhera Mine)

Method of Sampling

IS: 5182(Part 2,6,9,22,23) & Instrument Manual

	Monitoring Details	Unit	Results
3. NO	Duration of Survey	Minutes	1432.5
2.	Average Flow rate for PM ₁₀	M ³ / Min	1.115
3.	Ambient Temperature	°C	34.6
4.	Relative Humidity	%	56

Results Ambient Air Quality

S. No	Parameters	Test Method	Unit	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
Chemic	al Testing - Atn	nospheric Pollution - Ambient Air			
1.	PM ₁₀	IS:5182 (Part-23)	µg/m³	50.22	100
2.	PM _{2.5}	WIL/SOP No. 10/25 Issue date 01.05.2019	µg/m³	25.23	60
3.	SO ₂	IS:5182 (Part-2)	µg/m³	BDL(<6)	80
4.	NO ₂	IS:5182 (Part-6)	μg/m³	11.69	80
5.	Ozone as O ₃	IS:5182 (Part-9)	µg/m³	BDL(<20)	100
6.	NH ₃	CPCB manual & 401-Method Air sampling & analysis, 3rd Edition	µg/m³	20.54	400
7.	Lead	IS:5182 (Part-22)	µg/m³	BDL(<0.05)	1 (24 hour average)
8.	Nickel	CPCB Guidelines 1988	ng/m ³	BDL(<4)	20 (Annual average)

BDL- Below Detection Limit

Tested By

(Legna/Sharma)

Chemist

Authorized Signatory

(Manish Bhagora) Chemist

Environmental & Chemical Laboratory Wolkem India Limited E-102, M.I.A., UDAIPUR (Rajasthan)

Note

Complaint Register is available in lab / Email ID lab.office@wolkem.com

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Page 1 of 1 End of Report_

Registered & Corporate Office:

"Wolkem House", E-101, Mewar Industrial Area, Madri, Udalpur - 313003, Rajasthan-India Phone: +91 294 2494600 - 02 E-mail: info@wolkem.com





Phone: 91 294 2494600 to 02 E-mail: info.wcs@wolkern.com

Report Issue Date: - 23.06.2023

Report No. 20230610023/B

TEST REPORT

Tilakhera Limestone Mine, 1. Name of Customer

Mine Lease Area(MLA) - 07/97 M/s J.K. Cement Works Mangrol,

Tehsil - Nimbahera District – Chittorgarh,

State-Rajasthan (INDIA),

4600093211 Dated: - 13.06.2023 2. Purchase Order Number

08.06.2023/01:20PM 3. Date & Time of Monitoring

Air Sample Sample Identification 5. Condition of Sample Sealed/Ok 10.06.2023 6. Sample Received On

10.06.2023 to 22.06.2023 7. Period of Analysis Shahbad (Tilakhera Mine) 8. Name of Location

IS: 5182(Part 11, 12) & Instrument Manual

9.	Method of Sampling	. 10. 5102(1 alt 11, 12) \(\text{11}	J
	Monitoring Details	Unit	Results
1	Ambient Temperature	°C	34.6
1.	·	%	56
2.	Relative Humidity	70	

Results Ambient Air Quality

S. No	Parameters	Test Method	Unit	Results	(CPCB Norms) New Delhi dt. 18 th Nov. 2009
Chemic	cal Testing - Atmosp	pheric Pollution - Ambient Air			
1	CO	BY CO Meter	mg/m ³	0.31	04 (1 hour)
2	Benzo(a)pyrene	IS:5182 (Part-12) NAAQS Guideline	ng/m³	BDL(<0.01)	1 (Annual average)
3	Arsenic	CPCB Guideline 2011	ng/m³	BDL(<3)	6 (Annual average)
J.	, 11001110				

BDL- Below Detection Limit

Benzene

Tested B

eena Sharma)

5 (Annual average)

NAAQS

Chemist

Environmental & Chemical Laboratory Wolkem India Limited E-102, M.I.A., UDAIPUR (Rajasthan)

BDL(<0.01)

µg/m³

Note

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IS:5182 (Part-11) NAAQS Guideline

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Any discrepancy in test results should be reported within 15 days

Page 1 of 1 End of Report







Phone: 91 294 2494600 to 02 E-mail: info.wcs@wolkem.com

Report Issue Date: - 23.06.2023

Report No. 20230610019/A

TEST REPORT

1. Name of Customer

Tilakhera Limestone Mine,

Mine Lease Area(MLA) - 07/97 M/s J.K. Cement Works Mangrol,

Tehsil - Nimbahera, District – Chittorgarh,

State- Rajasthan (INDIA),

2. Purchase Order Number

4600093211 Dated:- 13.06.2023

3. Date & Time of Monitoring

08.06.2023/09:10AM

4. Sample Identification 5. Condition of Sample

Air Sample Sealed/Ok

6. Sample Received On

10.06.2023

7. Period of Analysis

10.06.2023 to 22.06.2023

8. Name of Location

Near Ravana Office (Tilakhera Mine)

IS: 5182(Part 2,6,9,22,23) & Instrument Manual 9. Method of Sampling

S. No	Monitoring Details	Unit	Results
1.	Duration of Survey	Minutes	1428.9
2	Average Flow rate for PM ₁₀	M ³ / Min	1.215
3	Ambient Temperature	°C	30.9
4	Relative Humidity	%	45

Posults Ambient Air Quality

S. No	Parameters	Test Method	Unit	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
Chemic	al Testing - Atn	nospheric Pollution - Ambient Air			
1.	PM ₁₀	IS:5182 (Part-23)	µg/m³	54.58	100
2.	PM _{2.5}	WIL/SOP No. 10/25 Issue date 01.05.2019	µg/m³	28.25	60
3.	SO ₂	IS:5182 (Part-2)	µg/m³	BDL(<6)	80
4.	NO ₂	IS:5182 (Part-6)	µg/m³	10.75	80
5.	Ozone as O ₃	IS:5182 (Part-9)	µg/m³	BDL(<20)	100
6.	NH ₃	CPCB manual & 401-Method Air sampling & analysis, 3rd Edition	µg/m³	21.01	400
7.	Lead	IS:5182 (Part-22)	µg/m³	BDL(<0.05)	1 (24 hour average)
8.	Nickel	CPCB Guidelines 1988	ng/m³	BDL(<4)	20 (Annual average)

BDL- Below Detection Limit

Tested B

(Leeha/Sharma)

Chemist

Authorized Signatory

Environmental & Chemical Laboratory Wolkem India Limited E-102, M.I.A., UDAIPUR (Rajasthan)

Note

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Page 1 of 1 End of Report

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"Wolkem House", E-101, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan-India

Phone: +91 294 2494600 - 02 E-mail: info@wolkem.com







Phone: 91 294 2494600 to 02 E-mail: info.wcs@wolkern.com

Report No. 20230610019/B

Report Issue Date: - 23.06.2023

TEST REPORT

1. Name of Customer

Tilakhera Limestone Mine,

Mine Lease Area(MLA) - 07/97 M/s J.K. Cement Works Mangrol,

Tehsil - Nimbahera, District - Chittorgarh,

State-Rajasthan (INDIA),

2. Purchase Order Number

4600093211 Dated:- 13.06.2023

3. Date & Time of Monitoring

08.06.2023/09:10AM

4. Sample Identification

Air Sample Sealed/Ok

5. Condition of Sample 6. Sample Received On

10.06.2023

7. Period of Analysis

10.06.2023 to 22.06.2023

8. Name of Location

Near Rayana Office (Tilakhera Mine)

IS: 5182(Part 11, 12) & Instrument Manual Method of Sampling

o. Method of Camping . To: o to = \(\tau \tau \tau \tau \tau \tau \tau \tau						
S. No	Monitoring Details	Unit	Results			
1.	Ambient Temperature	°C	30.9			
2.	Relative Humidity	%	45			

Results Ambient Air Quality

S. No	Parameters	Test Method	Unit	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
Chemic	cal Testing - Atmosp	oheric Pollution - Ambient Air			
1.	СО	BY CO Meter	mg/m³	0.31	04 (1 hour)
2	Benzo(a)pyrene	IS:5182 (Part-12) NAAQS Guideline	ng/m³	BDL(<0.01)	1 (Annual average)
3.	Arsenic	CPCB Guideline 2011	ng/m³	BDL(<3)	6 (Annual average)
<u>J.</u>	Benzene	IS:5182 (Part-11) NAAQS Guideline	µg/m³	BDL(<0.01)	5 (Annual average)

BDI - Below Detection Limit

Authorized Signatory

(Manish Bhagora) Chemist

Environmental & Chemical Laboratory Wolkem India Limited E-102, M.I.A., UDAIPUR (Rajasthan)

Note

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Page 1 of 1 End of Report_

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Phone: +91 294 2494600 - 02 E-mail: info@wolkem.com







Phone: 91 294 2494600 to 02 E-mail: info.wcs@wolkem.com

Report No. 20230610018/A

Report Issue Date: - 23.06.2023

TEST REPORT

1. Name of Customer

Tilakhera Limestone Mine,

Mine Lease Area(MLA) - 07/97 M/s J.K. Cement Works Mangrol,

Tehsil - Nimbahera, District - Chittorgarh,

State-Rajasthan (INDIA),

2. Purchase Order Number

4600093211 Dated:- 13.06.2023

3. Date & Time of Monitoring

08.06.2023/08:05AM

4. Sample Identification 5. Condition of Sample

Air Sample Sealed/Ok

6. Sample Received On

10.06.2023

7. Period of Analysis

10.06.2023 to 22.06.2023

8. Name of Location

Near Mine Office (Tilakhera Mine)

9. Method of Sampling

IS: 5182(Part 2.6.9.22.23) & Instrument Manual

S. No	Monitoring Details	Unit	Results
1.	Duration of Survey	Minutes	1433.6
2.	Average Flow rate for PM ₁₀	M ³ / Min	1.185
3.	Ambient Temperature	°C	30.3
4.	Relative Humidity	%	43

Results Ambient Air Quality

S. No	Parameters	Test Method	Unit	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
Chemic	al Testing - Atn	nospheric Pollution - Ambient Air			
1.	PM ₁₀	IS:5182 (Part-23)	µg/m³	53.23	100
2.	PM _{2.5}	WIL/SOP No. 10/25 Issue date 01.05.2019	µg/m³	28.57	60
3.	SO ₂	IS:5182 (Part-2)	μg/m³	BDL(<6)	80
4.	NO ₂	IS:5182 (Part-6)	μg/m³	12.90	80
5.	Ozone as O ₃	IS:5182 (Part-9)	μg/m³	BDL(<20)	100
6.	NH ₃	CPCB manual & 401-Method Air sampling & analysis, 3rd Edition	µg/m³	24.88	400
7.	Lead	IS:5182 (Part-22)	µg/m³	BDL(<0.05)	1 (24 hour average)
8.	Nickel	CPCB Guidelines 1988	ng/m ³	BDL(<4)	20 (Annual average)

BDL- Below Detection Limit

Tested I

(Leena Sharma)

Chemist

Authorized Signatory

(Manish Bhagora) Chemist

Environmental & Chemical Laboratory Wolkem India Limited E-102, M.I.A., UDAIPUR (Rajasthan)

Note

Complaint Register is available in lab / Email ID lab.office@wolkem.com

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Page 1 of 1 End of Report

Registered & Corporate Office:

"Wolkem House", E-101, Mewar Industrial Area, Madri, Udalpur - 313003, Rajasthan-India

Phone: +91 294 2494600 - 02 E-mail: info@wolkem.com





Phone: 91 294 2494600 to 02 E-mail: info.wcs@wolkem.com

Report No. 20230610018/B

Report Issue Date: - 23.06.2023 **TEST REPORT**

1. Name of Customer

Tilakhera Limestone Mine,

Mine Lease Area(MLA) - 07/97

M/s J.K. Cement Works Mangrol,

Tehsil - Nimbahera, District - Chittorgarh,

State-Rajasthan (INDIA),

2. Purchase Order Number

4600093211 Dated:- 13.06.2023

3. Date & Time of Monitoring

08.06.2023/08:05AM

4. Sample Identification

Air Sample Sealed/Ok

5. Condition of Sample 6. Sample Received On

10.06.2023

7. Period of Analysis 8. Name of Location

10.06.2023 to 22.06.2023 Near Mine Office (Tilakhera Mine)

Method of Sampling

IS: 5182(Part 11, 12) & Instrument Manual

J .	5. Wethou of Sampling . 10. 5102(Fait 11, 12) & metament wanta					
S. No	Monitoring Details	Unit	Results			
1.	Ambient Temperature	°C	30.3			
2.	Relative Humidity	%	43			

Results Ambient Air Quality

S. No	Parameters	Test Method	Unit	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
Chemic	cal Testing - Atmosp	oheric Pollution - Ambient Air			
1.	CO	BY CO Meter	mg/m³	0.35	04 (1 hour)
2.	Benzo(a)pyrene	IS:5182 (Part-12) NAAQS Guideline	ng/m³	BDL(<0.01)	1 (Annual average)
3.	Arsenic	CPCB Guideline 2011	ng/m³	BDL(<3)	6 (Annual average)
4.	Benzene	IS:5182 (Part-11) NAAQS Guideline	µg/m³	BDL(<0.01)	5 (Annual average)

BDL- Below Detection Limit

Tested By

(Leepa Sharma)

Chemist

Authorized Signatory

(Manish Bhagora)

Environmental & Chemical Laboratory Wolkem India Limited E-102, M.I.A., UDAIPUR (Rajasthan)

Note

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Page 1 of 1 End of Report

Registered & Corporate Office:

"Wolkem House", E-101, Mewar Industrial Area, Madri, Udalpur - 313003, Rajasthan-India Phone: +91 294 2494600 - 02 E-mail: info@wolkem.com









Phone: 91 294 2494600 to 02 E-mail: info.wcs@wolkem.com

Report No. 20230610021/A

Report Issue Date: - 23.06.2023

TEST REPORT

1. Name of Customer

Tilakhera Limestone Mine.

Mine Lease Area (MLA) - 07/97 M/s J.K. Cement Works Mangrol,

Tehsil - Nimbahera, District - Chittorgarh,

State- Rajasthan (INDIA),

2. Purchase Order Number

4600093211 Dated:- 13.06.2023

3. Date & Time of Monitoring

08.06.2023/10:45AM

4. Sample Identification 5. Condition of Sample

Air Sample Sealed/Ok

6. Sample Received On 7. Period of Analysis

10.06.2023 10.06.2023 to 22.06.2023

8. Name of Location

Near Loading point of Tilakhera Mine

Method of Sampling

IS: 5182(Part 2, 4, 6) & Instrument Manual

S. No	Monitoring Details	Unit	Results
1.	Duration of Survey	Minutes	1431.2
2.	Average Flow rate for PM ₁₀	M ³ / Min	1.19
3.	Ambient Temperature	°C	31.6
4.	Relative Humidity	%	49

Results Ambient Air Quality

S. No	Parameters	Test Method	Unit	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
Chemic	al Testing - Atmosp	heric Pollution - Ambient Air			
1.	SO ₂	IS:5182 (Part-2)	µg/m³	BDL(<6)	80
2.	NO ₂	IS:5182 (Part-6)	µg/m³	12.54	80
3.	SPM	IS:5182 (Part-4)	µg/m³	333.45	600

BDL- Below Detection Limit

Tested By

(Leena Sharma) Chemist

Authorized Signatory

(Manish Bhagora) Chemist

Environmental & Chemical Laboratory Wolkem India Limited E-102, M.I.A., UDAIPUR (Rajasthan)

Note

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1. The results listed refer only to the tested sample (s) and parameter (s) Endorsement of product is neither inferred nor implied. 2.

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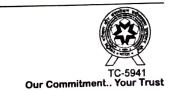
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Any discrepancy in test results should be reported within 15 days.

Page 1 of 1 End of Report_

Registered & Corporate Office:

"Wolkem House", E-101, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan-India Phone: +91 294 2494600 - 02 E-mail: info@wolkem.com





Laboratory : E- 102, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan (INDIA) Phone: 91 294 2494600 to 02 E-mail: info.wcs@wolkem.com

Report No. 20230610021/B

TEST REPORT

Report Issue Date: - 23.06.2023

1. Name of Customer Tilakhera Limestone Mine.

Mine Lease Area (MLA) - 07/97 M/s J.K. Cement Works Mangrol,

Tehsil - Nimbahera, District - Chittorgarh,

State- Rajasthan (INDIA),

2. Purchase Order Number 4600093211 Dated:- 13.06.2023

3. Date & Time of Monitoring 08.06.2023/10:45AM

4. Sample Identification Air Sample 5. Condition of Sample Sealed/Ok 6. Sample Received On 10.06.2023

7. Period of Analysis 10.06.2023 to 22.06.2023

8. Name of Location Near Loading point of Tilakhera Mine

9. Method of Sampling Instrument Manual

S. No	Monitoring Details	ile .			
3. 140	Monitoring Details	Unit	Results		
1.	Ambient Temperature	°C	31.6		
2.	Relative Humidity	%	49		
Daguille	A	/ /	70		

Results Ambient Air Quality

S. No	Parameters	Test Method	Unit	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
Chemi	cal Testing - Atmosph	neric Pollution - Ambient Air			
1.	CO	BY CO Meter	mg/m³	0.34	04 (1 hour)

Tested By

(Leena Sharma)

Chemist

Authorized Signatory

(Manish Bhagora) Chemist

Environmental & Chemical Laboratory Wolkem India Limited E-102, M.I.A., UDAIPUR (Rajasthan)

Note

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Page 1 of 1 End of Report









Report Issue Date: - 23.06.2023

Phone: 91 294 2494600 to 02 E-mail: info.wcs@wolkem.com

Report No. 20230610020/A

TEST REPORT

1. Name of Customer

Tilakhera Limestone Mine,

Mine Lease Area (MLA) - 07/97 M/s J.K. Cement Works Mangrol,

Tehsil - Nimbahera, District – Chittorgarh,

State- Rajasthan (INDIA),

2. Purchase Order Number

4600093211 Dated:- 13.06.2023

3. Date & Time of Monitoring

08.06.2023/09:55AM Air Sample

4. Sample Identification 5. Condition of Sample

Sealed/Ok

6. Sample Received On

10.06.2023 10.06.2023 to 22.06.2023

7. Period of Analysis 8. Name of Location

3-10 meter distance from drilling point of

Tilakhera Mine

Method of Sampling

IS: 5182(Part 2, 4, 6) & Instrument Manual

	Method of Sampling	Unit	Results
	Monitoring Details	Minutes	1436.4
1.	Duration of Survey	M ³ / Min	1.14
2.	Average Flow rate for PM ₁₀	101 / 101111	31.1
3.	Ambient Temperature	%	47
4.	Relative Humidity	%	1,

Results Ambient Air Quality

Results	esults Ambient Air Quality				NAAQS
S. No	Parameters	Test Method	Unit	Results	(CPCB Norms) New Delhi dt. 18 th Nov. 2009
Chemic	cal Testing - Atmosp	heric Pollution - Ambient Air			
1	SO ₂	IS:5182 (Part-2)	μg/m³	BDL(<6)	80
1.	-	IS:5182 (Part-6)	µg/m³	14.46	80
2.	NO ₂	Addition to the property of the state of the	µg/m³	374.46	600
3.	SPM	IS:5182 (Part-4)	P9/		

BDL- Below Detection Limit

Tested By

(Legna Sharma)

Chemist

Authorized Signatory

Chemist

Environmental & Chemical Laboratory Wolkem India Limited E-102, M.I.A., UDAIPUR (Rajasthan)

Note

Complaint Register is available in lab / Email ID lab.office@wolkem.com

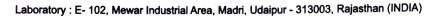
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Any discrepancy in test results should be reported within 15 days. 4

> Page 1 of 1 End of Report_







Phone: 91 294 2494600 to 02 E-mail: info.wcs@wolkem.com

Report Issue Date: - 23.06.2023

Report No. 20230610020/B

TEST REPORT

1. Name of Customer

Tilakhera Limestone Mine,

Mine Lease Area (MLA) - 07/97 M/s J.K. Cement Works Mangrol,

Tehsil - Nimbahera, District - Chittorgarh,

State- Rajasthan (INDIA),

2. Purchase Order Number

4600093211 Dated:- 13.06.2023

3. Date & Time of Monitoring

08.06.2023/09:55AM

4. Sample Identification

Air Sample Sealed/Ok

5. Condition of Sample

10.06.2023

6. Sample Received On 7. Period of Analysis

10.06.2023 to 22.06.2023

8. Name of Location

3-10 meter distance from drilling point of

Tilakhera Mine

9. Method of Sampling

Instrument Manual

S. No	Monitoring Details	Unit	Results
1.	Ambient Temperature	°C	31.1
2.	Relative Humidity	%	47

Results Ambient Air Quality

S. No	Parameters	Test Method	Unit	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
Chemic	al Testing - At	mospheric Pollution - Ambient Air			
1.	СО	BY CO Meter	mg/m ³	0.37	04 (1 hour)

BDL- Below Detection Limit

Tested By

(Leena Sharma)

Chemist

Authorized Signatory

Environmental & Chemical Laboratory Wolkem India Limited E-102, M.I.A., UDAIPUR (Rajasthan)

Note

Complaint Register is available in lab / Email ID lab.office@wolkem.com

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Any discrepancy in test results should be reported within 15 days.

Page 1 of 1 End of Report_





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Phone: 91 294 2494600 to 02 E-mail: info.wcs@wolkem.com

Report Issue Date: - 26.09.2023

Report No. 20230915030/A

TEST REPORT

1. Name of Customer Tilakhera Limestone Mine,

> Mine Lease Area (MLA) - 07/97 M/s J.K. Cement Works Mangrol,

Tehsil - Nimbahera, District - Chittorgarh,

State- Rajasthan (INDIA),

2. Purchase Order Number 4600093211 Dated:- 13.06.2023

3. Date & Time of Monitoring 14.09.2023/01:55PM

4. Sample Identification **Fugitive Sample** 5. Condition of Sample Sealed/Ok 6. Sample Received On 15.09.2023

7. Period of Analysis 15.09.2023 to 25.09.2023

8. Name of Location 3-10 meter distance from drilling point of

Tilakhera Mine

9. Method of Sampling IS: 5182(Part 2, 4, 6) & Instrument Manual

S. No	Monitoring Details	Unit	Results
1.	Duration of Survey	Minutes	483.2
2.	Average Flow rate for PM ₁₀	M³/ Min	1.165
3.	Ambient Temperature	°C	31.4
4.	Relative Humidity	%	47

Results Ambient Air Quality

S. No	Parameters	Test Method	Unit	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
Chemic	al Testing - Atmosp	heric Pollution – Fugitive Emis	sion		
1.	SO ₂	IS:5182 (Part-2)	µg/m³	BDL(<6)	80
2.	NO ₂	IS:5182 (Part-6)	µg/m³	11.97	80
3.	SPM	IS:5182 (Part-4)	µg/m³	350.99	600

BDL- Below Detection Limit

Tested By

(Leena Sharma)

Chemist

Authorized Signatory

(Amreesh Kumar) Head & Dy. GM

Environmental & Chemical Laboratory Wolkem India Limited E-102, M.I.A., UDAIPUR (Rajasthan)

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Page 1 of 1 End of Report

Registered & Corporate Office:

"Wolkern House", E-101, Mewar Industrial Area, Madri, Udalpur - 313003, Rajasthan-India

Phone: +91 294 2494600 - 02 E-mail: info@wolkem.com







Phone: 91 294 2494600 to 02 E-mail: info.wcs@wolkem.com

Report Issue Date: - 26.09.2023

Report No. 20230915030/B

TEST REPORT

1. Name of Customer

Tilakhera Limestone Mine,

Mine Lease Area (MLA) – 07/97 M/s J.K. Cement Works Mangrol,

Tehsil - Nimbahera, District - Chittorgarh,

State- Rajasthan (INDIA),

2. Purchase Order Number

4600093211 Dated:- 13.06.2023

3. Date & Time of Monitoring

14.09.2023/01:55PM

4. Sample Identification

Fugitive Sample

5. Condition of Sample

Sealed/Ok

6. Sample Received On

15.09.2023

7. Period of Analysis

15.09.2023 to 25.09.2023

8. Name of Location

3-10 meter distance from drilling point of

Tilakhera Mine

9. Method of Sampling

Instrument Manual

S. No	Monitoring Details	Unit	Results
1.	Ambient Temperature	°C	31.4
2.	Relative Humidity	%	47

Populte Ambient Air Quality

S. No	Parameters	Test Method	Unit	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
Chemic	al Testing - Atmosph	eric Pollution – Fugitive Emis	ssion		
1.	CO	BY CO Meter	mg/m³	0.49	04 (1 hour)

BDL- Below Detection Limit

(Leepa Sharma)

Tested By

Chemist

Authorized Signatory

Amreesh Kumar)

Head & Dy. GM

Environmental & Chemical Laboratory Wolkem India Limited E-102, M.I.A., UDAIPUR (Rajasthan)

Note

Complaint Register is available in lab / Email ID lab.office@wolkem.com

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Any discrepancy in test results should be reported within 15 days.

Page 1 of 1 End of Report_









Phone: 91 294 2494600 to 02 E-mail: info.wcs@wolkem.com IDIA LIMITED

Report Issue Date: - 26.09.2023

Report No. 20230915033/A

TEST REPORT

1. Name of Customer

Tilakhera Limestone Mine,

Mine Lease Area(MLA) - 07/97 M/s J.K. Cement Works Mangrol,

Tehsil - Nimbahera, District - Chittorgarh,

State- Rajasthan (INDIA),

2. Purchase Order Number

4600093211 Dated:- 13.06.2023

3. Date & Time of Monitoring

12.09.2023/02:35PM

Sample Identification

Air Sample Sealed/Ok

5. Condition of Sample 6. Sample Received On

15.09.2023

7. Period of Analysis

15.09.2023 to 25.09.2023

8. Name of Location

Shahbad (Tilakhera Mine) IS: 5182(Part 2,6,9,22,23) & Instrument Manual

	Method of Sampling	S: 5182(Part 2,6,9,22,23) ∞ Unit	Results
	Monitoring Details	Minutes	1442.1
	Duration of Survey	M ³ / Min	1 175
2.	Average Flow rate for PM ₁₀		30.7
3.	Ambient Temperature	°C	42
4	Relative Humidity	%	42

Results	Ambient Air C	Quality			NAAQS	
S. No	Parameters	Test Method	Unit	Results	(CPCB Norms) New Delhi dt. 18 th Nov. 2009	
Chemic	cal Testing - Atr	nospheric Pollution – Ambient Air	, 3	47.76	100	
1	PM ₁₀	IS:5182 (Part-23)	µg/m³			
- '-	10	WIL/SOP No. 10/25 Issue date 01.05.2019	µg/m³	24.65	60	
2.	PM _{2.5}		µg/m³	BDL(<6)	80	
3.	SO ₂	IS:5182 (Part-2)			80	
4.	NO ₂	IS:5182 (Part-6)	µg/m³	10.74	00	

BDL- Below Detection Limit

Tested By

(Leena Sharma)

Chemist

Authorized Signatory

Amreesh Kumar) Head & Dy. GM

Environmental & Chemical Laboratory Wolkem India Limited E-102, M.I.A., UDAIPUR (Rajasthan)

Note

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> Page 1 of 1 End of Report_

Registered & Corporate Office:

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Phone: 91 294 2494600 to 02 E-mail: info.wcs@wolkem.com

Report Issue Date: - 26.09.2023

Report No. 20230915033/B

TEST REPORT

1. Name of Customer

Tilakhera Limestone Mine.

Mine Lease Area(MLA) - 07/97 M/s J.K. Cement Works Mangrol,

Tehsil - Nimbahera, District - Chittorgarh,

State-Rajasthan (INDIA),

2. Purchase Order Number

4600093211 Dated:- 13.06.2023

3. Date & Time of Monitoring

12.09.2023/02:35PM

4. Sample Identification

Air Sample

5. Condition of Sample

Sealed/Ok

6. Sample Received On

15.09.2023 15.09.2023 to 25.09.2023

7. Period of Analysis 8. Name of Location

Shahbad (Tilakhera Mine)

Method of Sampling

Instrument Manual

J.	Method of Camping		
S. No	Monitoring Details	Unit	Results
0.110		00	30.7
1.	Ambient Temperature	•0	30.7
•	Deletive Ulumidity	%	42
2.	Relative Humidity		

Results Ambient Air Quality

S. No	Parameters	Test Method	Unit	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
Chemic	cal Testing - Atmosph	eric Pollution – Ambient Air			
1.	CO	BY CO Meter	mg/m ³	0.34	04 (1 hour)

BDL- Below Detection Limit

Tested By

(Leená Sharma)

Chemist

Authorized Signatory

Amreesh Kumar)

Head & Dy. GM

Environmental & Chemical Laboratory Wolkem India Limited E-102, M.I.A., UDAIPUR (Rajasthan)

Note

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INDIA LIMITED

Phone: 91 294 2494600 to 02 E-mail: info.wcs@wolkem.com

Report Issue Date: - 26.09.2023

Report No. 20230915031/A

TEST REPORT

1. Name of Customer

Tilakhera Limestone Mine,

Mine Lease Area (MLA) - 07/97 M/s J.K. Cement Works Mangrol,

Tehsil - Nimbahera, District - Chittorgarh,

State-Rajasthan (INDIA),

2. Purchase Order Number

4600093211 Dated:- 13.06.2023

3. Date & Time of Monitoring

14.09.2023/10:00AM

Sample Identification

Fugitive Sample

5. Condition of Sample

Sealed/Ok

6. Sample Received On

15.09.2023

7. Period of Analysis 8. Name of Location

15.09.2023 to 25.09.2023

Near Loading point of Tilakhera Mine

9. Method of Sampling IS: 5182(Part 2, 4, 6) & Instrument Manual

S. No	Monitoring Details	Unit	Results
1.	Duration of Survey	Minutes	484.3
2.	Average Flow rate for PM ₁₀	M ³ / Min	1.175
3.	Ambient Temperature	°C	27.8
4.	Relative Humidity	%	43

Results Ambient Air Quality

S. No	Parameters	Test Method	Unit	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
Chemic	al Testing - Atmospl	neric Pollution – Fugitive Emis	sion		
1.	SO ₂	IS:5182 (Part-2)	µg/m³	BDL(<6)	80
2.	NO ₂	IS:5182 (Part-6)	μg/m³	10.33	80
3.	SPM	IS:5182 (Part-4)	µg/m³	324.10	600

BDL- Below Detection Limit

Tested By

(Leena Sharma)

Chemist

Authorized Signatory

(mreesh Kumar)

Head & Dy. GM Environmental & Chamier, GM

Wolkem India Limited E-102, M.I.A., UDAIPUR (Rajasthan)

Note

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Registered & Corporate Office:

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Report No. 20230915031/B

Phone: 91 294 2494600 to 02 E-mail: info.wcs@wolkem.com

Report Issue Date: - 26.09.2023

TEST REPORT

1. Name of Customer : Tilakhera Limestone Mine.

Mine Lease Area (MLA) – 07/97 M/s J.K. Cement Works Mangrol,

Tehsil - Nimbahera, District - Chittorgarh.

State- Rajasthan (INDIA),

2. Purchase Order Number : 4600093211 Dated:- 13.06.2023

3. Date & Time of Monitoring : 14.09.2023/10:00AM

4 Sample Identification Fugitive Sample
5 Condition of Sample Sealed/Ok
6 Sample Received On 15.09.2023

7. Period of Analysis 15.09.2023 to 25.09.2023

8. Name of Location : Near Loading point of Tilakhera Mine

9. Method of Sampling : Instrument Manual

S. No	Monitoring Details	Unit	Results
1.	Ambient Temperature	°C	27.8
2.	Relative Humidity	%	43
	Relative Humidity	%	43

Results Ambient Air Quality

S. No	Parameters	Test Method	Unit	Results	NAAQS (CPCB Norms) New Delhi dt. 18 th Nov. 2009
Chemic	cal Testing - Atmosph	eric Pollution – Fugitive Emis	ssion		
1.	CO	BY CO Meter	mg/m ³	0.36	04 (1 hour)

BDL- Below Detection Limit

Tested By

(Leena Sharma)

Chemist

Authorized Signatory

(Amreesh Kumar) Head & Dy. GM

Wolkem India Limited E-102, M.I.A., UDAIPUR (Rajasthan)

media without our special permission in writing.

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Phone: 91 294 2494600 to 02 E-mail: info.wcs@wolkem.com

Report Issue Date: 23.06.2023

TEST REPORT

Tilakhera Limestone Mine, 1. Name of Customer

> Mine Lease Area(MLA) - 07/97 M/s J.K. Cement Works Mangrol,

Tehsil - Nimbahera, District - Chittorgarh,

State- Rajasthan (INDIA),

4600093211 Dated:- 13.06.2023 2. Purchase order Number

09.06.2023 3. Date of Monitoring Noise Sample 4. Sample Identification

5. Condition of Sample NA

10.06.2023 6. Sample Received On

7. Period of Analysis NA

8. Test Methods Reference IS: 9989- 1981 (Reaffirmed 2014)

Noise Level Monitoring Results

S. No	Station Point	Report No.		ure Level dB Time	Sound pressure Level dB Night Time	
3. 140	Station Form	rioport ito:	Maximum	Minimum	Maximum	Minimum
1.	Near Mine Office, Tilakhera Mine	20230610024	64.3	56.1	55.2	49.2
2.	Near Ravana Office, Tilakhera Mine	20230610025	59.8	55.3	56.1	45.3

CPCB	Norms
------	-------

OF CD IN	711119	Day time dB	Night Time dB
S. No	Category of area	Day time dB 6.00 AM to 10.00PM	10.00PM to 6.00am
1	Industrial area	75.0	70.0
2	Commercial area	65.0	55.0
3	Residential area	55.0	45.0
J.	Silence area	50.0	40.0
4.	Siletice area		A. Abariand Cianatan

Tested By

(Leena Sharma)

Chemist

Authorized Signatory

(Manish Bhagora)

Chemist

Environmental & Chemical Laboratory Wolkem India Limited E-102, M.I.A., UDAIPUR (Rajasthan)

Note

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INDIA LIMITED

Phone: 91 294 2494600 to 02 E-mail: info.wcs@wolkem.com

Report Issue Date: - 22.08.2023

Report No. 20230811016

TEST REPORT

Tilakhera Limestone Mine, 1. Name of Customer

> Mine Lease Area(MLA) - 07/97, M/s J.K. Cement Works Mangrol

Tehsil - Nimbahera, District - Chittorgarh,

State-Rajasthan (INDIA),

4600093211 Dated:- 13.06.2023 2. Purchase order Number

3. Sample Identification Ground water 4. Condition of Sample Sealed/Ok

5. Date & Time of Sampling 10.08.2023/02:30PM

6. Sample received on 11.08.2023

11.08.2023 to 22.08.2023 7. Period of Analysis 8. Name of Sample & Location: Potable & Domestic water

(Tilakhera Mine Tube well Ground water)

IS:3025 (Pt 1) 1987 9. Method of Sampling

S. No	Environment Condition		Unit		Results	
1.	Ambient Temperature		°C		34.1	
2.	Relative Humidity		%		59	
o N-	D	Test Method	Unit	Results	Limits :- IS	S-10500:2012
S. No.	Parameters	rest Method	Onit	Results	Acceptable	Permissible
Chemic	al Testing – Water- Ground	Water				
1.	pH (at 27°C)	IS:3025(Part-11)	-	6.97	6.5 to 8.5	No Relaxation
2.	Conductivity (at 25°C)	IS:3025(Part-14)	µs/cm	285.8	-	-
3.	Color	IS:3025(Part-4)	Hazen	<5	5	15
4.	Odour	IS:3025(Part-5)	-	Agreeable	Agreeable	Agreeable
5.	Turbidity	. IS:3025(Part-10)	NTU	0.50	1	5
6.	Total Dissolve Solid	IS:3025(Part-16)	mg/L	184	500	2000
7.	Total Suspended Solid	IS:3025(Part-17)	mg/L	BDL(<5)	-	-
8.	Total Hardness as CaCo ₃	IS:3025(Part-21)	mg/L	108	200	600
9.	Calcium as Ca ²⁺	IS:3025(Part-40)	mg/L	33.6	75	200
10.	Magnesium as Mg ²⁺	IS:3025(Part-46)	mg/L	5.76	30	100
11.	Total Alkalinity	IS:3025(Part-23)	mg/L	48	200	600
12.	Chlorides as Cl	IS:3025(Part-32)	mg/L	20	250	1000
13.	Oil & Grease	IS:3025(Part-39)	mg/L	BDL(<0.4)	-	-
14.	Fluoride as F-	APHA 23rd Ed., 4500 FD	mg/L	BDL(<0.1)	1.0	1.5
Chemic	al Testing – Residues – Gro	und water	consequences to the same state of			
15.	Iron as Fe	APHA 23rd Ed.3111B	mg/L	BDL(<0.1)	0.3	No Relaxation

BDL-Below Detection Limit

(Manali Vyas) Asst.Chemist

Tested By

Authorized Signatory

(Puran Singh) Sr.Chemist

Environmental & Chemical Laboratory Wolkem India Limited

Note Complaint Register is available in lab / Email ID lab.office@wolkem.com

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Registered & Corporate Office:

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Phone: 91 294 2494600 to 02 E-mail: info.wcs@wolkem.com

Report No.20230811049

Report Issue Date: - 22.08.2023

TEST REPORT

Mangrol Limestone Mine, 1. Name of Customer

ML No. -26/08,

M/s J.K. Cement Works Mangrol,

Tehsil - Nimbahera, District - Chittorgarh,

State-Rajasthan (INDIA),

4600093211 Dated:- 13.06.2023 2. Purchase Order No.

3. Sample Identification Potable water 4. Condition of sample Sealed/Ok

5. Source/Location Potable & Domestic water

(Tubewell in Plantation Area Ground water)

Environmental & Chemical Laboratory, Wolkem India Limited 6. Sampling done by

11.08.2023 7. Sample Received on

11.08.2023 to 14.08.2023 8. Period of Testing 9. Environmental conditions Temp 34.7°C/RH 64%

IS: 1622-1981 10. Sampling method

S. No.	Parameters	Test Method	Unit	Results	Limit (IS 10500:2012)
Biologic	al Testing – Water- Potal	oe water			
1.	E.coli	IS 15185:2016	Per/ 100ml	Not Detectable	Shall not be detectable/100ml
2.	Total Coliforms	IS 15185:2016	Per/ 100ml	Not Detectable	Shall not be detectable/100ml

Authorized Signatory

Amreesh Kumar (Head & Dy. GM)

Microbiology Testing Laboratory

Wolkem India Limited F-102, MIA, HDAIPUR (Raiasthan)

Complaint Register is available in lab / Email ID lab.office@wolkem.com

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our special permission in writing.

The samples will be destroyed after 07 days from the date of issue of test certificate unless otherwise specified.

Any discrepancy in test results should be reported within 03 days

Bacteriolo

٠	rical Quality	of Drinking Water as per IS:10500	
109	S. No.	Organisms	Requirements
	1	All water intended for drinking a. E. Coli	Shall not be detectable in any 100 ml sample
	2	Treated water entering the distribution system a E. coli b. Total coliform bacteria	Shall not be detectable in any 100 ml sample Shall not be detectable in any 100 ml sample

Page 1 of 1 End of Report_





INDIA LIMITED

Phone: 91 294 2494600 to 02 E-mail: info.wcs@wolkem.com

Report Issue Date: - 22.08.2023

Report No. 20230811018

TEST REPORT

1. Name of Customer

Tilakhera Limestone Mine,

Mine Lease Area(MLA) - 07/97, M/s J.K. Cement Works Mangrol,

Tehsil - Nimbahera, District - Chittorgarh,

State-Rajasthan (INDIA),

2. Purchase order Number

4600093211 Dated:- 13.06.2023

3. Sample Identification

Potable water

4. Condition of Sample

Sealed/Ok

5. Date & Time of Sampling

10.08.2023/02:55PM

6. Sample received on

11.08.2023

7. Period of Analysis 8. Name of Sample & Location:

11.08.2023 to 22.08.2023 Potable & Domestic water

(Tilakhera Mine Pit-water Surface water)

9. Method of Sampling IS:3025 (Pt 1) 1987

Environment Condition			Unit	Results		
Ambient Temperature Relative Humidity			°C	34.4 64		
			%			
			Regulte	Limits :- IS-10500:2012		
Parameters	rest Method	Onit	Results	Acceptable	Permissible	
al Testing – Water- Potable	Water					
pH (at 27°C)	IS:3025(Part-11)	-	7.49	6.5 to 8.5	No Relaxation	
Conductivity (at 25°C)	IS:3025(Part-14)	µs/cm	628.0	-	-	
Color	IS:3025(Part-4)	Hazen	<5	5	15	
Odour	IS:3025(Part-5)	-	Agreeable	Agreeable	Agreeable	
Turbidity	IS:3025(Part-10)	NTU	0.70	1	5	
Total Dissolve Solid	IS:3025(Part-16)	mg/L	406	500	2000	
Total Suspended Solid	IS:3025(Part-17)	mg/L	06	-	-	
Total Hardness as CaCo ₃	IS:3025(Part-21)	mg/L	224	200	600	
Calcium as Ca ²⁺	IS:3025(Part-40)	mg/L	52.8	75	200	
	IS:3025(Part-46)	mg/L	22.1	30	100	
Total Alkalinity	IS:3025(Part-23)	mg/L	68	200	600	
Chlorides as Cl	IS:3025(Part-32)	mg/L	58	250	1000	
Oil & Grease	IS:3025(Part-39)	mg/L	BDL(<0.4)	-	-	
Fluoride as F-	APHA 23rd Ed., 4500 FD	mg/L	0.40	1.0	1.5	
al Testing – Residues – Pota	able water					
The second secon	APHA 23rd Ed.3111B	mg/L	BDL(<0.1)	0.3	No Relaxation	
	Relative Humidity Parameters al Testing – Water- Potable V pH (at 27°C) Conductivity (at 25°C) Color Odour Turbidity Total Dissolve Solid Total Suspended Solid Total Hardness as CaCo ₃ Calcium as Ca ²⁺ Magnesium as Mg ²⁺ Total Alkalinity Chlorides as Cl' Oil & Grease Fluoride as F-	Ambient Temperature Relative Humidity Parameters Test Method al Testing – Water- Potable Water pH (at 27°C) IS:3025(Part-11) Conductivity (at 25°C) IS:3025(Part-14) Color IS:3025(Part-4) Odour IS:3025(Part-5) Turbidity IS:3025(Part-10) Total Dissolve Solid IS:3025(Part-16) Total Suspended Solid IS:3025(Part-17) Total Hardness as CaCo ₃ IS:3025(Part-21) Calcium as Ca ²⁺ IS:3025(Part-40) Magnesium as Mg ²⁺ IS:3025(Part-46) Total Alkalinity IS:3025(Part-23) Chlorides as Cl ⁻ IS:3025(Part-32) Oil & Grease IS:3025(Part-39) Fluoride as F- APHA 23rd Ed., 4500 FD al Testing – Residues – Potable water	Ambient Temperature Relative Humidity Parameters Test Method Unit al Testing – Water- Potable Water pH (at 27°C) IS:3025(Part-11) - Conductivity (at 25°C) IS:3025(Part-14) µs/cm Color IS:3025(Part-4) Hazen Odour IS:3025(Part-5) - Turbidity IS:3025(Part-10) NTU Total Dissolve Solid IS:3025(Part-16) mg/L Total Suspended Solid IS:3025(Part-17) mg/L Total Hardness as CaCo ₃ IS:3025(Part-21) mg/L Calcium as Ca ²⁺ IS:3025(Part-40) mg/L Magnesium as Mg ²⁺ IS:3025(Part-46) mg/L Total Alkalinity IS:3025(Part-23) mg/L Chlorides as Cl ⁻ IS:3025(Part-32) mg/L Oil & Grease IS:3025(Part-39) mg/L Fluoride as F- APHA 23rd Ed., 4500 FD mg/L	Ambient Temperature °C Relative Humidity % Parameters Test Method Unit Results al Testing – Water- Potable Water pH (at 27°C) IS:3025(Part-11) - 7.49 Conductivity (at 25°C) IS:3025(Part-14) μs/cm 628.0 Color IS:3025(Part-4) Hazen <5	Ambient Temperature °C 34.4 Relative Humidity % 64 Parameters Test Method Unit Results Limits: - Is Acceptable al Testing – Water- Potable Water pH (at 27°C) IS:3025(Part-11) - 7.49 6.5 to 8.5 Conductivity (at 25°C) IS:3025(Part-14) μs/cm 628.0 - Color IS:3025(Part-4) Hazen 45 5 Odour IS:3025(Part-4) Hazen - - Agreeable Agreeable<	

BDL-Below Detection Limit

Asst.Chemist

Authorized Signatory

Environmental & Chemical Laboratory

Note

Complaint Register is available in lab / Email ID lab.office@wolkem.com

The results listed refer only to the tested sample (s) and parameter (s) Endorsement of product is neither inferred nor implied.

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The samples will be destroyed after 15 days from the date of issue of test certificate unless otherwise specified

Any discrepancy in test results should be reported within 15 days.

Page 1 of 1 End of Report_

Registered & Corporate Office:

"Wolkem House", E-101, Mewar Industrial Area, Madri, Udalpur - 313003, Rajasthan-India

Phone: +91 294 2494600 - 02 E-mail: info@wolkem.com





Phone: 91 294 2494600 to 02 E-mail: info.wcs@wolkem.com



Report No.20230811048

Report Issue Date: - 22.08.2023

TEST REPORT

1. Name of Customer Tilakhera Limestone Mine.

> Mine Lease Area(MLA) - 07/97. M/s J.K. Cement Works Mangrol,

Tehsil - Nimbahera, District - Chittorgarh,

State- Rajasthan (INDIA).

2. Purchase Order No. 4600093211 Dated:- 13.06.2023

3. Sample Identification Potable water 4. Condition of sample Sealed/Ok

5. Source/Location Potable & Domestic water

(Tilakhera Mine Pit-water Surface water)

6. Sampling done by Environmental & Chemical Laboratory, Wolkem India Limited

7. Sample Received on 11.08.2023

8. Period of Testing 11.08.2023 to 14.08.2023 9. Environmental conditions Temp 34.4°C/RH 64%

10. Sampling method IS: 1622-1981

S. No.	Parameters	Test Method	Unit	Results	Limit (IS 10500:2012)
Biologic	al Testing – Water- Potal	ole water			
1.	E.coli	IS 15185:2016	Per/ 100ml	Not Detectable	Shall not be detectable/100ml
2.	Total Coliforms	IS 15185:2016	Per/ 100ml	Not Detectable	Shall not be detectable/100ml

Authorized Signatory

(Head & Dy. GM)

Microbiology Testing Laboratory

Wolkem India Limited E-102 MILA HIDAIPUR (Raiasthan)

Complaint Register is available in lab / Email ID lab.office@wolkem.com

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Any discrepancy in test results should be reported within 03 days

Page 1 of 1 End of Report_





Laboratory : E- 102, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan (INDIA)



INDIA LIMITED

Phone: 91 294 2494600 to 02 E-mail: info.wcs@wolkem.com

Report Issue Date: - 22.08.2023

Report No. 20230811017

TEST REPORT

1. Name of Customer

Tilakhera Limestone Mine, Mine Lease Area(MLA) - 07/97,

M/s J.K. Cement Works Mangrol,

Tehsil - Nimbahera, District – Chittorgarh,

State-Rajasthan (INDIA),

2. Purchase order Number

4600093211 Dated:- 13.06.2023

3. Sample Identification

Ground water Sealed/Ok

4. Condition of Sample

10.08.2023/02:45PM

5. Date & Time of Sampling

6. Sample received on 7. Period of Analysis

11.08.2023 11.08.2023 to 22.08.2023

8. Name of Sample & Location:

Potable & Domestic water (Hand pump-Shahbad Ground water)

9. Method of Sampling

IS:3025 (Pt 1) 1987

S. No	Environment Condition		Unit		Results		
1.	Ambient Temperature				34.5		
2.	Relative Humidity				58		
- N	B	Test Method	Unit	Results		S-10500:2012	
S. No.	Parameters	rest Method	Oiiit	Results	Acceptable	Permissible	
Chemic	al Testing – Water- Ground	Water					
1.	pH (at 27°C)	IS:3025(Part-11)	-	7.14	6.5 to 8.5	No Relaxation	
2.	Conductivity (at 25°C)	IS:3025(Part-14)	µs/cm	1015	-	-	
3.	Color	IS:3025(Part-4)	Hazen	<5	5	15	
4.	Odour	IS:3025(Part-5)	-	Agreeable	Agreeable	Agreeable	
5.	Turbidity	IS:3025(Part-10)	NTU	0.70	1	5	
6.	Total Dissolve Solid	· IS:3025(Part-16)	mg/L	656	500	2000	
7.	Total Suspended Solid	IS:3025(Part-17)	mg/L	10	-	-	
8.	Total Hardness as CaCo ₃	IS:3025(Part-21)	mg/L	324	200	600	
9.	Calcium as Ca ²⁺	IS:3025(Part-40)	mg/L	108.8	75	200	
10.	Magnesium as Mg ²⁺	IS:3025(Part-46)	mg/L	12.5	30	100	
11.	Total Alkalinity	IS:3025(Part-23)	mg/L	82	200	600	
12.	Chlorides as Cl	IS:3025(Part-32)	mg/L	113	250	1000	
13.	Oil & Grease	IS:3025(Part-39)	mg/L	BDL(<0.4)	-	-	
14.	Fluoride as F-	APHA 23rd Ed., 4500 FD	mg/L	0.65	1.0	1.5	
Chemic	al Testing – Residues – Gro	und water					
15.	Iron as Fe	APHA 23rd Ed.3111B	mg/L	0.14	0.3	No Relaxation	

BDL-Below Detection Limit

(Manali Vyas)

Asst.Chemist

Authorized Signatory

Environmental & Chemical Laboratory

Note

Complaint Register is available in lab / Email ID lab.office@wolkem.com

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The samples will be destroyed after 15 days from the date of issue of test certificate unless otherwise specified

Any discrepancy in test results should be reported within 15 days.

Page 1 of 1 End of Report_

Registered & Corporate Office:

"Wolkem House", E-101, Mewar Industrial Area, Madri, Udalpur - 313003, Rajasthan-India Phone: +91 294 2494600 - 02 E-mail: info@wolkem.com



Laboratory : E- 102, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan (INDIA)

Phone: 91 294 2494600 to 02 E-mail: info.wcs@wolkem.com

Report No.20230811047

Report Issue Date: - 22.08.2023

TEST REPORT

1. Name of Customer Tilakhera Limestone Mine.

> Mine Lease Area(MLA) - 07/97, M/s J.K. Cement Works Mangrol,

Tehsil - Nimbahera, District - Chittorgarh,

State- Rajasthan (INDIA),

2. Purchase Order No. 4600093211 Dated:- 13.06.2023

3. Sample Identification Potable water 4. Condition of sample Sealed/Ok

5. Source/Location Potable & Domestic water

(Hand pump - Shahbad Ground water)

6. Sampling done by Environmental & Chemical Laboratory, Wolkem India Limited

7. Sample Received on 11.08.2023

8. Period of Testing 11.08.2023 to 14.08.2023 9. Environmental conditions Temp 34.5°C/RH 58%

10. Sampling method IS: 1622-1981

S. No.	Parameters	Test Method	Unit	Results	Limit (IS 10500:2012)
Biologic	cal Testing – Water- Potal	ble water			
1.	E.coli	IS 15185:2016	Per/ 100ml	Not Detectable	Shall not be detectable/100ml
2.	Total Coliforms	IS 15185:2016	Per/ 100ml	Not Detectable	Shall not be detectable/100ml

Authorized Signatory

(Head & Dy. GM)

Microbiology Testing Laboratory

Wolkem India Limited MAPPIR (Balasthan) F-102 V

Complaint Register is available in lab / Email ID lab.office@wolkem.com

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

This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing

The samples will be destroyed after 07 days from the date of issue of test certificate unless otherwise specified

Any discrepancy in test results should be reported within 03 days Bacteriological Quality of Drinking Water as per IS:10500

S. No Organisms Requirements All water intended for drinking Shall not be detectable in any 100 ml sample E. Coli Treated water entering the distribution system Shall not be detectable in any 100 ml sample E. coli Shall not be detectable in any 100 ml sample Total coliform bacteria

> Page 1 of 1 End of Report



Laboratory: E- 102, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan (INDIA)



Phone: 91 294 2494600 to 02 E-mail: info.wcs@wolkem.com

Report Issue Date: - 22.08.2023

Report No. 20230811019

TEST REPORT

1. Name of Customer Mangrol Limestone Mine,

ML No. - 26/08,

M/s J.K. Cement Works Mangrol,

Tehsil - Nimbahera, District - Chittorgarh,

State-Rajasthan (INDIA),

4600093211 Dated: - 13.06.2023 2. Purchase order Number

Ground water 3. Sample Identification 4. Condition of Sample Sealed/Ok

5. Date & Time of Sampling 10.08.2023/03:15PM

11.08.2023 6. Sample received on

7. Period of Analysis 11.08.2023 to 22.08.2023 8. Name of Sample & Location: Potable & Domestic water

(Tubewell in Plantation Area Ground water)

9. Method of Sampling IS:3025 (Pt 1) 1987

S. No	Environment Condition		Unit		Results		
1.	Ambient Temperature		°C		34.7		
2.	Relative Humidity		%		64		
0 N-	N	Tank Makhad	l Imie	Results	Limits :- IS-10500:20		
S. No.	Parameters	Test Method	Unit	Results	Acceptable	Permissible	
Chemic	al Testing – Water- Ground	Water					
1.	pH (at 27°C)	IS:3025(Part-11)	-	7.01	6.5 to 8.5	No Relaxation	
2.	Conductivity (at 25°C)	IS:3025(Part-14)	µs/cm	194.3	-	-	
3.	Color	IS:3025(Part-4)	Hazen	<5	5	15	
4.	Odour	IS:3025(Part-5)	-	Agreeable	Agreeable	Agreeable	
5.	Turbidity	IS:3025(Part-10)	NTU	0.60	1	5	
6.	Total Dissolve Solid	IS:3025(Part-16)	mg/L	122	500	2000	
7.	Total Suspended Solid	IS:3025(Part-17)	mg/L	BDL(<5)	-	-	
8.	Total Hardness as CaCo₃	IS:3025(Part-21)	mg/L	76	200	600	
9.	Calcium as Ca ²⁺	IS:3025(Part-40)	mg/L	22.4	75	200	
10.	Magnesium as Mg ²⁺	IS:3025(Part-46)	mg/L	4.8	30	100	
11.	Total Alkalinity	IS:3025(Part-23)	mg/L	40	200	600	
12.	Chlorides as Cl	IS:3025(Part-32)	mg/L	13	250	1000	
13.	Oil & Grease	IS:3025(Part-39)	mg/L	BDL(<0.4)	-	-	
14.	Fluoride as F-	APHA 23rd Ed., 4500 FD	mg/L	BDL(<0.1)	1.0	1.5	
Chemic	cal Testing – Residues – Gro	und water					
15.	Iron as Fe	APHA 23rd Ed.3111B	mg/L	BDL(<0.1)	0.3	No Relaxation	

BDL-Below Detection Limit

(Manali Vyas) Asst.Chemist

Tested By

Authorized Signatory

Sr.Chemist

Environmental & Chemical Laboratory Wolkem India Lim

Note

Complaint Register is available in lab / Email ID lab.office@wolkem.com

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special permission in writing. The samples will be destroyed after 15 days from the date of issue of test certificate unless otherwise specified

Any discrepancy in test results should be reported within 15 days.

Page 1 of 1 End of Report_

Registered & Corporate Office:

"Wolkem House", E-101, Mewar Industrial Area, Madri, Udalpur - 313003, Rajasthan-India Phone: +91 294 2494600 - 02 E-mail: info@wolkem.com





Laboratory: E- 102, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan (INDIA) Phone: 91 294 2494600 to 02 E-mail: info.wcs@wolkem.com



Report Issue Date: - 22.08.2023

Report No.20230811046

TEST REPORT

Tilakhera Limestone Mine, 1. Name of Customer

Mine Lease Area(MLA) - 07/97, M/s J.K. Cement Works Mangrol,

Tehsil - Nimbahera, District - Chittorgarh,

State- Rajasthan (INDIA),

4600093211 Dated:- 13.06.2023 2. Purchase Order No.

Potable water 3. Sample Identification Sealed/Ok 4. Condition of sample

Potable & Domestic water 5. Source/Location

(Tilakhera Mine Tube well Ground water) Environmental & Chemical Laboratory, Wolkem India Limited

6. Sampling done by 7. Sample Received on 11.08.2023 to 14.08.2023

8. Period of Testing Temp 34.1°C/RH 59% 9. Environmental conditions

IS: 1622-1981 10. Sampling method

	10. Sampling method			D dec	Limit	
S. No.	Parameters			Results	(IS 10500:2012)	
Biologic	al Testing – Water- Potab	le water	Per/ 100ml	Not Detectable	Shall not be detectable/100ml	
1.	E.coli	IS 15185:2016	Per/ 100ml	Not Detectable	Shall not be detectable/100ml	
2.	Total Coliforms	IS 15185:2016			d Signatory	

Amreesh Kumar (Head & Dy. GM)

Microbiology Testing Laboratory Wolkem India Limited F-102 MILA HIDAPPUR (Raiasthan)

Complaint Register is available in lab / Email ID lab.office@wolkem.com

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

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The samples will be destroyed after 07 days from the date of issue of test certificate unless otherwise specified

Any discrepancy in test results should be reported within 03 days.

Bacteriological Quality of Drinking Water as per IS:10500 Requirements Organisms S. No. Shall not be detectable in any 100 ml sample All water intended for drinking E. Coli Shall not be detectable in any 100 ml sample Treated water entering the distribution system Shall not be detectable in any 100 ml sample E. coli 2 Total coliform bacteria

> Page 1 of 1 End of Report

Registered & Corporate Office:

"Wolkem House", E-101, Mewar Industrial Area, Madri, Udalpur - 313003, Rajasthan-India Phone: +91 294 2494600 - 02 E-mail: info@wolkem.com



Laboratory : E- 102, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan (INDIA)



Phone: 91 294 2494600 to 02 E-mail: info.wcs@wolkem.com

Report Issue Date: - 22.08.2023

Report No. 20230811020

TEST REPORT

Mangrol Limestone Mine, 1. Name of Customer

ML No. -26/08,

M/s J.K. Cement Works Mangrol,

Tehsil - Nimbahera, District - Chittorgarh,

State-Rajasthan (INDIA),

4600093211 Dated:- 13.06.2023 2. Purchase order Number

3. Sample Identification Ground water Sealed/Ok 4. Condition of Sample

10.08.2023/03:25PM 5. Date & Time of Sampling

6. Sample received on 11.08.2023

11.08.2023 to 22.08.2023 7. Period of Analysis 8. Name of Sample & Location: Potable & Domestic water

(Tubewell in Gopal Ji, Agriculture land Ground water)

IS:3025 (Pt 1) 1987 9 Method of Sampling

	Method of Sampling Environment Condition	: 18:3025 (Pt 1)	Unit		Results	
S. No			°C	The state of the s	33.4	
1.	Ambient Temperature Relative Humidity		%		68	
2.	Relative Humbidgy	The state of the s			Limits :- IS	S-10500:2012
S. No.	Parameters	Test Method	Unit	Results	Acceptable	Permissible
Chemic	al Testing – Water- Ground	Water		221		
1.	pH (at 27°C)	IS:3025(Part-11)	-	7.76	6.5 to 8.5	No Relaxation
2.	Conductivity (at 25°C)	IS:3025(Part-14)	µs/cm	599.1	-	-
	Color	IS:3025(Part-4)	Hazen	<5	5	15
3.	the state of the s	IS:3025(Part-5)	-	Agreeable	Agreeable	Agreeable
4.	Odour	IS:3025(Part-10)	NTU	0.80	1	5
5.	Turbidity	IS:3025(Part-16)	mg/L	384	500	2000
6.	Total Dissolve Solid	IS:3025(Part-17)	mg/L	BDL(<5)	-	-
7.	Total Suspended Solid	IS:3025(Part-21)	mg/L	196	200	600
8.	Total Hardness as CaCo ₃	IS:3025(Part-40)	mg/L	44.8	75	200
9.	Calcium as Ca ²⁺		mg/L	20.2	30	100
10.	Magnesium as Mg ²⁺	IS:3025(Part-46)	mg/L	80	200	600
11.	Total Alkalinity	IS:3025(Part-23)		48	250	1000
12.	Chlorides as Cl ⁻	IS:3025(Part-32)	mg/L	BDL(<0.4)		-
13.	Oil & Grease	IS:3025(Part-39)	mg/L		1.0	1.5
14	Fluoride as F-	APHA 23rd Ed., 4500 FD	mg/L	BDL(<0.1)	1.0	
hemic	cal Testing – Residues – Gro	und water		DDI (=0.4)	0.3	No Relaxation
15.	Iron as Fe	APHA 23rd Ed.3111B	mg/L	BDL(<0.1)	0.3	140 TOTAL

BDL-Below Detection Limit

(Manali Vyas) **Asst.Chemist**

Tested By

Authorized Signatory

Sr.Chemist

Environmental & Chemical Laboratory

Wolkem India

Note

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The samples will be destroyed after 15 days from the date of issue of test certificate unless otherwise specified

Any discrepancy in test results should be reported within 15 days

Page 1 of 1 End of Report_

Registered & Corporate Office:

"Wolkern House", E-101, Mewar Industrial Area, Madri, Udalpur - 313003, Rajasthan-India

Phone: +91 294 2494600 - 02 E-mail: info@wolkem.com







Phone: 91 294 2494600 to 02 E-mail: info.wcs@wolkem.com

Report No.20230811050

Report Issue Date: - 22.08.2023

TEST REPORT

1. Name of Customer

Mangrol Limestone Mine,

ML No. -26/08,

M/s J.K. Cement Works Mangrol,

Tehsil - Nimbahera, District - Chittorgarh,

State-Rajasthan (INDIA),

2. Purchase Order No.

4600093211 Dated: - 13.06.2023

3. Sample Identification

Potable water

4. Condition of sample 5. Source/Location

Sealed/Ok Potable & Domestic water

(Tubewell in Gopal Ji, Agriculture land Ground water)

6. Sampling done by

Environmental & Chemical Laboratory, Wolkem India Limited

7. Sample Received on

11.08.2023

8. Period of Testing

11.08.2023 to 14.08.2023

9. Environmental conditions

Temp 33.4°C/RH 68%

10. Sampling method

IS: 1622-1981

S. No.	Parameters	Test Method	Unit	Results	Limit (IS 10500:2012)
Biologic	al Testing – Water- Potal	ble water			
1.	E.coli	IS 15185:2016	Per/ 100ml	Not Detectable	Shall not be detectable/100ml
2.	Total Coliforms	IS 15185:2016	Per/ 100ml	Not Detectable	Shall not be detectable/100ml

Authorized Signatory

(Head & Dy. GM)

Microbiology Testing Laboratory

Wolkem India Limited

E-102, MIA, HDAIPHR (Baiasthan)

Complaint Register is available in lab / Email ID lab.office@wolkem.com

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Any discrepancy in test results should be reported within 03 days. Bacteriolog

9	gical Quality	of Drinking Water as per IS:10500	
İ	S. No	Organisms	Requirements
	1	All water intended for drinking a E. Coli	Shall not be detectable in any 100 ml sample
	2	Treated water entering the distribution system a. E. coli b. Total coliform bacteria	Shall not be detectable in any 100 ml sample Shall not be detectable in any 100 ml sample

Page 1 of 1 End of Report





Event Report

Velocity (mm/s)

Date/Time

Vert at 13:43:09 September 4, 2023

Trigger Source Range

Geo: 0.500 mm/s Geo: 254.0 mm/s 3.0 sec at 2048 sps

Record Time

Operator/Setup: Operator/ATKM.MMB

Notes Location:

NORTH PIT

Client:

AMAL TILAKHERA MINE

User Name:

J K CEMENT WORKS MANGROL

General:

LIMESTONE MINE

Microphone

Linear Weighting

PSPL ZC Freq 107.5 dB(L) at 0.868 sec 4.6 Hz

Channel Test Passed (Freq = 20.5 Hz Amp = 1176 mv)

4.1

4.3

PPV ZC Freq Time (Rel. to Trig) Peak Acceleration	Tran 1.718 57 0.058 0.058	Vert 1.206 20 0.128 0.030	Long 2.325 23 0.237 0.081	mm/s Hz sec
Peak Displacement Sensor Check Frequency	0.056 0.006 Passed 7.3	0.030 0.010 Passed 7.3	0.081 0.012 Passed 7.3	g mm Hz

Peak Vector Sum 2.806 mm/s at 0.058 sec

Overswing Ratio

Serial Number Battery Level

File Name

UM19522 V 10-90GC Micromate ISEE

3.6 Volts

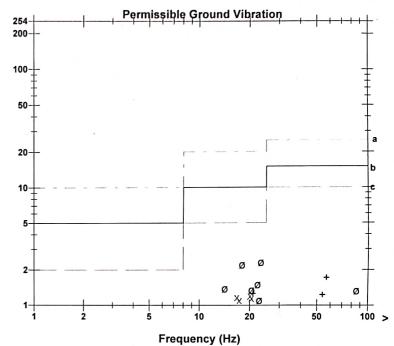
September 7, 2022 by UES New Delhi **Unit Calibration**

UM19522_20230904134309.IDFW

Post Event Notes

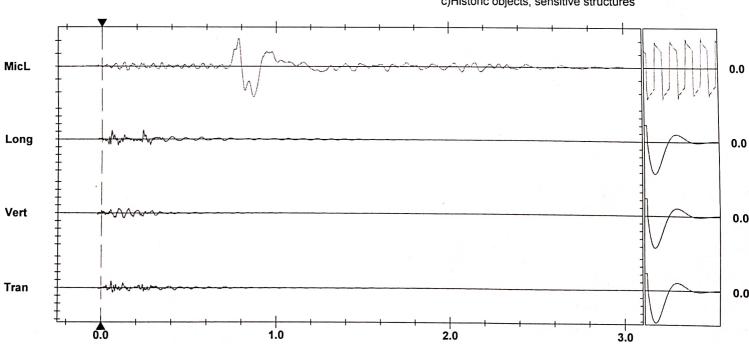
BID= 1--150, Bench- III N-Pit, 7 holes, C/D= 22.55 Kg Distance from back side of Blasting Face= 300 Mtr.

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: 2.000 pa.(L)/div Trigger = ▶

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Sensor Check



REGIONAL OFFICE

RAJASTHAN STATE POLLUTION CONTROL BOARD

Near FCI Godown, Chanderia, Chittorgarh

RPCB/ROC/Chittorgarh/Lab-16/2023-24/48

Date: 31/07/23

Group Incharge (Mines)

Paid Monitoring

Rajasthan Pollution Control Board,

Jaipur

Sub.:- Regarding Ambient Noise & air quality monitoring report of lab sample no. 7012-7013 & 7044, 7067 of M/S J. K. Cement Works, ML no. 7/97, Near Village Tila Khera, Tehsil- Nimbahera, District- Chittorgarh

Sir

With reference to above, please find enclosed herewith Ambient Noise & air quality monitoring report of lab sample no. 7012-7013 & 7044, 7067 of M/S J. K. Cement Works, ML no. 7/97, Near Village Tila Khera, Tehsil- Nimbahera, District- Chittorgarh for perusal and further necessary action.

Yours Sincerely,

Encl:- As above.

(Dr. G. K. Songara) Lab Incharge

Sd -

Copy to

- 1. Regional Officer, Rajasthan Pollution Control Board, Chittorgarh
- 2. Unit Head, M/S J. K. Cement Works, ML no. 7/97, Near Village Tila Khera, Tehsil-Nimbahera, District- Chittorgarh

Lab Incharge

DATE OF RECEIPT: 14/07/2023

MONITORED BY: Bhupendra Kumar Soni, SO, Chittorgarh

S.No.	Lab Sample No	Name of Industry / Place	Point of Collection / Location	Date of Monitoring	Noise Level In Day Time(Leq dB(A))	Noise Level In Night Time(Leq dB(A))
1	7012	J.K Cement Works, Mangrol, Village- Tilakhera/Mangrol Tilakhera and Mangrol Tehsil: Nimbahera District: Chittorgarh	Ambient Noise Level Monitoring near view point(Tila Khera Mine)	13/07/2023	63.5	ND

LAB INCHARGE

Rajasthan State Pollution Control Board

DATE OF RECEIPT: 14/07/2023

MONITORED BY: Bhupendra Kumar Soni, SO, Chittorgarh

s.N	Lab Sample No	Name of Industry / Place	Point of Collection / Location	Date of Monitoring	In Day	Noise Level In Night Time(Leq dB(A))
1	7013	J.K Cement Works, Mangrol, Village- Tilakhera/Mangrol Tilakhera and Mangrol Tehsil: Nimbahera District: Chittorgarh	Ambient Noise Level Monitoring near mine office (Tila Khera Mine)	13/07/2023	58	ND

LAB INCHARGE

Rajasthan State Pollution Control Board

(See Rule - 10) Final Report

Report No.: 7044

Report On : 28/07/2023

I hereby certify that I Dr Giriraj Kumar Songara, State Board Analyst duly appointed under sub Section(2) of Section 29 of the Air (Prevention & Control of Pollution) Act, 1981 received on the 14/07/2023 from Bhupendra Kumar Soni, SO, Chittorgarh ,RSPCB Chittorgarh a sample of Ambient Air Quality of M/S J.K Cement Works, Mangrol , Plant - Mangrol [735], Village Mangrol , City- Tilakhera and Mangrol Tehsil- Nimbahera , District- Chittorgarh M.L No- ML-261089/97-Collected from Ambient Air Quality Monitoring near mine office(Tila Khera Mine) Collected on 13/07/2023. The Sample was in a condition fit for analysis as reported below:-

I further certify that I have analyzed the aforementioned sample on 28/07/2023 and declare the result of the analysis to be as below:-

S. No.	Parameters	Result
1	Nitrogen Dioxide as NO2 µg/M3	20.4
2	Particulate Matter (PM10) µg/m3	80
3	PM 2.5 ug/m3	33
4	Sulphur Dioxide as SO2 ug/m3	6.5

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

Signed This On 28/07/2023

BOARD ANALYST

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

(See Rule - 10) **Final Report**

Report No. : 7067

Report On : 28/07/2023

I hereby certify that I Dr Giriraj Kumar Songara, State Board Analyst duly appointed under sub Section(2) of Section 29 of the Air (Prevention & Control of Pollution) Act, 1981 the 14/07/2023 from Bhupendra Kumar Soni, SO, Chittorgarh ,RSPCB Chittorgarh of Ambient Air Quality of M/S J.K Cement Works, Mangrol, Plant - Mangrol [735], Village Mangrol , City- Tilakhera and Mangrol Tehsil- Nimbahera, District- Chittorgarh M.L No- ML-2610807/9> Collected from Ambient Air Quality Monitoring near view point (Tila Khera Mine) Collected on 13/07/2023. The Sample was in a condition fit for analysis as reported below:-

I further certify that I have analyzed the aforementioned sample on 28/07/2023 and declare the result of the analysis to be as below:-

S. No.	Parameters	Result
1	Nitrogen Dioxide as NO2 μg/M3	19.3
2	Particulate Matter (PM10) µg/m3	76
3	PM 2.5 ug/m3	28
4	Sulphur Dioxide as SO2 ug/m3	7.7

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

Signed This On 28/07/2023

BOARD ANALYST

Rajasthan State Pollution Control Board Regional Office Chittorgarh Near FCI Godown, Chanderia, Chittorgarh



REGIONAL OFFICE

RAJASTHAN STATE POLLUTION CONTROL BOARD

Near FCI Godown, Chanderia, Chittorgarh

RPCB/ROC/Chittorgarh/Lab-16/2023-24/7-66

Date: 31/07/23

Group Incharge (Mines)

Paid Monitoring

Rajasthan Pollution Control Board,

Jaipur

Sub.:- Regarding Ambient Noise & air quality monitoring report of lab sample no. 7014-7015 & 7046, 7047 of M/S J. K. Cement Works, ML no. 26/08, Near Village Mangrol, Tehsil- Nimbahera, District- Chittorgarh

Sir

With reference to above, please find enclosed herewith Ambient Noise & air quality monitoring report of lab sample no. 7014-7015 & 7046, 7047 of M/S J. K. Cement Works, ML no. 26/08, Near Village Mangol, Tehsil- Nimbahera, District- Chittorgarh for perusal and further necessary action.

Yours Sincerely,

- sol-

Encl:- As above.

(Dr. G. K. Songara) Lab Incharge

Copy to

- 1. Regional Officer, Rajasthan Pollution Control Board, Chittorgarh
- 2. Unit Head, M/S J. K. Cement Works, ML no 26/08, Near Village Mangrol, Tehsil-Nimbahera, District- Chittorgarh

Lab Incharge

DATE OF RECEIPT: 14/07/2023

MONITORED BY: Bhupendra Kumar Soni, SO, Chittorgarh

S.No.	Lab Sample No	Name of Industry / Place	Point of Collection / Location	Date of Monitoring	Noise Level In Day Time(Leq dB(A))	Noise Level In Night Time(Leq dB(A))	
1	7014	J.K Cement Works, Mangrol, Village- Tilakhera/Mangrol Tilakhera and Mangrol Tehsil: Nimbahera District: Chittorgarh	Ambient Noise Level Monitoring near towards factory (Mangrol Mine)	13/07/2023	63	ND	

LAB INCHARGE

Rajasthan State Pollution Control Board

DATE OF RECEIPT: 14/07/2023

MONITORED BY: Bhupendra Kumar Soni, SO, Chittorgarh

S.No.	Lab Sample No	Name of Industry / Place	Point of Collection / Location	Date of Monitoring	Noise Level In Day Time(Leq dB(A))	Noise Level In Night Time(Leq dB(A))	
1	7015	J.K Cement Works, Mangrol, Village- Tilakhera/MangrolTilakhera and Mangrol Tehsil: Nimbahera District: Chittorgarh	Ambient Noise Level Monitoring near rawana office (Mangrol Mine)	13/07/2023	49.1	ND	

LAB INCHARGE

Rajasthan State Pollution Control Board

(See Rule - 10) Final Report

Report No. : 7046

Report On : 28/07/2023

I hereby certify that I Dr Giriraj Kumar Songara, State Board Analyst duly appointed under sub Section(2) of Section 29 of the Air (Prevention & Control of Pollution) Act, 1981 received on the 14/07/2023 from Bhupendra Kumar Soni, SO, Chittorgarh ,RSPCB Chittorgarh a sample of Ambient Air Quality of M/S J.K Cement Works, Mangrol , Plant - Mangrol [735] ,Village Mangrol , City- Tilakhera and Mangrol Tehsil- Nimbahera , District- Chittorgarh M.L No- ML-26108 Collected from Ambient Air Quality Monitoring near towards factory (Mangrol Mine) Collected on 13/07/2023. The Sample was in a condition fit for analysis as reported below:-

I further certify that I have analyzed the aforementioned sample on 28/07/2023 and declare the result of

the analysis to be as below :-

S. No.	Parameters	Result
1	Nitrogen Dioxide as NO2 μg/M3	20.9
2	Particulate Matter (PM10) µg/m3	77
3	PM 2.5 ug/m3	30
4	Sulphur Dioxide as SO2 ug/m3	6.8

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

Signed This On 28/07/2023

BOARD ANALYST

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

(See Rule - 10) Final Report

Report No.: 7047

Report On : 28/07/2023

I hereby certify that I Dr Giriraj Kumar Songara, State Board Analyst duly appointed under sub Section(2) of Section 29 of the Air (Prevention & Control of Pollution) Act, 1981 received on the 14/07/2023 from Bhupendra Kumar Soni, SO, Chittorgarh ,RSPCB Chittorgarh a sample of Ambient Air Quality of M/S J.K Cement Works, Mangrol , Plant - Mangrol [735] ,Village Mangrol , City- Tilakhera and Mangrol Tehsil- Nimbahera , District- Chittorgarh M.L No- ML-26108 Collected from Ambient Air Quality Monitoring near rawana office(Mangrol Mine) Collected on 13/07/2023. The Sample was in a condition fit for analysis as reported below:-

I further certify that I have analyzed the aforementioned sample on 28/07/2023 and declare the result of the analysis to be as below:-

S. No.	Parameters	Result
1	Nitrogen Dioxide as NO2 μg/M3	20.1
2	Particulate Matter (PM10) µg/m3	74
3	PM 2.5 ug/m3	25
4	Sulphur Dioxide as SO2 ug/m3	7.3

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

Signed This On 28/07/2023

BOARD ANALYST

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



J.K.CEMENT WORKS, MANGROL (RAJ.)

AMBIENT AIR QUALITY REPORT

Period: April-2023 to September-2023

Tilakhera Limestone mine

					וונס	ikiieia L	IIII6210III	e mine					
Sr.No	Month	Towards Factory Gate						Near Ravana Office					
		SPM	PM-10	PM-2.5	SO2	Nox	СО	SPM	PM-10	PM-2.5	SO2	Nox	СО
		(μg/M³)	(µg/M³)	(μg/M³)	(μg/M³)	(μg/M³)	(μg/M³)	(μg/M³)	(μg/M³)	(μg/M³)	(μg/M³)	(μg/M³)	(μg/M³)
		500	100	60	120	120	5000	500	100	60	120	120	5000
1	Apr-23	370	81	25.7	12.7	23.1	767	400	71	26.8	10.3	26.4	842
2	May-23	360	71.5	31	9.1	14.3	773	417	68.8	24.1	11.3	19.8	893
3	Jun-23	391	78.7	30.5	12.6	24.4	745	393	71.4	38.3	13.5	18.1	630
4	Jul-23	378.0	73.3	44.1	11.7	19.1	642	354.5	68.3	43.7	13.0	19.2	670
5	Aug-23	375	73.3	44.8	11.1	18.7	693	376	71.2	43.0	8.9	17.9	710
6	Sep-23	391.7	72.3	38.1	11.4	23.2	670	368.1	70.4	38.2	11.3	19.9	682
Half-Yearly Average		378	75	36	11	20	715	385	70	36	11	20	738
		3 to 10 Meter Distance from Drilling Operation						Near Loading point					
Sr No	Month				502	Nox	CO			_	502	Nox	CO

Sr.No		3 to10 Meter Distance	Near Loading point						
	Month	SPM (µg/M³)	SO2 (μg/M³)	Nox (μg/M³)	CO (µg/M³)	SPM (µg/M³)	SO2 (μg/M³)	Nox (μg/M³)	CO (µg/M³)
		600	120	120	5000	600	120	120	5000
1	Apr-23	405	12.6	24.3	727	424	11.9	22.4	808
2	May-23	401	11.4	23	550	330	13.3	25.1	779
3	Jun-23	381	15.1	21.5	670	370	14.6	22.3	624
4	Jul-23	381	13	22	710	399	11	20	698
5	Aug-23	389	10.2	20.0	734	392	11.4	19.6	728
6	Sep-23	418	14	21	684	447	16	25	632
Half-Yearly Average		396	13	22	679	394	13.0	22.5	712

Monitored By Checked By





J.K. CEMENT WORKS, MANGROL,(RAJASTHAN)

NOISE MONITORING REPORT FOR PHERIPHARY OF TILAKHERA LIMESTONE MINE Period: APRIL 2023 to SEPTEMBER 2023 **NOISE LEVEL** Month Day / Night **Towards Factory Gate Near Ravana Office** Sr.No. Remarks Day 70.4 69.1 1 Apr-23 Night 48.3 48.1 Day 64.1 62.7 May-23 2 Night 49.7 48.3 Day 67.1 62.1 3 Jun-23 Night 48.7 49.7 Day 64.1 66.8 4 Jul-23 52.8 Night 50.7 67.9 Day 66.4 Aug-23 5 52.9 Night 51.8 Day 66.4 62.8 Sep-23 6 Night 51.3 48.4 DAY 66.7 64.9 Half-Yearly Average **NIGHT** 50.4 49.7

Monitored By Checked By

