

**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  
Kallash Nagar - 312617, Nimbahera  
Distt. Chittorgarh (Raj.) INDIA

NBH/PC-14/C12/

Regd.AD.

Date:28.05.2021

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

**Sub: Environmental Clearance Compliance report of Maliakhhera Limestone Mine by J K Cement Works, Nimbahera, Dist. Chittorgarh (Rajasthan).**

Ref.: EC letter no. - J-11015/429/2008-IA. II (M) dated 06.08.2010 & amended dated 21.02.2018 and 15.05.2018.

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.z.lko-mef@nic.in](mailto:roc.z.lko-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, Nimbahera

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, Shahdara, Behind Karkarduma high court New Delhi-11032

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



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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





**HALF YEARLY COMPLIANCE REPORT  
OF  
ENVIRONMENTAL CLEARANCE LETTER NO.**

**J-11015/429/2008-IA.II (M) dated 06.08.2010**

**Period: October-2020 to March-2021**

**For  
Maliakhara Limestone Mine  
Production: Limestone 2.2 MMTPA to 3.2 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, NIMBAHERA,  
Kailash Nagar, Tehsil: Nimbahera, District: Chittorgarh (Raj)**



PROPONENT	J. K. CEMENT WORKS, NIMBAHERA (RAJ.)	Period from October'2020 to March'2021
PROJECT	Expansion of Maliakhara Limestone ( ML No.04/2003, Area- 315.409 HA.) 2.2 MMTPA to 3.2MMTPA, Tehsil- Nimbahera, District- Chittorgarh (Rajasthan).	
Environment Clearance issued from the MOEF&CC, New Delhi vide Letter No. J-11015/429/2008-IA.II (M) dated 06.08.2010		

<b>S. No.</b>	<b>Condition</b>	<b>Status</b>
	<b>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.	<p>Complied with.</p> <p>Consent to Establish has been obtained under Air &amp; Water Act for the expansion in production capacity of 3.2 MMTPA vide letter no. F(Mines)/Chittorgarh(Nimbahera)/516(1)/2010-2011/6703-6707 dated 27/01/2011.</p> <p>Renewal of Consent to Operate has been obtained under Air &amp; Water Act for production capacity of 3.2 MMTPA Limestone vide letter no. F(Mines)/Chittorgarh (Nimbahera)/1869(1)/2017-2018/2131 - 2135 dated. 20.06.2017 valid till 31/05/2022.</p>
(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.	Will be Complied
(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.	<p>Complying with.</p> <p>The lease was granted on 25.07.1984 in the favor of J.K. Cement Works. Mining lease was initially executed on 13.12.1984 and it was renewed (First renewal) from 13.12.2004. Private land is used only after diversion for non-agriculture use from state revenue department.</p>
(iv)	Necessary prior permission from the Competent Authority as may be applicable for use of grazing land for mining purpose shall be obtained.	<p>Complying with.</p> <p>The mining lease was executed on 13.12.1984. At the time of renewal of Mine lease, the Department of Mines and Geology corrected the error of Mining lease area by reducing from 320 Ha to 315.409 Ha. through digital demarcation having 77 Ha. Grazing land. The orders of Hon'ble Supreme Court 2006, is not applicable as the lease was allocated prior to 2006.</p> <p>Out of 315.409 Ha ML area, the total land acquired till date is 258.96 Ha. including 75.81 Ha charnot land. The balance Charnot land is 1.19 Ha to be acquired.</p> <p>Permission for working in Grazing land has been granted by District Authorities vide District Collectors letter No. Rajasva/Khanan/NOC/12-12(41)03/1799 dated 12.10.2006, Rajasva/Khanan/NOC/12-12(40)03/1800 dated 12.10.2006 and vide letter no. Prakaran No./Re.Vi./4/88 dated 10.05.1989.</p>



(v)	The project proponent shall develop fodder plots in the non-mineralized area in lieu of use of grazing land.	<p>The mining lease was executed on 13.12.1984. Land use pattern at the CP stage is given as below: -</p> <table border="1" data-bbox="711 232 1461 600"> <thead> <tr> <th></th><th>Description</th><th>Area (ha.)</th></tr> </thead> <tbody> <tr> <td>1</td><td>Pit Area</td><td>215.902 (water body)</td></tr> <tr> <td>2</td><td>Submerge Area</td><td>17.822</td></tr> <tr> <td>3</td><td>Infrastructure (office, crusher etc.)</td><td>12.87 (re-grassing for growth of fodder/flora &amp; fauna in compliance MoEF&amp;CC OM dt 16.01.2020)</td></tr> <tr> <td>4</td><td>Embankment</td><td>9.678 (plantation)</td></tr> <tr> <td>5</td><td>Plantation</td><td>59.135</td></tr> <tr> <td></td><td>Total</td><td>315.409</td></tr> </tbody> </table>		Description	Area (ha.)	1	Pit Area	215.902 (water body)	2	Submerge Area	17.822	3	Infrastructure (office, crusher etc.)	12.87 (re-grassing for growth of fodder/flora & fauna in compliance MoEF&CC OM dt 16.01.2020)	4	Embankment	9.678 (plantation)	5	Plantation	59.135		Total	315.409
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(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.	<p>Highest Elevation is 443 MSL and Lowest Elevation is 432 MSL. General ground level is 437 MSL. The ultimate pit depth will be 383 MSL (54m bgl from the General Ground Level).</p> <p>Present Working Depth is Pit.1 – 398.5 MSL. Water Table in Pre Monsoon is 387 MSL to 382 MSL &amp; in Post Monsoon at 399 MSL. The working depth in plan period will be 383 MSL and ultimate pit limit will be 383 MSL. Water table of the area is 50-55 m deep (387 MSL - 382 MSL) in pre- monsoon and minimum 38 m (399 MSL) in Post Monsoon. Hence, water table may be intersected in post monsoon season.</p> <p>For intersecting the ground water table and dewatering, CGWA NOC has been obtained vide letter no. 21-4(286)/WR/CGWA/2008-1676 dated 28.10.2015 and corrigendum dated 17.05.2016. Renewal of NOC has been applied dated 16.10.2017 and application has been recommended and forwarded to The Member Secretary CGWA, New Delhi by RD, CGWB Jaipur.</p> <p>Revised renewal application as per CGWA Guidelines 24 September 2020 has been submitted on 10.01.2021.</p>																					
(vii)	The Project Proponent shall ensure that no natural watercourse and/or water resources are obstructed due to any mining operation. Adequate measures shall be taken for protection of the seasonal nallah during the course of mining operation.	<p>Complying with.</p> <p>No natural water course/ water resources are obstructed due to any mining operation.</p>																					
(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 during mining operation is being stacked at designated places and used for plantation.</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>Complying with.</p> <p>There is no overburden. The quantity of subgrade mineral till 31<sup>st</sup> March'2021 total was 1444490.981 MT is stacked within ML area at earmarked site occupying 6.71 ha area.</p> <p>The quantity of top soil till 31<sup>st</sup> March'2021 total was 282149.50 MT is stored within ML area at earmarked site and utilized for plantation.</p> <p>Compliance status is being submitted regularly last EC compliance report is submitted on 26.11.2020.</p>																					




(x)	<p>The void left unfilled in the entire excavated area of 208.76ha 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>	<p>Will be complied.</p> <p>At the conceptual stage, the entire excavated area of 215.902 ha will be converted into water reservoir. The higher benches of excavated void/mining pit will be terraced and plantation done to stabilize the slopes.</p> <p>The slope of higher benches will be made gentler for easy accessibility by local people to use the water body.</p> <p>Peripheral fencing will be carried out all along the excavated area during the lease period as and when required.</p>																															
(xi)	<p>Catch drains and siltation ponds of appropriate size shall be constructed for the working pit, temporary soil, mineral dumps and waste dump(s) to arrest flow of silt and sediment directly into the agricultural fields, the Murlia dam, seasonal nallah and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains should be regularly desilted particularly after the monsoon and maintained properly.</p> <p>Garland drains, setting tanks and check dams of appropriate size, gradient and length shall be constructed both around the mine pit and waste dump(s) to prevent run off of water and flow of sediments directly into the agricultural fields, the Murlia dam, seasonal nallah and other water bodies and sump capacity should be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years' data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper setting of slit material. Sedimentation pits should be constructed at the corners of the garland drains and desilted at regular intervals.</p>	<p>Complied with.</p> <ul style="list-style-type: none"><li>• Rainwater collected in mine pit and transfer to non-working pit to sedimentation and then utilize for various purpose.</li><li>• To collect run off water from subgrade dump and soil stack garland drain and siltation pit has been constructed. Details are given below: -</li></ul> <table border="1"><thead><tr><th>Catch drain / Garland drain</th><th>Dimensions</th></tr></thead><tbody><tr><td>West side of mine pit</td><td>Length -- 1446 m, Width -- 1.5 m Depth -- 1.0 m</td></tr><tr><td>Around Subgrade dump</td><td>Length -- 277 m Width -- 1.0 m Depth -- 1.0 m</td></tr></tbody></table> <p>Total rainfall in single day (considering 50 mm rainfall)</p> <p>1. Total rain water would be available= Subgrade dump (area) X rainfall (m) X Runoff coefficient (20%) 67100 M2 X 0.05 M X 0.20 = 671 M3 and considering 50% safety margin then total capacity of siltationpond should be 1342 m3.</p> <p>2. Soil stack (area) X rainfall (m) X Runoff coefficient (20%) 8590 X 0.05 M X 0.20 = 85.9 M3 and considering 50% safety margin then total capacity of siltation pond should be 171.8 m3.</p> <p>Total rain water collection capacity of siltation pit requires = 1342 + 171.8 = 1513.8 m3</p> <p>Constructed three siltation pit with dimension as given below: -</p> <table border="1"><thead><tr><th>Sr. No.</th><th>Length (M)</th><th>Width (M)</th><th>Depth (M)</th><th>Capacity M3)</th></tr></thead><tbody><tr><td>1</td><td>15</td><td>14</td><td>2.45</td><td>514.5</td></tr><tr><td>2.</td><td>20</td><td>17</td><td>2.2</td><td>748</td></tr><tr><td>3.</td><td>17.40</td><td>15.5</td><td>1.30</td><td>350.61</td></tr><tr><td colspan="4">Total</td><td>1613.11</td></tr></tbody></table> <p>The storm water is being collected to garland drain from the periphery of the pit area and the waste dump area routed to siltation pond. The collected water is being used for plantation and water sprinkling on haul road.</p>	Catch drain / Garland drain	Dimensions	West side of mine pit	Length -- 1446 m, Width -- 1.5 m Depth -- 1.0 m	Around Subgrade dump	Length -- 277 m Width -- 1.0 m Depth -- 1.0 m	Sr. No.	Length (M)	Width (M)	Depth (M)	Capacity M3)	1	15	14	2.45	514.5	2.	20	17	2.2	748	3.	17.40	15.5	1.30	350.61	Total				1613.11
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(xii)	<p>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.</p>	<p>Complied with.</p> <p>Siltation pond has been provided for the subgrade mineral storage. Top black cotton soil is generated and is used for plantation.</p>																															

(xiii)	<p>Plantation shall be raised in an area of 19.64ha 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>	<p>Complying with.</p> <ul style="list-style-type: none"> <li>• Total 29.53 ha area is covered under plantation with 59060 nos. of plants (till 31<sup>st</sup> March 2021), inside plantation area 24.88 ha is planted with 49760 nos. plants and outside area 4.65 ha is planted with 9300 nos. of plants.</li> <li>• Total 7.5 m safety zone area is 6.128 ha, out of which 1.445 ha area has been planted and balance 1.81 ha will be completed by 31st March 2025 as per the availability of land at ML boundary.</li> <li>• There is no reclaimed area and no waste dump within the mining lease suitable for plantation.</li> <li>• Plantation will be carried out around the water reservoir once the mineral gets exhausted.</li> <li>• Plantation density is 2000 numbers/ ha within lease area against the condition of 1000 saplings /ha.</li> </ul>
(xiv)	<p>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>	<p>Complying with.</p> <ul style="list-style-type: none"> <li>• Regular water sprinkling is being done on haul roads and water sprinkling system has been provided at the unloading of crusher to control the fugitive emission.</li> <li>• Ambient air quality and Noise monitoring is carried out by third party which is a NABL accredited Laboratory are enclosed as <b>Annexure-I</b>.</li> </ul> <div data-bbox="783 1059 1388 1364" data-label="Image"> </div>
(xv)	<p>The project authority should implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board.</p>	<p>Complying with.</p> <ul style="list-style-type: none"> <li>➤ Surface rain water is collected in the lower most benches to augment Ground water table.</li> <li>➤ Anicut has been constructed in the North side of the pit to augment water table.</li> </ul>

(xvi)	<p>Regular monitoring of ground water level and quality shall be carried out in and around the mine lease by establishing a network of existing wells and installing new piezometers during the mining operation. The periodic monitoring [(at least four times in a year – pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January); once in each season)] shall be carried out in consultation with the State Ground Water Board/Central Ground Water Authority and the data thus collected may be sent regularly to the Ministry of Environment and Forests and its Regional Office, Lucknow, the Central Ground Water Authority and the Regional Director, Central Ground Water Board. If at any stage, it is observed that the groundwater table is getting depleted due to the mining activity; necessary corrective measures shall be carried out.</p>	<p>Complying with.</p> <ul style="list-style-type: none"><li>➤ To augment the water resources, rain water harvesting is done and stored in lower most benches (Water reservoir)</li><li>➤ Ground water level and quality report is being submitted regularly to MOEF&amp;CC, Central Ground Water Authority and Regional Director Central Ground Water Board.</li><li>➤ Ground water monitoring report are as below as well as enclosed in <b>Annexure-II</b>.</li></ul> <table><tr><th rowspan="2">S N</th><th rowspan="2">Parameter</th><th colspan="4">Results</th></tr><tr><th>Pre-Monsoon 29.05.2020</th><th>Monsoon 14.08.2020</th><th>Post-Monsoon 11.11.2020</th><th>Winter 07.01.2021</th></tr><tr><td>1</td><td>pH at 28 °C</td><td>7.28</td><td>7.61</td><td>7.37</td><td>7.60</td></tr><tr><td>2</td><td>Conductivity at 25° in umhos/cm</td><td>970</td><td>656</td><td>968</td><td>933</td></tr><tr><td>3</td><td>Colour in Hazen</td><td>Clear</td><td>&lt;1.0</td><td>&lt;1.0</td><td>&lt;1.0</td></tr><tr><td>4</td><td>Turbidity in N.T.U.</td><td>0.56</td><td>&lt;1.0</td><td>&lt;1.0</td><td>&lt;1.0</td></tr><tr><td>5</td><td>Total Dissolved Solid in mg/l</td><td>582</td><td>380</td><td>560</td><td>586</td></tr><tr><td>6</td><td>Total Suspended Solid in mg/l</td><td>40</td><td>&lt;2.5</td><td>&lt;2.5</td><td>4.2</td></tr><tr><td>7</td><td>Total Hardness as CaCO3 in mg/l</td><td>403</td><td>239</td><td>357</td><td>336</td></tr><tr><td>8</td><td>Calcium as Ca in mg/l</td><td>360</td><td>39</td><td>130</td><td>106</td></tr><tr><td>9</td><td>Magnesium as Mg in mg/l</td><td>48</td><td>34</td><td>11</td><td>17</td></tr><tr><td>10</td><td>Total alkalinity as CaCO3 in mg/l</td><td>254</td><td>208</td><td>365</td><td>456</td></tr><tr><td>11</td><td>Chloride as Cl in mg/l</td><td>98</td><td>48</td><td>99</td><td>71</td></tr><tr><td>12</td><td>Oil &amp; Grease in mg/l</td><td>1.10</td><td>&lt;1.4</td><td>&lt;1.4</td><td>&lt;1.4</td></tr><tr><td>13</td><td>Fluoride as F in mg/l</td><td>0.47</td><td>0.36</td><td>0.52</td><td>0.45</td></tr><tr><td>14</td><td>Iron as Fe in mg/l</td><td>&lt;0.05</td><td>0.07</td><td>&lt;0.05</td><td>0.86</td></tr></table> <p>The online GW level details are as below:</p> <table><tr><th>Month</th><th>Level in Mtr.</th></tr><tr><td>October, 20</td><td>37.18</td></tr><tr><td>November, 20</td><td>46.19</td></tr><tr><td>December, 20</td><td>49.96</td></tr><tr><td>January, 21</td><td>49.96</td></tr><tr><td>February, 21</td><td>49.96</td></tr><tr><td>March, 21</td><td>49.96</td></tr></table>	S N	Parameter	Results				Pre-Monsoon 29.05.2020	Monsoon 14.08.2020	Post-Monsoon 11.11.2020	Winter 07.01.2021	1	pH at 28 °C	7.28	7.61	7.37	7.60	2	Conductivity at 25° in umhos/cm	970	656	968	933	3	Colour in Hazen	Clear	<1.0	<1.0	<1.0	4	Turbidity in N.T.U.	0.56	<1.0	<1.0	<1.0	5	Total Dissolved Solid in mg/l	582	380	560	586	6	Total Suspended Solid in mg/l	40	<2.5	<2.5	4.2	7	Total Hardness as CaCO3 in mg/l	403	239	357	336	8	Calcium as Ca in mg/l	360	39	130	106	9	Magnesium as Mg in mg/l	48	34	11	17	10	Total alkalinity as CaCO3 in mg/l	254	208	365	456	11	Chloride as Cl in mg/l	98	48	99	71	12	Oil & Grease in mg/l	1.10	<1.4	<1.4	<1.4	13	Fluoride as F in mg/l	0.47	0.36	0.52	0.45	14	Iron as Fe in mg/l	<0.05	0.07	<0.05	0.86	Month	Level in Mtr.	October, 20	37.18	November, 20	46.19	December, 20	49.96	January, 21	49.96	February, 21	49.96	March, 21	49.96
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February, 21	49.96																																																																																																													
March, 21	49.96																																																																																																													
(xvii)	<p>Appropriate mitigative measures shall be taken to prevent pollution of the Murlia dam in consultation with the State Pollution Control Board.</p>	<p>Murlia dam lie at a distance of 1.52 Km in ENE direction from the Maliakhera mining lease and therefore there is no adverse effect on it due to mining activity.</p>																																																																																																												
(xviii)	<p>The project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of ground water required for the project.</p>	<p>Complied with.</p> <p>NOC for drawl of groundwater from CGWA has been obtained vide letter no. 21-4(286)/WR/CGWA/2008-1676 dated. 28.10.2015 valid till October 2018. Renewal of CGWA NOC has been applied vide letter no. MGR-PC- 23/2562 dated 16/10/2017 and has been recommended and forwarded to the CGWA Delhi by the RD CGWB Jaipur vide letter no. TS/21B(221)/CGWA/WR/2008-6073 dated 18/07/2018. Revised renewal application as per CGWA Guidelines 24 September 2020 has been submitted on 10.01.2021.</p>																																																																																																												

(xix)	Suitable rainwater harvesting measures on long term basis shall be planned and implemented in consultation with the Regional Director, Central Ground Water Board.	Complying with. Rain water is harvested during rainy season in the bottom most bench.
(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 trucks only and the vehicles carrying the mineral shall not be overloaded.	Complying with.  Off road higher capacity Dumpers (40 Tonner) has been engaged. The maintenance of Dumpers is being regularly done by OEM under the supervision of our Maintenance staff to maintain the condition under control. The PUC certificate are enclosed as <b>Annexure-III</b> .
(xxi)	Controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.	Complying with. Controlled blasting is being practiced by using NONEL system of initiation for keeping Charge per delay within the limits to control the Ground Vibration, fly rocks and air blast.
(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.	Complying with. No secondary blasting is being done during the mining operation. Oversized boulders are broken by use of Hydraulic Rock breaker.
(xxiii)	Drills shall either be operated with dust extractors or equipped with water injection system.	Complying with. Wet drilling is being practiced. Water injection system on DTH drill has been provided which suppresses dust at its source of generation.  
(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. A dry fog system is provided at crusher hopper to suppress the dust generated during unloading of material from the dumpers and belt curtains provided along all 3 sides of the hopper. Bag filters are installed at crusher and transfer points to control the dust levels & Regular water spraying is done by deploying water tanker the Mineral handling area.  

		
(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>There is no colony for Maliakhera mines. However, colony has been developed at Nimbahera plant which has Sewage Treatment Plant (Cap.500KLD).</p> <p>No waste water is generated during mining operation.</p>
(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.	<p>Complying with.</p> <p>Initial and periodical medical examination is being carried out. Copy is enclosed as <b>Annexure -IV</b>.</p>
(xxvii)	Digital processing of the entire lease area using remote sensing technique should be done regularly once in three years for monitoring land use pattern and report submitted to MOEF and its Regional Office located at Lucknow.	<p>Complying with.</p> <p>Digital processing report of the entire lease area has been submitted on 02.03.2020 vide letter no. NBH/PC-14/C12/5905.</p>
(xxviii)	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.	<p>No construction labour are engaged in Mine.</p>
(xxix)	The critical parameters such as RSPM (Particulate matter with size less than 10 micron i.e. PM <sub>10</sub> ) and NO <sub>x</sub> in the ambient air within the impact zone, peak particle velocity at 300m distance or within the nearest habitation, whichever is closer shall be monitored periodically. Further, quality of discharged water shall also be monitored [(TDS, DO, PH and Total Suspended Solids (TSS)]. The monitored data shall be uploaded on the website of the company as well as displayed on the display board at the project site at a suitable location near the main gate of the Company in public domain. The Circular No. J-20012/1/2006-IA.II(M) dated 27.05.2009 issued by Ministry of	<p>Complying with.</p> <p>These critical parameters are measured periodically and Ambient air monitoring and noise monitoring are carried out by NABL approved Laboratory, enclosed as <b>Annexure-I</b>.</p> <p>No waste water is generating during mining operation.</p> <p>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></p>

	Environment and Forests, 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.	
	<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 and Forests.	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, 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., PM <sub>10</sub> ) and NO <sub>x</sub> 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.	Complying with. Periodical Monitoring at four stations in the core zone as well as in the buffer zone is already being done. Ambient air quality and Noise monitoring is carried out by NABL accredited Laboratory, enclosed as <b>Annexure-I</b> .
(v)	Data on ambient air quality RSPM (Particulate matter with size less than 10 micron i.e., PM <sub>10</sub> ) &NO <sub>x</sub> 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 submitted in prescribed offices.
(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	Complying with. Fugitive dust emission is being controlled by regular water spraying arrangement.

	properly maintained.																			
(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>Workers engaged in operation of HEMM etc. are provided with ear plugs.</p> <p>Latest Noise monitoring is carried out by third party which is NABL accredited Laboratory, enclosed as <b>Annexure-I</b>.</p>																		
(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 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.	Noted. No industrial waste water is generated in the Mine.																		
(ix)	<p>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> <p>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.</p>	<p>Complied.</p> <p>Persons engaged in drilling, dozing and loading have been provided dust mask. VT is being provided as required under MVT rules 1966. Regular periodic check-up of workers is being carried out.</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.	<p>Complied.</p> <p>A separate environmental management cell with qualified personnel is already established &amp; has sufficient monitoring equipment in environmental laboratory.</p>																		
(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>For environment protection measures expenditure made during FY 2020-21 was Rs. 126.41 lacs as provided below.</p> <table border="1"> <thead> <tr> <th>SN</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>0.89</td></tr> <tr> <td>2.</td><td>Pollution control expenses (Statutory)</td><td>3.34</td></tr> <tr> <td>3.</td><td>Plantation/Gardening Expenses</td><td>56.46</td></tr> <tr> <td>4.</td><td>CSR Expenses</td><td>65.72</td></tr> <tr> <td colspan="2">Total (Rs.)</td><td>126.41</td></tr> </tbody> </table>	SN	Activity	Recurring Cost per Annum (Rs. In lacs)	1.	Pollution control expenses (Others)	0.89	2.	Pollution control expenses (Statutory)	3.34	3.	Plantation/Gardening Expenses	56.46	4.	CSR Expenses	65.72	Total (Rs.)		126.41
SN	Activity	Recurring Cost per Annum (Rs. In lacs)																		
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Total (Rs.)		126.41																		
(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	Complied																		

	development work.	
(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.	<p>Complying with.</p> <p>Six monthly report is being submitted to all concern offices as given in clearance letter. Latest Six Monthly Monitoring report sent to RO&amp; HO, MoEF&amp;CC Lucknow, CPCB/ RPCB on NBH/PC-14/C12/ dated 26.11.2020.</p>
(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.
(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 31 <sup>st</sup> 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	Noted and being compiled from time to time with, The Environment statement report for FY 2019-20 has been submitted to vide letter no. NBH-PC-ESR 21/538 dt. 15.09.2020



	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.	
(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 & the necessary information already sent to the concerned authority.
(xvii)	The environmental statement for each financial year ending 31 <sup>st</sup> 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.	Noted and being compiled from time to time with, The Environment statement report for FY 2019-20 has been submitted to vide letter no. NBH-PC-ESR 21/538, Date: 15.09.2020
<b>EC Amended letter no. J-11015/429/2008-IA.II (M) ,Dated 15<sup>th</sup> May, 2018.</b>		
5.	The matter has been examined in the Ministry and the said EC letter of even no. dated 06.08.2010 has been amended w.r.t. reduction of mine lease area from "320 ha to 315.409 ha".	Complied.
6.	All other Specific and General conditions mentioned in this Ministry's EC letter no. J-11015/429/2008-IA.II (M) dated 06.08.2010 shall remain the same.	Being compiled.
<b>EC Amended letter no. J-11015/429/2008-IA.II (M), Dated 15<sup>th</sup> May, 2018.</b>		
8.	The Ministry of Environment, Forest and Climate Change has examined the proposal in accordance with the provision of clause 7 (ii) of Environmental Impact Assessment Notification, 2006 and hereby amended the Environmental Clearance of M/s J. K. Cement Works,	Complied

	dated 06.08.2010 w.r.t. Installation of Crusher of 1500 TPH along with Overland Rubber Belt Conveyers System (OLBCs) under clause 7(ii) of the EIA Notification, 2006 of Limestone Mine having production capacity of 3.2 Million TPA, located at Village - Maliakhera, Tehsil - Nimbahera, District - Chittorgarh Rajasthan in MLA of 315.409 ha.	
9.	All other Specific and General conditions mentioned in this Ministry's EC letter no. J-11015/429/2008-IA.II (M) dated 06.08.2010 shall remain the same.	Being compiled.

# 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 & Address of the Customer :

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

Report No. : MSK/UDR/2020-21/1727

Date : 07.01.2021

Sample No. : MSKGL/ED/2020-21/12/01657

Sample Description : Ambient Air

Sampling Location : Maliakhera Village ( Maliakhera Mine)

Date of Sampling : 18/19.12.2020

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	70	IS: 5182:(Part-23)-2006
2	Particulate matter( PM <sub>2.5</sub> ) in $\mu\text{g}/\text{m}^3$	60	45	TPM/MSK/ENV (AP) /01/03
3	Sulphur dioxide( SO <sub>2</sub> ) in $\mu\text{g}/\text{m}^3$	80	8.1	IS: 5182 (Part-2)-2001
4	Nitrogen dioxide (NO <sub>2</sub> ) in $\mu\text{g}/\text{m}^3$	80	29.2	IS: 5182 (Part- 6)-2006
5	Carbon monoxide(CO) in $\text{mg}/\text{m}^3$	2	0.64	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, Nimbahera  
Distt. Chittorgarh ( Raj.)

Report No. : MSK/UDR/2020-21/1726

Date : 07.01.2021

Sample No. : MSKGL/ED/2020-21/12/01656

Sample Description : Ambient Air

Sampling Location : Near Ravana Office ( Maliakhera Mine)

Date of Sampling : 18/19.12.2020

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	91	IS: 5182:(Part-23)-2006
2	Particulate matter( PM <sub>2.5</sub> ) in µg/m <sup>3</sup>	60	55	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	25.4	IS: 5182 (Part- 6)-2006
5	Carbon monoxide(CO) in mg/m <sup>3</sup>	2	0.72	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, Nimbahera  
Distt. Chittorgarh ( Raj.)

Report No. : MSK/UDR/2020-21/1728

Date : 07.01.2021

Sample No. : MSKGL/ED/2020-21/12/01658

Sample Description : Ambient Air

Sampling Location : Pipliya gadia Village ( Maliakhera  
Mine)

Date of Sampling : 18/19.12.2020

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	68	IS: 5182:(Part-23)-2006
2	Particulate matter( PM <sub>2.5</sub> ) in $\mu\text{g}/\text{m}^3$	60	41	TPM/MSK/ENV (AP) /01/03
3	Sulphur dioxide( SO <sub>2</sub> ) in $\mu\text{g}/\text{m}^3$	80	7.2	IS: 5182 (Part-2)-2001
4	Nitrogen dioxide (NO <sub>2</sub> ) in $\mu\text{g}/\text{m}^3$	80	24.1	IS: 5182 (Part- 6)-2006
5	Carbon monoxide(CO) in $\text{mg}/\text{m}^3$	2	0.51	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.

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## TEST REPORT

Name & Address of the Customer :

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

Report No. : MSK/UDR/2020-21/1725

Date : 07.01.2021

Sample No. : MSKGL/ED/2020-21/12/01655

Sample Description : Ambient Air

Sampling Location : Near Mine Office ( Milakhara Mine)

Date of Sampling : 18/19.12.2020

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	8.9	IS: 5182 (Part-2)-2001
4	Nitrogen dioxide (NO <sub>2</sub> ) in $\mu\text{g}/\text{m}^3$	80	28.1	IS: 5182 (Part- 6)-2006
5	Carbon monoxide(CO) in $\text{mg}/\text{m}^3$	2	0.44	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, Nimbahera  
Distt. Chittorgarh ( Raj.)

Report No. : MSK/UDR/2020-21/1738

Date : 07.01.2021

Sample No. : MSKGL/ED/2020-21/12/01668

Sample Description : Fugitive Air

Sampling Location : Near Loading Point ( Maliakhera Mine)

Date of Sampling : 18.12.2020

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 $\mu\text{g}/\text{m}^3$	345	IS 5182 (Part-4) - 1999
2	Sulphur dioxide( SO <sub>2</sub> ) in $\mu\text{g}/\text{m}^3$	8.6	IS: 5182 (Part-2)-2001
3	Nitrogen dioxide (NO <sub>x</sub> ) in $\mu\text{g}/\text{m}^3$	29.8	IS: 5182 (Part- 6)-2006
4	Carbon monoxide(CO) in $\text{mg}/\text{m}^3$	0.76	IS 5182 :(Part-10) :1999

Checked 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, Nimbahera  
Distt. Chittorgarh ( Raj.)

Report No. : MSK/UDR/2020-21/1737

Date : 07.01.2021

Sample No. : MSKGL/ED/2020-21/12/01667

Sample Description : Fugitive Air

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


Date of Sampling : 18.12.2020

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 $\mu\text{g}/\text{m}^3$	345	IS 5182 (Part-4) - 1999
2	Sulphur dioxide( SO <sub>2</sub> ) in $\mu\text{g}/\text{m}^3$	8.9	IS: 5182 (Part-2)-2001
3	Nitrogen dioxide (NO <sub>x</sub> ) in $\mu\text{g}/\text{m}^3$	31.2	IS: 5182 (Part- 6)-2006
4	Carbon monoxide(CO) in $\text{mg}/\text{m}^3$	0.69	IS 5182 :(Part-10) :1999

  
Checked By

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



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## TEST REPORT

Name & Address of the Customer :

J.K.Cement Works, Nimbahera

Distt. Chittorgarh ( Raj.)

Report No. : MSK/UDR/2020-21/1743

Date : 07.01.2021

Sample No. : MSKGL/ED/2020-21/12/01679 & 1680

Sample Description : Noise Monitoring

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

## ANALYSIS RESULT

Sl. No.	Sampling Date	Sampling Location	Results Leq dB(A)	
			Day Time	Night Time
1.	18/19.12.2020	Near Mine Office (Maliakhera Mine)	58.5	44.2
2.		Near Ravana Office (Maliakhera Mine)	54.1	39.8
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



**J.K. Cement WORKS, NIMBAHERA (RAJ)**  
**MALIAKHERA Limestone MINE**  
**SIX MONTHLY AMBIENT AIR QUALITY & NOISE MONITORING REPORT**  
**October'2020 to March'2021**

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

Sample duration: 24 hours  
(monthly average basis)

Month	Near Mine Office					Near Ravana Office					3 to10 Meter Distance From Drilling Operation				Near loading point			
	PM10	PM2.5	SO <sub>2</sub>	Nox	CO	PM10	PM2.5	SO <sub>2</sub>	Nox	CO	SPM	SO <sub>2</sub>	Nox	CO	SPM	SO <sub>2</sub>	Nox	CO
Oct-20	40.5	29.5	12.0	22.2	567	42.1	30.5	11.2	23.5	636	365	11.9	25.7	567	373	11.0	24.6	579
Nov-20	55.5	41.3	16.0	23.1	779	71.5	32.6	15.3	27.0	710	462	19.9	25.9	693	364	16.9	28.9	916
Dec-20	65.0	46.1	15.7	24.2	739	78.0	40.1	15.4	26.1	659	466	16.7	28.3	773	388	17.9	28.1	888
Jan-21	51.1	40.2	14.9	24.6	510	64.9	41.8	16.7	27.8	796	455	18.5	25.3	859	356	16.4	27.0	750
Feb-21	54.5	40.2	16.9	25.9	550	59.3	35.3	18.9	32.6	745	377	20.2	26.3	894	383	18.9	29.2	790
Mar-21	51.0	38.2	13.2	23.6	813	62.7	39.1	15.0	25.9	733	380	14.9	24.2	796	374	13.2	25.0	727
AVERAGE	52.9	39.2	14.8	23.9	660	63.1	36.6	15.4	27.1	713	418	17.0	26.0	764	373	15.7	27.1	775

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

Month	Near Mines Gate		Near Ravana Office	
	DAY	NIGHT	DAY	NIGHT
Oct-20	56.0	52.0	65.0	60.0
Nov-20	55.8	51.3	64.6	59.7
Dec-20	56.1	52.2	63.7	58.1
Jan-21	57.8	51.9	62.9	57.6
Feb-21	58.3	53.5	66.7	62.23
Mar-21	59.2	56.3	65.4	61.3

# 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

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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, Nimbahera**  
C/o Kailash Nagar – 312617  
Nimbahera – Distt. Chittorgarh ( Raj.)

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

Report No. : MSK/UDR/2020-21/1399

Date : 04.12.2020

Sample No. : MSKGL/ED/2020-21/11/00620

Sample Description : Ground Water from Hand Pump (Mine Office)

Sample Mark : Maliakhara Lime Stone Mine

Date of Sampling : 11.11.2020

### 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	7.37
2.	Conductivity at 25°C in µmhos/cm	---	---	IS 3025 (Part 14)- 2013	968
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	560
7.	Total Suspended Solids in mg/l	---	---	IS 3025 (Part 24)-1986; Rffm:2009	<2.5
8.	Total Hardness as CaCO <sub>3</sub> in mg/l	200	600	IS 3025 (Part 21)-2013	357
9.	Calcium as Ca in mg/l	75	200	IS 3025 (Part 40)- 1991 Rffm: 2009	130
10.	Magnesium as Mg in mg/l	30	100	IS 3025 (Part 46)-1994 Rffm: 2009	11
11.	Total Alkalinity as CaCO <sub>3</sub> in mg/l	200	600	IS 3025 (Part 23)- 1986 Rffm: 2009	365
12.	Chloride as Cl in mg/l	250	1000	IS 3025 (Part 32)-1988 Rffm: 2009	99
13.	Oil & Grease in mg/l	---	---	IS 3025(Part 39)-Rffm 2009	<1.4
14.	Fluoride as F in mg/l	1.0	1.5	IS 3025 (Part 60)- 2008 Rffm: 2013	0.52
15.	Iron as Fe in mg/l	0.3	No relaxation	IS 3025 (Part 53)-1988 Rffm: 2009	<0.05

*V. Soma*  
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



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## TEST REPORT

Name & Address of the Customer :

**J.K. Cement Works, Nimbahera**

C/o Kailash Nagar – 312617

Nimbahera – Distt. Chittorgarh ( Raj.)

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

Report No. : MSK/UDR/2020-21/1896

Date : 31.01.2021

Sample No. : MSKGL/ED/2020-21/01/00600

Sample Description : Ground Water from Hand Pump (Mine Office)

Sample Mark : Maliakhara 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	7.60
2.	Conductivity at 25°C in µmhos/cm	---	---	IS 3025 (Part 14)- 2013	933
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	586
7.	Total Suspended Solids in mg/l	---	---	IS 3025 (Part 24)-1986; Rffm:2009	4.2
8.	Total Hardness as CaCO <sub>3</sub> in mg/l	200	600	IS 3025 (Part 21)-2013	336
9.	Calcium as Ca in mg/l	75	200	IS 3025 (Part 40)- 1991 Rffm: 2009	106
10.	Magnesium as Mg in mg/l	30	100	IS 3025 (Part 46)-1994 Rffm: 2009	17
11.	Total Alkalinity as CaCO <sub>3</sub> in mg/l	200	600	IS 3025 (Part 23)- 1986 Rffm: 2009	456
12.	Chloride as Cl in mg/l	250	1000	IS 3025 (Part 32)-1988 Rffm: 2009	71
13.	Oil & Grease in mg/l	---	---	IS 3025(Part 39)-Rffm 2009	<1.4
14.	Fluoride as F in mg/l	1.0	1.5	IS 3025 (Part 60)- 2008 Rffm: 2013	0.45
15.	Iron as Fe in mg/l	0.3	No relaxation	IS 3025 (Part 53)-1988 Rffm: 2009	0.86

Checked By:-

For Mitra S. K. Pvt. Ltd.



Authorized Signatory





# प्रदूषण नियंत्रण प्रमाण पत्र

## POLLUTION UNDER CONTROL CERTIFICATE

[Approved by Department of Transport, Government of Rajasthan, Jaipur]

परिवहन विभाग राजस्थान सरकार से मान्यता प्राप्त

(Rule 115 of CMV Rules 1989)

10480121

Pucc No :	D10RJ09118535
Vehicle No :	RJ09GC3457
Customer Name :	VALIYA logistick
Customer Mobile :	9784658818
Year of Regn :	07-05-2018
Type of Vehicle :	TIPPER
Make :	Ashok Leyland Ltd
Model :	U-4923TT
Test Date :	18-03-2021
Time :	04:08:28 PM
Valid UpTo :	17-09-2021
Center Name :	Mewar Mobile Pollution Checking Center
Center Address :	Chanderiya, Chittorgarh
Licence No :	RJ09-0010/0010
Test Result :	Pass

VALID IN ALL INDIA

Photo of Vehicle



## Flushing Cycle

Avg	RPM Min	RPM Max	Temp
641		1942	NA

Sr. No.	RPM Min	RPM Max	Km	HSU%	Temp
1	662	1975	0.52	20.0	NA
2	716	2053	0.54	20.7	NA
3	675	2032	0.50	19.3	NA
Mean	684	2020	0.52	20.0	

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

0667097003, 9-14-05/03  
Mewar Mobile Pollution  
Testing Center, Chittorgarh

Get Certificate renewed within the expiry date.

Seal of Testing Station	Testing Station Code	Authorised Signatory
	D10RJ09	

CERTIFICATE IS ONLY VALID IF SMS RECEIVED FROM REIL/TRANSPORT DEPT. KINDLY DESTROY THE INVALID CERTIFICATE.

Transport Dept. Govt. of Rajasthan

Transport Dept. Govt. of Rajasthan



Veh Reg No : RJ09GC3457  
PUC No. : D10RJ09118535  
Valid up to : **17-09-2021**  
Scan QR Code to Validate



Veh Reg No : RJ09GC3457  
PUC No. : D10RJ09118535  
Valid up to : **17-09-2021**  
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# प्रदूषण नियंत्रण प्रमाण पत्र

## POLLUTION UNDER CONTROL CERTIFICATE

[Approved by Department of Transport, Government of Rajasthan, Jaipur]

परिवहन विभाग राजस्थान सरकार से मान्यता प्राप्त

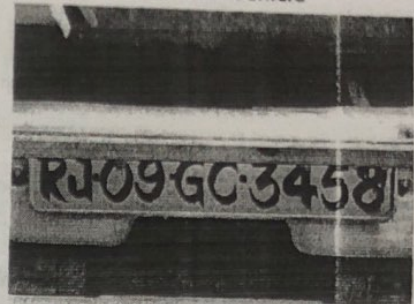
(Rule 115 of CMV Rules 1989)

10480115

Pucc No :	D10RJ09118529
Vehicle No :	RJ09GC3458
Customer Name :	VALIYA LOGISTICS LLP
Customer Mobile :	9309402204
Year of Regn :	22-10-2018
Type of Vehicle :	TIPPER
Make :	Ashok Leyland Ltd
Model :	U-4923TT
Test Date :	18-03-2021
Time :	02:00:10 PM
Valid UpTo :	17-09-2021
Center Name :	Mewar Mobile Pollution Checking Center
Center Address :	Chanderiya, Chittorgarh
Licence No :	RJ09-0010/0010
Test Result :	Pass

VALID IN ALL INDIA

Photo of Vehicle



### Flushing Cycle

g	RPM Min	RPM Max	Temp
658	1973	NA	

Sr. No.	RPM Min	RPM Max	Km	HSU%	Temp
1	650	1936	0.52	20.0	NA
2	678	1929	0.49	19.1	NA
3	621	2034	0.48	18.7	NA
Mean			0.50	19.3	

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

9667097003, 9411605634

Mewar Mobile Pollution

Testing Center, Chittorgarh

Seal of Testing Station

Code No. RJ09/10

Get Certificate renewed within the expiry date.

Testing Station Code

D10RJ09

Authorised Signatory

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Transport Dept. Govt. of Rajasthan



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PUC No. : D10RJ09118529  
Valid up to : 17-09-2021  
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Veh Reg No : RJ09GC3458  
PUC No. : D10RJ09118529  
Valid up to : 17-09-2021  
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3/18/2021

Transport Department, Rajasthan



# प्रदूषण नियंत्रण प्रमाण पत्र

## POLLUTION UNDER CONTROL CERTIFICATE

[Approved by Department of Transport, Government of Rajasthan, Jaipur]

परिवहन विभाग राजस्थान सरकार से मान्यता प्राप्त

(Rule 115 of CMV Rules 1989)

10480111

Pucc No :	D10RJ09118526
Vehicle No :	RJ09GC3459
Customer Name :	VALIYA LOGISTICS LLP
Customer Mobile :	9309402204
Year of Regn :	22-10-2018
Type of Vehicle :	TANKER
Make :	Ashok Leyland Ltd
Model :	U-4923TT
Test Date :	18-03-2021
Time :	01:34:14 PM
Valid UpTo :	17-09-2021
Center Name :	Mewar Mobile Pollution Checking Center
Center Address :	Chanderiya, Chittorgarh
Licence No :	RJ09-0010/0010
Test Result :	Pass

VALID IN ALL INDIA

Photo of Vehicle



## Flushing Cycle

Av	RPM Min	RPM Max	Temp
	605	1897	NA

Sr. No.	RPM Min	RPM Max	Km	HSU%	Temp
1	620	1832	0.55	21.0	NA
2	656	1820	0.63	23.8	NA
3	635	1849	0.45	17.6	NA
Mean	603	1840	0.54	20.8	

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

9667007003, 9414605054  
Mewar Mobile Pollution  
Testing Center, Chittorgarh

Get Certificate renewed within the expiry date.

Seal of Testing Station

Testing Station Code

Authorised Signatory

D10RJ09

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Transport Dept. Govt. of Rajasthan



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PUC No. : D10RJ09118526  
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PUC No. : D10RJ09118526  
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# प्रदूषण नियंत्रण प्रमाण पत्र

## POLLUTION UNDER CONTROL CERTIFICATE

[Approved by Department of Transport, Government of Rajasthan, Jaipur]

परिवहन विभाग राजस्थान सरकार से मान्यता प्राप्त

(Rule 115 of CMV Rules 1989)

10480113

Pucc No :	D10RJ09118527
Vehicle No :	RJ09GC3460
Customer Name :	M/S VALIYA LOGISTICS LLP
Customer Mobile :	8955001435
Year of Regn :	22-10-2018
Type of Vehicle :	TIPPER
Make :	Ashok Leyland Ltd
Model :	U-4923TT
Test Date :	18-03-2021
Time :	01:43:34 PM
Valid UpTo :	17-09-2021
Center Name :	Mewar Mobile Pollution Checking Center
Center Address :	Chanderiya, Chittorgarh
Licence No :	RJ09-0010/0010
Test Result :	Pass

### Flushing Cycle

Avg	RPM Min	RPM Max	Temp
603		1797	NA

Sr. No.	RPM Min	RPM Max	Km	HSU%	Temp
1	637	1809	0.52	20.0	NA
2	570	1861	0.61	23.1	NA
3	640	1898	0.55	21.1	NA
Mean			0.56	21.4	

### 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

9667097003, 9414005634

Mewar Mobile Pollution

Testing Center, Chittorgarh

Seal of Testing Station

Code No. RJ09/10

Get Certificate renewed within the expiry date.

Testing Station Code

D10RJ09

Authorised Signatory

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Transport Dept. Govt. of Rajasthan

Transport Dept. Govt. of Rajasthan



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Veh Reg No : RJ09GC3460  
PUC No. : D10RJ09118527  
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# प्रदूषण नियंत्रण प्रमाण पत्र

## POLLUTION UNDER CONTROL CERTIFICATE

[Approved by Department of Transport, Government of Rajasthan, Jaipur]

परिवहन विभाग राजस्थान सरकार से मान्यता प्राप्त

(Rule 115 of CMV Rules 1989)

10480108

Pucc No :	D10RJ09118524
Vehicle No :	RJ09GC3461
Customer Name :	VALIYA LOGISTICS LLP
Customer Mobile :	9309402204
Year of Regn :	22-10-2018
Type of Vehicle :	TRUCK
Make :	Ashok Leyland Ltd
Model :	U-4923TT
Test Date :	18-03-2021
Time :	01:14:45 PM
Valid UpTo :	17-09-2021
Center Name :	Mewar Mobile Pollution Checking Center
Center Address :	Chanderiya, Chittorgarh
Licence No :	RJ09-0010/0010
Test Result :	Pass

VALID IN ALL INDIA

Photo of Vehicle



### Flushing Cycle

Avg	RPM Min	RPM Max	Temp
639		1863	NA

Sr. No.	RPM Min	RPM Max	Km	HSU%	Temp
1	604	1912	0.55	21.0	NA
2	667	1824	0.65	24.4	NA
3	688	1773	0.49	19.1	NA
Mean			0.56	21.5	

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
	D10RJ09	

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Transport Dept. Govt. of Rajasthan

Transport Dept. Govt. of Rajasthan



Veh Reg No : RJ09GC3461  
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Veh Reg No : RJ09GC3461  
PUC No. : D10RJ09118524  
Valid up to : 17-09-2021  
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## MALIAKHERA LIMESTONE MINE

J K CEMENT WORKS, NIMBAHERA

### Trip trailer PUCC Details

S N	Registration No.	Validity	Mfd. Year	Make	Model	HSU%
1	RJ09GC3457	17-09-2021	2018	LEYAIND	4923	20
2	RJ09GC3458	17-09-2021	2018	LEYAIND	4923	19.3
3	RJ09GC3459	17-09-2021	2018	LEYAIND	4923	20.8
4	RJ09GC3460	17-09-2021	2018	LEYAIND	4923	21.4
5	RJ09GC3461	17-09-2021	2018	LEYAIND	4923	21.5
6	RJ09GC3462	17-09-2021	2018	LEYAIND	4923	19.2
7	RJ09GC3463	17-09-2021	2018	LEYAIND	4923	21.6
8	RJ09GC3464	17-09-2021	2018	LEYAIND	4923	22.8
9	RJ09GC3465	17-09-2021	2018	LEYAIND	4923	19.8
10	RJ09GC3466	17-09-2021	2018	LEYAIND	4923	19.9
11	RJ09GC3467	17-09-2021	2018	LEYAIND	4923	18.8
12	RJ09GC3468	17-09-2021	2018	LEYAIND	4923	19.8
13	RJ09GC3469	17-09-2021	2018	LEYAIND	4923	20.2
14	RJ09GC3470	17-09-2021	2018	LEYAIND	4923	20.5
15	RJ09GC3471	17-09-2021	2018	LEYAIND	4923	21.2
16	RJ27GD2826	31-08-2021	2021	LEYAIND	HGV	20.2
17	RJ27GD2832	31-08-2021	2021	LEYAIND	HGV	21.3
18	RJ09GD2831	31-08-2021	2021	LEYAIND	HGV	22.1
19	RJ27GD2830	31-08-2021	2021	LEYAIND	HGV	20.3
20	RJ27GD2827	31-08-2021	2021	LEYAIND	HGV	19.3



## FORM - O

(See rule 29F (2) and 29L)

### Report of Medical Examination under rule 29 B

(To be Issued in triplicate \*\*)

Certificate No.....

Certified that shri **RAJESH SHARMA S/O BHERU LAL SHARMA** as **HELPER** in **MALIA KHERA LIME STONE MINES**,  
Form B No. .

Has been examined for an **initial** / periodical medical examination. He appears to be **26** years of age.

The findings of the examining authority are given in the attached sheet. It is considered that –

Shri **RAJESH SHARMA S/O BHERU LAL SHARMA**.

(a) \* is medically fit for any employment in mines, ✓

(b) \* is suffering from .....and is medically unfit for – ✗

(i) Any employment in mine; or

(ii) Any employment below ground; or

(iii) Any employment or work .....

(c) \* is suffering from .....should get this disability cured / controlled \* and should be again examined within a period of .....months. He will appear for re- examination with the result of test of ..... and the opinion of ..... ✗

Specialist from ..... He may be permitted / not permitted \* to carry on his duties during this period



  
Signature of the examining

Authority

**DR. S. K. CHAUDHARY**  
C.M.O.

**K. C. W. NIMBAHERA (RAJ.)**  
REG. NO. 1131  
Name and designation in  
Block letters.

\*Delete whatever is not applicable\*\* One copy of the certificate shall be handed over to the person concerned and another copy shall be sent to the manager of the mine concerned by registered post ; and the third copy shall be retained by the examining authority.

## Report of the examination authority

(To be filled in for every medical examination whether initial or periodical or re-examination or after cure / control of disability)

Annexure to certificate no. ----- As a result of medical examination on 22/12/20

Identification Mark -

Scar mark over  
(R) hand

Left thumb impression of the candidate.

1. General Development

Good

/

Fair

Poor

2. Height :- 170 cms.

3. Weight :- 56. kg.

4. Eyes :-

(i) Visual acuity N Distance vision (with or without glasses)

(ii) Any organic disease of eyes none

(iii) Night blindness no

(iv) Color blindness no

(v) Squint -----

(To be tested in special cases)

5. Ears :-

(i) Hearing Right ear N Left ear N

(ii) Any organic disease none

6. Respiratory system (Chest measurement) :-

(i) After full inspiration- 95 cms.

(ii) After full expiration - 92 cms.

7. Circulatory system :-

(i) Blood Pressure 124/82 mmHg

(ii) Pulse 76/min

8. Abdomen :-

- (i) Tenderness none  
(ii) Liver NP  
(iii) Spleen NP  
(iii) Tumour not seen

9. Nervous system :-

- (i) History of fits or epilepsy no  
(ii) Paralysis no  
(iii) Mental Health fair

10. Locomotors system OK

11. Skin OK

12. Hernia no

13. Hydrocele no

14. Any other abnormality none

15. Urine :-

- (i) Reaction acidic  
(ii) Albumin Nil  
(iii) Sugar Nil

16. Skiagram of chest. NAD

17. Any other test considered necessary by the examining authority.-----

18. Any opinion of specialist considered necessary-----

Place:-

Nimbahera

Signature of the examining authority.

Dr. S. K. CHAUDHARY  
C.M.O.  
Regd. No. BAHERA (RAJ.)  
J.K.C.W. Nimbahera  
Reg. No. 21732

Report of Medical Examination under Mines Rules 29 B

(To be used in continuation of Form O)

Certificate No. :-

Name: - RAJESH SHARMA S/O BHERU LAL SHARMA.

Identification Marks:-

Scar mark over hand

Result of Lung Function Test (Spirometry)

Particulars	Predicted Value	Performed Value	% of Predicted
Forced Vital Capacity (FVC)			
Forced Expiration Volume -1 (FEV-1)			
FEV-1 / FVC			
Peak Expiratory Flow			

not done due to COVID-19

Spirometry report enclosed

Signature of Examination Authority

Dr. S. K. CHAUDHARY  
C.M.O.  
J.K.C.W. NIMBAHERA (RAJ.)  
Reg. No. 21732



# Report of Medical Examination as per the recommendations of National Safety Conference in Mines

(To be used in continuation of Form O)

Certificate No. :-

Name: - RAJESH SHARMA S/O BHERU LAL SHARMA

Identification Marks:-

scar mark over R hand

## 01. Cardio logical Assessment :-

Auscultation	S1	N
	S2	N
	Additional Sound	none
Electrocardiographs ( 12 leads) findings		Normal / Abnormal

Enclosed ECG

## 02. Neurological Assessment :-

Findings	Normal / Abnormal
Superficial Reflexes	N
Deep Reflexes	N
Peripheral Circulation	N
Vibrational Syndromes	N

## 03. ILO Classifications of Chest Radiograph:-

Profusion of Pneumoconiosis opacities	Grade	Types
Present / Absent	-	-

Enclose Chest Radiograph

Continued:-

04. Audiometry Findings :-

Conduction Type	Left Ear	Right Ear
Ear Conduction	Normal / Abnormal	Normal / Abnormal
Bone Conduction	Normal / Abnormal	Normal / Abnormal

Enclosed Audiometry Report

05. Pathological / Microbiological Investigations :-

Sr. No.	Tests	Findings
01.	Blood- Tlc,Dlc,Hb, ESR, Platelets	WNL / Abnormal
02.	Blood Sugar – Fasting & PP	WNL / Abnormal
03.	Lipid Profile	WNL / Abnormal
04.	Blood Urea , Creatinine	WNL / Abnormal
05.	Urine Routine	WNL / Abnormal
06.	Stool Routine	WNL / Abnormal

06. Special Test foe Mn Exposure :-

Behavioral Disturbances		Present / Not Present
Neurological Disturbance	Special Defect	Present / Not Present
	Tremor	Present / Not Present
	Adiadocokinesia	Present / Not Present
	Emotional Changes	Present / Not Present

Any other Test Required

Signature of Examination Authority

**DR. S. K. CHAUDHARY**  
C.M.O.  
J.K. BHIMBAHERA (RAJ.)  
Reg. No. 21732



# FORM - 'O'

(See rule 29F (2) and 29L)

## Report of Medical Examination under rule 29 B

(To be issued in triplicate \*\*)

Certificate No.....

Certified that Shri DEVI LAL GAYRI employed as DRIVER in MALIAKHERA LIMESTONE MINE.

Form B No. \_\_\_\_\_ has been examined for an Initial/periodical medical examination. He appears to be 30 years of age.

The findings of the examining authority are given in the attached sheet. It is considered that -

Shri DEVI LAL GAYRI

(a) \* is medically fit for any employment in mines, ✓

(b) \* is suffering from ..... and is medically unfit for - ✓

(i) Any employment in mine; or

(ii) Any employment below ground; or

(iii) Any employment or work .....

(c) \* is suffering from ..... should get this disability cured / controlled \* and should be again examined within a period of ..... months. He will appear for ..... re- examination with the result of test of ..... and the opinion of ..... ✓

Specialist from ..... He may be permitted / not permitted \* to carry on his duties during this period

Space for affixing passport size

Photograph of the Candidate



Signature of the examining Authority

.....  
Name and designation in Block letters  
**D. S. K. CHAUDHARY**  
C.M.O.  
J.K.C.W. NIMBAHERA (RAJ.)  
Reg. No. 21732

\*Delete whatever is not applicable

\*\* One copy of the certificate shall be handed over to the person concerned and another copy shall be sent to the manager of the mine concerned by registered post ; and the third copy shall be retained by the examining authority.

## FORM - O (Continued)

### Report of the examination authority

(To be filled in for every medical examination whether initial or periodical or re-examination or after control of disability)

Annexure to certificate No

as a result of medical examination on 18/11/20

identification Mark

scar mark over forehead



Left thumb impression of the candidate

Good / Fair / Poor

#### 1. General Development

2. Height 162 cms

3. Weight 63 kg

#### 4. Eyes

(i) Visual acuity (H)

(ii) Any organic disease of eyes none

(iii) Night blindness

(iv) Color Blindness

(v) Squint

(to be tested in special cases)

Distance vision (with or without glasses)

#### 5. Ears

(i) Hearing Right ear (H)

Left ear (H)

(ii) Any organic disease

none

#### 6. Respiratory system (Chest measurement):

(i) After full inspiration 99 cms

(ii) After full expiration 90 cms

#### 7. Circulatory system

(i) Blood Pressure 124/76 mm Hg