

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/C11

By Mail

Date: 29.05.2021

To,

The Director(M),

Ministry of Environment, Forests & Climate Change

Indira Paryavaran Bhavan, JOR Bagh Road,

Near JOR bagh Metro station

New Delhi 110003

Sub: Environmental Clearance Compliance report of Mangrol-Tilakhera Limestone Mine. (M.L. No. 07/1997, Area 299.20 ha.)

Ref.: EC letter no. - J-11015/25/2011-IA.II (M) dated. 23rd January 2014.

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.lko-mef@nic.in, moef@nic.in, m_env@rediffmail.com, ccb.cpcb@nic.in, member-secretary@rpcb.nic.in, cpcb.bhopal@gmail.com 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.The 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.**

11015/25/ 2011 - IA. II (M) dated 23.01.2014

Period: October-2020 to March-2021

**For
Mangrol-Tilakhera Limestone Mine: 1.6 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	Expansion of Mangrol-Tilakhera Lime Stone Mine (M.L. No. 07/1997, Area 299.20 ha., Limestone 0.6 MMTPA to 1.6 MMTPA, villages- Mangrol & Tilakhera, Tehsil-Nimbahera, District-Chittorgarh, Rajasthan.	
Environment Clearance issued from MOEF, New Delhi vide Letter No. J-11015/25/2011 – IA. II (M) dated 23.01.2014		

S. No.	Detail of Conditions	Compliance Status
Specific Conditions		
(i)	The mining activity will not commence unless the NOC from the Gram Panchayat for grazing land has been obtained.	<p>Complying with.</p> <p>Mining Lease was initially executed on 09.05.1978 and it was renewed (First renewal) from 09.05.1998. NOC from the Gram Panchayat will be obtained before the start of mining activities in that area. However, the acquiring is under process. Till date no grazing land was required for any mining activities.</p>
(ii)	The lands which are not owned by Proponent, mining will be carried out only after obtaining the consents from all the concerned land owners as per the provisions of the Mineral Concession Rules, 1960 and MMDR Act, 1957.	<p>Complying with.</p> <p>The Permission from the Rajasthan Government (Jamabandi) had been obtained to carry out mining as per the provisions of the Mineral Concession Rules, 1960 and MMDR Act, 1957.</p>
(iii)	Implementation of the Conservation Plan for Schedule I species reported in the Study area namely <i>Pavo cristatus</i> (Indian peafowl)	<p>Complying with.</p> <p>The Wildlife conservation plan has been prepared for six nos. of the following Schedule-I species found in the buffer area during the survey: -</p> <p>(a.) <i>Pavocristatus</i> (Indian Peafowl), (b.) <i>Pantherapadusfusca</i> (Indian Leopard), (c.) <i>Prionailurus rubiginosus</i> (Rusty-Spotted Cat), (d.) <i>Canis</i></p>

		<p><i>lupus pallipes</i> (Indian Wolf), (e.) <i>Varanus bengalensis</i> (Indian Monitor Lizard) & (f.) <i>Gyps indicus/Gyps bengalensis</i> (Indian Vulture)</p> <p>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.</p>																				
(vi)	<p>The proponent shall ensure implementation of Action Plan on the issues raised during the Public Hearing held on 20.12.2012.</p> <p>The proponent shall complete all the tasks as per the action plan submitted with the budgetary provisions during the public hearing.</p>	<p>Complied, Status of implementation of action plan on the issue raised during the Public hearing held on 20.12.2012 for Mangrol-Tilakhera Mine.</p> <table><tr><th>Sr.No.</th><th>Category</th><th>Nature of Work</th><th>Expenditure Rs.in Lakhs)</th></tr><tr><td>1.</td><td>Education facilities</td><td>Furniture for School, Construction of rooms & boundary wall at school, water proofing, Adoption of schools , construction of building & Anganwadi centre & boundary wall -Completed</td><td>12.80</td></tr><tr><td>2.</td><td>Medical & Health facilities</td><td>Construction of rooms for Hospitals, Medical camp for locals & nearby villages- Completed</td><td>23.18</td></tr><tr><td>3.</td><td>Infrastructure – Road Construction</td><td>Construction of Concrete Cement (C.C.) road, Construction of slab/ gitti road - Completed</td><td>81.02</td></tr><tr><td colspan="3">Total</td><td>117.0</td></tr></table>	Sr.No.	Category	Nature of Work	Expenditure Rs.in Lakhs)	1.	Education facilities	Furniture for School, Construction of rooms & boundary wall at school, water proofing, Adoption of schools , construction of building & Anganwadi centre & boundary wall -Completed	12.80	2.	Medical & Health facilities	Construction of rooms for Hospitals, Medical camp for locals & nearby villages- Completed	23.18	3.	Infrastructure – Road Construction	Construction of Concrete Cement (C.C.) road, Construction of slab/ gitti road - Completed	81.02	Total			117.0
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(v)	<p>The proponent shall ensure implementation of commitment made for Socio economic welfare measures and report shall be submitted to the</p>	<p>Complying with.</p> <p>The social economic welfare activities are being implemented by J.K. Cement Works. The amount Rs. 55,19,767/- spent in various CSR activities like community development</p>																				

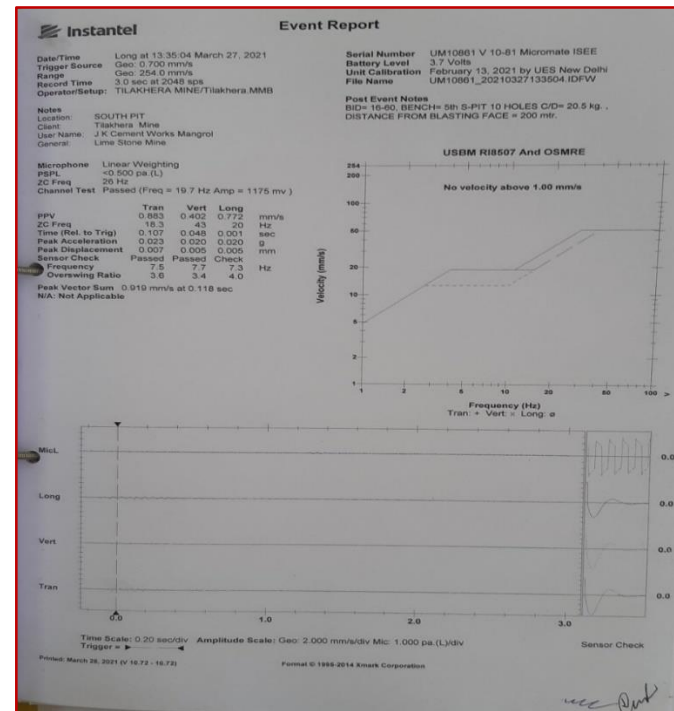
	Ministry of Environment & Forests and its Regional Office located at Lucknow on six monthly basis.	programmes, education programmes, drinking water supply and health care etc.in FY 2020-2021.
(vi)	Sufficient number of Gullies should be provided for better management of water. Regular Monitoring of PH shall be included in the monitoring plan and report shall be submitted to the Ministry of Environment & Forests and its Regional Office located at Lucknow on six monthly basis.	<p>Complied with.</p> <p>The garland drain has been constructed in the east of the subgrade dump to channelize the rainwater.</p> <p>EC Compliance Report has been submitted to the Ministry of Environment & Forests and its Regional Office at Lucknow vide letter no. MGR/PC-14/C11 Dated 26.11.2020.</p>
(vii)	Environment Clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority, as may be applicable to this project.	<p>Agreed,</p> <p>There is no Wildlife Sanctuary, National Park, within 10 Km periphery of the lease area. The same has been authenticated by Deputy Conservator of forest Chittorgarh vide letter no. AF () survey /UVS/2020-21/6048 dated 23.09.2020.</p>
(viii)	No mining activities will be allowed in forest area, if applicable, for which the Forest Clearance is not available.	<p>Agreed,</p> <p>There is no forest land involved in the lease area.</p> <p>The same has been authenticated by Deputy Conservator of forest Chittorgarh vide letter no. AF () survey /UVS/2020-21/6048 dated 23.09.2020.</p>
(ix)	The project proponent shall obtain Consent to Operate from the State Pollution Control Board, Rajasthan and effectively implement all the conditions stipulated therein.	<p>Complied with.</p> <p>The Consent to Operate and its renewal has been obtained time to time as per the procedure from Rajasthan State Pollution Control Board and all the conditions laid down in Consent to Operate has been implemented.</p> <p>The latest Consent to Operate has been obtained under Air & Water act for upgraded production Capacity-Limestone- 1.6 MMTPA vide letter no. F(Mines)/ Chittorgarh(Nimbahera) /1868(1)/2017-2018/2126-2130, dated 26.06.2017 valid till 31/05/2022.</p>


(x)	<p>The mining operations shall be restricted to above groundwater table and it shall not be intersect ground water table. For working below groundwater table, prior approval of the Ministry of Environment and Forests and Central Ground Water Authority shall be obtained, for which a detailed hydro- geological study shall be carried out.</p>	<p>Complying with.</p> <p>The detail of the elevation, ground water table and working level is given below:-</p> <table><tr><th>S. No.</th><th>Particulars</th><th>Levels (MSL)</th><th>BGL (m)</th></tr><tr><td>1.</td><td>Highest Elevation</td><td>446</td><td>--</td></tr><tr><td>2.</td><td>Lowest Elevation</td><td>454</td><td>--</td></tr><tr><td>3.</td><td>General Ground Level</td><td>430</td><td>--</td></tr><tr><td>4.</td><td>Water Table (Pre-Monsoon)</td><td>395-390</td><td>35-40</td></tr><tr><td>5.</td><td>Water Table (Post-Monsoon)</td><td>409-397</td><td>21-33</td></tr><tr><td>6.</td><td>Ultimate Pit Limit</td><td>374</td><td>56</td></tr><tr><td>7.</td><td>Present working depth pit 1</td><td>390</td><td>40</td></tr><tr><td>8.</td><td>Present working depth pit 2</td><td>390</td><td>40</td></tr></table> <p>Source: - As per approved Modified Mining Plan with PMCP dated 03.01.2019.</p> <p>Water table will be intersected in mining plan period 2022-23.</p> <p>CGWA permission for the mine seepage on account of mining intersecting the water table has been obtained from the Office of Central Ground Water Authority, Ministry of Water Resources, River Development & Ganga Rejuvenation vide letter No 21-4(34)/WR/CGWA/2005- 907 Dated 14/05/2018 and amended dated 28/05/2018. Renewal of NOC has been applied on 12.02.2020.</p>	S. No.	Particulars	Levels (MSL)	BGL (m)	1.	Highest Elevation	446	--	2.	Lowest Elevation	454	--	3.	General Ground Level	430	--	4.	Water Table (Pre-Monsoon)	395-390	35-40	5.	Water Table (Post-Monsoon)	409-397	21-33	6.	Ultimate Pit Limit	374	56	7.	Present working depth pit 1	390	40	8.	Present working depth pit 2	390	40
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(xi)	<p>Dimension of the retaining wall at the toe of overburden dumps and OB benches within the mine to check run-off and siltation shall be based on the rainfall data</p>	<p>Complied with.</p> <p>Constructed catch drains and siltation ponds at the following locations: To collect run off water from subgrade dump and waste dump, garland drain and siltation pit has been constructed. Details are given below: -</p> <table><tr><th>Garland Drain</th><th>Dimensions</th></tr><tr><td>East of Subgrade and waste dump</td><td>Length – 1015m Width – 1.0 m Depth -- 1.0 m</td></tr></table> <p>Total available rainwater in single day (considering maximum 50 mm rainfall)</p> <p>1. Subgrade dump & waste dump (area) X rainfall (m) X Runoff coefficient (20%)</p>	Garland Drain	Dimensions	East of Subgrade and waste dump	Length – 1015m Width – 1.0 m Depth -- 1.0 m																																
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	<p>218030 M² X 0.05 M X 0.20 = 2180.3 M³ and considering 50% safety margin the total capacity of siltation pond should be 4360.6 m³.</p> <p>Total rain water collection capacity of siltation pit requires = 4360.6 m³ Constructed three siltation pit with dimension as given below: -</p> <table><tr><th>Sr. No.</th><th>Length (M)</th><th>Width (M)</th><th>Depth (M)</th><th>Capacity (M³)</th></tr><tr><td>1</td><td>19</td><td>18</td><td>3</td><td>1026</td></tr><tr><td>2.</td><td>22</td><td>20</td><td>3</td><td>1320</td></tr><tr><td>3.</td><td>27</td><td>25</td><td>3</td><td>2025</td></tr><tr><td colspan="4">Total</td><td>4371</td></tr></table> <p>The storm water is being collected to garland drain from the periphery of the subgrade and the waste dump area routed to siltation pond. The collected water is being used for plantation and water sprinkling on haul road.</p>	Sr. No.	Length (M)	Width (M)	Depth (M)	Capacity (M ³)	1	19	18	3	1026	2.	22	20	3	1320	3.	27	25	3	2025	Total				4371																																																								
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(xii)	<p>Blasting operation shall be carried out only during the daytime. Controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented. Drills shall either be operated with dust extractors or equipped with water injection system. Advanced technologies for environmental protection to be used for controlled blasting.</p>	<p>Complying with.</p> <p>Blasting operation is being carried out in day time only. Use of Sequential blasting machine (SBM), Delay detonator, Non-Electric detonator for blasting and to mitigate vibration. Vibration monitoring data of period Oct-20 to Mar-21 mention below:</p> <table><tr><th>S.NO</th><th>DATE</th><th>LOCATON OF BLASTING</th><th>APPROX . DIST.OF INSTRUMENT FROM BLAST</th><th>NO OF HOLES</th><th>MAX.CHARGE PER DELAY (KGS.)</th><th>PPV MM/SEC</th><th>Safe ppv level (mm/sec)</th></tr><tr><td>1</td><td>10.10.2020</td><td>BENCH=IE ,BID=16--34</td><td>300M FROM FACE</td><td>10</td><td>29.4</td><td>1.348</td><td>10</td></tr><tr><td>2</td><td>22.10.2020</td><td>BENCH=IE ,BID=00--21</td><td>250M FROM FACE</td><td>15</td><td>26.6</td><td>2.8</td><td>10</td></tr><tr><td>3</td><td>10.11.2020</td><td>BENCH=III,BID=5-27</td><td>300M FROM FACE</td><td>4</td><td>25</td><td>1.649</td><td>10</td></tr><tr><td>4</td><td>27.11.2020</td><td>BENCH=IIIE, BID=06-29</td><td>300M FROM FACE</td><td>18</td><td>34.7</td><td>3.178</td><td>10</td></tr><tr><td>5</td><td>03.12.2020</td><td>BENCH=IE, BID=17-24</td><td>250M FROM FACE</td><td>8</td><td>28.8</td><td>2.575</td><td>10</td></tr><tr><td>6</td><td>12.12.2020</td><td>BENCH=IIIE, BID=06-30</td><td>250M FROM FACE</td><td>12</td><td>27.5</td><td>3.456</td><td>10</td></tr><tr><td>8</td><td>10.01.2021</td><td>BENCH=IIIE ,BID=14--32</td><td>250M FROM FACE</td><td>11</td><td>25.4</td><td>1.486</td><td>10</td></tr><tr><td>9</td><td>12.01.2021</td><td>BENCH=IIIE ,BID=14--34</td><td>150M FROM FACE</td><td>14</td><td>28.78</td><td>2.047</td><td>10</td></tr><tr><td>10</td><td>18.01.2021</td><td>BENCH=V,BID=15-26</td><td>150M FROM FACE</td><td>16</td><td>9.72</td><td>0.822</td><td>10</td></tr></table>	S.NO	DATE	LOCATON OF BLASTING	APPROX . DIST.OF INSTRUMENT FROM BLAST	NO OF HOLES	MAX.CHARGE PER DELAY (KGS.)	PPV MM/SEC	Safe ppv level (mm/sec)	1	10.10.2020	BENCH=IE ,BID=16--34	300M FROM FACE	10	29.4	1.348	10	2	22.10.2020	BENCH=IE ,BID=00--21	250M FROM FACE	15	26.6	2.8	10	3	10.11.2020	BENCH=III,BID=5-27	300M FROM FACE	4	25	1.649	10	4	27.11.2020	BENCH=IIIE, BID=06-29	300M FROM FACE	18	34.7	3.178	10	5	03.12.2020	BENCH=IE, BID=17-24	250M FROM FACE	8	28.8	2.575	10	6	12.12.2020	BENCH=IIIE, BID=06-30	250M FROM FACE	12	27.5	3.456	10	8	10.01.2021	BENCH=IIIE ,BID=14--32	250M FROM FACE	11	25.4	1.486	10	9	12.01.2021	BENCH=IIIE ,BID=14--34	150M FROM FACE	14	28.78	2.047	10	10	18.01.2021	BENCH=V,BID=15-26	150M FROM FACE	16	9.72	0.822	10
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12	05.02.2021	BENCH=IE,BID=15--30	150M FROM FACE	10	30	2.884	10
13	09.02.2021	BENCH=IE,BID=15-31	150M FROM FACE	11	29.54	2.04	10
14	25.02.2021	BENCH=IE, BID=16-49	300M FROM FACE	8	24.31	0.909	10
15	27.02.2021	BENCH=IE,BID=14-43	300M FROM FACE	11	22.72	0.904	10
16	02.03.2021	BENCH=IVS,BID=17-33	250M FROM FACE	6	22.23	3.484	10
17	12.03.2021	BENCH=IVS,BID=17-34	200M FROM FACE	6	23.15	3.34	10
18	22.03.2021	BENCH=IE,BID=16-57	250M FROM FACE	10	24.05	1.85	10
19	27.03.2021	BENCH=VS,BID=16-60	200M FROM FACE	10	20.5	0.919	10


Vibration monitoring report



(xiii)	Water sprinkling shouldbe increased at places loading and unloading points & transfer point to reduce fugitive emissions.	<p>Complied with.</p> <p>Regular water spraying arrangement on haul roads and on blast material before loading is practices to control of fugitive emission.</p> 																																			
(xiv)	The project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water and groundwater for the project.	<p>Complied with.</p> <p>NOC has been obtained from the Office of Central Ground Water Authority, Ministry of Water Resources, River Development & Ganga Rejuvenation vide letter No 21-4(34)/WR/CGWA/2005-907 Dated 14/05/2018 and amended dated 28/05/2018. Renewal of NOC has been applied on 12.02.2020.</p>																																			
(xv)	Vehicular emissions shall be kept under control andregularly monitored. Measures shall be taken for maintenance ofvehicles used in mining operations and in transportation of mineral. The mineral transportation shall be carried out through covered dumpers and further leading to the plant through covered conveyor belt. The vehicles carrying the mineral shall not be overloaded.	<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> <p>Vehicular Exhaust Emission Measurement data of period Oct-20 to Mar-21 mention below table:</p> <table><tr><th>Sr. No.</th><th>Tipper Registration No.</th><th>Mfg. Year</th><th>PUCC No.</th><th>Validate Upto</th></tr><tr><td>1</td><td>RJ09-GC-0028</td><td>2018</td><td>D3RJ50119214</td><td>12.06.2021</td></tr><tr><td>2</td><td>RJ09-GC-0128</td><td>2017</td><td>D3RJ50119215</td><td>12.06.2021</td></tr><tr><td>3</td><td>RJ09-GC-0228</td><td>2017</td><td>D3RJ50119216</td><td>12.06.2021</td></tr><tr><td>4</td><td>RJ09-GC-9152</td><td>2020</td><td>D3RJ50119221</td><td>12.06.2021</td></tr><tr><td>5</td><td>RJ09-GC-9153</td><td>2020</td><td>D3RJ50119222</td><td>12.06.2021</td></tr><tr><td>6</td><td>RJ09-GC-9155</td><td>2020</td><td>D3RJ50119218</td><td>12.06.2021</td></tr></table>	Sr. No.	Tipper Registration No.	Mfg. Year	PUCC No.	Validate Upto	1	RJ09-GC-0028	2018	D3RJ50119214	12.06.2021	2	RJ09-GC-0128	2017	D3RJ50119215	12.06.2021	3	RJ09-GC-0228	2017	D3RJ50119216	12.06.2021	4	RJ09-GC-9152	2020	D3RJ50119221	12.06.2021	5	RJ09-GC-9153	2020	D3RJ50119222	12.06.2021	6	RJ09-GC-9155	2020	D3RJ50119218	12.06.2021
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1	RJ09-GC-0028	2018	D3RJ50119214	12.06.2021																																	
2	RJ09-GC-0128	2017	D3RJ50119215	12.06.2021																																	
3	RJ09-GC-0228	2017	D3RJ50119216	12.06.2021																																	
4	RJ09-GC-9152	2020	D3RJ50119221	12.06.2021																																	
5	RJ09-GC-9153	2020	D3RJ50119222	12.06.2021																																	
6	RJ09-GC-9155	2020	D3RJ50119218	12.06.2021																																	

7	RJ09-GC-9156	2020	D3RJ50119220	12.06.2021
8	RJ09-GC-9198	2020	D3RJ50119219	12.06.2021
9	RJ09-GB-9928	2017	D3RJ50119313	14.06.2021
10	RJ09-GB-1928	2015	D3RJ50119217	12.06.2021
11	RJ09-GB-2528	2015	D3RJ50119204	12.06.2021
12	RJ09-GB-2728	2015	D3RJ50119205	12.06.2021
13	RJ09-GB-2828	2015	D3RJ50119206	12.06.2021
14	RJ09-GB-5028	2016	D3RJ50119211	12.06.2021
15	RJ09-GB-5828	2016	D3RJ50119212	12.06.2021
16	RJ09-GB-5928	2016	D3RJ50119213	12.06.2021
17	RJ09-GB-7828	2014	D3RJ50119208	12.06.2021
18	RJ09-GB-8328	2014	D3RJ50119207	12.06.2021
19	RJ09-GB-8628	2014	D3RJ50119209	12.06.2021
20	RJ09-GB-8928	2015	D3RJ50119210	12.06.2021
21	RJ09-GB-8428	2014	D3RJ50119223	12.06.2021
22	RJ09-GB-8528	2014	D3RJ50119224	12.06.2021
23	RJ09-GB-4828	2015	D3RJ50119226	12.06.2021

PUC Certificate

Veh No : D3RJ50119218		VALID IN ALL INDIA	
Veh No : RJ09GC9155		Photo of Vehicle	
Customer Name : ANJUM EXTRACTION PVT LTD			
Customer Mobile : 8890177878		QR Code	
Year of Regn : 18-03-2020			
Type of Vehicle : TRUCK			
Make : Ashok Leyland Ltd			
Model : 3118			
Test Date : 13-12-2020			
Time : 09:47:03 AM			
Valid UpTo : 12-06-2021			
Center Name : Guru Kripa Mobile Pollution Check Centre			
Center Address : Bandhra, Nokha			
Licence No : RJ50-05/03			
Test Result : Pass			

Flushing Cycle						
Avg		RPM Min	RPM Max	Temp		
608		1903		0		
Sr. No.	RPM Min	RPM Max	Km	HSU%	Temp	
1	580	1903	0.519	20.0	000.0	
2	580	1984	0.614	23.2	000.0	
3	580	1944	0.476	18.5	000.0	
Mean			0.536	20.6		

Prescribed Limit for Diesel vehicle	1/m(Light Absorption Co-efficient)	Hartide 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

Validity Six Months for Bharat Stage III or and one year for Bharat Stage IV/Vi vehicle

Certificate price: ₹ 100

Get Certificate renewed within the expiry date.

Seal of Testing Station Testing Station Code Authorised Signat

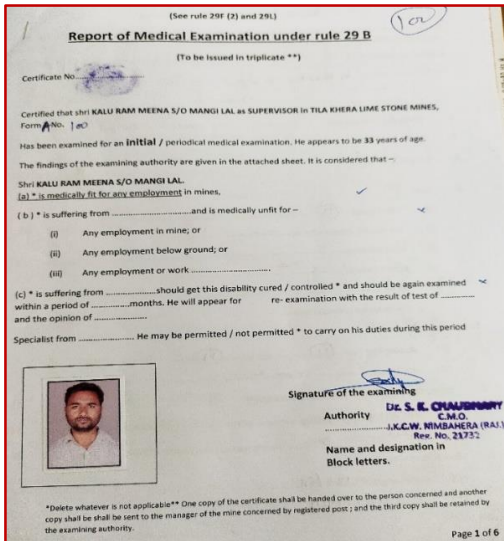
D3RJ50

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

Transport Dept. Govt. of Rajasthan Transport Dept. Govt. of Rajasthan

Veh Reg No : RJ09GC9155
PUC No. : D3RJ50119218
Valid up to : 12-06-2021
Scan QR Code to Validate

Veh Reg No : RJ09GC9155
PUC No. : D3RJ5011921
Valid up to : 12-06-2021
Scan QR Code to Validate



(xvi)	Fugitive dust emissions from all the sources shall be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.	Complied with. Regular water spraying arrangement on haul roads and on blast material before loading & dense green belt development is practices to control of fugitive emission. Along with fugitive emission monitoring carried out regularly. Monitoring report of fugitive emission of period Oct-20 to Mar-21 enclosed as Annexure-I .										
(xvii)	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. Occupational health and safety measures for workers who are having some ailments like BP,diabetes or are habitual smokers, should have health checkup once in six months.	Complying with. 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: <table border="1"><thead><tr><th>Particular</th><th>Medical Exam. Carried out (in Nos.)</th></tr></thead><tbody><tr><td>No. of persons examined</td><td>9</td></tr><tr><td>Initial Medical Examination</td><td>6</td></tr><tr><td>Periodical Medical Examination</td><td>3</td></tr><tr><td>Disease observed</td><td>NA</td></tr></tbody></table> Medical examination certificate /form 	Particular	Medical Exam. Carried out (in Nos.)	No. of persons examined	9	Initial Medical Examination	6	Periodical Medical Examination	3	Disease observed	NA
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Periodical Medical Examination	3											
Disease observed	NA											

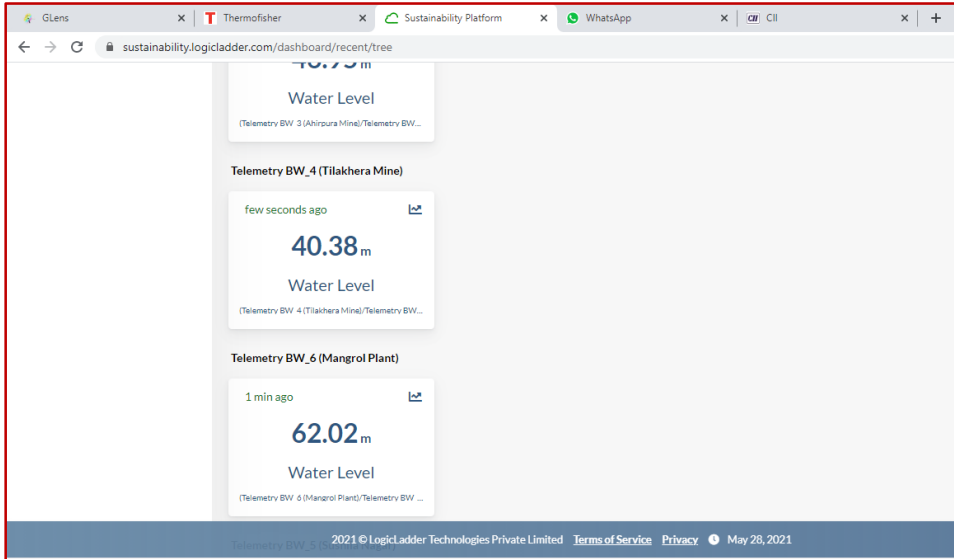
(xviii)	Environmental clearance is granted subject to final outcome of Hon'ble High Court of Rajasthan and any other Court of Law, as maybe applicable to this project.	Noted and will be complied
(B)GENERAL CONDITIONS		
(i)	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment and Forests.	Complying with. Mining is being done in accordance with Approved Modified Mining Plan.
(ii)	No change in the calendar plan including excavation, quantum of limestone mineral and waste should be made.	Complying with. Mining is being done in accordance with Approved Modified Mining Plan.
(iii)	A Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval.	Will be complied. Presently it is a working mine and will expire on 31.03.2030 and final closure plan will be submitted due course of time.
(iv)	There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis in consultation with Regional Director, Central Groundwater Board and implementation of conservation measures to augment groundwater resources in the area in consultation with Central Ground Water Board.	Complied with. To augment the water resources, rain water harvesting is done through mine pit water stored in lower most benches and one recharge well. Rain Water Harvesting through Mine Pit-1(North Pit)



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




			 <p>Rain Water Harvesting through Mine Pit-2(South Pit)</p> 
(v)	Regular monitoring of groundwater table to be carried out at the upstream and depth of water available in the dug well is to be measured. Monitoring to be done by establishing a network of	Complying with,	Regular monitoring of ground water level and quality is being carried out in and around the Mining lease area as per the Environment Management Plan of approved Mining plan by establishing a network of existing wells.

	existing wells and constructing new piezometers.	<p>We have installed 4 Nos. of piezometer holes for periodic & one DWLR (Digital water level Recorder) with telemetry system for online monitoring of ground water level.</p> <p>Screen shot of DWLR live data</p> 									
(vi)	The project proponents shall ensure that no natural water course and/or water resources shall be obstructed due to any mining operations.	<p>Complying with.</p> <p>No natural water course/ water resources are obstructed due to any mining operation.</p>									
(vii)	<p>The top soil, if any, shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation.</p> <p>The overburden (OB) generated during the mining operations shall be stacked at earmarked dump site(s) only and it should not be kept active for a long</p>	<p>Complied with.</p> <p>The top soil is being used for the plantation purpose.</p> <table border="1"> <thead> <tr> <th>No of Overburden Dump and total quantity generated at present (31.03.2021)</th><th>No of sub grade stack mineral total quantity generated at present (31.03.2021)</th><th>Height and overall slope</th></tr> </thead> <tbody> <tr> <td>No. – 03</td><td>No.- 02</td><td>45 degree</td></tr> <tr> <td>Quantity : 61,978.00 Tons</td><td>Quantity : 8,92,562.00</td><td>OB Dump – 3.7-5.98m.</td></tr> </tbody> </table>	No of Overburden Dump and total quantity generated at present (31.03.2021)	No of sub grade stack mineral total quantity generated at present (31.03.2021)	Height and overall slope	No. – 03	No.- 02	45 degree	Quantity : 61,978.00 Tons	Quantity : 8,92,562.00	OB Dump – 3.7-5.98m.
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No. – 03	No.- 02	45 degree									
Quantity : 61,978.00 Tons	Quantity : 8,92,562.00	OB Dump – 3.7-5.98m.									

	<p>period of time. The maximum height of the dumps shall not exceed 8m and width 20m and overall slope of the dumps shall be maintained to 45°. The</p> <p>OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface runoff. In critical areas, use of geo textiles shall be undertaken for stabilization of the dump. The entire excavated areashall be backfilled and afforested. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self- sustaining. Compliance status shall be submitted to the Ministry of Environment & Forests and its Regional Office located at Lucknow on six monthly basis.</p>	<p>The excavated area will be used as water storage in 52.879 Ha. No backfilling is proposed.</p> <p>Presently OB dumps are active, vegetation and geo textile will be done after the dump are inactive or dead.</p>				
(viii)	<p>Catch drains and siltation ponds of appropriate size shall be constructed around the mine working,mineral and OB dumps to prevent run off of water and flow of sediments directly into the river and other water bodies. The water so collected should be utilized for watering the mine area, roads, greenbelt developmentetc. The drains shall be regularly desilted particularly after monsoon and maintained</p>	<p>Complied with.</p> <p>Catch drains/ Garland drain to collect water and siltation ponds are in placedetails are as follows:</p> <table><tr><th>Location</th><th>Drain size</th></tr><tr><td>Garland drain (east of Sub grade stack and waste dump)</td><td>38.539 Ha</td></tr></table> <p>Total available rainwater in single day (considering 100 mm rainfall)</p>	Location	Drain size	Garland drain (east of Sub grade stack and waste dump)	38.539 Ha
Location	Drain size					
Garland drain (east of Sub grade stack and waste dump)	38.539 Ha					

	<p>properly. The drains, settling tanks and check dams of appropriate size, gradient and length shall be constructed both around the mine pit and overburden dumps to prevent runoff of water and flow of sediments directly into the 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 settling of silt material. Sedimentation pits shall be constructed at the corners of the garland drains and desilted at regular intervals.</p>	<p>1. Subgrade dump & waste dump (area) X rainfall (m)X Runoff coefficient (04%)</p> <p>$218030 \text{ M}^2 \times 0.10 \text{ M} \times .04 = 872.12 \text{ M}^3$ and considering 50% safety margin the total capacity of siltation pond should be 1744.24 m^3.</p> <p>Total rain water collection capacity of siltation pit requires = 1744.24 m^3 Constructed three siltation pit with dimension as given below: -</p> <table><tr><th>Sr. No.</th><th>Length (M)</th><th>Width (M)</th><th>Depth (M)</th><th>Capacity M3)</th></tr><tr><td>1</td><td>18</td><td>17</td><td>3</td><td>918</td></tr><tr><td>2</td><td>17</td><td>17</td><td>3</td><td>867</td></tr><tr><td colspan="4">Total</td><td>1785</td></tr></table> <p>The storm water is being collected to garland drain has been constructed around east and south side of sub grade dump 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>	Sr. No.	Length (M)	Width (M)	Depth (M)	Capacity M3)	1	18	17	3	918	2	17	17	3	867	Total				1785
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Total				1785																		
(ix)	<p>Plantation shall be raise in a 7.5m wide greenbelt in the safety zone around the mining lease, backfilled and reclaimed area, around water body, along the roads, etc. by planting the native species in consultation with the local DFO/Agriculture Department. The density of the trees should be around 2500 plants per ha. Greenbelt shall be developed all along the mine lease area in a phased manner and shall be completed within first five years.</p>	<p>Complying with,</p> <p>Total 22.31 ha. Area is covered under plantation with 51404 nos. of plants (Till 31st March'2021). Within lease area 17.31 ha. is planted with 24608 no. plants including 0.813 Ha in 7.5 m wide safety zone around the mining lease and outside lease 5 ha. area is planted with 26796 nos. of plants.</p> <p>Total 7.5 m safety zone area is 1.95 ha, out of which 0.813 ha area has been planted and remaining 1.137 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 2300 numbers/ ha against the condition of 2500 saplings /ha.</p>																				

		<p style="text-align: center;">Photographs of Dense green belt development</p> 
(x)	Regular monitoring of the flow rate of the springs and perennial nallahs flowing in and around the mine lease shall be carried out and records maintain.	There is no seasonal nala falls within mines area.
(xi)	Regular monitoring of water quality upstream and downstream of water bodies shall be carried out and record of monitoring data should be maintained and submitted to the	<p>Complying with,</p> <p>There is no water bodies within the lease area, however regular monitoring of ground and surface water quality has been carried out & report submitted at concern offices.</p>

	Ministry of Environment and Forests, its Regional Office, Lucknow, Central Groundwater Authority, Regional Director, Central Groundwater Board, State Pollution Control Board and Central Pollution Control Board.	
(xii)	Regular monitoring of ground water level and quality shall be carried out in and around the mine lease by establishing a network of existing wells and constructing new piezometers during the mining operation. The monitoring shall be carried out four times in a year pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the data thus collected may be sent regularly to Ministry of Environment and Forests, and its Regional Office, Lucknow, Central Ground Water Authority and Regional Director., Central Ground Water Board.	<p>Complying with,</p> <p>Regular monitoring of ground water level and quality is being carried out in and around the Mining lease area as per the Environment Management Plan of approved Mining plan by establishing a network of existing wells.</p> <p>We have installed 4 Nos. of piezometer holes for periodic & one DWLR (Digital water level Recorder) with telemetry system for online monitoring of ground water level.</p> <p>Latest ground water level and quality report is being submitted vide letter no. MGR/PC/14/C11/658, Dated 08.02.2021 to MOEF, Central Ground Water Authority and Regional Director Central Ground Water Board. Copy enclosed as Annexure-II</p>
(xiii)	The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna namely leopard, elephant, etc. spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and Wildlife Department. Necessary allocation of funds for	<p>Complying with.</p> <p>The Wildlife conservation plan has been prepared for six nos. of the following Schedule-I species found in the buffer area during the survey: -</p> <p>(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</i></p>

	<p>implementation of the conservation plan shall be made and the funds so allocated shall be included in the project cost. All the safeguard measures brought out in the Wildlife Conservation Plan so prepared specific to the project site shall be effectively implemented. A copy of action plan shall be submitted to the Ministry of Environment and Forests and its Regional Office, Lucknow.</p>	<p><i>indicus/Gyps bengalensis</i> (Indian Vulture)</p> <p>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.</p>
(xiv)	<p>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 maybe in the form of temporary structures to be removed after the completion of the project</p>	<p>No construction labours are engaged in Mine.</p>
(xv)	<p>Monitoring of Ambient Air Quality shall be carried out based on the Notification, as amended from time to time by the Central Pollution Control Board.</p>	<p>Complied with.</p> <p>Ambient air quality monitoring report of core & buffer zone by NABL accredited lab enclosed as Annexure-III.</p>

(xvi)	The critical parameters such as SPM, RSPM, (Particulate matter with size less than 10 micron i.e., PM10), 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	Complying with. Ambient Air Quality Monitoring data (µg/m³) of Period Oct-20 to Mar-21 mention below table:																																																																																																																																																																										
	<table><tr><th rowspan="2">Month</th><th colspan="5">Near Mine Office</th><th colspan="5">Near Ravana Office</th><th colspan="4">3 to10 Meter Distance From Drilling Operation</th><th colspan="4">Near loading point</th></tr><tr><th>PM10</th><th>PM 2.5</th><th>SO₂</th><th>NO_x</th><th>CO</th><th>PM10</th><th>PM 2.5</th><th>SO₂</th><th>NO_x</th><th>CO</th><th>SPM</th><th>SO₂</th><th>NO_x</th><th>CO</th><th>SPM</th><th>SO₂</th><th>NO_x</th><th>CO</th></tr><tr><td>Oct-20</td><td>43.3</td><td>31.6</td><td>11.0</td><td>21.4</td><td>561</td><td>50.4</td><td>39.3</td><td>12.8</td><td>22.7</td><td>596</td><td>381</td><td>14.9</td><td>22.9</td><td>538</td><td>371</td><td>13.5</td><td>23.7</td><td>653</td></tr><tr><td>Nov-20</td><td>52.4</td><td>40.3</td><td>13.4</td><td>25.7</td><td>773</td><td>69.7</td><td>36.5</td><td>18.0</td><td>25.0</td><td>808</td><td>429</td><td>19.2</td><td>27.4</td><td>567</td><td>377</td><td>16.5</td><td>28.7</td><td>876</td></tr><tr><td>Dec-20</td><td>66.2</td><td>42.2</td><td>16.5</td><td>24.6</td><td>636</td><td>77.5</td><td>49.0</td><td>15.6</td><td>25.2</td><td>773</td><td>442</td><td>18.5</td><td>26.7</td><td>699</td><td>390</td><td>18.1</td><td>27.9</td><td>905</td></tr><tr><td>Jan-21</td><td>40.7</td><td>33.1</td><td>12.0</td><td>24.4</td><td>550</td><td>53.3</td><td>32.8</td><td>16.1</td><td>24.0</td><td>739</td><td>417</td><td>18.2</td><td>26.1</td><td>745</td><td>370</td><td>14.7</td><td>27.4</td><td>670</td></tr><tr><td>Feb-21</td><td>42.5</td><td>38.5</td><td>14.8</td><td>25.7</td><td>613</td><td>50.6</td><td>31.4</td><td>17.6</td><td>26.5</td><td>699</td><td>424</td><td>20.4</td><td>29.4</td><td>785</td><td>387</td><td>16.2</td><td>28.5</td><td>705</td></tr><tr><td>Mar-21</td><td>48.7</td><td>34.4</td><td>12.7</td><td>23.1</td><td>767</td><td>51.6</td><td>30.5</td><td>13.0</td><td>23.8</td><td>842</td><td>370</td><td>14.8</td><td>24.9</td><td>816</td><td>361</td><td>13.8</td><td>23.6</td><td>802</td></tr><tr><td>AVERAGE</td><td>48.9</td><td>36.7</td><td>13.4</td><td>24.1</td><td>650</td><td>58.9</td><td>36.6</td><td>15.5</td><td>24.5</td><td>743</td><td>411</td><td>17.7</td><td>26.2</td><td>692</td><td>376</td><td>15.5</td><td>26.6</td><td>768</td></tr></table>	Month	Near Mine Office					Near Ravana Office					3 to10 Meter Distance From Drilling Operation				Near loading point				PM10	PM 2.5	SO ₂	NO _x	CO	PM10	PM 2.5	SO ₂	NO _x	CO	SPM	SO ₂	NO _x	CO	SPM	SO ₂	NO _x	CO	Oct-20	43.3	31.6	11.0	21.4	561	50.4	39.3	12.8	22.7	596	381	14.9	22.9	538	371	13.5	23.7	653	Nov-20	52.4	40.3	13.4	25.7	773	69.7	36.5	18.0	25.0	808	429	19.2	27.4	567	377	16.5	28.7	876	Dec-20	66.2	42.2	16.5	24.6	636	77.5	49.0	15.6	25.2	773	442	18.5	26.7	699	390	18.1	27.9	905	Jan-21	40.7	33.1	12.0	24.4	550	53.3	32.8	16.1	24.0	739	417	18.2	26.1	745	370	14.7	27.4	670	Feb-21	42.5	38.5	14.8	25.7	613	50.6	31.4	17.6	26.5	699	424	20.4	29.4	785	387	16.2	28.5	705	Mar-21	48.7	34.4	12.7	23.1	767	51.6	30.5	13.0	23.8	842	370	14.8	24.9	816	361	13.8	23.6	802	AVERAGE	48.9	36.7	13.4	24.1	650	58.9	36.6	15.5	24.5	743	411	17.7	26.2	692	376	15.5	26.6	768	
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(xvii)	Measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs / muffs	Complied with. Regular maintenance (including cabin) of HEMMbeing done to keep noise level within the specified limits. Ear plugs have been provided to Workers engaged in operation of HEMM etc. Ambient noise level data (in Db) of period Oct-20 to Mar-21 mention below Table: <table><tr><th rowspan="2">Month</th><th colspan="2">Near Mines 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>Oct-20</td><td>59.0</td><td>53.0</td><td>66.0</td><td>58.0</td></tr><tr><td>Nov-20</td><td>58.7</td><td>52.6</td><td>65.1</td><td>57.8</td></tr><tr><td>Dec-20</td><td>59.6</td><td>53.4</td><td>66.8</td><td>56.7</td></tr><tr><td>Jan-21</td><td>60.9</td><td>51.7</td><td>67.8</td><td>55.8</td></tr><tr><td>Feb-21</td><td>58.6</td><td>55.2</td><td>63.2</td><td>62.2</td></tr><tr><td>Mar-21</td><td>57.3</td><td>52.1</td><td>62.3</td><td>61.2</td></tr></table> Ambient noise level monitoring report carried out by NABL accredited lab enclosed as	Month	Near Mines Gate		Near Ravana Office		DAY	NIGHT	DAY	NIGHT	Oct-20	59.0	53.0	66.0	58.0	Nov-20	58.7	52.6	65.1	57.8	Dec-20	59.6	53.4	66.8	56.7	Jan-21	60.9	51.7	67.8	55.8	Feb-21	58.6	55.2	63.2	62.2	Mar-21	57.3	52.1	62.3	61.2																																																																																																																																			
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		Annexure-IV.
(xviii)	Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May, 1993 and 31 st December, 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluents.	Agreed. No industrial waste water is generated in the Mine
(xix.)	Personal working in dusty areas should wear protective respiratory devices and they should also be provided and adequate training and information on safety and health aspects	Complied with. Dust mask has been provided to persons engaged in drilling, dozing and loading. VT is being provided as required under MVT rules 1966. Regular periodic check-up of workers is being carried out.
(xx.)	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. Pre- placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly.	Complied with. Agreed, Protective respiratory devices are provided to every personal working in dusty area. Training and information on safety and health aspects is imparted. Occupational health surveillance program of the workers is being undertaken periodically. Environment awareness program have conducted time to time in plant, mines & near villages Health, Safety, Environment related awareness display, displayed at mine, plant & near villages.

		 <p>Environment Awareness Rally by J.K.ITI</p>  <p>Environment Pledge by Workmen & Employee</p>  <p>Environment Awareness Book Redemption in Govt. school Mangrol & Arniya Joshi</p>  <p>Cloth bags distribution (Say NO Plastic Bag)</p>  <p>River Cleaning during Swach Bharat Abhiyan</p>
(xxi.)	A separate environmental management cell with suitable qualified personnel should be set-up under the control of a	<p>Complied with.</p> <p>A separate environmental management cell with qualified personnel is already established & has sufficient monitoring equipment in environmental laboratory.</p>

	senior Executive, who will report directly to the Head of the Organization.																			
(xxii)	The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry and its regional Office located at Lucknow.	<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 69.59 lacs.</p> <p>Details are mention table:</p> <table> <tr> <th>S. No.</th><th>Activity</th><th>Recurring Cost per Annum (Rs. In lacs)</th></tr> <tr> <td>1.</td><td>Pollution control expenses (Others)</td><td>0.697</td></tr> <tr> <td>2.</td><td>Pollution control expenses (Statutory)</td><td>3.193</td></tr> <tr> <td>3.</td><td>Gardening Expenses</td><td>10.5</td></tr> <tr> <td>4.</td><td>CSR Expenses</td><td>55.1977</td></tr> <tr> <td colspan="2">Total (Rs.)</td><td>69.59</td></tr> </table>	S. No.	Activity	Recurring Cost per Annum (Rs. In lacs)	1.	Pollution control expenses (Others)	0.697	2.	Pollution control expenses (Statutory)	3.193	3.	Gardening Expenses	10.5	4.	CSR Expenses	55.1977	Total (Rs.)		69.59
S. No.	Activity	Recurring Cost per Annum (Rs. In lacs)																		
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3.	Gardening Expenses	10.5																		
4.	CSR Expenses	55.1977																		
Total (Rs.)		69.59																		
(xxiii)	The project authorities should inform to the Regional Office located at Lucknow regarding date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work.	Complied.																		
(xxiv)	The Regional Office of this Ministry located at Lucknow shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data /information/monitoring reports	Noted & full cooperation is /will be extended to the officer (s) of the Regional Office by furnishing the requisite data/information/monitoring reports will be given.																		
(xxv)	The project proponent shall submit six monthly reports on the status of the implementation of the stipulated	Complying with.																		

	environmental safeguard to the Ministry of Environment and Forests, its Regional Office ,Lucknow , Central Pollution Control Board.	Six monthly reports are being submitted to all concern offices as given in clearance letter. Latest Six Monthly Monitoring report sent to RO & HO, MoEF&CC Lucknow, vide letter no. MGR/PC-14/C11, dated 26.11.2020.
(xxvi)	A copy of clearance letter will be marked to concerned Panchayat / local NGO , if any, from whom suggestion / representation has been received while processing the proposal.	Complied.
(xxvii)	State Pollution Control Board should display a copyof the clearance letter at the Regional office, District Industry Centre and Collector's office/ Tehsildar's Office for 30 days.	Complied.
(xxviii)	The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at web site of the Ministry of Environment and Forest at http://envfor.nic.in and a copy of the same should be forwarded to the Regional Office of this Ministry located Lucknow.	Implemented & the necessary information already sent to the concerned authority

Shrachi Center (5th Floor)
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CIN: U51909WB1956PTC023037

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F: 91 33 22650008
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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/2020-21/1729**Date : 07.01.2021****Sample No. : MSKGL/ED/2020-21/12/01659****Sample Description : Fugitive Air****Sampling Location : 3-10 Meter Distance from Drilling
Operation (Tilakhera 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 $\mu\text{g}/\text{m}^3$	345	IS 5182 (Part-4) - 1999
2	Sulphur dioxide(SO ₂) in $\mu\text{g}/\text{m}^3$	9.1	IS: 5182 (Part-2)-2001
3	Nitrogen dioxide (NO _x) in $\mu\text{g}/\text{m}^3$	30.9	IS: 5182 (Part- 6)-2006
4	Carbon monoxide(CO) in mg/m^3	0.56	IS 5182 :(Part-10) :1999

Checked 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/2020-21/1730

Date : 07.01.2021

Sample No. : MSKGL/ED/2020-21/12/01660

Sample Description : Fugitive Air

Sampling Location : Near Loading Point (Tilakhera 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 $\mu\text{g}/\text{m}^3$	342	IS 5182 (Part-4) - 1999
2	Sulphur dioxide(SO ₂) in $\mu\text{g}/\text{m}^3$	11.2	IS: 5182 (Part-2)-2001
3	Nitrogen dioxide (NO _x) in $\mu\text{g}/\text{m}^3$	28.5	IS: 5182 (Part- 6)-2006
4	Carbon monoxide(CO) in mg/m^3	0.62	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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Kolkata - 700 016, West Bengal India
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TEST REPORT

Name & Address of the Customer :

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

Report No. : MSK/UDR/2020-21/2155

Date : 19.03.2021

Sample No. : MSKGL/ED/2020-21/03/00181

Sample Description : Fugitive Air

Sampling Location : 3-10 Meter Distance from Drilling
Operation (Tilakhera 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 $\mu\text{g}/\text{m}^3$	355	IS 5182 (Part-4) - 1999
2	Sulphur dioxide(SO ₂) in $\mu\text{g}/\text{m}^3$	10.0	IS: 5182 (Part-2)-2001
3	Nitrogen dioxide (NO _x) in $\mu\text{g}/\text{m}^3$	18.0	IS: 5182 (Part- 6)-2006
4	Carbon monoxide(CO) in mg/m^3	0.66	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, Mangrol
Distt. Chittorgarh (Raj.)

Report No. : MSK/UDR/2020-21/2156

Date : 19.03.2021

Sample No. : MSKGL/ED/2020-21/03/00182

Sample Description : Fugitive Air

Sampling Location : Near Loading Point (Tilakhera Mine)

Date of Sampling : 13.02.2021

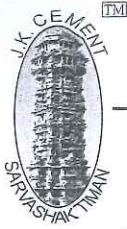
Reference No.& Date : e-mail dtd: 23.04.2019

ANALYSIS RESULT

SL. NO.	Pollutants	Result	Method of Test Reference
1	Suspended Particulate Matter (SPM) in $\mu\text{g}/\text{m}^3$	390	IS 5182 (Part-4) - 1999
2	Sulphur dioxide(SO ₂) in $\mu\text{g}/\text{m}^3$	12.0	IS: 5182 (Part-2)-2001
3	Nitrogen dioxide (NO _x) in $\mu\text{g}/\text{m}^3$	25.0	IS: 5182 (Part- 6)-2006
4	Carbon monoxide(CO) in mg/m^3	0.68	IS 5182 :(Part-10) :1999

Checked By

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



JK Cement LTD.

CIN : L17229UP1994PLC017199

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

MGR/PC/14/C11/ 658

Regd.AD.

Date: 08.02.2021

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

To,
The Additional Director
 Indira Paryavaran Bhavan,
 JOR Bagh Road,
 Near JOR bagh Metro station
 New Delhi 110003

Subject: Compliance to General condition No. B (XII) of Environmental Clearance.

Dear Sir,

Kindly refer Environmental Clearance letter no. J – 11015/25/2011/IA. II (M) dated. 23rd January 2014 of our **Tilakhera Lime Stone Mine**. We are enclosing herewith ground water level & water quality data of winter (January' 2021) in response to the Clearance General Condition No. B (XII) 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, 5th 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



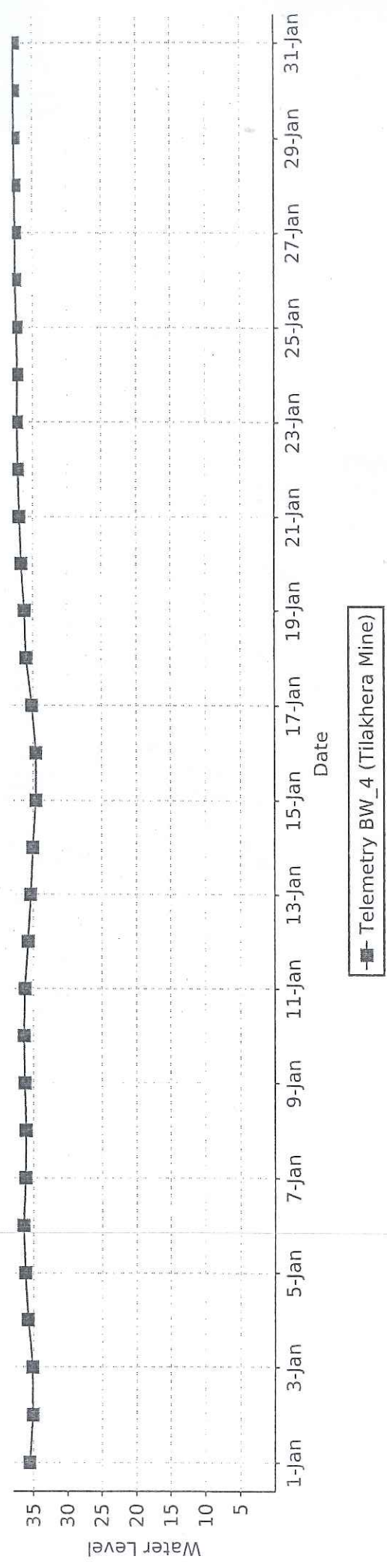
JK Cement Works

Generated On	2021-02-06 17:47:31	Generated By	Sunil Singh
Period	2021-01-01 00:00:00 - 2021-01-31 17:41:00	Station Type	GROUND WATER
Stations	Telemetry BW_4 (Tilakhera Mine)	Parameters	Water Level

S.No.	Time	Telemetry BW_4 (Tilakhera Mine) Water Level (m)(avg)
1	2021-01-01 00:00:00:000	35.54
2	2021-01-02 00:00:00:000	35.09
3	2021-01-03 00:00:00:000	35.15
4	2021-01-04 00:00:00:000	35.81
5	2021-01-05 00:00:00:000	36.21
6	2021-01-06 00:00:00:000	36.48
7	2021-01-07 00:00:00:000	36.18
8	2021-01-08 00:00:00:000	36.11
9	2021-01-09 00:00:00:000	36.28
10	2021-01-10 00:00:00:000	36.36
11	2021-01-11 00:00:00:000	36.22
12	2021-01-12 00:00:00:000	35.76
13	2021-01-13 00:00:00:000	35.38
14	2021-01-14 00:00:00:000	35.07
15	2021-01-15 00:00:00:000	34.57
16	2021-01-16 00:00:00:000	34.57
17	2021-01-17 00:00:00:000	35.17
18	2021-01-18 00:00:00:000	35.99
19	2021-01-19 00:00:00:000	36.22
20	2021-01-20 00:00:00:000	36.69
21	2021-01-21 00:00:00:000	36.96

S.No.	Time	Telemetry BW_4 (Tilakhera Mine) Water Level (m)
22	2021-01-22 00:00:00:000	37.16
23	2021-01-23 00:00:00:000	37.3
24	2021-01-24 00:00:00:000	37.25
25	2021-01-25 00:00:00:000	37.37
26	2021-01-26 00:00:00:000	37.53
27	2021-01-27 00:00:00:000	37.55
28	2021-01-28 00:00:00:000	37.62
29	2021-01-29 00:00:00:000	37.72
30	2021-01-30 00:00:00:000	37.75
31	2021-01-31 00:00:00:000	37.75

Telemetry BW_4 (Tilakhera Mine)-Water Level Chart



Mitra S.K. Private Limited

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TEST REPORT

Name & Address of the Customer :

J.K. Cement Works, Mangrol

C/o Kailash Nagar - 312617

Mangrol - Dist. Chittorgarh (Raj.)

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

Report No. : MSK/UDR/2020-21/1899

Date : 31.01.2021

Sample No. : MSKGL/ED/2020-21/01/00603

Sample Description : Ground Water from Tube well

Sample Mark : Tilakhera 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	7.18
2.	Conductivity at 25°C in $\mu\text{mhos/cm}$	---	---	IS 3025 (Part 14)- 2013	972
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	630
7.	Total Suspended Solids in mg/l	---	---	IS 3025 (Part 24)-1986; Rffm:2009	<2.5
8.	Total Hardness as CaCO_3 in mg/l	200	600	IS 3025 (Part 21)-2013	300
9.	Calcium as Ca in mg/l	75	200	IS 3025 (Part 40)- 1991 Rffm: 2009	96
10.	Magnesium as Mg in mg/l	30	100	IS 3025 (Part 46)-1994 Rffm: 2009	14
11.	Total Alkalinity as CaCO_3 in mg/l	200	600	IS 3025 (Part 23)- 1986 Rffm: 2009	384
12.	Chloride as Cl in mg/l	250	1000	IS 3025 (Part 32)-1988 Rffm: 2009	64
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	0.53
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. Private Ltd.

Authorized Signatory

TEST REPORT**Name & Address of the Customer :**

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

Report No. : MSK/UDR/2020-21/1707**Date : 07.01.2021****Sample No. : MSKGL/ED/2020-21/12/01637****Sample Description : Ambient Air****Sampling Location : Near Mine Office (Tilakhera Mine)****Date of Sampling : 10/11.12.2020****Reference No.& Date : e-mail dtd:23.04.2019****ANALYSIS RESULT**

SL. NO.	Pollutants	Limit	Result	Method of Test Reference
1	Particulate matter (PM ₁₀) in µg/m ³	100	78	IS: 5182:(Part-23)-2006
2	Particulate matter(PM _{2.5}) in µg/m ³	60	50	TPM/MSK/ENV (AP) /01/03
3	Sulphur dioxide(SO ₂) in µg/m ³	80	8.1	IS: 5182 (Part-2)-2001
4	Nitrogen dioxide (NO ₂) in µg/m ³	80	25.9	IS: 5182 (Part- 6)-2006
5	Carbon monoxide(CO) in mg/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

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/2020-21/1708

Date : 07.01.2021

Sample No. : MSKGL/ED/2020-21/12/01638

Sample Description : Ambient Air

Sampling Location : Near Ravana Office (Tilakhera Mine)

Date of Sampling : 10/11.12.2020

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

ANALYSIS RESULT

SL. NO.	Pollutants	Limit	Result	Method of Test Reference
1	Particulate matter (PM ₁₀) in $\mu\text{g}/\text{m}^3$	100	92	IS: 5182:(Part-23)-2006
2	Particulate matter(PM _{2.5}) in $\mu\text{g}/\text{m}^3$	60	58	TPM/MSK/ENV (AP) /01/03
3	Sulphur dioxide(SO ₂) in $\mu\text{g}/\text{m}^3$	80	9.2	IS: 5182 (Part-2)-2001
4	Nitrogen dioxide (NO ₂) in $\mu\text{g}/\text{m}^3$	80	29.4	IS: 5182 (Part- 6)-2006
5	Carbon monoxide(CO) in mg/m^3	2	0.88	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/2020-21/1709

Date : 07.01.2021

Sample No. : MSKGL/ED/2020-21/12/01639

Sample Description : Ambient Air

Sampling Location : Arnia Joshi Village (Tilakhera Mine)

Date of Sampling : 10/11.12.2020

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

ANALYSIS RESULT

SL. NO.	Pollutants	Limit	Result	Method of Test Reference
1	Particulate matter (PM ₁₀) in $\mu\text{g}/\text{m}^3$	100	74	IS: 5182:(Part-23)-2006
2	Particulate matter(PM _{2.5}) in $\mu\text{g}/\text{m}^3$	60	43	TPM/MSK/ENV (AP) /01/03
3	Sulphur dioxide(SO ₂) in $\mu\text{g}/\text{m}^3$	80	7.2	IS: 5182 (Part-2)-2001
4	Nitrogen dioxide (NO ₂) in $\mu\text{g}/\text{m}^3$	80	28.1	IS: 5182 (Part- 6)-2006
5	Carbon monoxide(CO) in mg/m^3	2	0.55	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/2020-21/1710

Date : 07.01.2021

Sample No. : MSKGL/ED/2020-21/12/01640

Sample Description : Ambient Air

Sampling Location : Near Shahbad (Tilakhera Mine)

Date of Sampling : 10/11.12.2020

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

ANALYSIS RESULT

SL. NO.	Pollutants	Limit	Result	Method of Test Reference
1	Particulate matter (PM ₁₀) in $\mu\text{g}/\text{m}^3$	100	80	IS: 5182:(Part-23)-2006
2	Particulate matter(PM _{2.5}) in $\mu\text{g}/\text{m}^3$	60	49	TPM/MSK/ENV (AP) /01/03
3	Sulphur dioxide(SO ₂) in $\mu\text{g}/\text{m}^3$	80	8.1	IS: 5182 (Part-2)-2001
4	Nitrogen dioxide (NO ₂) in $\mu\text{g}/\text{m}^3$	80	31.5	IS: 5182 (Part- 6)-2006
5	Carbon monoxide(CO) in mg/m^3	2	0.52	IS 5182 :(Part-10) :1999

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


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TEST REPORT

Name & Address of the Customer :

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

Report No. : MSK/UDR/2020-21/2141

Date : 19.03.2021

Sample No. : MSKGL/ED/2020-21/03/00135

Sample Description : Ambient Air

Sampling Location : Near Mine Office, Tilakhera Mine

Date of Sampling : 12/13.02.2021

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 ₁₀) in $\mu\text{g}/\text{m}^3$	100	62.0	IS: 5182:(Part-23)-2006
2	Particulate matter(PM _{2.5}) in $\mu\text{g}/\text{m}^3$	60	32.2	TPM/MSK/ENV(AP)/01/03
3	Sulphur dioxide(SO ₂) in $\mu\text{g}/\text{m}^3$	80	7.4	IS: 5182 (Part-2)-2001
4	Nitrogen dioxide (NO ₂) in $\mu\text{g}/\text{m}^3$	80	22.0	IS: 5182 (Part- 6)-2006
5	Carbon monoxide(CO) in mg/m^3	2	0.92	IS 5182 :(Part-10) :1999
6	Ozone (O ₃) in $\mu\text{g}/\text{m}^3$	180	<20.0	TPM/MSK/ENV(AP)/01/07
7	Ammonia (NH ₃) 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 ng/m^3	20	<5.0	EPA-IO 3.4
10	Arsenic (As) in ng/m^3	6	<1.0	EPA-IO 3.4
11	Benzene (C ₆ H ₆) in $\mu\text{g}/\text{m}^3$	5	<4.2	IS 5182 : Part. 11 : 2006
12	Benzo(a) pyrene (BaP) in ng/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

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TEST REPORT

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Report No. : MSK/UDR/2020-21/2142

Date : 19.03.2021

Sample No. : MSKGL/ED/2020-21/03/00136

Sample Description : Ambient Air

Sampling Location : Near Ravana Office, Tilakhera Mine

Date of Sampling : 12/13.02.2021

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

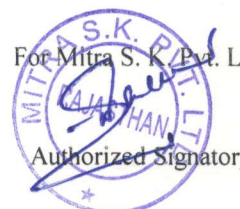
AMBIENT AIR QUALITY MONITORING REPORT

SL. NO.	Pollutants	Limit	Result	Method of Test Reference
1	Particulate matter (PM ₁₀) in $\mu\text{g}/\text{m}^3$	100	73.8	IS: 5182:(Part-23)-2006
2	Particulate matter(PM _{2.5}) in $\mu\text{g}/\text{m}^3$	60	42.1	TPM/MSK/ENV(AP)/01/03
3	Sulphur dioxide(SO ₂) in $\mu\text{g}/\text{m}^3$	80	6.9	IS: 5182 (Part-2)-2001
4	Nitrogen dioxide (NO ₂) in $\mu\text{g}/\text{m}^3$	80	20.0	IS: 5182 (Part- 6)-2006
5	Carbon monoxide(CO) in mg/m^3	2	0.78	IS 5182 :(Part-10) :1999
6	Ozone (O ₃) in $\mu\text{g}/\text{m}^3$	180	<20.0	TPM/MSK/ENV(AP)/01/07
7	Ammonia (NH ₃) in $\mu\text{g}/\text{m}^3$	400	15.0	TPM/MSK/ENV(AP)/01/08
8	Lead (Pb) in $\mu\text{g}/\text{m}^3$	1	0.02	EPA-IO 3.4
9	Nickel (Ni) in ng/m^3	20	<5.0	EPA-IO 3.4
10	Arsenic (As) in ng/m^3	6	<1.0	EPA-IO 3.4
11	Benzene (C ₆ H ₆) in $\mu\text{g}/\text{m}^3$	5	<4.2	IS 5182 : Part. 11 : 2006
12	Benzo(a) pyrene (BaP) in ng/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

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Report No. : MSK/UDR/2020-21/2143

Date : 19.03.2021

Sample No. : MSKGL/ED/2020-21/03/00137

Sample Description : Ambient Air

Sampling Location : Arnia Joshi Village, Tilakhera Mine

Date of Sampling : 12/13.02.2021

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 ₁₀) in $\mu\text{g}/\text{m}^3$	100	60.6	IS: 5182:(Part-23)-2006
2	Particulate matter (PM _{2.5}) in $\mu\text{g}/\text{m}^3$	60	37.0	TPM/MSK/ENV(AP)/01/03
3	Sulphur dioxide (SO ₂) in $\mu\text{g}/\text{m}^3$	80	7.4	IS: 5182 (Part-2)-2001
4	Nitrogen dioxide (NO ₂) in $\mu\text{g}/\text{m}^3$	80	33.0	IS: 5182 (Part- 6)-2006
5	Carbon monoxide (CO) in mg/m^3	2	0.38	IS 5182 : (Part-10) :1999
6	Ozone (O ₃) in $\mu\text{g}/\text{m}^3$	180	<20.0	TPM/MSK/ENV(AP)/01/07
7	Ammonia (NH ₃) in $\mu\text{g}/\text{m}^3$	400	17.0	TPM/MSK/ENV(AP)/01/08
8	Lead (Pb) in $\mu\text{g}/\text{m}^3$	1	0.02	EPA-IO 3.4
9	Nickel (Ni) in ng/m^3	20	<5.0	EPA-IO 3.4
10	Arsenic (As) in ng/m^3	6	<1.0	EPA-IO 3.4
11	Benzene (C ₆ H ₆) in $\mu\text{g}/\text{m}^3$	5	<4.2	IS 5182 : Part. 11 : 2006
12	Benzo(a) pyrene (BaP) in ng/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.
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TEST REPORT

Name & Address of the Customer :

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Report No. : MSK/UDR/2020-21/2144

Date : 19.03.2021

Sample No. : MSKGL/ED/2020-21/03/00138

Sample Description : Ambient Air

Sampling Location : Shahbad, Tilakhera Mine

Date of Sampling : 12/13.02.2021

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 ₁₀) in µg/m ³	100	69.5	IS: 5182:(Part-23)-2006
2	Particulate matter (PM _{2.5}) in µg/m ³	60	36.4	TPM/MSK/ENV(AP)/01/03
3	Sulphur dioxide (SO ₂) in µg/m ³	80	6.9	IS: 5182 (Part-2)-2001
4	Nitrogen dioxide (NO ₂) in µg/m ³	80	23.0	IS: 5182 (Part-6)-2006
5	Carbon monoxide (CO) in mg/m ³	2	0.64	IS 5182 : (Part-10) : 1999
6	Ozone (O ₃) in µg/m ³	180	<20.0	TPM/MSK/ENV(AP)/01/07
7	Ammonia (NH ₃) in µg/m ³	400	12.0	TPM/MSK/ENV(AP)/01/08
8	Lead (Pb) in µg/m ³	1	0.03	EPA-IO 3.4
9	Nickel (Ni) in ng/m ³	20	<5.0	EPA-IO 3.4
10	Arsenic (As) in ng/m ³	6	<1.0	EPA-IO 3.4
11	Benzene (C ₆ H ₆) in µg/m ³	5	<4.2	IS 5182 : Part. 11 : 2006
12	Benzo(a) pyrene (BaP) in ng/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:

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TEST REPORT

Name & Address of the Customer :

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Distt. Chittorgarh (Raj.)

Report No. : MSK/UDR/2020-21/1739

Date : 07.01.2021

Sample No. : MSKGL/ED/2020-21/12/01669 & 1670

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.	10/11.12.2020	Near Mine Office (Tilakhera Mine)	60.1	44.1
2.		Near Ravana Office (Tilakhera Mine)	58.6	41.2
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



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TEST REPORT

Name & Address of the Customer :

J.K. Cement Works, Mangrol

Distt. Chittorgarh (Raj.)

Report No. : MSK/UDR/2020-21/2168

Date : 19.03.2021

Sample No. : MSKGL/ED/2020-21/03/00206 & 00207

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.	12/13.02.2021	Near Mine Office (Tilakhera Mine)	59.5	42.3
2.		Near Ravana Office (Tilakhera Mine)	56.9	40.4
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



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