



Reg A.D

Ref : JKLCL/MIN/MOEF/

Date: 17.11.2022

To,  
The Regional Director,  
Ministry of Environment, Forests and Climatic Change  
Integrated Regional Office, Jaipur, A-209 & 218,  
Aranya Bhawan, Mahatma Gandhi Road,  
Jhalana Institutional Area, Jaipur - 304002, Rajasthan

Sub: Submission of Six-Monthly EC Compliance Report (Oct 2021 -March 2022) of  
Lakshmi Cement Limestone Mines located at Village (s)- Basantgarh, Rampura,  
Rohida, Tehsil- Pindwara, District- Sirohi, Rajasthan.

Ref: Environment Clearance No: J-11015/266/2013-IA.II (M) dated August 09, 2016 & J-  
11015/146/2006-IA.II (M), dated 24/01/2007

Dear Sir,

Please find enclosed herewith point wise Six Monthly EC Compliance status for the  
period from April 2022 - September 2022 of Environment Clearance condition stipulated by  
MoEF&CC vide letter no. J-11015/266/2013-IA.II (M) dated August 09, 2016 & J-  
11015/146/2006-IA.II (M), dated 24/01/2007.

We hope you will find the above in order.

Thanking you.  
Yours Faithfully,  
For JK LAKSHMI CEMENT LTD.

PRAVEEN LODHA  
SR. G.M (MINES)

- CC TO:
- 1) Regional Director, Central Pollution Control Board,  
4th Floor, Sahkar Bhawan North T.T. Nagar Bhopal (M.P) 462003
  - 2) Member Secretary, Rajasthan State Pollution Control Boards,  
4, Institutional Area, Jhalana Doongari, Jaipur (Raj.) - 304002
  - 3) The Regional officer, Rajasthan State Pollution Control Boards,  
Plot No. 68, Shanti Nagar, Main Highway Road, Sirohi (Raj.)-307001



Regd. & Works Office: Jaykaypuram, Dist. Sirohi, Rajasthan; Phone: 02971-244409/ 244410; Fax: 02971-244417; E-Mail: lakshmi\_cement@ic.jkmail.com  
Admn. Office: Nehru House, 4, Bahadur Shah Zafar Marg, New Delhi 110 002; Phone: 33001142 / 33001112; Fax: 91-011-23722251/ 23722021;  
E-Mail: jkc.customercare@jkmail.com; Website: www.jklakshmi.com, C I N L74999RJ1938PLC019511

JK LAKSHMI

JK LAKSHMIPLAST

JK LAKSHMI

**COMPLIANCE OF CONDITIONS OF ENVIRONMENTAL CLEARANCE LETTER NO. J-11015/146/2006-IA.II (M), dated 24/01/2007 OF LIMESTONE MINE OF**

**M/s JK LAKSHMI CEMENT Ltd., JAYKAYPURAM, TEHSIL PINDWARA, DISTT. SIROHI (RAJ.)**

**Compliance status from 1<sup>st</sup> April 2022 to 30<sup>th</sup> September 2022**

S.No.	CONDITIONS	COMPLIANCE STATUS (Far 8 MTPA)															
A.	SPECIFIC CONDITION																
1	All the conditions stipulated by SPCB in their NOC shall be effectively implemented.	All the conditions mentioned in the NOC are being complied. Consent to operate has been obtained from Rajasthan State Pollution Control Board vide letter no. <b>F(Mines)/Sirohi(Pindwara)/60(1)/2016-2017/1208-1212, Order No 2019-2020/Mines/9956</b> , valid from 01/02/2019 to 31/01/2024. Regular monitoring is done and monitoring reports are being submitted regularly to Rajasthan State Pollution Control Board report is enclosed <b>Refer-- Annex-VI</b> .															
2	Mining shall not intersect groundwater table. The mine working shall be restricted to above ground water table. Prior approval of the Ministry of Environment & Forest & Central Ground Water Authority shall be obtained for mining below water table.	Limestone Mine has hilly terrain and mine's bottom most bench is much above from the water table so there is neither intersection of ground water nor dewatering in mine area. Details are mentioned in table. <table><tr><th>Particulars</th><th>Level in meters</th><th>Remarks</th></tr><tr><td>Top Bench</td><td>471 MRL</td><td>-</td></tr><tr><td>Bottom Bench</td><td>399 MRL</td><td>-</td></tr><tr><td>Water table</td><td>359 to 364 MRL (Pre monsoon)</td><td>Water table much below From lowest working benches.</td></tr></table>	Particulars	Level in meters	Remarks	Top Bench	471 MRL	-	Bottom Bench	399 MRL	-	Water table	359 to 364 MRL (Pre monsoon)	Water table much below From lowest working benches.			
Particulars	Level in meters	Remarks															
Top Bench	471 MRL	-															
Bottom Bench	399 MRL	-															
Water table	359 to 364 MRL (Pre monsoon)	Water table much below From lowest working benches.															
3	Topsoil, if any, shall be stacked with proper slope with adequate measures and should be used for reclamation & rehabilitation of mined out areas.	Top soil is not available in mine area. Only Inter-burden and screen waste is being generated which is stacked/being stacked at identified locations. Plantation is being done over screen waste. <table><tr><th>S.No.</th><th>Lat. (UTM)</th><th>Long. (UTM)</th><th>Height</th><th>Slope</th></tr><tr><td>Screen Dump</td><td>299190 E to 299302 E</td><td>2732527 to 2732952</td><td>10ts mts high benches</td><td>30 to 45 degree</td></tr><tr><td>Waste Dump</td><td>300124 E to 300563 E</td><td>2731723 N to 2732318 N</td><td>10ts mts high benches</td><td>30 to 45 degree</td></tr></table>	S.No.	Lat. (UTM)	Long. (UTM)	Height	Slope	Screen Dump	299190 E to 299302 E	2732527 to 2732952	10ts mts high benches	30 to 45 degree	Waste Dump	300124 E to 300563 E	2731723 N to 2732318 N	10ts mts high benches	30 to 45 degree
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4	The solid waste should be stacked at earmarked dump site(s) only and should not be kept active for long period. The Max. height of the dumps should not exceed 30 m in three stages of 10 m each & the overall slope of the dumps shall not exceed to 28. The waste dumps should be scientifically vegetated with suitable native species to prevent erosion & surface run off. Monitoring & Management of rehabilitated areas should continue until the vegetated with suitable native species to prevent erosion and surface run off. Monitoring & Management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status should be submitted to the Ministry of Environment & Forest on six monthly basis.	Solid waste is being stacked on earmarked site and height & slope are being maintained as per approved mining plan and MoEF guideline. (Location and other details of the dumps are given in S.No.3).  Plantation of native species (like Neem, Sitafal, Sheeshum, Junga Jalebi and other local species of the area) has been carried out on both face waste and screen waste dump area. To avoid surface run off construction of check dams, garland drains etc. are made as per approved mining plan/ MoEF guidelines. Plantation area 66.5 hect. is covered on screen and other non mineral bearing zone. <table><tr><th>Particulars</th><th>Area covered (Cumulative) as on September 2022.</th></tr><tr><td>Plantation area (Hect.)</td><td>67.3 Hect (Cummul)</td></tr><tr><td>Survival rate</td><td>Avg. - 59.45 %</td></tr></table>	Particulars	Area covered (Cumulative) as on September 2022.	Plantation area (Hect.)	67.3 Hect (Cummul)	Survival rate	Avg. - 59.45 %									
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5	Catch drains & siltation ponds of appropriate size should be constructed to arrest silt & sediment flows from mine working, waste dumps & mineral dumps. The water so collected should be utilized for watering the mine area, roads, green belt etc. The drains should be regularly desilted particularly after monsoon and maintained properly. Garland drain (size, gradient & length) shall be constructed for both mine pit & for waste dumps & sump capacity should be designed keeping 50% safety margin over & above peak sudden rainfall ( based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper setting of silt material. Sedimentation pits should be constructed at the corners of the garland drains and desilted at regular intervals.	<p>Catch drains and siltation ponds of appropriate size are constructed in major water flow area to arrest silt and sediment flows from mine working, waste dumps and mineral dumps.</p> <p>Garland drains are constructed for waste dumps and sump capacity has been designed for keeping the proper safety margin, over and above peak rain fall and maximum discharge in the area adjoining in the mine site. Sump of adequate retention period has been provided for proper setting of silt material. Sedimentation pits are constructed and de-silted at regular intervals.</p>
6	Dimension of the retaining wall at the toe of dumps and OB benches within the mine to check run-off & and Siltation should be based on the rain fall data.	The retaining wall has been constructed to check run off and siltation at the toe dumps and OB benches on the basis of rain fall data.
7	Plantation shall be raised in an area of 227.125 ha including a green belt of adequate width around ML area, roads, waste dumps, around water reservoir etc. by planting the native species in consultation with the local DFO/Agriculture Deptt. The density of the trees should be around 1000 plants per ha.	Area covered by plantation on screen dump, waste dump and road side. Open pit area is 169.84 Hect (As on 30 <sup>th</sup> September 2022) and plantation area is 67.3 Hect .
8	The project proponent shall ensure that the reclaimed area be converted into pasture land.	At present mining is under progress and JK Lakshmi ensures that at the time of mine closure reclaimed area to be converted into pasture land/ water reservoir.

9	Regular monitoring of ground water level & quality should be carried out by establishing a network of existing wells and constructing new piezometers at suitable locations by the project proponent in and around project area in consultation with Regional Director, CGWB. The frequency of monitoring should be four times a year pre-monsoon (April/May), monsoon (Aug), Post-monsoon Nov.) & winter (Jan.). Data thus collected should be sent at regular intervals to Ministry of Environment & Forests, CGWA & CGWB Western Region Jaipur.	Piezometer wells are constructed in and around (core and buffer zone) the project area. Regular monthly monitoring round the year of ground water level and quality is being done. Detail report is being submitted to MoEF, CGWA and CGWB. For details of Hydrological data of piezometers and key wells monitored in mines, plant and colony area of JK Lakshmi Cement during 2022-23 refer <u>Annex-V</u>
10	Suitable conservation measures to augment ground water resources in the area shall be planned and implemented in consultation with Regional Director CGWB Western Region Jaipur.	To augment ground water resources suitable artificial recharge structures are constructed as per condition mentioned in.
11	Suitable rainwater harvesting measures on long term basis shall be planned & implemented in consultation with Regional Director, CGWB.	To augment ground water resources 06 anicuts, 04 ponds, 06 recharging wells and 11 nos. of check dams have been constructed.
12	Prior permission from the competent authority, if any, required shall be obtained for withdrawal of water from Dhanari Water Reservoir.	Permission to drawl of water from Dhanari water reservoir has been obtained vide letter no. Rev./JK Lakshmi/West Banas/2019 Dated dated 06.09.2019 for capacity of 40 lacs litre/ day.
13	Blasting operation should be carried out only during the daytime. Controlled blasting should be practiced. The mitigative measures for control of ground vibration and to arrest fly rocks & boulders should be implemented.	Blasting is being carried out in controlled manner in day time only. Down the hole delay (excels/raydet) -NONEL and Trunk Line Detonators (TLD) are being used for delay in between holes for controlling flying fragments as well as ground vibrations.
14	Drills should be wet operated or operated with dust extractors.	Drilling is being carried out with water injection system for dust collection during drilling.
15	Vehicular emissions should be kept under control & regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations & in transportation of mineral. The vehicles should be covered with a tarpaulin & shall not be overloaded.	Details of PUC certificates are enclosed. <u>Refer Annex No.-III</u>



16	Digital processing of the entire lease area using remote sensing technique should be done regularly once in three years for monitoring land use pattern & report submitted to MOEF & its regional office.	Digital processing of the entire lease area for monitoring of land use pattern is being done in once in three years as per EC condition/MoEF guidelines. Details are mentioned below. ----- <b>Annex- Land use pattern study</b>																																																						
		<table><tr><th>S. No.</th><th>Category Level I</th><th>Area in ha. (Year 2017)</th><th>Area in ha. (Year March 2022)</th><th>Changes in area (ha.)</th><th>Net changes in land units in %</th></tr><tr><td>1.</td><td>Built up land (Crusher, buildings, conveyor belt &amp; road etc.)</td><td>7.605</td><td>7.605</td><td>0.00</td><td>0.00</td></tr><tr><td>2.</td><td>Agriculture</td><td>Nil</td><td>0</td><td>Nil</td><td>0.00</td></tr><tr><td>3.</td><td>Mining pit</td><td>140.89</td><td>162.4</td><td>+21.51</td><td>+15.26</td></tr><tr><td>4.</td><td>Streams/drain</td><td>2.85</td><td>2.6</td><td>-0.25</td><td>-8.77</td></tr><tr><td>5.</td><td>Dumps (Screen &amp; waste) &amp; Plantation</td><td>57.50</td><td>66.54</td><td>+9.04</td><td>+15.72</td></tr><tr><td>6.</td><td>Low lying hilly area with shrubs</td><td>146.47</td><td>131.47</td><td>-17.42</td><td>-11.89</td></tr><tr><td>7.</td><td>Limestone hills</td><td>35.31</td><td>20.01</td><td>-15.30</td><td>-43.33</td></tr><tr><td colspan="2">Total Area in ha.</td><td>390.625</td><td>390.625</td><td>-</td><td>-</td></tr></table>	S. No.	Category Level I	Area in ha. (Year 2017)	Area in ha. (Year March 2022)	Changes in area (ha.)	Net changes in land units in %	1.	Built up land (Crusher, buildings, conveyor belt & road etc.)	7.605	7.605	0.00	0.00	2.	Agriculture	Nil	0	Nil	0.00	3.	Mining pit	140.89	162.4	+21.51	+15.26	4.	Streams/drain	2.85	2.6	-0.25	-8.77	5.	Dumps (Screen & waste) & Plantation	57.50	66.54	+9.04	+15.72	6.	Low lying hilly area with shrubs	146.47	131.47	-17.42	-11.89	7.	Limestone hills	35.31	20.01	-15.30	-43.33	Total Area in ha.		390.625	390.625	-	-
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17	Consent to operate should be obtained from SPCB before enhancing the production from the mine.	Consent to operate has been obtained from Rajasthan State Pollution Control Board vide letter no., <b>F(Mines)/Sirohi (Pindwara)/60(1)/2016-2017/1208-1212, Order No 2019-2020/Mines/9956</b> , dated 01/02/2019 valid up to 31/01/2024, for 8 million tones.																																																						
18	Sewage treatment plant should be installed for the colony. ETP should also be provided for workshop & wastewater generated from mining operation.	Sewage Treatment Plant (STP) of capacity 400 m3/day has been installed for treatment of domestic sewage for the colony. There is no generation of effluent from mining operation. ETP has installed for workshop oil water treatment.																																																						
19	The voids created at the end of mining shall be converted into water body with shallow depth. The slope of higher benches of the excavated void/mine pit shall be made gentler & duly terraced for easy accessibility for local people to use reservoir water. Plantation shall be carried out to stabilise the slopes. Peripheral fencing shall be done along the excavated area.	At present mining is under progress. Plantation is being carried out to stabilize the dumps. At the time of closure of mine, void of mine will convert into the water reservoir and peripheral fencing will be done. Plantation and cumulative area 67.3 Hect covered, 1200 saplings planted in 0.8 hect. in 2022-23.																																																						
20	A Final Mine Closure Plan along with details of Corpus Fund should be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure, for approval.	At present mining is under progress. At the time of closure of mine a final closure plan along with fund distribution will be submitted in advance to MoEF, for approval.																																																						
S.No.	CONDITIONS	COMPLIANCE STATUS																																																						
B.	GENERAL CONDITION																																																							
1	No change in mining technology & scope of working should be made without prior approval of the Ministry of Environment and Forests.	At present mining is under progress as per present Environmental Clearance no. i.e. J-11015/146/2006-IA.II (M), dated 24/01/2007. No change in mining technology and scope of working is made. If there is any change in mining technology and scope of working, we will take prior approval from MoEF.																																																						



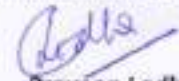
2	No change in the calendar plan including excavation, quantum of limestone & waste should be made	Mining is under progress as per Environmental Clearance. We have no proposals of changes in the calendar plan nor quantum of limestone and waste.
3	Four ambient air quality-monitoring stations should be established in the core zone as well as the buffer zone for RPM, SPM, SO <sub>2</sub> & NO <sub>x</sub> monitoring. Location of the stations should be decided based on the meteorological data, topographical features & Environmentally & ecologically sensitive targets in consultation with the State Pollution Control Board. Data on ambient air quality (RPM, SPM, SO <sub>2</sub> & Nox) should be regularly submitted to the Ministry including Regional Office located at Lucknow & the State Pollution Control Board/Central Pollution control Board once in six months.	Four ambient air quality monitoring stations are established in core and buffer zone for RPM, SPM, SO <sub>2</sub> and NO <sub>x</sub> monitoring. Locations of the stations have decided in consultation with Rajasthan State Pollution Control Board. Data of ambient air quality (RPM, SPM, SO <sub>2</sub> and NO <sub>x</sub> ) are being submitted to the MoEF office, MoEF Lucknow and the State Pollution Control Board once in six months. <b><u>Refer Annex No- VI</u></b>
4	Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangements on haul roads, loading & unloading & at a transfer points should be provided & properly maintained.	Fugitive dust emissions from the all sources are controlled. Water spray arrangement on haul roads, unloading and transfer points are provided and properly maintained. <ol style="list-style-type: none"> <li>1. All Conveyor belts are covered to control fugitive dust emissions. (Rejection belt, limestone transfer belt etc).</li> <li>2. Drilling machines are water injection type and equipped with dust extraction system (bag filters) and are being maintained regularly.</li> <li>3. Water sprinklers are provided at loading &amp; unloading points (at crusher hopper, material transfer points etc.).</li> <li>4. Continuous water spraying is done on material transport roads for round the working hours to control fugitive dust emissions.</li> </ol>
5	Measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM etc. should be provided with ear plugs/muffs.	Adequate measures (like regular maintenance of mining equipment's, Green belt development and use of personnel protective equipment's) are being taken for control of noise levels below 85 dB in the work environment. Workers engaged in operations of HEMM etc. are provided with ear plugs/muffs. <b><u>Refer Annex No.- VI</u></b>
6	Industrial wastewater (workshop & waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422(E) dated 19th May, 1993 & 31st Dec., 1993 or as amended from time to time. Oil & grease trap should be installed before discharge of workshop effluents.	ETP at workshop Inlet/ outlet waste water quality enclosed for your reference. <b><u>Ref Annex. VIII</u></b>
7	Personnel working in dusty areas should wear protective respiratory devices & they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be undertaken	Occupational health surveillance Programme of all employees including the workers is being taken periodically. Personnel protective respiratory devices and training on safety and health aspects are being given on regular basis.



	periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.											
8	A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.	A separate environmental management cell with qualified personnel is looking after all the environment activities of plant and mines under the control of Sr. VP (Works).										
9	The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry & its Regional Office located at Lucknow.	<div>Separate funds are being earmarked for environmental protection measures. Expenditure incurred during the year 2022-23 was Rs. 44 lacs.</div> <table><tr><th>Particulars</th><th>2022-23 (Apr 2022-Sept 2022)</th></tr><tr><td>Water sprinkling</td><td>09</td></tr><tr><td>Equipment's(Bag filters and maintenance)</td><td>07</td></tr><tr><td>Monitoring of environmental parameters</td><td>06</td></tr><tr><td><b>TOTAL</b></td><td><b>22</b></td></tr></table>	Particulars	2022-23 (Apr 2022-Sept 2022)	Water sprinkling	09	Equipment's(Bag filters and maintenance)	07	Monitoring of environmental parameters	06	<b>TOTAL</b>	<b>22</b>
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<b>TOTAL</b>	<b>22</b>											
10	The Regional Office of this Ministry located at Lucknow shall monitor compliance of the stipulated conditions. The project authorities should provide a set of filled-in questionnaire and EIA/EMP report to them & extend full cooperation to the Officer(s) of the Regional Office by furnishing the requisite data/information/monitoring reports.	We extend our fullest cooperation to the officers of the Regional Office and furnish all the requisite data/information time to time.										
11	The project authorities should inform to the Regional Office located at Lucknow as well as to the Ministry of Environment & Forest regarding date of financial closures & final approval of the project by the concerned authorities & the date of start of land development work.	Present mine is in operation since 1982.										
12	A copy of the clearance letter will be marked to the concerned Panchayat/local NGO, if any, from whom suggestions/representation has been received while processing the proposal.	A copy of the clearance letter has earmarked to the concern panchayat.										
13	The State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industry Centre & Collector's/Tehsildar's Office for 30 days.	A copy of EC has been submitted to State Pollution Control Board vide letter no. 12656 dated 19/02/2007.										
14	The project authorities should advertise at least in two local newspapers widely circulated around the project, one of which shall be in the vernacular language of the locality concerned within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance & a copy of the	Advertised in RAJASTHAN PATRIKA and DAINIK BHASKAR on 30/01/2007 and a copy of the same have been submitted to the Ministry of Environment & Forest, Lucknow.										

clearance letter is available with the State Pollution clearance letter is available with the State Pollution Control Board & also at web site of the Ministry of Environment & Forest at <a href="http://envfor.nic.in">http://envfor.nic.in</a> and a copy of the same should be forwarded to the Regional Office of this Ministry located at Lucknow.	
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For JK LAKSHMI CEMENT LTD



Praveen Lodha  
(Sr. G.M. Mines)



## Compliance report from 1<sup>st</sup> April 2022 to 30<sup>th</sup> September 2022

MoEFCC Environmental Clearance letter no. J-11015/266/2013-IA.II (M) dated August 09, 2016		
Online Proposal no.: IA/JH/MIN/19347/2013. (For 13 MTPA)		
Subject: Enhancement of Lakshmi Cement Limestone Mine with production capacity from 8.0 million TPA to 13.0 million TPA of limestone by M/s J.K. Lakshmi Cement Ltd. located at village (s) – Basantgarh, Rampura, Rohida, Tehsil – Pindwara, District – Sirohi, Rajasthan (MLA: 390.625 ha) – Environmental Clearance regarding.		
S.No.	CONDITIONS	COMPLIANCE STATUS
A.	SPECIFIC CONDITION	
i)	Environmental clearance is granted subject of final outcome of Hon'ble Supreme Court of India, Hon'ble High Court of Rajasthan, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.	Noted.
ii)	This Environmental Clearance is subject to obtaining requisite NBWL Clearance from the Standing Committee of National Board for Wildlife, if any, as applicable for this Mining Project.	There is no forest land involved in the Mining area. Hence, the condition is not applicable.
iii)	The Project Proponent shall obtain Consent to Operate from the State Pollution Control Board, Rajasthan and effectively implement all the conditions stipulated therein.	We will obtain Consent to Operate before enhancement of production capacity from 8.0 MTPA to 13.0 MTPA.
iv)	Project Proponent shall follow the mitigation measures provided in Office Memorandum No. Z-11013/57/2014-IA.II (M) dated 29 <sup>th</sup> October 2014, titled "Impact of mining activities on Habitations Issues related to the mining projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area".	In our Lakshmi Cement Limestone Mine there are no habitations and villages within the lease. Habitations and villages are not located in immediate surroundings, but far away from mine lease area. Hence, the condition is not applicable.
v)	Project Proponent shall carry out vibration studies well before approaching any such habitats or other buildings to evaluate the zone of influence and impact of blasting of the neighborhood. Within 500 meters of such sites vulnerable to blasting vibrations, avoidance of use of explosives and adoption of alternatives means of mineral extraction, such as ripper/dozer combination/rock breakers/surface miners etc. should be seriously considered and practices wherever practicable. A provision for monitoring of each blast should be made so that the impact of blasting on nearby habitation and dwelling units could be ascertained. The covenant of lease deed under Rule 31 of MCR 1960 provides the no mining operations shall be carried out within 50 meters of public works such as public roads and buildings or inhabited sites except with the prior permission from the Competent Authority.	The condition is followed and being maintained accordingly. Report of Vibration study is enclosed as <u>Annex- I</u> . There is no impact of ground vibration on habitats that are located far off. (Report of study conducted by IBM has already been submitted earlier).
vi)	Main haulage road in the mine should be provided with permanent water sprinklers and other roads should be regularly wetted with water tankers fitted with sprinklers. The material transfer points should invariably be provided with Bag filters and or dry fogging system. Belt-conveyors should be fully covered to avoid air borne dust; Use of effective sprinkler system to suppress fugitive dust on haul roads and other transport roads shall be ensured.	The condition is followed and permanent water sprinklers have been installed. Photographs of water sprinklers enclosed as <u>Annex- II</u>



vii)	The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centers.	The condition is followed accordingly. PUC record of all equipment enclosed. <b><u>Annex--III</u></b>
viii)	There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board.	Rain water harvesting structures are constructed in colony and nearby villages. Also, we have implemented artificial recharge structures for augmenting ground water. The condition is followed accordingly. Rainfall water recharging is being done through mine pit.--- <b><u>Annex--IV</u></b>
ix)	Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical check-up once in six months and necessary medical care/preventive measures undertaken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers should also be adopted.	We are complying the conditions as laid down in DGMS Mines Act 1952 and Mines Rule 1955.
x)	Implementation of Action Plan on the issues raised during the Public Hearing shall be ensured. The Project Proponent shall complete all the tasks as per the Action Plan submitted with budgetary provisions during the Public Hearing.	The condition is followed accordingly. All the points covering every aspect are being covered in CSR activities, <b><u>Ref. Annex No.---VII</u></b>
xi)	Project Proponent has not obtained the necessary permission from the CGWA for intersecting ground water table. The Project proponent required to carry out detailed hydro geological study and to obtain the recommendations of CGWA. The Project Proponent will submit the aforesaid study report and recommendations of CGWA to the Ministry. The Ministry will take a decision on this matter based on detailed hydro geological study, recommendation of CGWA etc.	We have not intersected the water table so far. Mining is being done as per approved Mining Plan. In future if any intersection is there, we will conduct the detailed hydro-geological study to obtain the necessary permission from CGWA.
xii)	The Report on six monthly basis on changes in Ground Water level and quality shall be submitted to the Regional Office of the Ministry.	The condition will be followed accordingly. Ground water monitoring and quality report enclosed--- <b><u>ANNEX- V</u></b>
xiii)	The Project Proponent shall make necessary alternative arrangements, where required, in consultation with the State Government to provide alternate areas for livestock grazing, if any. In this context, Project Proponent should implement the directions of the Hon'ble Supreme Court with regard to acquiring grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded against felling, lest the cattle abandon the grazing ground or return home by noon.	There is no grazing land in mining lease. Hence, not applicable.
xiv)	The Proponent shall install online Ambient Air Quality Monitoring system and there should be system for display of digital AAQ data within 03 months at least three locations as per wind direction. Online provisions of pH and turbidity meters at discharge points of STP and also at water storage ponds in the mining area may be made. Project Proponent should display the result digitally in front of the main Gate of the mine site.	We have already installed Three nos. of online ambient air quality monitoring station in Mines. Online monitoring data is being displayed at mine main gate. We are reusing treated water from STP (of colony area) for cooling purpose. We are maintaining Zero Liquid Discharge. Third party monitoring report is enclosed. --- <b><u>ANNEX-VI</u></b>



xv)	The Project Proponent has to take care of gullies formed on slopes. Dump mass should be consolidated with proper filling / leveling with the help of dozer/compactors. The report on slope and stability monitoring should be sent to MoEFCC and its Regional office every six-months.	The condition is/will be followed accordingly.
xvi)	The reclamation at waste dump sites shall be ecologically sustainable. Scientific reclamation has been followed. The local species may be encouraged and species are so chosen that the slope, bottom of the dumps and top of the dumps are able to sustain these species. The aspect of the dump is also a factor to that micro climate. This may be recommended to be studied by hiring Expert Ecology Group.	Waste dump are being reclaimed scientifically. We encourage species which are able to sustain. The condition is being followed accordingly.
xvii)	As per the Company Act, the CSR cost should be 2% of average net profit of last three years. Hence CSR expenses should be as per the Company Act/Rule for the Socio Economic Development of the neighborhood Habitats which could be planned and executed by the Project Proponent more systematically based on the 'Need based door to door survey' by established Social Institute/Workers. The report shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office located at Lucknow on six monthly basis.	The condition is being followed accordingly. Refer <u>Annex—VII</u> for a snapshot of activities undertaken under various programs of CSR.
xviii)	A Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment, Forest and Climate Change 5 years in advance of final mine closure for approval.	Same will be complied at the time of closing the mines.
S.No.	CONDITIONS	COMPLIANCE STATUS
<b>B.</b>	<b>GENERAL CONDITION</b>	
i)	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment, Forest and Climate Change.	We will not change mining technology and scope of working without prior approval.
ii)	No change in the calendar plan including excavation, quantum of limestone mineral and waste should be made.	The condition will be followed accordingly.
iii)	Mining shall be carried out as per the provisions outlined in mining plan approved by Indian Bureau of Mines (IBM) as well as by abiding to the guideline of Directorate General Mines Safety (DGMS).	We are doing mining as per approved mining plan and following the guidelines of IBM & DGMS.
iv)	The lands which are not owned by Proponent, mining will be carried out only after obtaining the consents from all the concerned land owners as per the provisions of the Mineral Concession Rules, 1960 and MMDR Act, 1957.	The condition is followed as per MCDR 1960 & amended in 2016 and MMDR Act 1957. All the lands belong to proponent.
v)	The top soil, if any, shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation. The over burden (OB) generated during the mining operations shall be stacked at earmarked dump site(s) only and it should not be kept active for a long period of time. The maximum height of the dumps shall not exceed 8m and width 20m and overall slope of the dumps shall be maintained to 45 degree.	No Top soil is available in the mining lease. The dump height and degree of repose is maintained as per conditions laid down in EC. Plantation and geo textile will be done during rehabilitation work.



	<p>The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical area, use of geo textiles shall be undertaken for stabilization of the dump. The entire excavated area shall be backfilled and afforested. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office located at Lucknow on six monthly basis.</p>	
vi)	<p>Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, mineral and OB dumps to prevent run off of water and flow of sediments directly into the river and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly. The drains settling tanks and check dams of appropriate size, gradient and length shall be constructed both around the mine pit and over burden dumps to prevent run off of water and flow of sediments directly into the river and other water bodies and sump capacity rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper setting of silt material. Sedimentation pits shall be constructed at the corners of the garland drains and desilted at regular intervals.</p>	<p>We have constructed the siltation pond in and around mines area to arrest the silt and 03 check dams in mines to control the water flow. After every rainy season we undertake cleaning of pond and sump area.</p>
vii)	<p>Effective safeguard measures such as regular water sprinkling shall be carried out in critical area prone to air pollution and having high levels of <math>PM_{10}</math> and <math>PM_{2.5}</math> such as haul road, loading and unloading point and transfer points. Fugitive dust emissions from all the sources shall be controlled regularly. It shall be ensured that the Ambient Air Quality to be carried out based on the Notification, as amended from time to time by the Central Pollution Control Board.</p>	<p>Regular water sprinkling is being done to control fugitive dust emissions from sources. Ambient Air Quality monitoring is being done. Refer <u>Annex- VI</u></p>
viii)	<p>Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The limestone will be transported by covered conveyor belt to the cement plant which shall be set up based on this deposit. The vehicles carrying the mineral shall not be overloaded.</p>	<p>Vehicular emission is kept under controlled through regular maintenance of transporting vehicle. Crushed Limestone is being transported from mines to cement plant through covered conveyor belt.</p>
ix)	<p>Regular monitoring of ground water table to be carried out at the upstream and depth of water available in the dug well is to be measured. Monitoring to be done by establishing a network of existing wells and constructing new piezometers. The project proponent shall ensure that no natural water course and/or water resources shall be obstructed due to any mining operations.</p>	<p>The condition is being followed accordingly. Refer <u>Annex- V</u> Regular monitoring of ground water table at upstream and depth of water available in the dug well is monitored by piezometers installed in the region. We undertake due care so as not to obstruct</p>



		natural water course /water resource due to ongoing mining operations.
x)	Plantation shall be raised in a 7.5 m wide green belt in the safety zone around the mining lease, backfilled and reclaimed area, around water body, along the roads etc. by planting the native species in consultation with the local DFO/Agriculture Dept. The density of the trees should be around 2500 plants per ha. Greenbelt shall be developed all along the mine lease area in a phased manner and shall be completed within first five years.	The condition will be followed accordingly (Per year 3000 saplings planted).Green belt has been developed in mines lease area by planting native species in consultation with DFO/Agriculture Department . So far we have planted 223920 nos. of trees in 67.3 ha area in mines lease area.
xi)	Regular monitoring of the flow rate of the springs and perennial nallahs flowing in and around the mine lease shall be carried out and records maintain.	No perennial stream exists in lease area. Hence, not applicable in our case.
xii)	Regular monitoring of water quality upstream and downstream of water bodies shall be carried out and record of monitoring data should be maintained and submitted to the Ministry of Environment, Forest and Climate Change, its Regional Office, Lucknow, Cental Ground Water Authority, Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board.	No perennial water body is present in the area.
xiii)	Regular monitoring of ground water level and quality shall be carried out in and around the mine lease by establishing a network of existing wells and constructing new piezometers during the mining operation. The monitoring shall be carried out four times in a year pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the data thus collected may be sent regularly to Ministry of Environment, Forest and Climate Change and its Regional Office, Lucknow, Central Ground Water Authority and Regional Director, Central Ground Water Board.	The condition will be followed accordingly. Regular monitoring of ground water level and quality is being monitored and checked in and around the mine lease by installed piezometers in all the four seasons. Pre Monsoon and Monsoon data is attached as <u>Annex. -V</u> .
xiv)	The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna, if any, spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and Wildlife Department. A copy of action plan shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office, Lucknow.	Conservation plan was submitted to forest dept. for their approval and we are pursuing the matter vide letter no : JKLC/Env/Cons/Mine/90293 dated 12/09/2019 with Dy. Conservator of forest (Wildlife), Mount Abu, District Sirohi (Raj) Conservation plan was submitted to forest dept. for their approval.
xv)	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	We have township adjacent to plant & mine and facilities for accommodation for construction labour are available with all basic amenities.
xvi)	The critical parameters as per Notification 2009 such as PM10, PM2.5, NOx and Sox in the ambient air within the impact zone, peak particle velocity at 300 m distance or within the nearest habitation, whichever is closer shall be monitored periodically. Further, quality of discharged water shall also be monitored [(TDS, DO,pH and Total Suspended Solids (TSS)]. The monitored data shall be uploaded on the website of the company as well as displayed on a display	The condition is being followed accordingly. Report is attached as <u>Annex. - VI</u> .

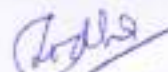


	board at the project site at a suitable location near the main gate of the Company in public domain. The circular No. J-20012/1/2006-IA.II (M) dated 27/05/2009 issued by Ministry of Environment, Forest and Climate Change, which is available on the website of the Ministry <a href="http://www.envfor.nic.in">www.envfor.nic.in</a> shall also be referred in this regard for its compliance.	
xvii)	Measures should be taken for control of noise levels below 85 dbA in the work environment. Workers engaged in operations of HEMM etc. should be provided with ear plugs/muffs.	Measures have been taken to keep noise level below 85 dbA. Workers engaged in HEMM operation are provided ear plug/muffs.
xviii)	Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 <sup>th</sup> May 1993 and 31 <sup>st</sup> December 1993 or as amended from time to time. Oil and Grease trap should be installed before discharge of workshop effluents.	ETP installed and Oil & Grease collected separately.---- <b><u>Annex- VIII</u></b>
xix)	Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.	The condition is being/will be followed.
xx)	A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the organization.	Environmental Management Cell exists and reports issues related to environment directly senior executives. Organizational Chart is attached as <b><u>Annex- IX</u></b> .
xxi)	The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry and its Regional Office located at Lucknow.	CSR budget is planned accordingly and expenses done likewise. Refer <b><u>Annex- VII</u></b>
xxii)	The project authorities should inform to the Regional Office located at Lucknow regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	This is an active captive limestone mine.
xxiii)	The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment, Forest and Climate Change, its Regional Office, Lucknow, Central Pollution Control Board and State Pollution Control Board.	This is an active captive limestone mine. We are periodically submitting six monthly compliance reports of previously granted Environmental Clearance letter no. J-11015/146//2006-IA.II (M) dt. 24.01.2007. The condition is being followed accordingly with Environmental Clearance dt. 09/08/2016 .
xxiv)	The Regional Office of this Ministry located at Lucknow shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the office (s) of the Regional Office by furnishing the requisite data/information/monitoring reports.	We will extend our full cooperation to the office of the Regional Office.
xxv)	A copy of clearance letter will be marked to concerned Panchayat / local NGO, if any, from whom suggestion / representation has been received while processing the proposal.	The soft copy of Environmental Clearance is uploaded on company's website in Public Domain.



xxvi)	State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industry Centre and Collector's office / Tehsildar's Office for 30 days.	Not applicable for project proponent.
xxvii)	The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at web site of the Ministry of Environment, Forest and Climate Change at <a href="http://envfor.nic.in">http://envfor.nic.in</a> and a copy of the same should be forward to the Regional Office of this Ministry located Lucknow.	EC news published in two local news papers namely Dainik Bhaskar and Rajasthan Patrika on 14/08/2016 (Sunday) and the original copies of news paper have submitted to RO, MoEFCC, Lucknow vide letter no. 80477 dt. 19/08/2016.

FOR JK LAKSHMI CEMENT LTD



Praveen Lodha  
(Sr. G.M. Mines)

## **List of Annexure**

- Annex—I      Vibration study.**
- Annex---II      Photos of water sprinkler and fog system.**
- Annex---III      PUC record of Tippers.**
- Annex—IV      Water harvesting structures.**
- Annex—V      Monthly Ground water**
- Annex---VI      AAQ data**
- Annex—VII      CSR and Naya savera medical team report.**
- Annex—VIII      ETP inlet and outlet analysis report.**
- Annex---IX      Organization chart**



Version 4.1  
Executable Date: 17Dec2015

File: c:\SuperGraphics\TADSample Data\13\11NSZ

Source: Seismograph, Inc.

Company: JK Lakshmi Cement Ltd.

# SuperGraphics - Report

Unit #: 11705

S/26/2022 at 10:20:12 Event # 133

Location: Jaykaypuram

Operator: Mahesh Lathi

Notes: No of holes-15, Rows-2, Bench-435 B, Total Exp.-1579

Distance: 300 ft

Wgt. Per Delay: 105 lb

Scaled Distance: 29.3

Record Duration: 2.0 sec  
Sample Rate: 1024/sec

## Seismic

Gain: 1	Trigger: 02 in/s	Vector Sum: 0.11 in/s @ 46.55 Hz	
Channel	Radial	Transverse	Vertical
Velocity (in/s)	0.110	0.075	0.065
Frequency (Hz)	15.00	46.50	23.20
Trigger >>> Peak	253.9	118.2	42.0

## Air

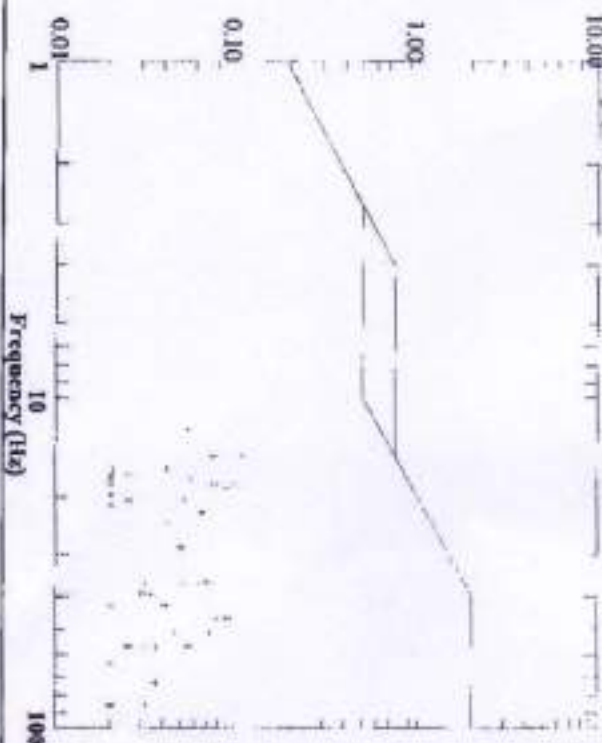
Gain: 1		Air Trigger: N
Measurement	Value	Trigger >>> Peak
		868.2
psi	6030829	
dB	120.5	
Hz	9.3	

## Waveform Analysis / Frequency Plot

Seismic Scale: 0.16 m/s/div

Air Scale: 6030829/div

USBM Limits (RI 8507, 1980)





Company: **JK LAKSHMI CEMENT LTD.**

# SuperGraphics - Report

Telephone: 0621582 2408 x 22

Unit #: 11705

6/23/2022 at 10:31:15 Event # 135

Location: **JAYKAVPURAM**

Operator: **M LATHI**

Notes: **NO. OF HOLES-24**

**ROWS-2**

**BENCH-492-483**

**TOTAL EXPLOSIVE USED-2424**

Distance: 3100 m

Wgt. Per Delay 101 kg

Scaled Distance: 29.9

Record Duration: 2.0 sec  
Sample Rate: 1024/sec  
Last Calibration: 25 Mar 19

## Seismic

Gain: 1

Trigger: 508 mm/s

Vector Sum: 3.03 mm/s @ 10.45 Hz

Channel	Radial	Transverse	Vertical
Velocity (mm/s)	2.794	2.667	2.286
Frequency (Hz)	15.00	10.60	12.80
Trigger >>> Peak	389.6	457.0	177.7

## Air

Gain: 1

Air Trigger: N

Measurement	Value	Trigger >>> Peak
kPa	.0537	373.0
dB1	128.6	
Hz	23.2	

## Waveform Analysis / Frequency Plot

Seismic Scale: 4.06 mm/sec/div

Air Scale: .06353 kPa/div

Velocity (mm/s)

DGMS India (A)





Revision 4.1.1  
Effective Date: 17-Dec-2015

The D/M/Geo/Vibration/ISA NSZ

North Seismographs, Inc.

Company: JK LAKSHMI CEMENT LTD.

## SuperGraphics - Report

Telephone: +90(0)312 215 4 22

Unit #: 11705

6/10/2022 at 10:21:29 Event # 134

Location: JAYKAYPURAM

Operator: M LATHI

Notes: NO. OF HOLES: 23

ROWS: 2

RENCH-426-417MAIN

TOTAL EXPLOSIVE USED: 2227

Distance: 300 m

Wgt. Per Delay: 97 kg

Scaled Distance: 30.5

Record Duration: 2.0 sec  
Sample Rate: 1024/sec  
Last Calibration: 25Mar19

### Seismic

Channel	Radial	Transverse	Vertical
Velocity (mm/s)	2.159	0.762	1.143
Frequency (Hz)	64.00	47.60	102.40
Trigger >>> Peak	201.2	210.0	201.2

### Air

Measurement	Value	Trigger >>> Peak
kPa	.0165	1755.9
dBL	118.3	
Hz	3.4	

### Waveform Analysis / Frequency Plot

Seismic Scale: 4.00 mm/div

Air Scale: 0.3176 g/Div

Velocity (mm/s)  
200.00

DCMS India (A)



Company: JK LAKSHMI CEMENT LTD.

Unit #: 11705

8/4/2022 at 10:32:20 Event # 2

Location: JAYKAPPURAM

Operator: DEEPAK KUMAR

Notes: NO OF HOLES-13,ROWS-2,BENCH-476 MAIN,TOTAL EXPLOSIVE (USED)-1500KG

Distance: 300 m Wgt. Per Delay: 120 kg Scaled Distance: 27.4

Record Duration: 2.0 sec  
 Sample Rate: 1024/sec  
 Last Calibration: 12Jul22

### Seismic

Gain: 1 Trigger: 508 mm/s Vector Sum: 4.39 mm/s @ 12.80 Hz

Channel	Radial	Transverse	Vertical
Velocity (mm/s)	3.556	3.429	1.651
Frequency (Hz)	12.80	18.90	21.30
Trigger >>> Peak	133.3	213.9	194.3

### Air

Gain: 1 Air Trigger: N

Measurement	Value	Trigger >>> Peak
kPa	.0215	93.6
dB	120.6	
Hz	5.2	

### Waveform Analysis / Frequency Plot

Seismic Scale: 4.00 mm/s/div

Air Scale: 03176 kPa/div

Velocity (mm/s)  
 200.00

DGMS India (A)





Location: JAYKAYPIRAM

Unit No. 11705

9/1/2022 at 02:05:34 Event # 8

Operator: DEEPAK KUMAR

Notes: NO. OF HOLE-S-23, ROHS-2, BENCH-426-417, TOTAL EXPLOSIVE USED-1930KG

Diameter: 300 mm

Wgt. Per Delay: 10 kg

Scaled Distance: 32.7

Record Duration: 2.0 sec  
Sample Rate: 1024/sec  
Last Calibration: 12Jul22

## Seismic

Channel	Radial	Transverse	Vertical
Velocity (mm/s)	1.778	2.032	1.397
Frequency (Hz)	36.50	30.10	51.20
Trigger >>> Peak	153.3	164.1	82.0

## Air

Measurement	Value	Air Trigger N Trigger >>> Peak
		1112.3
kPa	013	
dB	116.3	
Hz	5.9	

### Waveform Analysis / Frequency Plot

Seismic Scale: 4.06 mm/s/dry

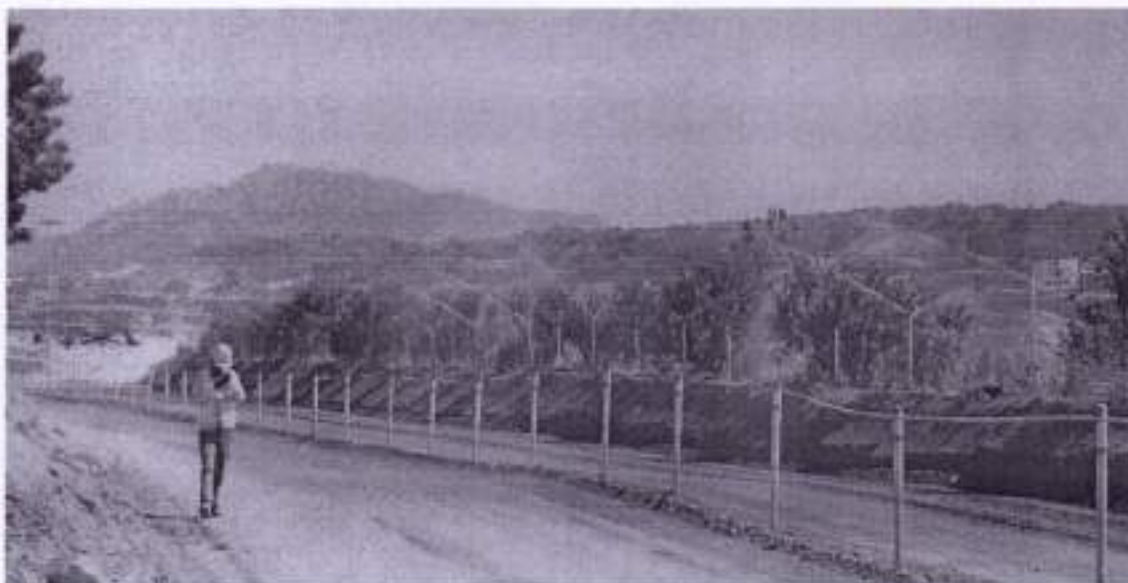
Air Scale: 01583 kPa/dm

Velocity (mm/s)  
200.00

DGMIS India (A)



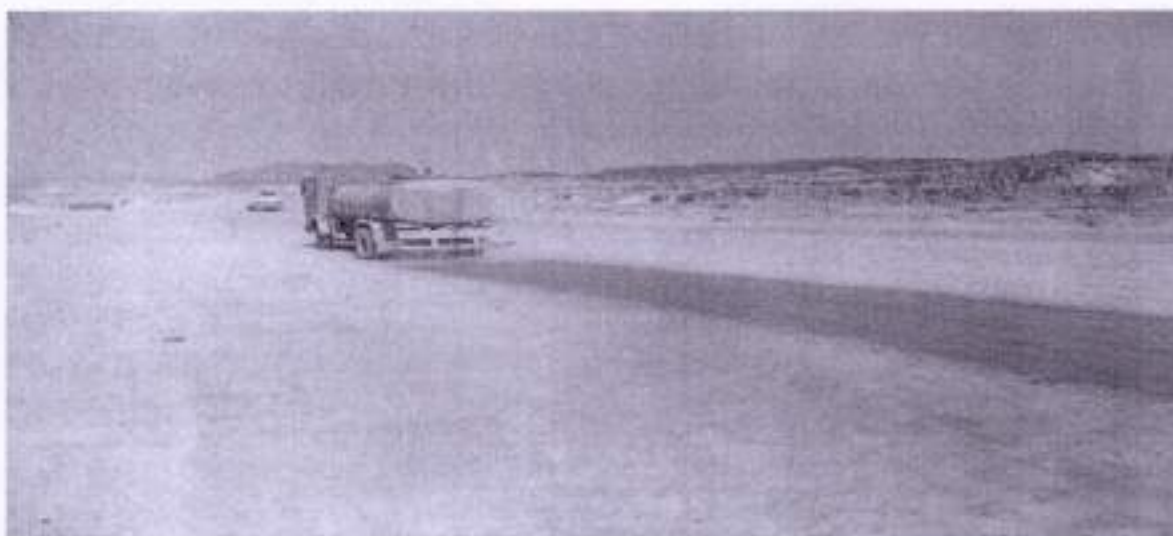
Industrial Buildings	10	100
Domestic houses/structures	Historic object, sensitive structure	



**WATER SPRINKLING SYSTEM**



**WATER SPRINKLING ON ROADS**





**WATER SPRINKLING SYSTEM ON HOPPER**



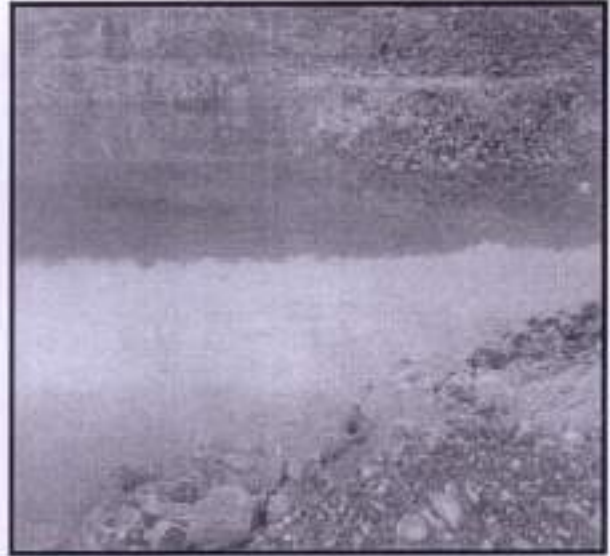
**COVERED CONVEYOR BELT SYSTEM**



Mines Vechile PUC Certificate				
SR NO.	MACHINE MODEL	MACHINE SR NO.	NTC NO.	PUC DONE
1	Scania G440	RJ38GA1774	1	18-07-2022
2	Scania G440	RJ38GA1771	2	18-07-2022
3	Scania G440	RJ38GA1772	3	18-07-2022
4	Scania G440	RJ38GA1773	4	18-07-2022
5	Scania P410	RJ38GA0390	5	18-07-2022
6	Scania G440	RJ38GA1770	6	18-07-2022
7	Scania P410	RJ38GA0403	7	18-07-2022
8	Scania P410	RJ38GA0404	8	18-07-2022
9	Scania P410	RJ38GA0405	9	18-07-2022
10	Scania P410	RJ38GA0406	10	18-07-2022
11	Scania P410	RJ38GA0834	11	18-07-2022
12	Scania P410	RJ38GA0839	12	18-07-2022
13	Scania P410	RJ38GA0837	13	18-07-2022
14	Scania P410	RJ24GA3846	17	18-07-2022
15	Scania P440	RJ38GA1393	18	18-07-2022
16	Scania P440	RJ38GA1388	19	18-07-2022
17	Scania P440	RJ38GA1391	20	18-07-2022
18	Scania P440	RJ38GA1385	21	18-07-2022
19	Scania P440	RJ38GA1386	22	18-07-2022
20	Scania P440	RJ38GA1392	23	18-07-2022
21	Scania P440	RJ38GA1389	24	18-07-2022
22	Scania P440	RJ38GA1387	25	18-07-2022
23	Scania G440	RJ38GA1840	26	18-07-2022
24	Scania G440	RJ38GA1841	27	18-07-2022
25	Scania G440	RJ38GA1842	28	18-07-2022
26	Scania G500	RJ38GA2283	29	18-07-2022
27	Scania G500	RJ38GA2284	30	18-07-2022
28	Scania G500	RJ38GA2280	31	18-07-2022
29	Scania G500	RJ38GA2281	32	18-07-2022
30	Scania G500	RJ38GA2282	33	18-07-2022
31	Ashok Leyland N2518	RJ24GA1031	wt1	18-07-2022
32	Ashok Leyland N2518	RJ24GA1032	wt2	18-07-2022
33	Ashok Leyland N2518	RJ24GA1243	wt3	18-07-2022
34	Ashok Leyland N2518	RJ24GA1590	wt5	18-07-2022
35	TaTa Moter SK 1613	RJ24GA1616	dv1	18-07-2022
36	TaTa Moter SE 1613/42	RJ24GA4046	dv3	18-07-2022
37	Ashok Leyland (BUS)	RJ38FA0022	bus	18-07-2022
38	Mahindra Thar	RJ38UA0466		25-07-2022
39	Mahindra Thar	RJ38UA0125		25-07-2022
40	Bolero Pick up CBC 2WD	RJ38GA0477		25-07-2022
41	Bolero Pick up CBC 2WD	RJ38GA1420		21-08-2022
42	Bolero Camper Gold 2WD	RJ38GA0646		21-08-2022
43	Bolero Camper Gold ZX 2WD PS	RJ38GA1796		25-07-2022
44	Bolero Camper Gold ZX 2WD PS	RJ38GA1797		25-07-2022
45	Mahindra Bolero POWER+ SLX	RJ38GA0808		16-08-2022
46	Tractor	RJ38RA1099		18-07-2022



WATER HARVESTING PIT



CHECK DAM IN MINES LEASE AREA



TANKERS USING RAIN WATER STORED IN PITS FOR WATER SPRINKLING

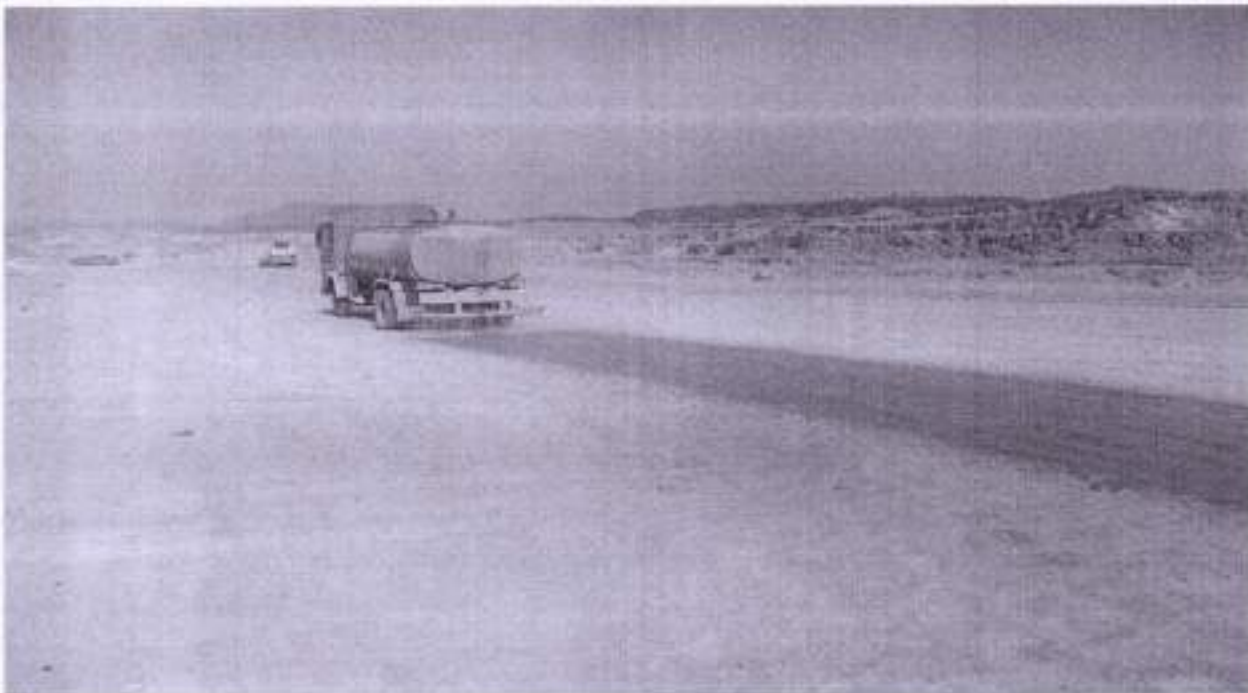




**WATER SPRINKLING SYSTEM**



**WATER SPRINKLING ON ROADS**



### WATER SPRINKLING SYSTEM ON HOPPER



### COVERED CONVEYOR BELT SYSTEM





**Hydrological data of piezometers and key wells monitored in mine and plant areas of Lakshmi cement during April 2022 to Sept 2022**

S. No.	Piezometer/Keywell No.	Location	Co-ordinates	Depth to water in m. below ground level						
				Depth date 30/1/18	April 2022	May 2022	Jun 2022	July 2022	Aug 2022	Sept 2022
1.	P. No.1	Ram Baori	73°00'35.8"E 24°40'50.0"N	21.30 Pump installed	17.75	18.37	19.10	7.31	2.75	3.52
2.	P. No. 2	Plant (west boundary)	72°59'56.9"E 24°41'14.1"N		8.90	9.31	10.65	7.20	3.45	3.77
3.	P. No. 3	Near railway line, Plant	73°00'02.7"E 24°41'27.3"N	13.05	4.52	6.13	7.04	5.29	3.12	4.12
4.	P. No. 4	Near Power plant	73°00'04.3"E 24°41'39.0"N	5.55	2.36	2.89	3.63	1.51	0.68	0.92
5.	P. No. 5	Dungari village	73°00'10.20"E 24°43'5.00"N	25.67	16.15	16.71	16.93	12.40	4.39	5.50
6.	P. No. 6	Near Adarsh village	72°59'55.8"E 24°42'33.3"N	14.90	12.61	12.93	13.61	13.50	7.20	9.40
8.	P. No. 8	Back of guest house	73°00'18.93"E 24°41'53.79"N	25.93	11.70	12.18	12.68	6.32	0.86	2.36
9.	P. No. 9	Near ND type-boundary corner	73°00'25.9"E 24°42'07.0"N	26.45	DWR	DWR	DWR	DWR	DWR	DWR
10.	P. No.10	Play ground	73°03'39.00"E 24°41'58.5"N	20.21	10.02	10.69	11.06	10.33	0.10	2.53
11.	P. No. 11	Labour colony/STP	73°01'0.60"E 24°41'48.6"N	10.85	7.92	8.37	9.12	5.30	1.41	2.77
12	P. No. 12	Basantgarh village	73°02'7.10"E 24°42'20.9"N	14.55	12.78	12.96	13.23	6.31	2.49	3.66

# Hydrological data of piezometers/key wells of Dhanari region monitored during April 2022 to Sept 2022

S. No.	VILLAGE	OWNER'S NAME	LATITUDE	LONGITUDE	DEPTH OF WELL (M)	April 2022	May 2022	Jun 2022	July 2022	Aug 2022	Sept 2022
1	Dhaneri	Village well	24° 40' 58.24"	72° 56' 07.11"	15.16	9.65	10.12	10.75	8.45	0.80	1.21
2	Dhaneri	Ramesh Dullaji	24° 41' 03.79"	72° 55' 47.82"	19.45	9.72	10.37	11.02	9.95	4.85	3.40
3	Dhaneri	Devji Brahman	24° 42' 08.72"	72° 54' 58.94 "	21.0	20.39	20.83	20.95	14.16	3.44	4.29
4	Navi Jamun	Bheem ji	24° 42' 50.2"	72° 55' 19.79"	29.96	28.02	28.72	29.47	24.97	8.31	10.29
5	Dhaneri	Jeewa Ram Bhikaji	24° 40' 59.34"	72° 56' 04.66"	22.27	14.12	14.91	15.25	9.90	1.26	3.49
6	Dhaneri	PHEID	24° 41' 15.6"	72° 55' 41.49"	18.64	9.31	10.13	10.75	8.41	2.21	2.89
7	Dhaneri	Manohar Lal	24° 40' 55.9"	72° 55' 39.40"	42.25	10.55	11.03	11.69	10.45	4.11	6.10
8	Dhaneri	Nava Ram Mali	24° 41' 41.07"	72° 55' 20.95"	25.50	10.12	1.81	11.56	7.35	2.92	3.89
9	Dhaneri	Village well	24° 41' 13.60"	72° 55' 41.28"	12.50	3.86	5.39	6.18	2.75	0.68	0.50



**JK LAKSHMI CEMENT LTD, JAYKAYPURAM****AMBIENT AIR QUALITY MONITORING RESULTS FOR THE MINE (Core & Buffer Zone)  
FOR THE MONTH OF APRIL-SEPTEMBER 2022**

DATE	CORE LOCATION	DURATION (Hrs.)	SPM $\mu\text{g}/\text{m}^3$	PM10 $\mu\text{g}/\text{m}^3$	PM2.5 $\mu\text{g}/\text{m}^3$	SO2 $\mu\text{g}/\text{m}^3$	NO2 $\mu\text{g}/\text{m}^3$	CO $\mu\text{g}/\text{m}^3$
19.04.2022	MINE OFFICE	24	168.46	73.22	25.08	4.65	12.39	310
18.04.2022	VIEW POINT	24	188.58	75.76	32.94	4.48	11.08	370
20.04.2022	DUMP AT WASTE	24	255.47	76.88	41.82	4.75	11.65	360
18.04.2022	SCREEN REJECT	24	224.63	74.47	33.65	4.89	13.04	430
24.05.2022	MINE OFFICE	24	219.63	77.06	40.18	4.7	15.84	280
24.05.2022	VIEW POINT	24	246.51	71.46	36.71	3.23	15.36	320
26.05.2022	DUMP AT WASTE	24	412.07	83.32	45.64	3.04	13.46	270
24.05.2022	SCREEN REJECT	24	261.49	77.82	44.05	2.23	13.65	250
17.06.2022	MINE OFFICE	24	295.73	70.73	31.92	3.55	14.38	350
17.06.2022	VIEW POINT	24	256.91	75.59	32.38	3.79	11.45	260
18.06.2022	DUMP AT WASTE	24	278.71	86.06	37.17	3.07	10.62	290
17.06.2022	SCREEN REJECT	24	359.05	81.04	40.74	4.67	12.79	310
25.07.2022	MINE OFFICE	24	94.3	46.23	23.28	3.39	12.28	210
25.07.2022	VIEW POINT	24	130.9	50.0	24.5	3.84	12.18	240
25.07.2022	DUMP AT WASTE	24	115.8	49.79	26.84	3.87	12.11	210
25.07.2022	SCREEN REJECT	24	110.37	45.82	25.6	3.90	12.21	180
09.08.2022	MINE OFFICE	24	54.71	21.12	14.85	2.81	12.55	310
10.08.2022	VIEW POINT	24	96.16	38.97	20.82	2.99	12.83	310
11.08.2022	DUMP AT WASTE	24	62.49	23.63	10.08	2.5	9.65	270
10.08.2022	SCREEN REJECT	24	65.41	30.07	7.81	2.9	9.5	260
20.09.2022	MINE OFFICE	24	146.26	62.73	29.02	3.87	13.49	290
20.09.2022	VIEW POINT	24	134.25	61.96	28.96	3.92	12.37	430
20.09.2022	DUMP AT WASTE	24	134.21	64.94	25.32	3.86	12.46	390
20.09.2022	SCREEN REJECT	24	164.61	61.53	28.73	3.79	12.29	350

DATE	BUFFER LOCATION	DURATION (Hrs.)	SPM $\mu\text{g}/\text{m}^3$	PM10 $\mu\text{g}/\text{m}^3$	PM2.5 $\mu\text{g}/\text{m}^3$	SO2 $\mu\text{g}/\text{m}^3$	NO2 $\mu\text{g}/\text{m}^3$	CO $\mu\text{g}/\text{m}^3$
17.04.2022	ADARSH	24	224.83	76.29	27.58	2.84	13	360
17.04.2022	BASANT GARH	24	167.88	67.66	29.89	3.54	13.03	310
17.04.2022	ROHIDA	24	180.69	67.65	23.09	3.45	14.15	330
21.04.2022	RAMPURA	24	168.67	60.82	27.75	2	12.69	270
27.05.2022	ADARSH	24	162.84	68.56	27.87	4.1	11.71	280
27.05.2022	BASANT GARH	24	168.67	65.48	32.54	4.1	12.13	280
28.05.2022	ROHIDA	24	182.96	75.34	28.31	4.46	14.36	280
28.05.2022	RAMPURA	24	168.03	69.17	32.61	4.45	15.23	290
20.06.2022	ADARSH	24	270.46	66.38	31.03	3.93	16.28	230
20.06.2022	BASANT GARH	24	203.96	65.63	30.77	4.31	10.13	240
21.06.2022	ROHIDA	24	236.52	69.27	33.16	3.52	12.48	240
21.06.2022	RAMPURA	24	256.81	65.96	41.18	4.53	13.06	250
25.07.2022	ADARSH	24	92.47	41.93	20.19	2.77	10.15	130
25.07.2022	BASANT GARH	24	107.5	39.42	20.21	3.21	12.20	170
25.07.2022	ROHIDA	24	92.05	47.64	20.91	3.91	12.25	160
25.07.2022	RAMPURA	24	98.13	41.11	21.53	2.27	10.98	140
10.08.2022	ADARSH	24	78.28	34.86	12.09	2.30	11.21	250
10.08.2022	BASANT GARH	24	66.67	14.1	8.29	2.66	8.6	250
10.08.2022	ROHIDA	24	107.35	44.53	19.73	2.02	11.75	260
10.08.2022	RAMPURA	24	58.42	31.80	16.61	2.26	10.32	240
20.09.2022	ADARSH	24	114.87	53.84	22.10	3.52	12.59	210
20.09.2022	BASANT GARH	24	105.24	55.59	21.68	3.23	12.31	230
20.09.2022	ROHIDA	24	113.42	49.35	25.67	3.86	12.53	170
20.09.2022	RAMPURA	24	98.56	48.25	23.36	3.91	12.42	180



## JK LAKSHMI CEMENT LTD, JAYKAYPURAM

### AMBIENT NOISE LEVEL MONITORING

FOR THE MONTH OF APRIL 2022(Core & Buffer Zone)

S.No.	Monitoring Date	Location	Standard	
			Day Time 75 dB (A) leq	Night Time 65 dB (A) leq
1	20.04.2022	MRL 435	62.5	52.3
2	19.04.2022	Mine office	59.3	51.2
3	21.04.2022	Near crusher	72.7	63.5
4	18.04.2022	View point near crusher	69.5	58.6
5	19.04.2022	Belt No. 12 (Reject area)	63.8	54.9
6	18.04.2022	Screen Machine	73.6	62.6
7	20.04.2022	Dump at Waste	63.7	55.2
8	17.04.2022	Basantgarh village	50.4	39.5
9	21.04.2022	Rampura village	49.5	40.5
10	17.04.2022	Adarsh village	51.0	40.2
11	17.04.2022	Rohida village	52.6	41.7

### AMBIENT NOISE LEVEL MONITORING

FOR THE MONTH OF MAY 2022 (Core & Buffer Zone)

S.No.	Monitoring Date	Location	Standard	
			Day Time 75 dB (A) leq	Night Time 65 dB (A) leq
1	26.05.2022	MRL 435	58.9	47.3
2	24.05.2022	Mine office	56.6	42.2
3	27.05.2022	Near crusher	67.8	60.8
4	24.05.2022	View point near crusher	60.7	46.3
5	28.05.2022	Belt No. 12 (Reject area)	56.6	45.8
6	24.05.2022	Screen Machine	64.6	46.4
7	27.05.2022	Dump at Waste	66.7	51.3
8	27.05.2022	Basantgarh village	53.2	41.6
9	28.05.2022	Rampura village	54.2	41.2
10	27.05.2022	Adarsh village	54.8	40.8
11	28.05.2022	Rohida village	54.4	40.8

AMBIENT NOISE LEVEL MONITORING

FOR THE MONTH OF JUNE 2022 (Core & Buffer Zone)

S.No.	Monitoring Date	Location	Standard	
			Day Time 75 dB (A) leq	Night time 65 dB (A) leq
1	18.06.2022	MRL 435	63.0	52.2
2	17.06.2022	Mine office	61.8	53.4
3	21.06.2022	Near crusher	67.8	63.0
4	17.06.2022	View point near crusher	66.8	54.6
5	18.06.2022	Belt No. 12 (Reject area)	64.7	57.0
6	17.06.2022	Screen Machine	64.9	58.5
7	18.06.2022	Dump at Waste	64.0	56.1
8	20.06.2022	Basantgarh village	51.0	41.6
9	21.06.2022	Rampura village	52.8	43.4
10	20.06.2022	Adarsh village	52.0	42.4
11	21.06.2022	Rohida village	51.2	42.9

AMBIENT NOISE LEVEL MONITORING

FOR THE MONTH OF JULY 2022(Core & Buffer Zone)

S.No.	Monitoring Date	Location	Standard	
			Day Time 75 dB (A) leq	Night Time 65 dB (A) leq
1	25.07.2022	MRL 435	64.9	56.2
2	25.07.2022	Mine office	58.7	50.2
3	25.07.2022	Near crusher	73.8	62.7
4	25.07.2022	View point near crusher	69.5	61.4
5	25.07.2022	Belt No. 12 (Reject area)	63.4	54.7
6	25.07.2022	Screen Machine	67.3	56.9
7	25.07.2022	Dump at Waste	63.2	55.4
8	25.07.2022	Basantgarh village	51.9	42.7
9	25.07.2022	Rampura village	51.8	42.4
10	25.07.2022	Adarsh village	52.3	41.3
11	25.07.2022	Rohida village	50.4	41.4



AMBIENT NOISE LEVEL MONITORING

FOR THE MONTH OF AUGUST 2022 (Core & Buffer Zone)

S.No.	Monitoring Date	Location	Standard	
			Day Time 75 dB (A) leq	Night Time 65 dB (A) leq
1	10.08.2022	MRL 435	56.4	50.2
2	10.08.2022	Mine office	59.5	54.2
3	10.08.2022	Near crusher	72.6	64.7
4	10.08.2022	View point near crusher	73.6	63.6
5	10.08.2022	Belt No. 12 (Reject area)	59.7	50.4
6	10.08.2022	Screen Machine	60.8	53.4
7	10.08.2022	Dump at Waste	56.7	50.1
8	10.08.2022	Basantgarh village	53.2	43.6
9	10.08.2022	Rampura village	51.6	40.9
10	10.08.2022	Adarsh village	50.9	41.7
11	10.08.2022	Rohida village	53.6	44.3

AMBIENT NOISE LEVEL MONITORING

FOR THE MONTH OF SEPTEMBER 2022 (Core & Buffer Zone)

S.No.	Monitoring Date	Location	Standard	
			Day Time 75 dB (A) leq	Night time 65 dB (A) leq
1	21.09.2022	MRL 435	63.5	55.3
2	21.09.2022	Mine office	61.4	52.6
3	21.09.2022	Near crusher	73.2	62.4
4	21.09.2022	View point near crusher	71.2	62.3
5	21.09.2022	Belt No. 12 (Reject area)	63.9	54.7
6	21.09.2022	Screen Machine	63.8	55.7
7	21.09.2022	Dump at Waste	65.6	54.8
8	21.09.2022	Basantgarh village	50.8	40.2
9	21.09.2022	Rampura village	53.5	43.2
10	21.09.2022	Adarsh village	53.2	41.8
11	21.09.2022	Rohida village	51.3	42.5



## **CSR interventions**

(April 2022 to September 2022)

**Plant : J K Lakshmi Cement Limited, Jaykaypuram**



# Geographic and Population coverage

JICA LAKSHMI



## Approved Budget V/s. Utilisation

(Rs. in Lakhs)

S.No.	Name of the Ongoing Project	Total approved budget for FY 2022-23	Budget utilized till Sept. 2022
1	JK Lakshmi Aarogya Project	32.24	13.28
2	JK Lakshmi Swajal Project	42.88	7.24
3	JK Lakshmi Vidya Project	15.97	1.47
4	JK Lakshmi Aajivika Project	23.89	9.75
5	JK Lakshmi Gramin Vikas Project	6.25	1.47
6	CSR team Exposure visit/Capacity building training	0.50	-
7	District Level Branding Activities	1.50	-
8	Administrative Expenditures	2.46	1.02
	<b>Total Amount</b>	<b>125.69</b>	<b>34.32</b>



## CSR interventions FY 2022-23

### Health Promotion :

JK Lakshmi Aarogya Project - Naya Savera (Maternal and Child Health Programme)

S.No	Activity	No. of activity	Beneficiaries
1	Organize Mobile Medical Camps	202 Camps	4451 Patients
2	Conduct Household Visits	3675 Visits	3749 Persons
3	Organize Awareness Sessions	79 Sessions	1737 Persons
4	Mass Immunization Camps	04 Camps	68 Children and 36 Pregnant Mothers

## Naya Savera (Maternal and Child Health Programme)





## Naya Savera (Maternal and Child Health Programme)



## CSR interventions FY 2022-23

Ongoing Project Name: JK Lakshmi Aarogya

S.No	Activity	No. of Unit	Beneficiaries
1	To organize awareness sessions on ARSH and Life Skill Education.	19 Sessions	1618 Students
2	To organize General Health Check up camps	04 Camps	41 Students
3	To organize haemoglobin Check up camps	03 Camps	143 Students





## CSR interventions FY 2022-23

Ongoing Project Name: JK Lakshmi Aarogya



Organized the Health Camp in which 105 Truck Drivers with helpers

## CSR interventions FY 2022-23

**JK Lakshmi Swajal Project : Arrangement of Drinking water as well as water conservation activities**



**We have arranged 85000 ltr. drinking water per day through 17 tankers in nearby villages & Tribal hamlets during summer season**



## CSR interventions FY 2022-23

### JK Lakshmi Vidya Project - Project Aarambh : To enroll children in school



We have got enrolled 84 tribal children in school and provided study materials to all.

## JK Lakshmi Vidya Project - To Sponsor teachers in Govt. School



Sponsored 06 teachers at nearby Govt. Schools to improve quality of education and to prepare for the Navodaya Exam



## CSR interventions FY 2022-23

JK Lakshmi Aajivika Project : Youth Engagement & Livelihood Promotion



14 Youths have completed their vocation training and other 05 are under training in various trade

## JK Lakshmi Aajivika Project : Youth Engagement & Livelihood Promotion



Individual supported to 15  
youths to begin/enhance the  
small business/enterprise



## **JK Lakshmi Aajivika Project : Youth Engagement & Livelihood Promotion**



**Establishment of JK Lakshmi Library Evam Kaushal Vikas Kendra, Adarsh where an average 65 youths are studying in which 44% youths are belonging to ST & SC community.**

## JK Lakshmi Aajivika Project : Youth Engagement & Livelihood Promotion



02 tribal youths have completed written exam of the Rajasthan Police Constable. We have recognized them and further for physical test we are supporting.



## CSR interventions FY 2022-23

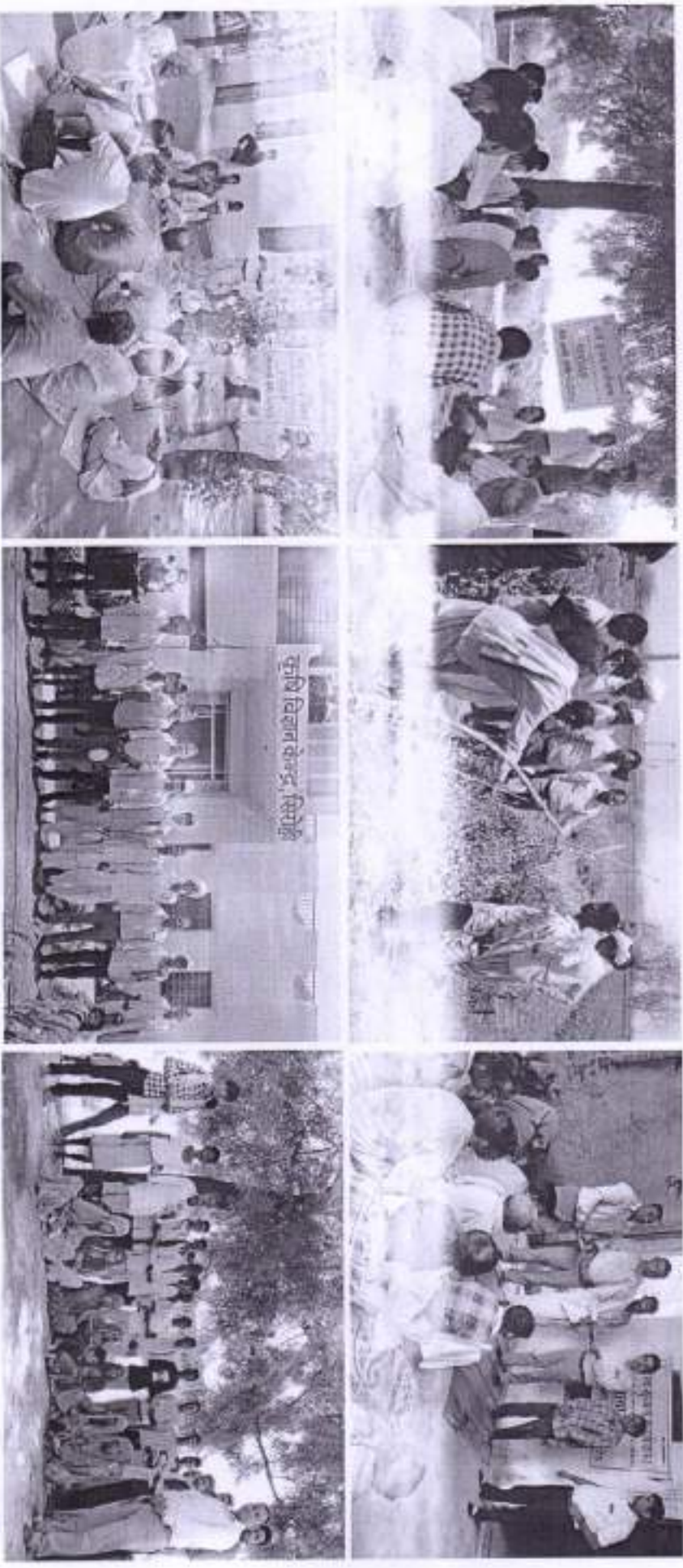
### JK Lakshmi Aajivika Project – Lakshmi Integrated Livestock Development Programme

SNO	Activity	No. of Activity	No. of Beneficiaries
1	Doorstep treatment	481 Visits	8894 Animals
2	Vaccination	11 Camps	1653 Animals
3	Awareness on Livestock's Care	705 Sessions	5522 Animal Reared's



## CSR interventions FY 2022-23

JK Lakshmi Aajivika Project – Income generation/enhancement through agriculture programme



Glimpses of various interventions under agriculture programme



## CSR interventions FY 2022-23

### JK Lakshmi Gramin Vikas Project (Environment Sustainability )



We have provided 600 plants and 100 Tree guards for plantation at near by schools & community places

## CSR interventions FY 2022-23

### JK Lakshmi Gramin Vikas Project (Muskan Programme )

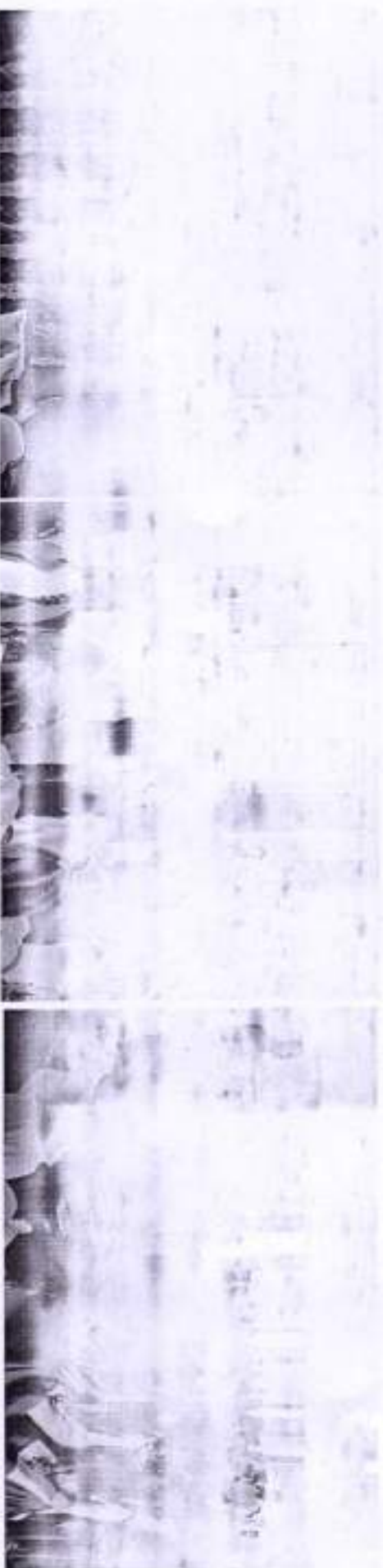


Organized the Muskan Programme at the Basantgarh village and recognized 70 elders and played fun games.



## Update on New Project/partner

SN	Project	Status
1	Career Counselling with ProBano agency	24 sessions have conducted with 02 govt. school's students of class 10 <sup>th</sup> to 12 <sup>th</sup> upto Sept. 2022.
2.	To run Youth Empowerment Centre with HHH agency	Centre has been running and 40 youths (25 Female & 15 Male) are under training.
3.	Need assessment by Nusocia	Field work completed
4.	Vidya Scholarships	On Going.



an unstable equilibrium, it is a matter of time when

**Abstract**

[illegible]

संशोधन/प्रमाणित : इस पत्र में उद्धृत

[illegible]

三、四、五、六、七、八、九、十、十一、十二、十三、十四、十五、十六、十七、十八、十九、二十、二十一、二十二、二十三、二十四、二十五、二十六、二十七、二十八、二十九、三十、三十一、三十二、三十三、三十四、三十五、三十六、三十七、三十八、三十九、四十、四十一、四十二、四十三、四十四、四十五、四十六、四十七、四十八、四十九、五十、五十一、五十二、五十三、五十四、五十五、五十六、五十七、五十八、五十九、六十、六十一、六十二、六十三、六十四、六十五、六十六、六十七、六十八、六十九、七十、七十一、七十二、七十三、七十四、七十五、七十六、七十七、七十八、七十九、八十、八十一、八十二、八十三、八十四、八十五、八十六、八十七、八十八、八十九、九十、九十一、九十二、九十三、九十四、九十五、九十六、九十七、九十八、九十九、一百。

प्राच्य बुद्ध, पुरातन गौतम आचार्य एवं प्राच्य बुद्ध के भिन्न भेदनाम के अन्तर्गत की गई रही है जिसके भिन्न भेदनाम इतिहासिकों ने संस्थापक के नामों के साथ जोके, लम्बी बालों, संन्यास की वेशभूषा, लंबी शिबिर, शिवालय का आकार आदि दिए हैं।

100

अपराधों के निवारणों के लिए



महाराष्ट्र के राज्यपाल के आवास के आसपास स्थित है। यह एक बहुत ही पुराना और ऐतिहासिक स्थान है।

02-08-2022

2004

...the ...  
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**JK LAKSHMI CEMENT LTD, JAYKAYPURAM****MINE WORKSHOP OUTLET WASTE WATER ANALYSIS REPORT****FOR THE MONTH OF APRIL 2022**

S.No.	Parameters	Measured Values	Standard
1	Total Suspended Solids (mg/l)	24	< 100
2	pH value	7.52	5.5-9.0
3	Oil & Grease (mg/l)	4	< 10
4	B.O.D. (mg/l)	11.67	< 30
5	C.O.D. (mg/l)	99.2	< 250

FOR THE MONTH OF MAY 2022

S.No.	Parameters	Measured Values	Standard
1	Total Suspended Solids (mg/l)	6	< 100
2	pH value	6.98	5.5-9.0
3	Oil & Grease (mg/l)	7	< 10
4	B.O.D. (mg/l)	8	< 30
5	C.O.D. (mg/l)	46.56	< 250

FOR THE MONTH OF JUNE 2022

S.No.	Parameters	Measured Values	Standard
1	Total Suspended Solids (mg/l)	21	< 100
2	pH value	7.34	5.5-9.0
3	Oil & Grease (mg/l)	4	< 10
4	B.O.D. (mg/l)	8	< 30
5	C.O.D. (mg/l)	67.87	< 250

FOR THE MONTH OF JULY 2022

S.No.	Parameters	Measured Values	Standard
1	Total Suspended Solids (mg/l)	10	< 100
2	pH value	7.42	5.5-9.0
3	Oil & Grease (mg/l)	3	< 10
4	B.O.D. (mg/l)	7.71	< 30
5	C.O.D. (mg/l)	55.49	< 250



FOR THE MONTH OF AUGUST 2022

S.No.	Parameters	Measured Values	Standard
1	Total Suspended Solids (mg/l)	9	< 100
2	pH value	7.26	5.5-9.0
3	Oil & Grease (mg/l)	4	< 10
4	B.O.D. (mg/l)	9.46	< 30
5	C.O.D. (mg/l)	63.36	< 250

FOR THE MONTH OF SEPTEMBER 2022

S.No.	Parameters	Measured Values	Standard
1	Total Suspended Solids (mg/l)	4	< 100
2	pH value	7.53	5.5-9.0
3	Oil & Grease (mg/l)	2	< 10
4	B.O.D. (mg/l)	7.5	< 30
5	C.O.D. (mg/l)	41.47	< 250



# TEAM TEST HOUSE

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



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

RSPCB

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

## TEST REPORT

Report No./ULR No. :	TC502522200001806	Date :	20-08-2022
Issued To :	M/s J.K. Lakshmi Cement Ltd (Mines) P.O. Jaykay Puram, Sirohi (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Liquid Effluents	Date of Sample Collection/Monitoring :	06-08-2022
Point of Collection :	Mines Workshop INLET	Date of Receipt :	10-08-2022
Date of Test/Analysis :	10-08-2022 to 20-08-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr.	Sample Collected By :	Barwari Lal Kumawat
Unit's representative :	Mr A.D. Saxena	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Total Suspended Solids [mg/l]	79	APHA.2017:2540-D
2	Biochemical Oxygen Demand (BOD) [mg/l]	48.75	APHA 2017:5210-B
3	Chemical Oxygen Demand (COD) [mg/l]	250.27	APHA.2017 : 5220-C
4	pH	7.24	APHA.2017 : 4500 H+B
5	Oil & Grease [mg/l]	13	APHA 2017 : 5520 B

**Notes :-**

- \* The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
- \* This report is not to be reproduced wholly or in part and can not be used evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- \* The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Sunil Kumar

Rajan Maheshwari  
(Report No: TC502522200001806 )





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Email : marketinglab@teamtesthouse.com

## TEST REPORT

Report No./ULR No.:	TC502522200001807	Date :	20-08-2022
Issued To :	M/s J.K. Lakshmi Cement Ltd (Mines) P.O. Jaykay Puram, Sirohi (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Liquid Effluents	Date of Sample Collection/Monitoring :	08-08-2022
Point of Collection :	Mines Workshop OUTLET	Date of Receipt :	10-08-2022
Date of Test/Analysis :	10-08-2022 to 20-08-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr.	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr A.D. Saxena	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids (mg/l)	9	APHA, 2017: 2540-D	100
2	Biochemical Oxygen Demand (BOD) (mg/l)	9.46	APHA 2017: 5210-B	30
3	Chemical Oxygen Demand (COD) (mg/l)	63.36	APHA 2017 : 5220-C	250
4	pH	7.26	APHA 2017 : 4500 H+B	5.5 - 9.0
5	Oil & Grease (mg/l)	4	APHA 2017 : 5520 B	10

### Notes :-

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Sunil Kumar  
Senior Analyst

Rajesh Kumar  
Authorized Signatory  
(Report No: TC502522200001807)



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

## TEST REPORT

Report No./ULR No. :	TC502522200001447	Date :	04-07-2022
Issued To :	M/s J.K. Lakshmi Cement Ltd (Mines) P.O. Jaykay Puram, Sirohi (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Liquid Effluents	Date of Sample Collection/Monitoring :	21-06-2022
Point of Collection :	Mines Workshop INLET	Date of Receipt :	30-06-2022
Date of Test/Analysis :	30-06-2022 to 04-07-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr.	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr A.D. Saxena	Conclusion of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Total Suspended Solids [mg/l]	93	APHA.2017:2540-D
2	Biochemical Oxygen Demand (BOD) [mg/l]	41.43	APHA 2017:5210-B
3	Chemical Oxygen Demand (COD) [mg/l]	284.42	APHA:2017 : 5220-C
4	pH	7.06	APHA:2017 : 4500 H+B
5	Oil & Grease [mg/l]	13	APHA 2017 : 5520 B

### Notes >

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**Sunil Kumar**

**Rajesh Kumar**  
(Report No: TC502522200001447)





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

## TEST REPORT

Report No./ULR No. :	TC502522200001448	Date :	04-07-2022
Issued To :	M/s J.K. Lakshmi Cement Ltd (Mines) P.O. Jaykay Puram, Sirohi (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Liquid Effluents	Date of Sample Collection/Monitoring :	21-06-2022
Point of Collection :	Mines Workshop OUTLET	Date of Receipt :	30-06-2022
Date of Test/Analysis :	30-06-2022 to 04-07-2022	Sampling Method :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr.	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Mr A.D. Saxena	Condition of Sample :	Fit for testing

## RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	21	APHA 2017:2540-D	100
2	Biochemical Oxygen Demand (BOD) [mg/l]	8	APHA 2017:5210-B	30
3	Chemical Oxygen Demand (COD) [mg/l]	67.87	APHA 2017 : 5220-C	250
4	pH	7.34	APHA 2017 : 4500 H+B	5.5 - 9.0
5	Oil & Grease [mg/l]	4	APHA 2017 : 5520 B	10

### Notes :-

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Sunil Kumar

Maheshwan  
(Report No: TC502522200001448 )

## Organization Structure

