

**JK Cement LTD.**

CIN : L17229UP1994PLC017199

ISO 9001:2015 | ISO 14001:2015 | ISO 45001:2018 | ISO 50001:2018 CERTIFIED COMPANY

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J.K. Cement Works, Mangrol  
C/o. Kailash Nagar-312617, Nimbahera  
Distt. Chittorgarh (Raj.) INDIA

MGR/PC-14/C12/

Regd.AD.

Date: 29.05.2021

To,

**The Director(M),**

Ministry of Environment, Forests & Climate Change  
Indira Paryavaran Bhavan,  
JOR Bagh Road,

**New Delhi 110003**

**Sub: Environmental Clearance Compliance report of Mangrol Limestone Mine (M.L. No. 26/08 Area 132 ha.) by M/s J.K. Cement Works, Mangrol Dist. Chittorgarh (Raj.)**

Ref.: EC letter no. - J-11O15/427/2008-IA.II (M) Dated 06 August 2010.

Dear Sir,

Kindly refer to the above subject matter and refer EC letter no., please find attached herewith compliance of EC for the period of **October'2020 to March'2021**.

As per MoEF & CC notification no. S.O. 5845 (E) 26.11.2018 the soft copy of same has been sent through email to [roc.zlko-mef@nic.in](mailto:roc.zlko-mef@nic.in), [moef@nic.in](mailto:moef@nic.in), [m\\_env@rediffmail.com](mailto:m_env@rediffmail.com), [ccb.cpcb@nic.in](mailto:ccb.cpcb@nic.in), [member-secretary@rpcb.nic.in](mailto:member-secretary@rpcb.nic.in), [cpcb.bhopal@gmail.com](mailto:cpcb.bhopal@gmail.com) [monitoring-ec@nic.in](mailto:monitoring-ec@nic.in).

We hope that the compliance is in order. Thanking you.

Yours Faithfully  
For J.K. Cement Works, Mangrol

Anil Kumar Jain  
Sr. General Manager- Environment

**Enclosed: as above**

**Copy to:**

**1.The Director**,Ministry of Environment, Forests & Climate Change, \_Regional office (Central Region), Kendriya Bhawan, 5th Floor, Sector 'H' , Aliganj, lucknow-226020 (U.P.)

**2.The Chairman**, Central Pollution Control Board ,Parivesh Bhawan, CBD-CUM office complex, East Arjun Nagar, Behind Karkarduma high court New Delhi-11032

**3. Member Secretary**, \_Rajasthan State Pollution Control Board, 4, Institutional Area, Jhalana Doongri, Jaipur - 302004 (RAJASTHAN)

**Corporate & Registered Office :** Kamla Tower, Kanpur-208001, (U. P.) INDIA  
**Phone :** +91-512-2371478 to 81 **Fax :** 2399854 **E-mail :** ho.grey@jkcement.com



J. K. Cement Works, Nimbahera  
J. K. Cement Works Mangrol  
J. K. Cement Works, Gotan  
J. K. Cement Works, Jharli

J. K. Power, Bamania  
J. K. Cement Works, Muddapur  
J. K. White Cement Works, Gotan  
J. K. White, Katni





**JK Cement LTD.**

**HALF YEARLY COMPLIANCE REPORT**  
**OF**  
**ENVIRONMENTAL CLEARANCE LETTER NO.**  
**J-11015/427/2008-1A. II (M) dated 06.08.2010**  
**Period: October-2020 to March-2021**

**For**  
**Mangrol Limestone Mine: 1.5 MMTPA**

**Submitted to:**  
**MoEF&CC, New Delhi & Central Regional Office, Lucknow (UP)**  
**Central Pollution Control Board, New Delhi & Bhopal**  
**Rajasthan State Pollution Control Board, Jaipur**

**Submitted by:**  
**M/s J.K.CEMENT WORKS, MANGROL,**  
**Vill. Mangrol, Tehsil: Nimbahera, District: Chittorgarh (Raj)**



**JK SUPER**  
**CEMENT**  
**BUILD SAFE**

PROPONENT	J.K. CEMENT WORKS, MANGROL (RAJ.)	Period from October 2020 to March 2021
PROJECT	Mangrol Lime Stone Mine (M.L. No. 26/08, Area 132 ha., Limestone 1.5 MMTPA, villages- Mangrol, Tehsil-Nimbahera, District-Chittorgarh, Rajasthan.	
Environment Clearance issued from MOEF, New Delhi vide Letter No. J-11015/427/2008-IA.II (M) dated 06.08.2010		

<b>S.No</b>	<b>Details of Conditions</b>	<b>Compliance Status</b>
<b>(A) Specific Conditions</b>		
(i)	The project proponent shall obtain Consent to Establish and Consent to Operate from the Rajasthan State Pollution Control Board and effectively implement all the conditions stipulated therein.	Complied with. Consent to Establish has been obtained vide letter reference no. F(Mines)/Chittorgarh/(Nimbahera) 966(1) 2011- 12/4718-4722 dated 29.09.2011. Consent to operate has also been obtained vide letter No. F (Mines)/ Chittorgarh (Nimbahera)/1863(1)/2016-2017/7040-7044 dated 25.02.2019 and valid up to 31.01.2024.
(ii)	Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India in Contempt Petition ( C ) No.412/2004 in IA No. 833 in Writ Petition ( C ) No. 202 of 1995, as may be applicable to this project.	Noted.
(iii)	The environmental clearance is subject to approval of the State Land use Department, Government of Rajasthan for diversion of agricultural land for non-agricultural use.	Complying with. Private agriculture land is used only after diversion for non-agriculture use from state revenue department.
(iv)	Necessary prior permission from the Competent Authority as may be applicable for use of grazing land for mining purpose shall be obtained.	Complying with. Permission for use of grazing land for mining purpose is obtained from Revenue Department vide letter No. Revenue/2011-12 dated 12.01.2012.
(v)	The project proponent shall develop fodder plots in the non-mineralized area in lieu of use of grazing land.	Complying with. Fodder plots are being developed in our purchased land having non-mineralized zone and are falling in our lease area. The area is being used for grazing cattle's.

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**Non-mineralized zone use for grazing cattle's**

(vi)	The mining operations shall be restricted to above ground water table and it should not intersect the groundwater table. In case of working below the ground water table, prior approval of the Ministry of Environment and Forests and the Central Ground Water Authority shall be obtained, for which a detailed hydro-geological study shall be carried out.	<div>Complying with.</div> <div>The detail of the elevation, ground water table and working level is given below: -</div> <table><thead><tr><th>S. No.</th><th>Particulars</th><th>Levels (MSL)</th><th>BGL (m)</th></tr></thead><tbody><tr><td>1.</td><td>Highest Elevation</td><td>440</td><td>--</td></tr><tr><td>2.</td><td>Lowest Elevation</td><td>432</td><td>--</td></tr><tr><td>3.</td><td>General Ground Level</td><td>435</td><td>--</td></tr><tr><td>4.</td><td>Water Table (Pre-Monsoon)</td><td>380-385</td><td>50-55</td></tr><tr><td>5.</td><td>Water Table (Post-Monsoon)</td><td>395</td><td>40</td></tr><tr><td>6.</td><td>Ultimate Pit Limit</td><td>395</td><td>40</td></tr></tbody></table> <div><b>Source: - As per approved Modified Mining Plan with PMCP dated 03.01.2019.</b></div> <div>Water table will not intersect during the conceptual phase/ life of mine.</div>	S. No.	Particulars	Levels (MSL)	BGL (m)	1.	Highest Elevation	440	--	2.	Lowest Elevation	432	--	3.	General Ground Level	435	--	4.	Water Table (Pre-Monsoon)	380-385	50-55	5.	Water Table (Post-Monsoon)	395	40	6.	Ultimate Pit Limit	395	40
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6.	Ultimate Pit Limit	395	40																											
(vii)	The project proponent shall ensure that no natural watercourse and/or water resources are obstructed due to any mining operations.	There are no large channels or other sources of water in the area. The water drains out of the area following the natural slope. No natural water course will be obstructed during Mining operation and this will be strictly followed as mentioned in Approved Mining Plan.																												







PROPONENT	J.K. CEMENT WORKS, MANGROL (RAJ.)	Period from October 2020 to March 2021
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Environment Clearance issued from MOEF, New Delhi vide Letter No. J-11015/427/2008-IA.II (M) dated 06.08.2010		

(viii)	The top soil shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation.	<p>Complying with.</p> <p>The top soil generated 60235 tons up to march-21 during the mining operation is being stacked at designated places, levelled and plantation is being carried out as mentioned in approved mining plan.</p>
(ix)	The waste generated during the mining operation shall be stacked at the earmarked site and reclaimed by the plantation. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status should be submitted to the Ministry of Environment & Forests and its Regional Office, Lucknow on six monthly basis.	<p>There is no generation of waste during the mining operation except subgrade 1058436 tons &amp; top soil 60235 tons up to march-21 which is being stacked at designated places, levelled and being stabilized by carrying out plantation over it. Monitoring of the plantation is being done for better survival.</p> <p>Latest compliance report was submitted to Ministry of Environment and Forests including its Regional Office located at Lucknow and the State Pollution Control Board/Central Pollution Control Board vide letter no. MGR/PC-14/C12 on Dated 26.11.2020.</p>
(x)	The void left unfilled in the entire excavated area of 88.55ha shall be converted into water body. The higher benches of excavated void/mining pit shall be terraced and plantation done to stabilize the slopes. The slope of higher benches shall be made gentler for easy accessibility by local people to use the water body. Peripheral fencing shall be carried out all along the excavated area.	<p>Will be complied.</p> <p>The whole excavated area will be properly fenced off from all sides and will be used for collection of harvested rain water. The entire excavated area will be properly fenced along the periphery and plantation will be done.</p>
(xi)	Catch drains and siltation ponds of appropriate size shall be constructed for the working pit, temporary soil, mineral dumps and waste dump(s) to arrest flow of silt and sediment directly into the agricultural fields, the Gambhiri dam, the Murlia reservoir, the Gambhiri river and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains should be regularly desilted particularly after the monsoon and maintained properly.	<p>Complied with.</p> <p>The catch drain and siltation ponds has been constructed of appropriate size around the mining pit to prevent run off water and flow of sediments going directly into the agriculture fields/outside the mining limit and water bodies. There will be no generation of waste as prescribed in approved mining plan, hence no overburden dump will be formed.</p> <p>Garland drain system of appropriate size, gradient and length has been constructed around the mining pit to prevent runoff water and flow of sediments outside the mining limit. There will be no generation of waste as mentioned in approved mining plan; hence no overburden dump will be formed.</p>

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Environment Clearance issued from MOEF, New Delhi vide Letter No. J-11015/427/2008-IA.II (M) dated 06.08.2010		

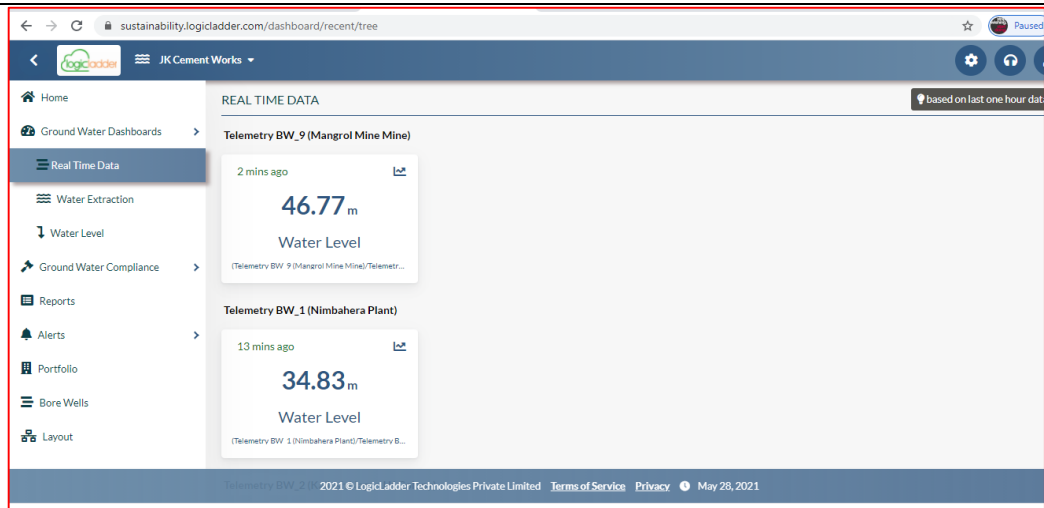
	Garland drains, setting tanks and check dams of appropriate size, gradient and length shall be constructed both around the mine pit and waste dump(s) to prevent run off of water and flow of sediments directly into the agricultural fields, the Gambhiri dam, the Murlia reservoir, the Gambhiri river and other water bodies and sump capacity should be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper setting of slit material. Sedimentation pits should be constructed at the corners of the garland drains and desilted at regular intervals.	
(xii)	Dimension of the retaining wall at the toe of the waste dumps and the waste benches within the mine to check run-off and siltation should be based on the rain fall data.	Since there is no generation of waste, only top black cotton soil is generated which is stacked, levelled at designated places and plantation is done over it. Garland drain and siltation pond has been constructed to check runoff.
(xiii)	Plantation shall be raised in an area of 14ha including a 7.5m wide green belt in the safety zone around the mining lease, reclaimed area, around water body, around waste dumps along the roads etc. by planting the native species in consultation with the local DFO/Agriculture Department. The density of the trees should be around 1000 plants per ha. Greenbelt shall be developed all along the mine lease area in a phased manner and shall be completed within first five years.	<p>Complying with.</p> <p>Total 7.47 ha. Area is covered under plantation with 16620 nos. of plants (Till 31<sup>st</sup> March'2021). Within lease area 5.45 ha. is planted with 13600 no. plants including 0.74 Ha in 7.5 m wide safety zone around the mining lease and outside lease 2.02 ha. area is planted with 3020 nos. of plants.</p> <p>Total 7.5 m safety zone area is 2.43 ha, out of which 0.74 ha area has been planted and remaining 1.69 ha will be completed by Sept. 2021.</p> <p>There is no reclaimed area and no waste dump within the mining lease suitable for plantation. Plantation density is around 2500 numbers/ ha against the condition of 1000 saplings /ha.</p>

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(xiv)	Effective safeguard measures, such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as around crushing and screening plant, loading and unloading point and all transfer points. Extensive water sprinkling shall be carried out on haul roads. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.	<p>Complying with.</p> <p>Regular water sprinkling by deploying water sprinkler is done on the haul roads to prevent the dust becoming air borne during transport of vehicles. Wet drilling system is practiced during drilling of holes.</p> <p>Ambient air quality monitoring report of core &amp; buffer zone by NABL accredited lab enclosed as <b>Annexure-I</b>.</p>



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Environment Clearance issued from MOEF, New Delhi vide Letter No. J-11015/427/2008-IA.II (M) dated 06.08.2010		

	groundwater table is getting depleted due to the mining activity, necessary corrective measures shall be carried out.	 <p>The screenshot shows a web dashboard for 'JK Cement Works' with a sidebar menu including Home, Ground Water Dashboards, Real Time Data, Water Extraction, Water Level, Ground Water Compliance, Reports, Alerts, Portfolio, Bore Wells, and Layout. The main content area displays 'REAL TIME DATA' for 'Telemetry BW_9 (Mangrol Mine Mine)' with a water level of 46.77m (2 mins ago) and 'Telemetry BW_1 (Nimbahera Plant)' with a water level of 34.83m (13 mins ago). The footer indicates '2021 © LogicLadder Technologies Private Limited' and the date 'May 28, 2021'.</p> <p>We have submitting water level &amp; quality report of four time in a year &amp; report submitted to the Ministry of Environment and Forests and its Regional Office, Lucknow, the Central Ground Water Authority and the Regional Director, Central Ground Water Board. Winter season (January'2021) report submitted vide letter no. MGR/PC/14/C12/659 on dated 08.02. 2021.copy enclosed as <b>Annexure-II</b>.</p>
(xvii)	Appropriate mitigative measures shall be taken to prevent pollution of the Gambhiri River and Murlia dam in consultation with the State Pollution Control Board.	Agreed .
(xviii)	The project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of ground water required for the project.	Obtained permission from CGWA vide letter no. 21 – 4 (532)/WR/CGWA/2012 – 994 dated 22.06.2015. Renewal NOC obtained vide letter no. CGWA/NOC /MIN/REN /2/2021 /5960 & corrigendum vide letter no. 21-4/532/RJ/MIN/2012-99, Dated 20/05/2021 valid from 07/04/2021 to 06/04/2023. Copy enclosed as <b>Annexure-III</b> .

PROPONENT	J.K. CEMENT WORKS, MANGROL (RAJ.)	Period from October 2020 to March 2021
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Environment Clearance issued from MOEF, New Delhi vide Letter No. J-11015/427/2008-IA.II (M) dated 06.08.2010		

(xix)	Suitable rainwater harvesting measures on long term basis shall be planned and implemented in consultation with the Regional Director, Central Ground Water Board.	<p>Complied with.</p> <p>To augment the water resources, rain water harvesting is done through mine pit water stored in lower most benches and one recharge well is constructed &amp; also 02 Nos. Check dam constricted in mine area for rain water harvesting.</p>  <p><b>Rain Water Harvesting through Mine Pit</b></p>  <p><b>Rain Water Harvesting through Check Dam</b></p>
(xx)	Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The mineral transportation shall be carried out through the covered	<p>Complying with.</p> <p>Tippers engaged in the mine are regularly checked once in six months for vehicle emissions and are kept under permissible limits as per the guidelines issued by the Authorities. The tippers are not being loaded above the rated capacity.</p>



<b>PROPONENT</b>	<b>J.K. CEMENT WORKS, MANGROL (RAJ.)</b>	<b>Period from October 2020 to March 2021</b>
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<b><i>Environment Clearance issued from MOEF, New Delhi vide Letter No. J-11015/427/2008-IA.II (M) dated 06.08.2010</i></b>		

trucks only and the vehicles carrying the mineral shall not be overloaded.

Vehicular Exhaust Emission Measurement data of period Oct-20 to Mar-21 mention below table:


S. No.	Type of Machine	Tipper No.	PUC Limit	No. of Readings	Average PUC Limit as per test report	Date of Testing	Valid upto
1	Tipper	RJ-09GB-1726	< 65 %	3	25.30%	28.12.2020	27.06.2021
2	Tipper	RJ-09GC-0354	< 65 %	3	21.10%	28.12.2020	27.06.2021
3	Tipper	RJ-09GC-0615	< 65 %	3	23.00%	28.12.2020	27.06.2021
4	Tipper	RJ-09GC-0363	< 65 %	3	21.80%	28.12.2020	27.06.2021
5	Tipper	RJ-09GC-2126	< 65 %	3	22.50%	28.12.2020	27.06.2021
6	Tipper	RJ-09GC-2127	< 65 %	3	20.40%	28.12.2020	27.06.2021
7	Tipper	RJ-09GC-2130	< 65 %	3	22.00%	28.12.2020	27.06.2021
8	Tipper	RJ-09GC-2132	< 65 %	3	20.70%	28.12.2020	27.06.2021
9	Tipper	RJ-09GC-2134	< 65 %	3	20.40%	28.12.2020	27.06.2021
10	Tipper	RJ-09GC-2135	< 65 %	3	21.00%	28.12.2020	27.06.2021
11	Tipper	RJ-09GC-8246	< 65 %	3	19.00%	28.12.2020	27.06.2021
12	Tipper	RJ-09GC-8247	< 65 %	3	21.60%	28.12.2020	27.06.2021

Copy of PUC is enclosed as **Annexure-IV**.

PROPONENT	J.K. CEMENT WORKS, MANGROL (RAJ.)	Period from October 2020 to March 2021
PROJECT	Mangrol Lime Stone Mine (M.L. No. 26/08, Area 132 ha., Limestone 1.5 MMTPA, villages- Mangrol, Tehsil-Nimbahera, District-Chittorgarh, Rajasthan.	
Environment Clearance issued from MOEF, New Delhi vide Letter No. J-11015/427/2008-IA.II (M) dated 06.08.2010		

(xxi)	Controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.	<div>Complying with.</div> <div>Controlled blasting is being carried out by use of delay detonator, non-electric detonator</div> <div>Regular monitoring of ground vibration is being practiced. Rock breaker is used to eliminate secondary blasting.</div> <div>Vibration monitoring data of period Oct-20 to March-21 is mention below table:</div> <table><tr><th>Date of monitoring</th><th>Location of Blasting</th><th>Approx. Dist. Of Instrument (Minimate) from Blast</th><th>No. of Holes</th><th>Charge Per Delay Kgs.</th><th>Peak Vector Sum Mm/Sec</th><th>Accessories used in Blasting</th></tr><tr><td rowspan="2">03.10.2020</td><td>3rd Bench</td><td rowspan="2">300 Mtr. In the line of initiation of the blast</td><td rowspan="2">12</td><td rowspan="2">34.7</td><td rowspan="2">2.91</td><td rowspan="2">Nonels DTH &amp; TLD</td></tr><tr><td>BID(6-40)</td></tr><tr><td rowspan="2">18.10.2020</td><td>2<sup>nd</sup> Bench</td><td rowspan="2">300 Mtr. In the line of initiation of the blast</td><td rowspan="2">14</td><td rowspan="2">35.0</td><td rowspan="2">1.30</td><td rowspan="2">Nonels DTH &amp; TLD</td></tr><tr><td>BID(7-23)</td></tr><tr><td rowspan="2">23.10.2020</td><td>3rd Bench</td><td rowspan="2">300 Mtr. back Side from Face</td><td rowspan="2">9</td><td rowspan="2">33.3</td><td rowspan="2">3.02</td><td rowspan="2">Nonels DTH &amp; TLD</td></tr><tr><td>BID (6-44)</td></tr><tr><td rowspan="2">19.11.2020</td><td>2nd Bench</td><td rowspan="2">300 Mtr. back Side from Face</td><td rowspan="2">7</td><td rowspan="2">36.0</td><td rowspan="2">1.2</td><td rowspan="2">Nonels DTH &amp; TLD</td></tr><tr><td>BID(6-9)</td></tr><tr><td rowspan="2">19.11.2020</td><td>2<sup>nd</sup> Bench</td><td rowspan="2">300 Mtr. back Side from Face</td><td rowspan="2">11</td><td rowspan="2">35.4</td><td rowspan="2">1.65</td><td rowspan="2">Nonels DTH &amp; TLD</td></tr><tr><td>BID(7-34)</td></tr><tr><td rowspan="2">24.11.2020</td><td>3rd Bench</td><td rowspan="2">300 Mtr. From back side of the face</td><td rowspan="2">8</td><td rowspan="2">35.10</td><td rowspan="2">2.62</td><td rowspan="2">Nonels DTH &amp; TLD</td></tr><tr><td>BID(6-53)</td></tr><tr><td rowspan="2">01.12.2020</td><td>3rd Bench</td><td rowspan="2">300 Mtr. From back side of the face</td><td rowspan="2">13</td><td rowspan="2">37.0</td><td rowspan="2">1.3</td><td rowspan="2">Nonels DTH &amp; TLD</td></tr><tr><td>BID(7-39)</td></tr><tr><td rowspan="2">25.03.2021</td><td>3rd Bench</td><td rowspan="2">300 Mtr. In the line of initiation of the blast</td><td rowspan="2">29</td><td rowspan="2">32.0</td><td rowspan="2">2.43</td><td rowspan="2">With E-DET</td></tr><tr><td>BID(6-66)</td></tr><tr><td rowspan="2">26.03.2021</td><td>2nd Bench</td><td rowspan="2">300 Mtr. From back side of the face</td><td rowspan="2">25</td><td rowspan="2">31.0</td><td rowspan="2">1.48</td><td rowspan="2">With E-DET</td></tr><tr><td>BID (7-60)</td></tr></table> <div>Vibration monitoring report enclosed as <b>Annexure-V.</b></div>	Date of monitoring	Location of Blasting	Approx. Dist. Of Instrument (Minimate) from Blast	No. of Holes	Charge Per Delay Kgs.	Peak Vector Sum Mm/Sec	Accessories used in Blasting	03.10.2020	3rd Bench	300 Mtr. In the line of initiation of the blast	12	34.7	2.91	Nonels DTH & TLD	BID(6-40)	18.10.2020	2 <sup>nd</sup> Bench	300 Mtr. In the line of initiation of the blast	14	35.0	1.30	Nonels DTH & TLD	BID(7-23)	23.10.2020	3rd Bench	300 Mtr. back Side from Face	9	33.3	3.02	Nonels DTH & TLD	BID (6-44)	19.11.2020	2nd Bench	300 Mtr. back Side from Face	7	36.0	1.2	Nonels DTH & TLD	BID(6-9)	19.11.2020	2 <sup>nd</sup> Bench	300 Mtr. back Side from Face	11	35.4	1.65	Nonels DTH & TLD	BID(7-34)	24.11.2020	3rd Bench	300 Mtr. From back side of the face	8	35.10	2.62	Nonels DTH & TLD	BID(6-53)	01.12.2020	3rd Bench	300 Mtr. From back side of the face	13	37.0	1.3	Nonels DTH & TLD	BID(7-39)	25.03.2021	3rd Bench	300 Mtr. In the line of initiation of the blast	29	32.0	2.43	With E-DET	BID(6-66)	26.03.2021	2nd Bench	300 Mtr. From back side of the face	25	31.0	1.48	With E-DET	BID (7-60)
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(xxii)	The project proponent shall take all mitigative measures during the mining operation to ensure that the buildings/structures in the nearby areas shall not be affected due to blasting.	<div>Complying with.</div> <div>No secondary blasting is being done during the mining operation. Oversized boulders are broken by use of Hydraulic Rock breaker.</div>																																																																															

PROPONENT	J.K. CEMENT WORKS, MANGROL (RAJ.)	Period from October 2020 to March 2021
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Environment Clearance issued from MOEF, New Delhi vide Letter No. J-11015/427/2008-IA.II (M) dated 06.08.2010		

(xxiii)	Drills shall either be operated with dust extractors or equipped with water injection system.	Complying with. Water injection system on wagon drill is provided to suppress dust at its source of generation and only wet drilling is permitted as committed in Environment management plan of approved mining plan.
(xxiv)	Mineral handling area shall be provided with the adequate number of high efficiency dust extraction system. Loading and unloading areas including all the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated.	Complied with. Regular water spraying arrangement on haul roads and on blast material before loading is practices to control of fugitive emission.
(xxv)	Sewage treatment plant shall be installed for the colony. ETP shall also be provided for the workshop and waste water generated during the mining operation.	<p>Efficient Sewage treatment Plant is already installed in the colony. No industrial waste water is generating during mine operation and workshop waste water collected in pit and use in dust suppression.</p> <p style="text-align: center;"><b>STP Photograph</b></p> 



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		Treated waste water monitoring report of workshop analysis by NABL accredited lab enclosed as <b>Annexure-VI.</b>										
(xxvi)	Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly.	<div>Complying with.</div> <div>Pre placement Initial medical examination of the workers engaged is carried out regularly and record is maintained. Schedule of health examination will be drawn in such a manner that every workman will be examined once in five years. Medical examination detail of period oct-20 to mar-21 is mention below table :</div> <table><tr><th>Particular</th><th>Medical Exam. Carried out (in Nos.)</th></tr><tr><td>No. of persons examined</td><td>13</td></tr><tr><td>Initial Medical Examination</td><td>12</td></tr><tr><td>Periodical Medical Examination</td><td>1</td></tr><tr><td>Disease observed</td><td>NA</td></tr></table>	Particular	Medical Exam. Carried out (in Nos.)	No. of persons examined	13	Initial Medical Examination	12	Periodical Medical Examination	1	Disease observed	NA
Particular	Medical Exam. Carried out (in Nos.)											
No. of persons examined	13											
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(xxvii)	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.	No construction labour is being engaged.										
(xxviii)	The critical parameters such as RSPM (Particulate matter with size less than 10 micron i.e. PM10) and NOx in the ambient air within the impact zone, peak particle velocity at 300m distance or within the nearest habitation, whichever is closer shall be monitored periodically. Further, quality of discharged water shall also be monitored [(TDS, DO, PH and Total Suspended Solids (TSS)]. The monitored data shall be uploaded on the website of the company as well as displayed on the display board at the project site at a suitable location near the main gate of the	<div>Complying with.</div> <div>These critical parameters are being measured periodically during ambient air monitoring. For reports please refer <b>Annexure-I.</b></div> <div>No waste water is generating during mining operation.</div> <div>Mines key parameter (monitored data) are being uploaded at company website on every quarter as per said notification, which can be seen at <a href="http://www.jkcement.com/environmental-compliance">www.jkcement.com/environmental-compliance</a>.</div>										

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	Company in public domain. The Circular No. J-20012/1/2006-IA.II(M) dated 27.05.2009 issued by Ministry of Environment and Forests, which is available on the website of the Ministry www.envfor.nic.in shall also be referred in this regard for its compliance.	
(xxix)	A Final Mine Closure Plan along with details of Corpus Fund should be submitted to the Ministry of Environment and Forests 5 years in advance of final mine closure for approval.	Progressive Mine closure plan is prepared along with approved Mining plan. There is no plan of final Mine closure in First five year of Mining Plan.
<b>( B )GENERAL CONDITIONS</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.	Noted. Mining is being done in accordance with Approved Review of Mining Plan.
(ii)	No change in the calendar plan including excavation, quantum of mineral limestone and waste should be made.	Noted. Mining is being done in accordance with Approved Review of Mining Plan.
(iii)	Conservation measures for protection of flora and fauna in the core and buffer zone should be drawn up in consultation with the local forest and wildlife department and effectively implemented.	Complying with. The Wildlife conservation plan has been prepared for six nos. of the following Schedule-I species found in the buffer area during the survey: - (a.) <i>Pavocristatus</i> (Indian Peafowl), (b.) <i>Pantherapadusfusca</i> (Indian Leopard), (c.) <i>Prionailurusrubiginosus</i> (Rusty-Spotted Cat), (d.) <i>Canis lupus pallipes</i> (Indian Wolf), (e.) <i>Varanusbengalensis</i> (Indian Monitor Lizard) & (f.) <i>Gyps indicus/Gyps bengalensis</i> (Indian Vulture)  Combined Wildlife Conservation Plan has been approved by the Principal Conservator of Forest, Udaipur and recommendations forwarded to Additional Chief Conservator of Forest Jaipur for formal sanction vide letter no. F 5() forest conservation/ Principal conservator of Forest/2020-21/ 5002 dated 24.09.2020 and same proposal has been forwarded to APCCF,

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		Jaipur on 15.10.2020 by DYCF, Jaipur. After approval of APCCF conservation plan will be implemented.
(iv)	Four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for RSPM (Particulate matter with size less than 10 micron i.e., PM10) and NOx monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board.	Complied with. Ambient Air Quality Monitoring stations has been established in consultation with the State Pollution Control Board vide letter no. MGR/PC/28/1600 on dated 4/10/2013. Periodical Monitoring in the core zone as well as in the buffer zone is already being done. However ambient air quality is carried out by NABL accredited Laboratory report please refer <b>Annexure-I</b> .
(v)	Data on ambient air quality RSPM (Particulate matter with size less than 10 micron i.e., PM10) & NOx should be regularly submitted to the Ministry of Environment and Forests including its Regional Office located at Lucknow and the State Pollution Control Board/Central Pollution Control Board once in six months.	Complying with. Monitoring data is regularly submitting to the concerned offices. Latest compliance report was submitted to Ministry of Environment and Forests including its Regional Office located at Lucknow and the State Pollution Control Board/Central Pollution Control Board vide letter no. MGR/PC-14/C12/,Dated 26.11.2020.
(vi)	Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.	<p>Complying with. Water spraying arrangement on haul roads, loading and unloading points has been provided &amp; Dense green belt developed in and around mine lease area to control fugitive dust emission.</p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <p><b>Water spray on haul road</b></p> <p><b>Dense green belt</b></p> </div>



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		Fugitive emission monitoring report enclosed as <b>Annexure-VII.</b>																																							
(vii)	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.	<p>Complying with.</p> <p>Regular maintenance (including cabin) of HEMM being done to keep noise level within the specified limits.</p> <p><b>Ambient Noise level monitoring data of period Oct-20 to Mar-21 mention below table:</b></p> <table><tr><th rowspan="2">Month</th><th colspan="2">Towards Factory Gate</th><th colspan="2">Near Ravana Office</th></tr><tr><th>Day</th><th>Night</th><th>Day</th><th>Night</th></tr><tr><td><b>Oct-20</b></td><td>57.2</td><td>51.0</td><td>66.0</td><td>59.1</td></tr><tr><td><b>Nov-20</b></td><td>56.8</td><td>52.3</td><td>67.1</td><td>60.3</td></tr><tr><td><b>Dec-20</b></td><td>57.9</td><td>53.1</td><td>68.6</td><td>60.8</td></tr><tr><td><b>Jan-21</b></td><td>60.4</td><td>54.7</td><td>66.7</td><td>59.8</td></tr><tr><td><b>Feb-21</b></td><td>59.6</td><td>56.6</td><td>63.3</td><td>57.3</td></tr><tr><td><b>Mar-21</b></td><td>55.2</td><td>50.3</td><td>62.6</td><td>54.5</td></tr></table> <p>Workers engaged in operation of HEMM etc. are provided with ear plugs.</p> <p>Noise level monitoring report of ambient &amp; work zone enclosed as <b>Annexure-VII.</b></p>	Month	Towards Factory Gate		Near Ravana Office		Day	Night	Day	Night	<b>Oct-20</b>	57.2	51.0	66.0	59.1	<b>Nov-20</b>	56.8	52.3	67.1	60.3	<b>Dec-20</b>	57.9	53.1	68.6	60.8	<b>Jan-21</b>	60.4	54.7	66.7	59.8	<b>Feb-21</b>	59.6	56.6	63.3	57.3	<b>Mar-21</b>	55.2	50.3	62.6	54.5
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(viii)	Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluents.	<p>Complied with.</p> <p>No industrial waste water is generating during mine operation and workshop waste water collected in pit and use in dust suppression. Trapped oil and grease has safely disposed by co-processing in own cement kiln.</p>																																							
(ix)	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.	<p>Agreed, Protective respiratory devices are provided to every personal working in dusty area</p> <p>Training and information on safety and health aspects is imparted. Occupational health surveillance program of the workers is being undertaken periodically.</p> <p>Environment awareness program have conducted time to time in plant, mines&amp; near villages</p>																																							

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Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.

Health, Safety, Environment related awareness display, displayed at mine, plant & near villages.



Environment slogan displayed in mine area



Safety slogan displayed in mine area





Environment Awareness Rally by J.K.ITI Employee



Environment Pledge by Workmen & Employee



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		<p><b>Environment Awareness Book Redemption in Govt. school Mangrol &amp; Arniya Joshi</b></p>   <p><b>Cloth bags distribution (Say NO Plastic Bag) River Cleaning during Swachh Bharat Abhiyan</b></p>																		
(x)	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.	Agreed, We have already well equipped Environment Laboratory with suitable qualified personnel.																		
(xi)	The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry of Environment and Forests and its Regional Office located at Lucknow.	<p>Complying with.</p> <p>A separate fund is kept for environment protection measures and report is being sent regularly to the concerned authority.</p> <p>For environment protection measures expenditure made during FY 2020-21 was 84.559 lacs. Details are mention table:</p> <table border="1"> <thead> <tr> <th>S. No.</th><th>Activity</th><th>Recurring Cost per Annum (Rs. In lacs)</th></tr> </thead> <tbody> <tr> <td>1.</td><td>Pollution control expenses (Others)</td><td>0.83</td></tr> <tr> <td>2.</td><td>Pollution control expenses (Statutory water charges )</td><td>2.069</td></tr> <tr> <td>3.</td><td>Gardening Expenses</td><td>14.2</td></tr> <tr> <td>4.</td><td>CSR Expenses</td><td>67.46</td></tr> <tr> <td colspan="2"><b>Total (Rs.)</b></td><td><b>84.559</b></td></tr> </tbody> </table>	S. No.	Activity	Recurring Cost per Annum (Rs. In lacs)	1.	Pollution control expenses (Others)	0.83	2.	Pollution control expenses (Statutory water charges )	2.069	3.	Gardening Expenses	14.2	4.	CSR Expenses	67.46	<b>Total (Rs.)</b>		<b>84.559</b>
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(xii)	The project authorities should be inform to the Regional Office located at Lucknow regarding data of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	Noted
(xiii)	The Regional Office of this Ministry located at Lucknow shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data/information/monitoring reports.	Noted and will extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data/information/monitoring reports.
(xiv)	The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the Ministry of Environment and Forests, its Regional Office located at Lucknow, the respective Zonal Office of Central Pollution Control Board the State Pollution Control Board. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional office of the Ministry of Environment and Forests, Lucknow, the respective Zonal Office of Central Pollution Control Board and the State Pollution Control Board.	Complying with.  Six monthly reports is being submitted to all concern offices as given in EC letter. Latest Six Monthly Monitoring report sent to RO & HO, MoEF&CC Lucknow, CPCB/ RPCB on MGR/PC-14/C12/,Dated 26.11.2020.& uploaded at company website which can be assess by following link. <a href="https://www.jkcement.com/environmental-compliance">https://www.jkcement.com/environmental-compliance</a>
(xv)	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, ZilaParisad, Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	Complied.

PROPONENT	J.K. CEMENT WORKS, MANGROL (RAJ.)	Period from October 2020 to March 2021
PROJECT	Mangrol Lime Stone Mine (M.L. No. 26/08, Area 132 ha., Limestone 1.5 MMTPA, villages- Mangrol, Tehsil-Nimbahera, District-Chittorgarh, Rajasthan.	
Environment Clearance issued from MOEF, New Delhi vide Letter No. J-11015/427/2008-IA.II (M) dated 06.08.2010		

(xvi)	The State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industry Centre and the Collector's Office/Tehsildar's Office for 30 days.	Complied.
(xvii)	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the Regional Office of the Ministry of Environment and Forests, Lucknow by e-mail.	Complying with, The Environment statement report of FY 2019-20 has submitted vide letter no. MGR-PC-ESR-21/272, Date: 15.09.2020.
(xviii)	The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at website of the Ministry of Environment and Forests at <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.	Implemented and the necessary information already sent to the concerned authority.



# Mitra S.K. Private Limited

Shrachi Center (5th Floor)  
74B, Acharya Jagadish Chandra Bose Road  
Kolkata – 700 016, West Bengal India  
CIN: U51909WB1956PTC023037

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F: 91 33 22650008  
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W: www.mitrask.com

## ANNEXURE-I



TESTING • INSPECTION

### TEST REPORT

Name & Address of the Customer :

J.K. Cement Works, Mangrol  
Distt. Chittorgarh ( Raj.)

Report No. : MSK/UDR/2020-21/1711

Date : 07.01.2021

Sample No. : MSKGL/ED/2020-21/12/01641

Sample Description : Ambient Air

Sampling Location : Towards Factory Gate ( Mangrol  
Limestone Mine)

Date of Sampling : 11/12.12.2020

Reference No.& Date : e-mail dtd:23.04.2019

### ANALYSIS RESULT

SL. NO.	Pollutants	Limit	Result	Method of Test Reference
1	Particulate matter (PM <sub>10</sub> ) in µg/m <sup>3</sup>	100	80	IS: 5182:(Part-23)-2006
2	Particulate matter( PM <sub>2.5</sub> ) in µg/m <sup>3</sup>	60	46	TPM/MSK/ENV (AP) /01/03
3	Sulphur dioxide( SO <sub>2</sub> ) in µg/m <sup>3</sup>	80	8.8	IS: 5182 (Part-2)-2001
4	Nitrogen dioxide (NO <sub>2</sub> ) in µg/m <sup>3</sup>	80	24.9	IS: 5182 (Part- 6)-2006
5	Carbon monoxide(CO) in mg/m <sup>3</sup>	2	0.65	IS 5182 :(Part-10) :1999

Note : Limit as per CPCB notification, New Delhi, 18th November 2009, For Ambient air Quality

Report Prepared By

For Mitra S.K. Pvt. Ltd.  
Authorized Signatory



# Mitra S.K. Private Limited

Shrachi Center (5th Floor)  
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## TEST REPORT

Name & Address of the Customer :

J.K. Cement Works, Mangrol  
Distt. Chittorgarh ( Raj.)

Report No. : MSK/UDR/2020-21/1712

Date : 07.01.2021

Sample No. : MSKGL/ED/2020-21/12/01642

Sample Description : Ambient Air

Sampling Location : Near Ravana Office ( Mangrol  
Limestone Mine)

Date of Sampling : 11/12.12.2020

Reference No.& Date : e-mail dtd:23.04.2019

## ANALYSIS RESULT

SL. NO.	Pollutants	Limit	Result	Method of Test Reference
1	Particulate matter (PM <sub>10</sub> ) in $\mu\text{g}/\text{m}^3$	100	76	IS: 5182:(Part-23)-2006
2	Particulate matter( PM <sub>2.5</sub> ) in $\mu\text{g}/\text{m}^3$	60	51	TPM/MSK/ENV (AP) /01/03
3	Sulphur dioxide( SO <sub>2</sub> ) in $\mu\text{g}/\text{m}^3$	80	10.1	IS: 5182 (Part-2)-2001
4	Nitrogen dioxide (NO <sub>2</sub> ) in $\mu\text{g}/\text{m}^3$	80	28.4	IS: 5182 (Part- 6)-2006
5	Carbon monoxide(CO) in $\text{mg}/\text{m}^3$	2	0.78	IS 5182 :(Part-10) :1999

Note : Limit as per CPCB notification, New Delhi, 18th November 2009, For Ambient air Quality

Report Prepared By

For Mitra S.K. Pvt. Ltd.  
Authorized Signatory

# Mitra S.K. Private Limited

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## TEST REPORT

Name & Address of the Customer :

J.K. Cement Works, Mangrol  
Distt. Chittorgarh ( Raj.)

Report No. : MSK/UDR/2020-21/1713

Date : 07.01.2021

Sample No. : MSKGL/ED/2020-21/12/01643

Sample Description : Ambient Air

Sampling Location : Tie Village ( Mangrol Limestone Mine)

Date of Sampling : 11/12.12.2020

Reference No.& Date : e-mail dtd:23.04.2019

## ANALYSIS RESULT

SL. NO.	Pollutants	Limit	Result	Method of Test Reference
1	Particulate matter (PM <sub>10</sub> ) in $\mu\text{g}/\text{m}^3$	100	75	IS: 5182:(Part-23)-2006
2	Particulate matter( PM <sub>2.5</sub> ) in $\mu\text{g}/\text{m}^3$	60	50	TPM/MSK/ENV (AP) /01/03
3	Sulphur dioxide( SO <sub>2</sub> ) in $\mu\text{g}/\text{m}^3$	80	9.9	IS: 5182 (Part-2)-2001
4	Nitrogen dioxide (NO <sub>2</sub> ) in $\mu\text{g}/\text{m}^3$	80	29.4	IS: 5182 (Part- 6)-2006
5	Carbon monoxide(CO) in $\text{mg}/\text{m}^3$	2	0.76	IS 5182 :(Part-10) :1999

Note : Limit as per CPCB notification, New Delhi, 18th November 2009, For Ambient air Quality

Report Prepared By

For Mitra S.K. Pvt. Ltd.

Authorized Signatory

# Mitra S.K. Private Limited

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## TEST REPORT

Name & Address of the Customer :

J.K. Cement Works, Mangrol  
Distt. Chittorgarh ( Raj.)

Report No. : MSK/UDR/2020-21/1714

Date : 07.01.2021

Sample No. : MSKGL/ED/2020-21/12/01644

Sample Description : Ambient Air

Sampling Location : Mangrol Village ( Mangrol Limestone Mine)

Date of Sampling : 11/12.12.2020

Reference No.& Date : e-mail dtd:23.04.2019

## ANALYSIS RESULT

SL. NO.	Pollutants	Limit	Result	Method of Test Reference
1	Particulate matter (PM <sub>10</sub> ) in $\mu\text{g}/\text{m}^3$	100	82	IS: 5182:(Part-23)-2006
2	Particulate matter( PM <sub>2.5</sub> ) in $\mu\text{g}/\text{m}^3$	60	46	TPM/MSK/ENV (AP)-/01/03
3	Sulphur dioxide( SO <sub>2</sub> ) in $\mu\text{g}/\text{m}^3$	80	9.1	IS: 5182 (Part-2)-2001
4	Nitrogen dioxide (NO <sub>2</sub> ) in $\mu\text{g}/\text{m}^3$	80	28.4	IS: 5182 (Part- 6)-2006
5	Carbon monoxide(CO) in $\text{mg}/\text{m}^3$	2	0.66	IS 5182 :(Part-10) :1999

Note : Limit as per CPCB notification, New Delhi, 18th November 2009, For Ambient air Quality

Report Prepared By

For Mitra S.K. Pvt. Ltd.

Authorized Signatory



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## TEST REPORT

Name & Address of the Customer :

J.K. Cement Works, Mangrol  
Distt. Chittorgarh ( Raj.)

Report No. : MSK/UDR/2020-21/2137

Date : 19.03.2021

Sample No. : MSKGL/ED/2020-21/03/00131

Sample Description : Ambient Air

Sampling Location : Towards Factory Gate, Mangrol Mine

Date of Sampling : 11/12.02.2021

Reference No.& Date : e-mail dtd: 07.06.2018

## AMBIENT AIR QUALITY MONITORING REPORT

SL. NO.	Pollutants	Limit	Result	Method of Test Reference
1	Particulate matter (PM <sub>10</sub> ) in $\mu\text{g}/\text{m}^3$	100	69.1	IS: 5182:(Part-23)-2006
2	Particulate matter( PM <sub>2.5</sub> ) in $\mu\text{g}/\text{m}^3$	60	40.7	TPM/MSK/ENV(AP)/01/03
3	Sulphur dioxide( SO <sub>2</sub> ) in $\mu\text{g}/\text{m}^3$	80	6.7	IS: 5182 (Part-2)-2001
4	Nitrogen dioxide (NO <sub>2</sub> ) in $\mu\text{g}/\text{m}^3$	80	31.0	IS: 5182 (Part- 6)-2006
5	Carbon monoxide(CO) in $\text{mg}/\text{m}^3$	2	0.65	IS 5182 :(Part-10) :1999
6	Ozone (O <sub>3</sub> ) in $\mu\text{g}/\text{m}^3$	180	<20.0	TPM/MSK/ENV(AP)/01/07
7	Ammonia (NH <sub>3</sub> ) in $\mu\text{g}/\text{m}^3$	400	14.0	TPM/MSK/ENV(AP)/01/08
8	Lead (Pb) in $\mu\text{g}/\text{m}^3$	1	<0.01	EPA-IO 3.4
9	Nickel (Ni) in $\text{ng}/\text{m}^3$	20	<5.0	EPA-IO 3.4
10	Arsenic (As) in $\text{ng}/\text{m}^3$	6	<1.0	EPA-IO 3.4
11	Benzene (C <sub>6</sub> H <sub>6</sub> ) in $\mu\text{g}/\text{m}^3$	5	<4.2	IS 5182 : Part. 11 : 2006
12	Benzo(a) pyrene (BaP) in $\text{ng}/\text{m}^3$	1	<0.5	IS 5182 : Part. 12 : 2004

Note : Limit as per CPCB notification, New Delhi, 18th November 2009, For Ambient air Quality

Report Prepared By:

For Mitra S. K. Pvt. Ltd.  
Authorized Signatory

# Mitra S.K. Private Limited

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## TEST REPORT

Name & Address of the Customer :

J.K. Cement Works, Mangrol  
Distt. Chittorgarh ( Raj.)

Report No. : MSK/UDR/2020-21/2138

Date : 19.03.2021

Sample No. : MSKGL/ED/2020-21/03/00132

Sample Description : Ambient Air

Sampling Location : Near Ravana Office, Mangrol Mine

Date of Sampling : 11/12.02.2021

Reference No.& Date : e-mail dtd: 07.06.2018

## AMBIENT AIR QUALITY MONITORING REPORT

SL. NO.	Pollutants	Limit	Result	Method of Test Reference
1	Particulate matter (PM <sub>10</sub> ) in $\mu\text{g}/\text{m}^3$	100	73.4	IS: 5182:(Part-23)-2006
2	Particulate matter( PM <sub>2.5</sub> ) in $\mu\text{g}/\text{m}^3$	60	42.1	TPM/MSK/ENV(AP)/01/03
3	Sulphur dioxide( SO <sub>2</sub> ) in $\mu\text{g}/\text{m}^3$	80	6.4	IS: 5182 (Part-2)-2001
4	Nitrogen dioxide (NO <sub>2</sub> ) in $\mu\text{g}/\text{m}^3$	80	25.0	IS: 5182 (Part- 6)-2006
5	Carbon monoxide(CO) in $\text{mg}/\text{m}^3$	2	0.71	IS 5182 :(Part-10) :1999
6	Ozone (O <sub>3</sub> ) in $\mu\text{g}/\text{m}^3$	180	<20.0	TPM/MSK/ENV(AP)/01/07
7	Ammonia (NH <sub>3</sub> ) in $\mu\text{g}/\text{m}^3$	400	11.0	TPM/MSK/ENV(AP)/01/08
8	Lead (Pb) in $\mu\text{g}/\text{m}^3$	1	<0.01	EPA-IO 3.4
9	Nickel (Ni) in $\text{ng}/\text{m}^3$	20	<5.0	EPA-IO 3.4
10	Arsenic (As) in $\text{ng}/\text{m}^3$	6	<1.0	EPA-IO 3.4
11	Benzene (C <sub>6</sub> H <sub>6</sub> ) in $\mu\text{g}/\text{m}^3$	5	<4.2	IS 5182 : Part. 11 : 2006
12	Benzo(a) pyrene (BaP) in $\text{ng}/\text{m}^3$	1	<0.5	IS 5182 : Part. 12 : 2004

Note : Limit as per CPCB notification, New Delhi, 18th November 2009, For Ambient air Quality

Report Prepared By:

For Mitra S. K. Pvt. Ltd.  
Authorized Signatory



# Mitra S.K. Private Limited

Shrachi Center (5th Floor)  
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## TEST REPORT

Name & Address of the Customer :

J.K. Cement Works, Mangrol  
Distt. Chittorgarh ( Raj.)

Report No. : MSK/UDR/2020-21/2139

Date : 19.03.2021

Sample No. : MSKGL/ED/2020-21/03/00133

Sample Description : Ambient Air

Sampling Location : Tie Village, Mangrol Mine

Date of Sampling : 11/12.02.2021

Reference No.& Date : e-mail dtd: 07.06.2018

## AMBIENT AIR QUALITY MONITORING REPORT

SL. NO.	Pollutants	Limit	Result	Method of Test Reference
1	Particulate matter (PM <sub>10</sub> ) in µg/m <sup>3</sup>	100	65.6	IS: 5182:(Part-23)-2006
2	Particulate matter( PM <sub>2.5</sub> ) in µg/m <sup>3</sup>	60	38.9	TPM/MSK/ENV(AP)/01/03
3	Sulphur dioxide( SO <sub>2</sub> ) in µg/m <sup>3</sup>	80	7.7	IS: 5182 (Part-2)-2001
4	Nitrogen dioxide (NO <sub>2</sub> ) in µg/m <sup>3</sup>	80	39.0	IS: 5182 (Part- 6)-2006
5	Carbon monoxide(CO) in mg/m <sup>3</sup>	2	0.43	IS 5182 :(Part-10) :1999
6	Ozone (O <sub>3</sub> ) in µg/m <sup>3</sup>	180	<20.0	TPM/MSK/ENV(AP)/01/07
7	Ammonia (NH <sub>3</sub> ) in µg/m <sup>3</sup>	400	15.0	TPM/MSK/ENV(AP)/01/08
8	Lead (Pb) in µg/m <sup>3</sup>	1	<0.01	EPA-IO 3.4
9	Nickel (Ni) in ng/m <sup>3</sup>	20	<5.0	EPA-IO 3.4
10	Arsenic (As) in ng/m <sup>3</sup>	6	<1.0	EPA-IO 3.4
11	Benzene (C <sub>6</sub> H <sub>6</sub> ) in µg/m <sup>3</sup>	5	<4.2	IS 5182 : Part. 11 : 2006
12	Benzo(a) pyrene (BaP) in ng/m <sup>3</sup>	1	<0.5	IS 5182 : Part. 12 : 2004

Note : Limit as per CPCB notification, New Delhi, 18th November 2009, For Ambient air Quality

Report Prepared By:

For Mitra S. K. Pvt. Ltd.

Authorized Signatory



# Mitra S.K. Private Limited

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W: www.mitrask.com

## TEST REPORT

Name & Address of the Customer :

J.K. Cement Works, Mangrol  
Distt. Chittorgarh ( Raj.)

Report No. : MSK/UDR/2020-21/2140

Date : 19.03.2021

Sample No. : MSKGL/ED/2020-21/03/00134

Sample Description : Ambient Air

Sampling Location : Mangrol Village, Mangrol Mine

Date of Sampling : 11/12.02.2021

Reference No.& Date : e-mail dtd: 07.06.2018

## AMBIENT AIR QUALITY MONITORING REPORT

SL. NO.	Pollutants	Limit	Result	Method of Test Reference
1	Particulate matter (PM <sub>10</sub> ) in $\mu\text{g}/\text{m}^3$	100	69.3	IS: 5182:(Part-23)-2006
2	Particulate matter( PM <sub>2.5</sub> ) in $\mu\text{g}/\text{m}^3$	60	40.0	TPM/MSK/ENV(AP)/01/03
3	Sulphur dioxide( SO <sub>2</sub> ) in $\mu\text{g}/\text{m}^3$	80	7.9	IS: 5182 (Part-2)-2001
4	Nitrogen dioxide (NO <sub>2</sub> ) in $\mu\text{g}/\text{m}^3$	80	22.0	IS: 5182 (Part- 6)-2006
5	Carbon monoxide(CO) in $\text{mg}/\text{m}^3$	2	0.39	IS 5182 :(Part-10) :1999
6	Ozone (O <sub>3</sub> ) in $\mu\text{g}/\text{m}^3$	180	<20.0	TPM/MSK/ENV(AP)/01/07
7	Ammonia (NH <sub>3</sub> ) in $\mu\text{g}/\text{m}^3$	400	12.0	TPM/MSK/ENV(AP)/01/08
8	Lead (Pb) in $\mu\text{g}/\text{m}^3$	1	<0.01	EPA-IO 3.4
9	Nickel (Ni) in $\text{ng}/\text{m}^3$	20	<5.0	EPA-IO 3.4
10	Arsenic (As) in $\text{ng}/\text{m}^3$	6	<1.0	EPA-IO 3.4
11	Benzene (C <sub>6</sub> H <sub>6</sub> ) in $\mu\text{g}/\text{m}^3$	5	<4.2	IS 5182 : Part. 11 : 2006
12	Benzo(a) pyrene (BaP) in $\text{ng}/\text{m}^3$	1	<0.5	IS 5182 : Part. 12 : 2004

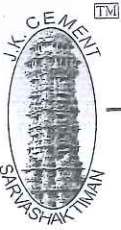
Note : Limit as per CPCB notification, New Delhi, 18th November 2009, For Ambient air Quality

Report Prepared By:

For Mitra S. K. Pvt. Ltd.



ANNEXURE-II



JK Cement LTD.

Phone : +91-1477-220098, 220087  
Fax : +91-1477-220027, 220049  
E-mail : jkc.mgrl@jkcement.com  
Web : www.jkcement.com

J.K. Cement Works, Mangrol  
C/o. Kailash Nagar-312617, Nimbahera  
Distt. Chittorgarh (Raj.) INDIA

CIN : L17229UP1994PLC017199

ISO 9001:2015 | ISO 14001:2015 | ISO 45001:2018 | ISO 50001:2018 CERTIFIED COMPANY  
MGR/PC/14/C12/ 659

Regd.AD.

Date: 08.02.2021

To,  
**The Additional Director**  
Indira Paryavaran Bhavan,  
JOR Bagh Road,  
Near JOR bagh Metro station  
New Delhi

**Subject: Compliance to Specific condition no. A (XVI) of Environmental Clearance.**

Dear Sir,

Kindly refer Environmental Clearance letter no. J – 110115 /427/2008-IA.II (M) dated. 06<sup>th</sup> August 2010 of our Mangrol Mine. We are enclosing herewith ground water level & water quality data of winter (January' 2021) in response to the Clearance specific Condition No. A (XVI) of above referred letter for your reference & record.

Thanking you,

Yours faithfully  
For J.K. Cement Works, Mangrol

Anil Kumar Jain  
Sr. General Manager- Environment

Encl: a/a

Copy to:

**The Director, Ministry of Environment and Forest,**  
Regional Office (Central Region),  
Kendriya Bhawan, 5<sup>th</sup> Floor, Sector 'H', ALIGANJ,  
LUCKNOW-226020 (U.P.)

**The Member Secretary,**  
Central Ground Water Authority,  
Ministry of Water Resources (G.O.I.),  
16/11, Jam Nagar House, Mansingh Road  
NEW DELHI- 110011

**The Regional Director,**  
Central Ground Water Board (Western Region),  
Jhalana Dungri Institutional Area,  
Jaipur – 302004 (Rajasthan)

**Corporate & Registered Office :** Kamla Tower, Kanpur-208001, (U. P.) INDIA  
**Phone :** +91-512-2371478 to 81 **Fax :** 2399854 **E-mail :** ho.grey@jkcement.com

J. K. Cement Works, Nimbahera  
J. K. Cement Works Mangrol  
J. K. Cement Works, Gotan  
J. K. Cement Works, Jharli

J. K. Power, Bamania  
J. K. Cement Works, Muddapur  
J. K. White Cement Works, Gotan  
J. K. White, Katni





## JK Cement Works

Generated On 2021-02-06 17:49:48  
Period 2021-01-01 00:00:00 - 2021-01-31 17:41:00  
Stations Telemetry BW\_9 (Mangrol Mine Mine)

Generated By  
Station Type  
Parameters

Sunil Singh  
GROUND WATER  
Water Level

Telemetry BW\_9 (Mangrol Mine Mine) Water Level  
(m)(avg)

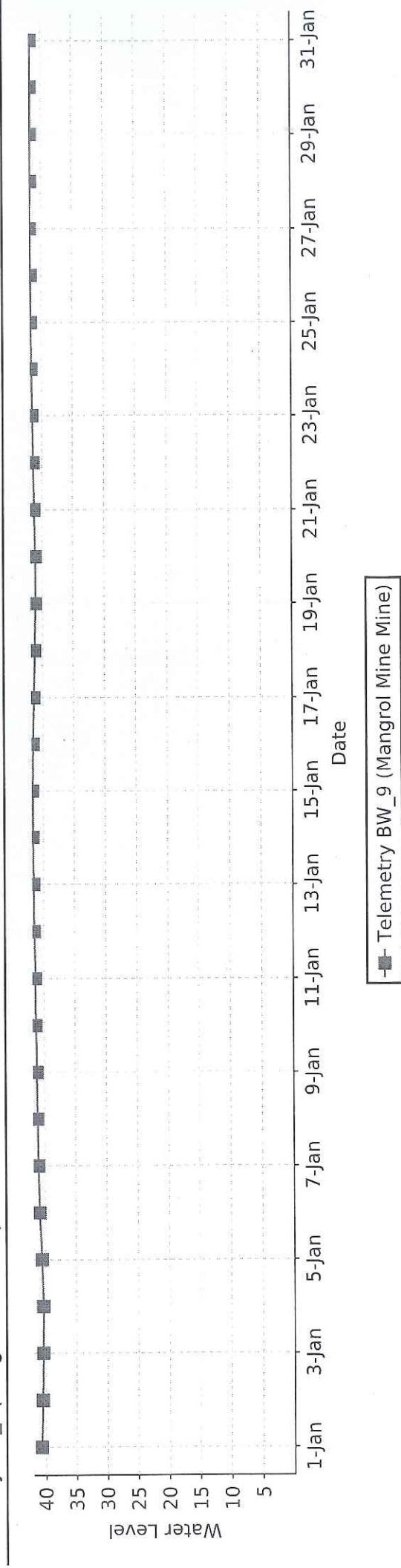
Time

S.No.

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2	2021-01-02 00:00:00:000	40.5
3	2021-01-03 00:00:00:000	40.43
4	2021-01-04 00:00:00:000	40.4
5	2021-01-05 00:00:00:000	40.57
6	2021-01-06 00:00:00:000	40.9
7	2021-01-07 00:00:00:000	41.07
8	2021-01-08 00:00:00:000	41.17
9	2021-01-09 00:00:00:000	41.24
10	2021-01-10 00:00:00:000	41.36
11	2021-01-11 00:00:00:000	41.43
12	2021-01-12 00:00:00:000	41.55
13	2021-01-13 00:00:00:000	41.64
14	2021-01-14 00:00:00:000	41.71
15	2021-01-15 00:00:00:000	41.71
16	2021-01-16 00:00:00:000	41.64
17	2021-01-17 00:00:00:000	41.44
18	2021-01-18 00:00:00:000	41.28
19	2021-01-19 00:00:00:000	41.15
20	2021-01-20 00:00:00:000	41.14
21	2021-01-21 00:00:00:000	41.29

S.No.	Telemetry BW_9 (Mangrol Mine Mine) Water Level (m)(avg)
22	41.43
23	41.55
24	41.67
25	41.72
26	41.72
27	41.82
28	41.79
29	41.74
30	41.74
31	41.77

Telemetry BW\_9 (Mangrol Mine Mine)-Water Level Chart



# Mitra S.K. Private Limited

Shrachi Center (5th Floor)  
74B, Acharya Jagadish Chandra Bose Road  
Kolkata - 700 016, West Bengal India  
CIN: U51909WB1958PTC023037



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F: 91 33 22650008  
E: info@mitrask.com  
W: www.mitrask.com

## TEST REPORT

Name & Address of the Customer :  
J.K. Cement Works, Mangrol  
C/o Kailash Nagar - 312617  
Mangrol Distt. Chittorgarh ( Raj.)

Reference No. & Date : e-mail dtd: 23.04.2019

Report No. : MSK/UDR/2020-21/1900

Date : 31.01.2021

Sample No. : MSKGL/ED/2020-21/01/00604

Sample Description : Ground Water from Tube well (in Plantation area)

Sample Mark : Mangrol Lime Stone Mine

Date of Sampling : 07.01.2021

### ANALYSIS RESULT OF WATER AS PER IS : 10500 - 2012

Sl No.	Parameter	Desirable Limit	Permissible Limit	Method	Result
1	pH at 25°C	6.5-8.5	No Relaxation	IS 3025 (Part 11)-1983; Rffm: 2012	7.87
2	Conductivity at 25°C in $\mu\text{mhos/cm}$	---	---	IS 3025 (Part 14)- 2013	534
3	Colour in Hazen	5	15	IS 3025 (Part 4)-1983; Rffm:2002	1.0
4	Odour	Agreeable	Agreeable	IS 3025 (Part 5)-1983 Rffm:2012	Agreeable
5	Turbidity in N.T.U	1	5	IS 3025 (Part 10)-1984 Rffm: 2012	1.0
6	Total Dissolved Solids in mg/l	500	2000	IS 3025 (Part 16)-1984; Rffm:2002	340
7	Total Suspended Solids in mg/l	---	---	IS 3025 (Part 24)-1986; Rffm:2009	<2.5
8	Total Hardness as $\text{CaCO}_3$ in mg/l	200	600	IS 3025 (Part 21)-2013	208
9	Calcium as Ca in mg/l	75	200	IS 3025 (Part 40)- 1991 Rffm: 2009	45
10	Magnesium as Mg in mg/l	30	100	IS 3025 (Part 46)-1994 Rffm: 2009	23
11	Total Alkalinity as $\text{CaCO}_3$ in mg/l	200	600	IS 3025 (Part 23)- 1986 Rffm: 2009	133
12	Chloride as Cl in mg/l	250	1000	IS 3025 (Part 32)-1988 Rffm: 2009	31
13	Oil & Grease in mg/l	---	---	IS 3025(Part 39)-Rffm 2009	1.1
14	Fluoride as F in mg/l	1.0	1.5	IS 3025 (Part 60)- 2008 Rffm: 2013	0.61
15	Iron as Fe in mg/l	0.3	No relaxation	IS 3025 (Part 53)-1988 Rffm: 2009	<0.05

Checked By:

For Mitra S. K. Pvt. Ltd.

Authorized Signatory



**ANNEXURE-III**

भारत सरकार  
जल शक्ति मंत्रालय  
जल संसाधन, नदी विकास  
और गंगा संरक्षण विभाग  
केन्द्रीय भूमि जल प्राधिकरण  
Government of India  
Ministry of Jal Shakti  
Department of Water Resources,  
River Development & Ganga Rejuvenation  
Central Ground Water Authority

(भूजल निकासी हेतु अनापत्ति प्रमाण पत्र)

**NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION**

Project Name:	M/s J. K. Cement Works		
Project Address:	M/s J. K. Cement Works		
Village:	Mangrol	Block:	Nimbahera
District:	Chittorgarh	State:	Rajasthan
Pin Code:			
Communication Address:	Mangrol Limestone Mine (ml No. 26/08), J. K. Cement Works, Mangrol, Village Mangrol, Nimbahera, Chittorgarh, Rajasthan - 312617		
Address of CGWB Regional Office :	Central Ground Water Board Western Region, 6-a, Jhalana Doongri, Jaipur, Rajasthan - 302004		

1. <b>NOC No.:</b>		CGWA/NOC/MIN/REN/2/2021/5960												
2. Application No.:		21-4/532/RJ/MIN/2012					3. Category: (GWRE 2017)		Over Exploited					
4. Project Status:		Existing Ground Water					5. NOC Type:		Renewal					
6. <b>Valid from:</b>		22/06/2018					7. <b>Valid up to:</b>		21/06/2020					
8. Ground Water Abstraction Permitted:														
Fresh Water			Saline Water			Dewatering			Total					
m³/day		m³/year		m³/day		m³/year		m³/day		m³/year				
81.00		26730.00												
9. Details of ground water abstraction /Dewatering structures														
<b>Total Existing No.:2</b>							<b>Total Proposed No.:0</b>							
			DW	DCB	BW	TW	MP	MPu	DW	DCB	BW	TW	MP	MPu
Abstraction Structure*			0	0	0	2	0	0	0	0	0	0	0	0
*DW- Dug Well; DCB-Dug-cum-Bore Well; BW-Bore Well; TW-Tube Well; MP-Mine Pit;MPu-Mine Pumps														
10. Ground Water Abstraction/Restoration Charges paid (Rs.):									106920.00					
11. Number of Piezometers(Observation wells) to be constructed/ monitored & Monitoring mechanism.							No. of Piezometers		Monitoring Mechanism					
									Manual	DWLR**	DWLR With Telemetry			
**DWLR - Digital Water Level Recorder							1		0	1	0			

(Compliance Conditions given overleaf)

This is an auto generated document &amp; need not to be signed.

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011

Phone: (011) 23383561 Fax: 23382051, 23386743

Website: cgwa-noc.gov.in

पानी बचाये - जीवन बचाये  
SAVE WATER - SAVE LIFE



**Validity of this NOC shall be subject to compliance of the following conditions:**

**Mandatory conditions:**

- 1) Installation of tamper proof digital water flow meter with telemetry on all the abstraction structure(s) shall be mandatory for all users seeking No Objection Certificate and intimation regarding their installation shall be communicated to the CGWA within 30 days of grant of No Objection Certificate.
- 2) Proponents shall mandatorily get water flow meter calibrated from an authorized agency once in a year.
- 3) Construction of purpose-built observation wells (piezometers) for ground water level monitoring shall be mandatory as per Section 14 of Guidelines. Water level data shall be made available to CGWA through web portal. Detailed guidelines for construction of piezometers are given in Annexure-II of the guidelines.
- 4) Proponents shall monitor quality of ground water from the abstraction structure(s) once in a year. Water samples from bore wells/ tube wells / dug wells shall be collected during April/May every year and analysed in NABL accredited laboratories for basic parameters (cations and anions), heavy metals, pesticides/ organic compounds etc. Water quality data shall be made available to CGWA through the web portal.
- 5) In case of mining projects, additional key wells shall be established in consultation with the Regional Director, CGWB for ground water level monitoring four (4) times a year (January, May, August and November) in core as well as buffer zones of the mine.
- 6) In case of mining project the firm shall submit water quality report of mine discharge/ seepage from Govt. approved/ NABL accredited lab.
- 7) The firm shall report compliance of the NOC conditions online in the website ([www.cgwa-noc.gov.in](http://www.cgwa-noc.gov.in)) within one year from the date of issue of this NOC.
- 8) Industries abstracting ground water in excess of 100 m<sup>3</sup>/d shall undertake annual water audit through certified auditors and submit audit reports within three months of completion of the same to CGWA. All such industries shall be required to reduce their ground water use by at least 20% over the next three years through appropriate means.
- 9) Application for renewal can be submitted online from 90 days before the expiry of NOC. Ground water withdrawal, if any, after expiry of NOC shall be illegal & liable for legal action as per provisions of Environment (Protection) Act, 1986.
- 10) This NOC is subject to prevailing Central/State Government rules/laws/norms or Court orders related to construction of tube well/ground water abstraction structure / recharge or conservation structure/discharge of effluents or any such matter as applicable.

**General conditions:**

- 11) No additional ground water abstraction and/or de-watering structures shall be constructed for this purpose without prior approval of the Central Ground Water Authority (CGWA).
- 12) The proponent shall seek prior permission from CGWA for any increase in quantum of groundwater abstraction (more than that permitted in NOC for specific period).
- 13) Proponents shall install roof top rain water harvesting in the premise as per the existing building bye laws in the premise.
- 14) The project proponent shall take all necessary measures to prevent contamination of ground water in the premises failing which the firm shall be responsible for any consequences arising thereupon.
- 15) In case of industries that are likely to contaminate the ground water, no recharge measures shall be taken up by the firm inside the plant premises. The runoff generated from the rooftop shall be stored and put to beneficial use by the firm.
- 16) Wherever feasible, requirement of water for greenbelt (horticulture) shall be met from recycled / treated waste water.
- 17) Wherever the NOC is for abstraction of saline water and the existing wells (s) is /are yielding fresh water, the same shall be sealed and new tubewell(s) tapping saline water zone shall be constructed within 3 months of the issuance of NOC. The firm shall also ensure safe disposal of saline residue, if any.
- 18) Unexpected variations in inflow of ground water into the mine pit, if any, shall be reported to the concerned Regional Director, Central Ground Water Board.
- 19) In case of violation of any NOC conditions, the applicant shall be liable to pay the penalties as per Section 16 of Guidelines.
- 20) This NOC does not absolve the proponents of their obligation / requirement to obtain other statutory and administrative clearances from appropriate authorities.
- 21) The issue of this NOC does not imply that other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would consider the project on merits and take decisions independently of the NOC.
- 22) In case of change of ownership, new owner of the industry will have to apply for incorporation of necessary changes in the No Objection Certificate with documentary proof within 60 days of taking over possession of the premises.
- 23) This NOC is being issued without any prejudice to the directions of the Hon'ble NGT/court orders in cases related to ground water or any other related matters.
- 24) Proponents, who have installed/constructed artificial recharge structures in compliance of the NOC granted to them previously and have availed rebate of upto 50% (fifty percent) in the ground water abstraction charges/ground water restoration charges, shall continue to regularly maintain artificial recharge structures.
- 25) Industries which are likely to cause ground water pollution e.g. Tanning, Slaughter Houses, Dye, Chemical/ Petrochemical, Coal washeries, pharmaceutical, other hazardous units etc. (as per CPCB list) need to undertake necessary well head protection measures to ensure prevention of ground water pollution as per Annexure III of the guidelines.
- 26) In case of new infrastructure projects having ground water abstraction of more than 20 m<sup>3</sup>/day, the firm/entity shall ensure implementation of dual water supply system in the projects.
- 27) In case of infrastructure projects, paved/parking area must be covered with interlocking/perforated tiles or other suitable measures to ensure groundwater infiltration/harvesting.
- 28) In case of coal and other base metal mining projects, the project proponent shall use the advance dewatering technology (by construction of series of dewatering abstraction structures) to avoid contamination of surface water.
- 29) The NOC issued is conditional subject to the conditions mentioned in the Public notice dated 27.01.2021 failing which penalty/EC/cancellation of NOC shall be imposed as the case may be.

**(Non-compliance of the conditions mentioned above is likely to result in the cancellation of NOC and legal action against the proponent.)**



**Ministry of Jal Shakti**  
**Department of Water Resources, River Development & Ganga Rejuvenation**  
**Central Ground Water Board, Western Region**  
**Central Ground Water Authority**  
**6-A, Jhalana Doongri, Jaipur-302004 (Rajasthan)**  
Email: [rdwr-cgwb@nic.in](mailto:rdwr-cgwb@nic.in), Phone:0141-2706338

File No. 21-4/532/RJ/MIN/2012-99

Dated: 20 MAY 2021

To  
M/s J.K. Cement Works  
Mangrol Limestone Mine (M.L. No.-26/08)  
Village –Mangrol, Nimbahera  
Chittorgarh, Rajasthan-312617

**Sub: -** Corrigendum in NOC for ground water withdrawal to **M/s J.K. Cement Works** in respect of their Mining project – **Mangrol Limestone Mine (M.L. No. 26/08)** located at **Village – Mangrol, Block – Nimbahera, Chittorgarh, Rajasthan- reg.**

Kindly refer to NOC for groundwater withdrawal issued vide NOC No. **CGWA/NOC/MIN/REN/1/2021/5960** dated **07.04.2021**. In the partial modification, the details of validity of NOC issued for groundwater abstraction mentioned in item no.6 & 7 may read as follows :

6.	Validity from:	07/04/2021	7.	Valid up to:	06/04/2023
----	----------------	------------	----	--------------	------------

All other terms and conditions mentioned in the NOC No. **CGWA/NOC/MIN/REN/1/2021/5960** dated **07.04.2021** shall remain unchanged. Ground Water Abstraction/ Restoration charges will be imposed w.e.f. 24.09.2020 as per CGWA guideline.

  
(Regional Director)

**Copy to:**

1. Central Ground Water Authority, 18/11, Jamnagar House, Mansingh Road, New Delhi-110011
2. Guard files, 2020-21.

(Regional Director)

Pucc No :	D47RJ21112633
Vehicle No :	RJ09GC2135
Customer Name :	J.K
Customer Mobile :	9672209600
Year of Regn :	01-01-2018
Type of Vehicle :	OTHERS
Make :	Ashok Leyland Ltd
Model :	3718IL
Test Date :	28-12-2020
Time :	02:35:22 PM
Valid UpTo :	27-06-2021
Center Name :	Veer Tejaji Mobile Puc Center
Center Address :	Khadakali,Gudhabhawadas,Nagaur
Licence No :	RJ21-48/47
Test Result :	Pass

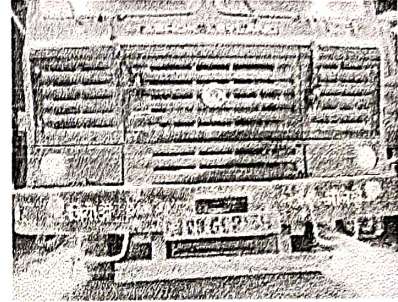
## Flushing Cycle

Avg	RPM Min	RPM Max	Temp
602		1919	0

Sr. No.	RPM Min	RPM Max	Km	HSU%	Temp
1	641	1834	0.548	21.0	000.0
2	641	1950	0.563	21.5	000.0
3	641	1951	0.531	20.4	000.0
Mean			0.547	21.0	

## VALID IN ALL INDIA

Photo of Vehicle



Prescribed Limit for Diesel vehicle	1/m(Light Absorption Co-efficient)	Hartridge Units (HSU)%
Free Acceleration BS II & III	2.45	65
Free Acceleration BS IV	1.62	50
Free Acceleration BS VI 4/3 wheelers	0.7 / 1.5	26 / 48

Validity Six Months for Bharat Stage III or below and one year for Bharat Stage IV/VI vehicles.

Certificate price: ₹ 100

Get Certificate renewed within the expiry date.

Seal of Testing Station	Testing Station Code	Authorised Signatory
	D47RJ21	

CERTIFICATE IS ONLY VALID IF SMS RECEIVED FROM REILATransport DEPT. KINDLY DESTROY THE INVALID CERTIFICATE.

Transport Dept. Govt. of Rajasthan

Transport Dept. Govt. of Rajasthan



Veh Reg No : RJ09GC2135  
PUC No. : D47RJ21112633  
Valid up to : **27-06-2021**  
Scan QR Code to Validate



Veh Reg No : RJ09GC2135  
PUC No. : D47RJ21112633  
Valid up to : **27-06-2021**  
Scan QR Code to Validate



## SuperGraphics - Report

Telephone: (205)592-2488 x 23

Company: J K Cement Works

Location: Bench II S(S-N) Bid 7-35/20

Operator: R K Ravi

Notes: 07 Hole blasted with DTH and TLD. Vibration monitored in the line of initiation of the blast.

11/19/2020 at 13:11:54 Event # 78

Graph: 13726

Last Calibration: 26Nov19

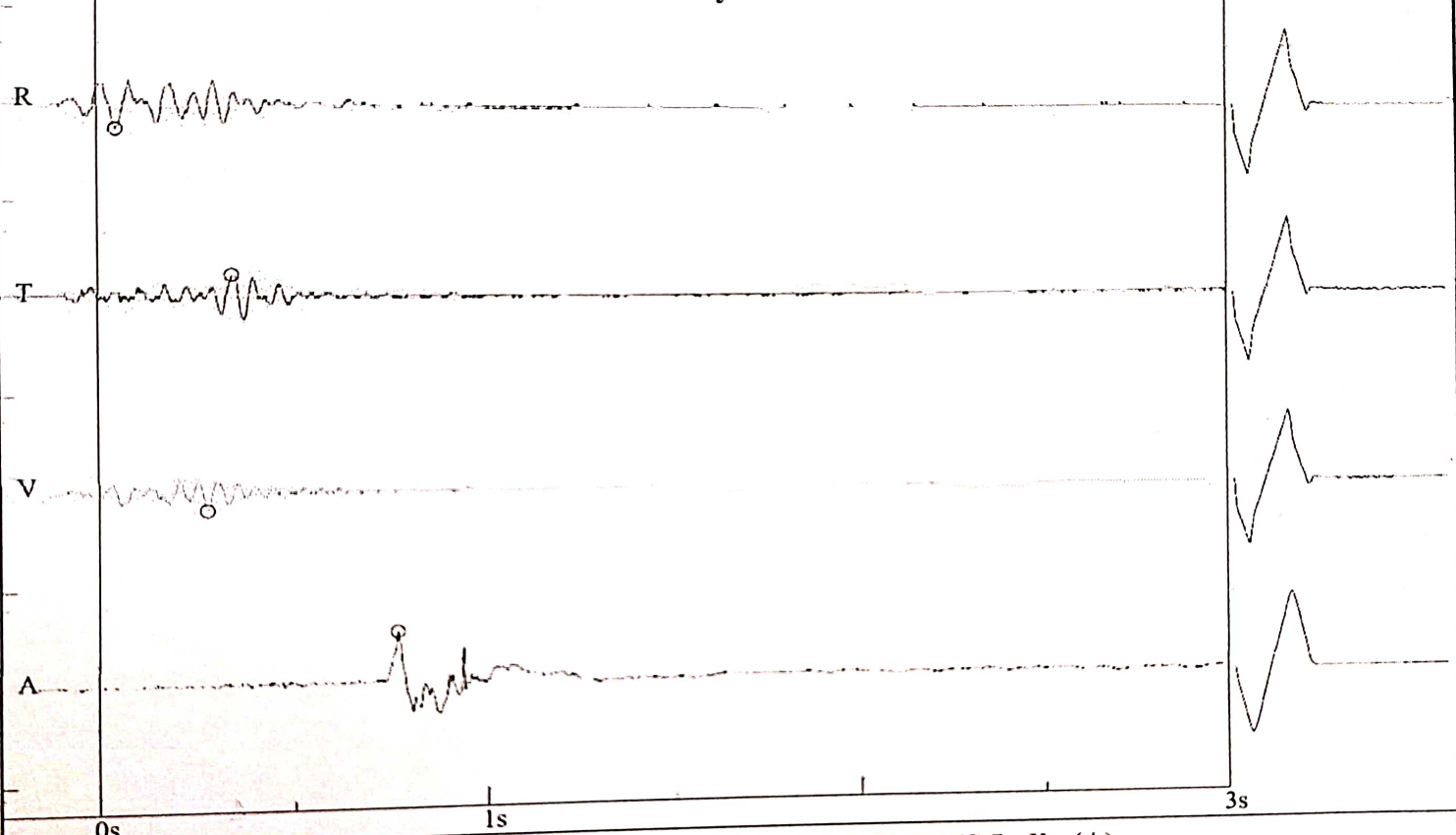
Record Duration: 3 sec

Sample Rate: 1024/sec

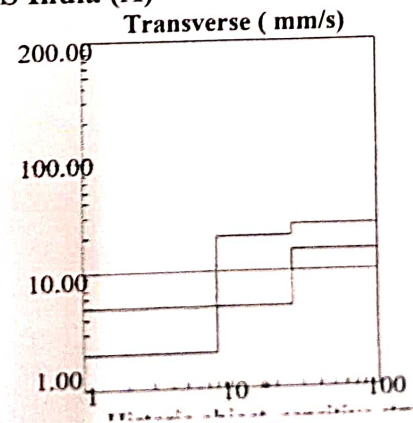
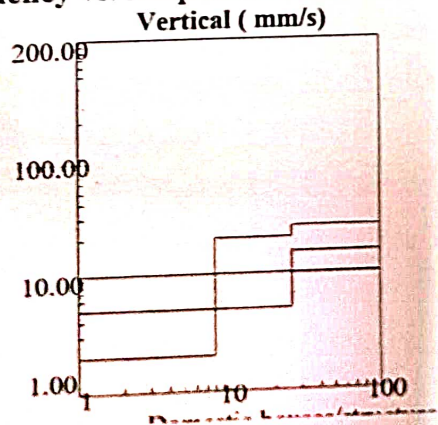
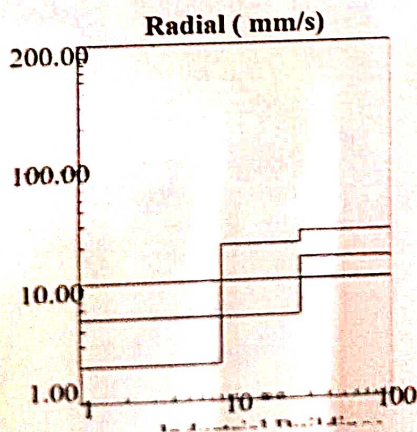
Amplitudes / Frequencies	Trigger >>> Peak	Scales / Triggers	Charge / Distance
○ Radial: 1.016 mm/s @ 15 Hz	46.9 ms	Air Scale: .01585 kPa/div.	Wgt. Per Delay: 36 kg
○ Transverse: 1.016 mm/s @ 16.5 Hz	339.8 ms	Seismic Scale: 4.06 mm/s/div.	Distance: 300 m
○ Vertical: 0.762 mm/s @ 23.2 Hz	273.4 ms	Air Trigger: N	Scaled Distance: 50.4
○ Air: 112.6 dBL @ 10.2Hz / .0085kPa	762.7 ms	Seismic Trigger: .508 mm/s	
○ Vector Sum: 1.2 mm/s @ 15.5 Hz	349.6 ms		

## Waveform Analysis

## Calibration



## Frequency vs. Amplitude Plot - DGMS India (A)



Rajesh (Ravi)

[Signature]

**Mitra S.K. Private Limited**

Shrachi Center (5th Floor)  
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Kolkata – 700 016, West Bengal India  
CIN: U51909WB1956PTC023037



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**TEST REPORT**

Name &amp; Address of the Customer :

**J.K. Cement Works, Mangrol**

C/o Kailash Nagar – 312617

Mangrol – Distt. Chittorgarh ( Raj.)

Report No. : MSK/UDR/2020-21/1909

Date : 31.01.2021

Sample No. : MSKGL/ED/2020-21/01/00613

Sample Description : Effluent Water

Sample Mark : Mangrol Mine Workshop Water, Mangrol

Date of Sampling : 07.01.2021

Reference No.&amp; Date : e-mail dtd: 23.04.2019

**ANALYSIS RESULT**

Sl No.	Parameter	Unit	Result	Method
1.	pH (at 25°C)	---	7.97	APHA (23 <sup>rd</sup> Edition) 4500-H-B
2.	Total Dissolved Solids	Mg/l	304	APHA (23 <sup>rd</sup> Edition) 2540C
3.	Total Suspended Solids	Mg/l	<2.5	APHA (23 <sup>rd</sup> Edition) 2540D
4.	Dissolved Oxygen	Mg/l	6.8	APHA (23 <sup>rd</sup> Edition) 2017-4500-O-C/G

Checked By:-

For Mitra S.K. Pvt. Ltd.

# Mitra S.K. Private Limited

Shrachi Center (5th Floor)  
74B, Acharya Jagadish Chandra Bose Road  
Kolkata – 700 016, West Bengal India  
CIN: U51909WB1956PTC023037

## ANNEXURE-VII



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w: www.mitrask.com

### TEST REPORT

Name & Address of the Customer :

J.K. Cement Works, Mangrol  
Distt. Chittorgarh ( Raj.)

Report No. : MSK/UDR/2020-21/1731

Date : 07.01.2021

Sample No. : MSKGL/ED/2020-21/12/01661

Sample Description : Fugitive Air

Sampling Location : 3-10 Meter Distance from Drilling  
Operation ( Mangrol Limestone Mine)

Date of Sampling : 12.12.2020

Reference No.& Date : e-mail dtd: 23.04.2019

### ANALYSIS RESULT

SL. NO.	Pollutants	Result	Method of Test Reference
1	Suspended Particulate Matter (SPM) in $\mu\text{g}/\text{m}^3$	327	IS 5182 (Part-4) - 1999
2	Sulphur dioxide( SO <sub>2</sub> ) in $\mu\text{g}/\text{m}^3$	9.2	IS: 5182 (Part-2)-2001
3	Nitrogen dioxide (NO <sub>x</sub> ) in $\mu\text{g}/\text{m}^3$	25.1	IS: 5182 (Part- 6)-2006
4	Carbon monoxide(CO) in $\text{mg}/\text{m}^3$	0.58	IS 5182 :(Part-10) :1999

Checked By

For Mitra S.K. Pvt. Ltd

(Authorized Signatory)



# Mitra S.K. Private Limited

Shrachi Center (5th Floor)  
74B, Acharya Jagadish Chandra Bose Road  
Kolkata – 700 016, West Bengal India  
CIN: U51909WB1956PTC023037



TESTING • INSPECTION

T: 91 33 22172249 / 40143000 / 22650006 / 22650007  
F: 91 33 22650008  
E: info@mitrask.com  
W: www.mitrask.com

## TEST REPORT

Name & Address of the Customer :

J.K. Cement Works, Mangrol  
Distt. Chittorgarh ( Raj.)

Report No. : MSK/UDR/2020-21/1732

Date : 07.01.2021

Sample No. : MSKGL/ED/2020-21/12/01662

Sample Description : Fugitive Air

Sampling Location : Near Loading Point ( Mangrol  
Limestone Mine)

Date of Sampling : 12.12.2020

Reference No.& Date : e-mail dtd: 23.04.2019

## ANALYSIS RESULT

SL. NO.	Pollutants	Result	Method of Test Reference
1	Suspended Particulate Matter (SPM) in $\mu\text{g}/\text{m}^3$	331	IS 5182 (Part-4) - 1999
2	Sulphur dioxide( SO <sub>2</sub> ) in $\mu\text{g}/\text{m}^3$	10.2	IS: 5182 (Part-2)-2001
3	Nitrogen dioxide (NO <sub>x</sub> ) in $\mu\text{g}/\text{m}^3$	31.1	IS: 5182 (Part- 6)-2006
4	Carbon monoxide(CO) in $\text{mg}/\text{m}^3$	0.53	IS 5182 :(Part-10) :1999

Checked By

For Mitra S.K. Pvt. Ltd.  
(Authorized Signatory)

# Mitra S.K. Private Limited

Shrachi Center (5th Floor)  
74B, Acharya Jagadish Chandra Bose Road  
Kolkata – 700 016, West Bengal India  
CIN: U51909WB1956PTC023037



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F: 91 33 22650008  
E: info@mitrask.com  
w: www.mitrask.com

## TEST REPORT

Name & Address of the Customer :

J.K. Cement Works, Mangrol  
Distt. Chittorgarh ( Raj.)

Report No. : MSK/UDR/2020-21/2153

Date : 19.03.2021

Sample No. : MSKGL/ED/2020-21/03/00179

Sample Description : Fugitive Air

Sampling Location : 3-10 Meter Distance from Drilling  
Operation ( Mangrol Limestone Mine)

Date of Sampling : 13.02.2021

Reference No.& Date : e-mail dtd: 23.04.2019

## ANALYSIS RESULT

SL. NO.	Pollutants	Result	Method of Test Reference
1	Suspended Particulate Matter (SPM) in $\mu\text{g}/\text{m}^3$	394	IS 5182 (Part-4) - 1999
2	Sulphur dioxide( SO <sub>2</sub> ) in $\mu\text{g}/\text{m}^3$	10.0	IS: 5182 (Part-2)-2001
3	Nitrogen dioxide (NO <sub>x</sub> ) in $\mu\text{g}/\text{m}^3$	19.0	IS: 5182 (Part- 6)-2006
4	Carbon monoxide(CO) in $\text{mg}/\text{m}^3$	0.60	IS 5182 :(Part-10) :1999

  
Checked By

  
For Mitra S. K. Pvt. Ltd.  
(Authorized Signatory)

# Mitra S.K. Private Limited

Shrachi Center (5th Floor)  
74B, Acharya Jagadish Chandra Bose Road  
Kolkata – 700 016, West Bengal India  
CIN: U51909WB1956PTC023037



T: 91 33 22172249 / 40143000 / 22650006 / 22650007  
F: 91 33 22650008  
E: info@mitrask.com  
W: www.mitrask.com

## TEST REPORT

Name & Address of the Customer :

J.K. Cement Works, Mangrol  
Distt. Chittorgarh ( Raj.)

Report No. : MSK/UDR/2020-21/2154

Date : 19.03.2021

Sample No. : MSKGL/ED/2020-21/03/00180

Sample Description : Fugitive Air

Sampling Location : Near Loading Point ( Mangrol  
Limestone Mine)

Date of Sampling : 13.02.2021

Reference No.& Date : e-mail dtd: 23.04.2019

## ANALYSIS RESULT

SL. NO.	Pollutants	Result	Method of Test Reference
1	Suspended Particulate Matter (SPM) in $\mu\text{g}/\text{m}^3$	286	IS 5182 (Part-4) - 1999
2	Sulphur dioxide( SO <sub>2</sub> ) in $\mu\text{g}/\text{m}^3$	7.0	IS: 5182 (Part-2)-2001
3	Nitrogen dioxide (NO <sub>x</sub> ) in $\mu\text{g}/\text{m}^3$	22.0	IS: 5182 (Part- 6)-2006
4	Carbon monoxide(CO) in $\text{mg}/\text{m}^3$	0.56	IS 5182 :(Part-10) :1999

  
Checked By

  
For Mitra S. K. Pvt. Ltd.  
(Authorized Signatory)

# ANNEXURE-VIII

## Mitra S.K. Private Limited

Shrachi Center (5th Floor)  
74B, Acharya Jagadish Chandra Bose Road  
Kolkata – 700 016, West Bengal India  
CIN: U51909WB1956PTC023037



T: 91 33 22172249 / 40143000 / 22650006 / 22650007  
F: 91 33 22650008  
E: info@mitrask.com  
W: www.mitrask.com

### TEST REPORT

Name & Address of the Customer :  
J.K. Cement Works, Mangrol  
Distt. Chittorgarh ( Raj.)

Report No. : MSK/UDR/2020-21/1740  
Date : 07.01.2021  
Sample No. : MSKGL/ED/2020-21/12/01671 & 1672  
Sample Description : Noise Monitoring

Reference No.& Date : e-mail dtd: 07.06.2018

### ANALYSIS RESULT

Sl. No.	Sampling Date	Sampling Location	Results Leq dB(A)	
			Day Time	Night Time
1.	11/12.12.2020	Towards Factory gate (Mangrol Mine )	59.4	43.1
2.		Near Ravana Office (Mangrol Mine )	57.5	41.6
Limit As per CPCB (Environment Protection Rules, 1986)		in Industrial Area Leq dB(A)	75	70

Report Prepared by :

For Mitra S.K. Private Limited

Authorised Signatory



# Mitra S.K. Private Limited

Shrachi Center (5th Floor)  
74B, Acharya Jagadish Chandra Bose Road  
Kolkata – 700 016, West Bengal India  
CIN: U51909WB1956PTC023037



T: 91 33 22172249 / 40143000 / 22650006 / 22650007  
F: 91 33 22650008  
E: info@mitrask.com  
w: www.mitrask.com

## TEST REPORT

Name & Address of the Customer :

J.K. Cement Works, Mangrol

Distt. Chittorgarh ( Raj.)

Report No. : MSK/UDR/2020-21/2167

Date : 19.03.2021

Sample No. : MSKGL/ED/2020-21/03/00204 &  
00205

Sample Description : Noise Monitoring

Reference No.& Date : e-mail dtd: 07.06.2018

## ANALYSIS RESULT

Sl. No.	Sampling Date	Sampling Location	Results Leq dB(A)	
			Day Time	Night Time
1.	11/12.02.2021	Towards Factory gate (Mangrol Mine )	60.1	42.0
2.		Near Ravana Office (Mangrol Mine )	59.0	38.7
Limit As per CPCB (Environment Protection Rules, 1986)		in Industrial Area Leq dB(A)	75	70

Report Prepared by :

For Mitra S.K. Private Limited



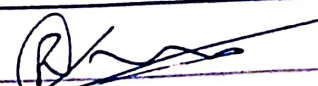
Authorised Signatory

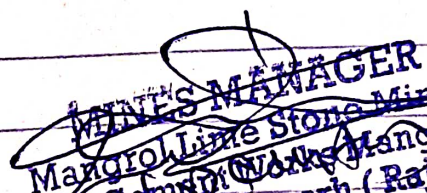
# NOISE LEVEL MONITORING

(36)

14/03/2021

S. No.	Equipment	Noise Level	Place of Observation	Remark
①	Excavator PC-2(300)	83 76	Cabin door opened Cabin door closed	
②	Excavator K-3 (380)	81 77	Cabin door opened Cabin door closed	
③	Rock breaker PC-5(210)	85 75	Cabin door opened Cabin door closed	
④	Drill m/c INDUS (ICB-40)	79 71	Cabin door opened Cabin door closed	
⑤	Dozer (D-2)	78 72	Cabin door opened Cabin door closed	
⑥	Tipper RJ09GC 2127	77 72	Cabin door opened Cabin door closed	
⑦	Tipper RJ09GC 0616	78 74	Cabin door opened Cabin door closed	
⑧	Tipper RJ09GC 2135	78 72	Cabin door opened Cabin door closed	
⑨	Tipper RJ09GC 0354	79 75	Cabin door opened Cabin door closed	
⑩	Tipper RJ09GC 2126	77 73	Cabin door opened Cabin door closed	

  
 Survey Conducted by  
 Rahul Meena  
 (Engineer, Mines)

  
 MINES MANAGER  
 Mangrol Lime Stone Mines  
 J. K. Cement Works Mangrol  
 Distt. Chittorgarh (Raj.)