

CIN : L17229UP1994PLC017199
ISO 9001:2008, ISO 14001:2004 \& OHSAS 18001: 2007 CERTIFIED COMPANY
Our Ref. No.: NBH/PC-14/ 3586
Date: 28.11.2018
To,
The Additional Director
Indira Paryavaran Bhavan, JOR Bagh Road, Near JOR bagh Metro station New Delhi

Sub: Environmental Clearance Compliance report of Karunda Limestone Mine.
Dear Sir,
Kindly refer Environmental Clearance letter No. J-11015/428/2008-IA.II (M) Dated 06 August 2010 of our Karunda Mine.

We are enclosing herewith compliance report of Environmental Clearance conditions along with Environment Monitoring Data (Core zone as well as Buffer zone) from the month of April' 2018 to September' 2018 in hard copy as well as mail as soft copy for your kind reference and record. We trust you will find the same in order.

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

S.K. Acharya
(Technical Head)

## Encl : a/a <br> Copy to:

The Director, Ministry of Environment, Forests \& Climate Change, Regional office (Central Region), Kendriya Bhawan, 5th Floor, Sector 'H', ALIGANJ, LUCKNOW- 226020 (U.P.)
The Chairman, Central Pollution Control Board ,Parivesh Bhawan, CBD-CUM office complex, East Arjun Nagar, Maharaja Surajmal Marg, Vishwas Nagar Extension, Viswas nagar Shahdara- Behind Karkarduma high court New Delhi 11032
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 (RAJ, Dated 28.11.2018 <br> Compliance report of Environment Clearance for Karunda Lime Stone Mine  <br> (For the Period from April 2018 to September 2018)  <br> Reference Letter from MOEF, New Delhi - J-11015/428/2008-IA.II (M) Dated 06.08.2010  |  |  |
| :---: | :---: | :---: |
| S. No. | Condition | Status |
|  | (A) Specific Conditions |  |
| (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. | Consent to establish has been obtained under Air \& Water act for upgraded production capacity (1.09 MMTPA to 2.0 MMTPA) on date 27.01.2011. Consent to operate has been obtained under air \& water act for upgraded production capacity (1.09 MMTPA to 2.0 MMTPA) vide letter no. F(Mines)/Chittorgarh (Nimbahera)/1869(1)/2017-2018/ 2141 - 2145 dated 20.06.2017 ( for 5 years). |
| (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. | Agreed. |
| (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. | 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. |
| (iv) | Necessary prior permission from the Competent Authority as may be applicable for use of grazing land for mining purpose shall be obtained. | Mining lease was initially executed on 13.12 .1984 and it was renewed (First renewal) from 13.12.2004. Approval for Grazing land used for Mining has been taken. |
| (v) | The project proponent shall develop fodder plots in the non-mineralized area in lieu of use of grazing land. | Mining lease was initially executed on 13.12 .1984 and it was renewed (First renewal) from 13.12.2004. |
| (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. | Agreed. We have obtained permission for mining below water table vide letter no. 21-4(286) WR/CGWA/2008-813 dtd. 17.05.2016 from CGWA, New Delhi. However presently we are not working below the ground water table. |
| (vii) | The project proponent shall ensure that no natural watercourse and/or water resources are obstructed due to any mining operations. Adequate measures shall be taken for protection of the seasonal nallah passing through the mine lease and also the Murlia dam reported adjacent to mine lease $(0.1 \mathrm{~km})$ during the course of mining operation. | Agreed. No natural water course and / or water resources will be obstructed due to any mining operation. |
| (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. | Agreed and being used for plantation or temporary stored at earmarked site. |
| (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. | No waste is generated during the course of Mining activity. Only top black cotton soil and interstitial clay is generated which is stacked at designated places, levelled and plantation is done over it. |
| (x) | The void left unfilled in the entire excavated area of 115 ha. 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 | Agreed. Presently it is an operative mine. Once the mineral reserves mined out, it will work as water reservoir. |


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|  | consultation with the State Pollution Control ธoard. | 15 mts. from the boundary of the catchment area and nallah connecting to Murlia dam. There is no disturbance and obstruction due to Mining activity. |
| :---: | :---: | :---: |
| (xviii) | The project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of ground water required for the project. | We have obtained NOC for drawl of groundwater from CGWA vide letter no. 21 - 4(286) WR / CGWA /2008/1676 dated 28.10.2015. Renewal application is already submitted vide letter no. MGR/PC/23/2562 dated 16.10.2017. |
| (xix) | Suitable rainwater harvesting measures on long term basis shall be planned and implemented in consultation with the Regional Director, Central Ground Water Board. | Agreed. 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. | Tippers engaged in the Mines are regularly checked once in six months for vehicular emissions and are kept under permissible limits. The tippers are not loaded above the rated capacity. Copy of PUC is enclosed as annexure-(I) |
| (xxi) | Controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented. | Use of Sequential blasting machine (SBM), Delay detonator, NonElectric detonator. Regular monitoring of Ground vibration is being practiced. Rock breaker is used to minimize secondary blasting. |
| (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. | Agreed. Controlled blasting is done by use of Sequential blasting machine (SBM), Delay detonator, Non-Electric detonator and use of air deck to reduce charge per hole and vibration. |
| (xxiii) | Drills shall either be operated with dust extractors or equipped with waster injection system. | Water injection system is fitted with drill machine 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. | Regular water spraying by deploying water tanker is done in 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. | Sewage treatment plant is already installed in the colony for Nimbahera plant \& mines. No waste water generating during mining operation. Generated waste water from workshop is collected in pit and use in dust suppression in coal yard. |
| (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. | Regular initial medical examination and periodical medical examination is being carried out. During the year 2018-19 (upto sept.), 04 nos. of Initial and 04 nos. of periodical medical examination were done. |
| (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. | Agreed, We have submitted report of digital processing of the entire lease area on 29.03.2017 vide letter no. MGR/PC/14/052. |
| (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. | No construction labours are engaged in Mine. |
| (xxix) | The critical parameters such as RSPM (Particulate matter with size less than 10 micron i.e. $\mathrm{PM}_{10}$ ) and $\mathrm{NO}_{\mathrm{x}}$ in the ambient air within the impact zone, peak particle velocity at 300 m distance or within the nearest habitation, whichever is closer shall be monitored periodically. Further, quality of discharged water shall also be monitored [(TDS, DO, PH and Total Suspended Solids (TSS)]. | Agreed, These critical parameter are measured periodically during ambient air monitoring. No waste water is generating during mining operation. RSPM, Nox and Peak particle velocity monitoring report is enclosed as annexure- (II) |


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| (x) | A separate environmental management celı with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization. | A separate environmental management cell with qualified personnel is already established \& has sufficient monitoring equipment in environmental laboratory. |
| :---: | :---: | :---: |
| (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. | A separate fund is kept for environment protection measures and report is being sent regularly to the concerned authority. <br> Environment expenditure for 2017-2018 and Proposed FY Budget 2018-2019 detail is already submitted vide letter no. $\mathrm{NBH} / \mathrm{PC} / 14 / 1010$ dated 29.05.2018. |
| (xii) | The project authorities should be inform to the Regional Office located at Lucknow regarding data of financial closures and final approval of the project by the concerned authorities and the date of start of land development work. | Agreed |
| (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. | We 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. | Agreed. Six monthly reports are already submitting to concern offices as given in previous clearance letter. Last Six Monthly Monitoring report was sent on 29.05.2018 vide letter no. NBH/PC/14/1010. |
| (xv) | A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad, 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. | Implemented. |
| (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 $31^{\text {st }}$ March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the Regional Office of the Ministry of Environment and Forests, Lucknow by e-mail. | Complying with, The Environment statement report of FY 2017-18 has submitted vide letter no .NBH-PC-13/2745, Date: 26.09.2018. |
| (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 http://envfor.nic.in 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. |

## J.K.CEMENT WORKS, NIMBAHERA KARUNDA LIMESTONE MINES PUCC OF PRODUCTION TIPPERS.

Date:- 28.10.2018


P.K Ameta

Sr.Manager (Mines)

## KARUNDA LIMESTONE MINES

Blast Vibration Summary List

| Sr. No. | Date | Locaton of Blasting |  | Vibration measured from blasting face(Distance in Mtrs.) | No. of Holes | Charge/ Delay(K | Peak vector sum $(\mathrm{mm} / \mathrm{sec}$.) | Accessories used in blasting |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Bench | B.Id. |  |  |  |  |  |
| 2 | 22.04.2018 | III,S-Pit | 12--6 | 300M Back side of blast face | 10 | 33.5 | 2.76 | DTH \& TLD |
| 3 | 29.04.2018 | IIII,S-Pit | 11--3 | 300M Back side of blast face | 18 | 29.27 | 1.41 | DTH \& TLD |
| 4 | 07.05.2018 | III,N-Pit | 12--17 | 300M Back side of blast face | 16 | 42.7 | 1.58 | DTH \& TLD |
| 5 | 24.05.2018 | IIIE,N-Pit | 12--22 | 30 | 24 | 28.54 | 1.76 | DTH \& TLD |
| 6 | 02.06.2018 | IIIE,N-Pit | 13-14 | 300M Back | 21 | 33.42 | 1.93 | DTH \& TLD |
| 7 | 14.06.2018 | IIIW,S-Pit | 12--28 | 300M Back side of | 11 | 34.27 | 1.22 | DTH \& TLD |
| 8 | 28.06.2018 | IIS,S-Pit | 8--3 | 300M Back side of blast face | 10 | 38.33 | 2.31 | DTH \& TLD |
| 9 | 08.07.2018 | IIE,N-Pit | 13-24 | 300M Back side of blast face | 21 | 34.12 | 2.43 | DTH \& TLD |
| 10 | 27.07.2018 | I-W,S-Pit | 9-5 | 300M Back side of blast fac | 16 | 24.65 | 2.21 | DTH \& TLD |
| 11 | 10.08.2018 | IIW, S-Pit | 9-9 | 300M Back side of blast face | 16 | 28.82 | 1.69 | DTH \& TLD |
| 12 | 25.08.2018 | IIN,N-Pit | 16-14 | 300M Back side of blast face | 12 | 29.16 | 1.94 | DTH \& TLD |
| 13 | 15.09.2018 | IIE,N-Pit | 15-14 | 300M Back side of blast face | 14 | 32.14 | 2.38 | DTH \& TLD |
| 14 | 17.09.2018 | I N,N-Pit | 16-20 |  | 8 | 22.91 | 2.49 | DTH \& TLD |
|  |  |  |  | 300M Back side of blast face | 16 | 34.37 | 2.83 | DTH \& TLD |

P K Ameta
Sr. Manager (Mines)
J．K．Cement WORKS，NIMBAHERA（ ${ }^{(1 \mathrm{~J})}$
KARUNDA LIMESTONE MINE

## SIX MONTHLY AMBIENT AIR QUALITY \＆NOISE MONITORING REPORT

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| OO | x0N | ${ }^{2} \mathrm{OS}$ | 01Wd | WdS | O3 | xon | ${ }^{2} \mathrm{OS}$ | 01Nd | NdS | O2 | $\mathrm{xON}^{\text {N }}$ | ${ }^{2} \mathrm{OS}$ | 0LWd | WdS | OO | xon | ${ }^{\text { }} \mathrm{OS}$ | OLWd | WdS | पІuow |
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# Mitra S.K. Private Limited 

Shrachi Center (5th Floor)

Name \& Address of the Customer :
J.K.Cement Works, Nimbahera

Dist, Chittorgarh ( Raj.)

Report No. : MSK/UDR/2018-19/926
Date : 31.08 .2018
Sample No. ; MSKGL/ED/2018-19/08/01631
Sample Deseription : Ambient Air
Sampling Location : Charlia gadia Village (Karunda Mine)
Date of Sampling : 13/14.08.2018

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

| SL. N0. | Pollutants | Limit | Result | Method of Test Refference |
| :---: | :---: | :---: | :---: | :---: |
| 1 | Particulate matter (PM ${ }_{10}$ ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 100 | 64 | IS: 5182;(Part-23)-2006 |
| 2 | Particulate matter ( $\mathrm{PM}_{2.5}$ ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 60 | 32 | USEPA CFR-40.Part-50, Appendix-L. |
| 3 | Sulphur dioxide( SO 2 ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 80 | 5.1 | IS: 5182 (Parl-2)-2001 |
| 4 | Nitrogen dioxide ( NO 2 ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 80 | 19.7 | IS: 5182 (Part-6)-2006 |
| 5 | Carbon monoxide(CO) in mo/m ${ }^{3}$ | 2 | 0.20 | 15 5182:(Part-10):1999 |



T: $913322172249 / 40143000 / 22650006 / 22650007$
F: 913322650008
E: info@mitrask.com
w: www.mitrask.com

## Name \& Address of the Customer :

J.K.Cement Works, Nimbahera

Distt. Chitorgarh ( Raj.)

Report No. : MSK/UDR/2018*19/927
Date :3108.2018
Sample No. : MSKGL/ED/2018-19/08/01632
Sample Description : Ambient Air
Sampling Location : Karunda Village (Karunda Mine)
Date of Sampling : 1314.08.2018

Reference No.\& Date : e-mail did: 07.06.2018

| SL. N0. | Pollutants | Limit | Result | Method of Test Refference |
| :---: | :---: | :---: | :---: | :---: |
| 1 | Particulate matter (PA1 $\mathrm{ta}^{\text {) }}$ in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 100 | 70 | 1S: 5182:(Part-23)-2006 |
| 2 | Particulate matter ( $\mathrm{PM}_{2,5}$ ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 60 | 37 | USEPA CFR-40, Part-50. Appendix-1. |
| 3 | Sulphur dioxide( SO2) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 80 | 5.4 | IS: 5182 (Part-2)-2001 |
| 4 | Nifrogen dioxide ( NO 2 ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 80 | 22.8 | 15:5182 (Part-6)-2006 |
| 5 | Carbon monoxide( CO ) in $\mathrm{mg} / \mathrm{m}^{3}$ | 2 | 0.21 | 1S 5182:(Part-10):1999 |



Shrachi Center (5th Floor)

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## Name \& Address of the Customer :

J.K.Cement Works, Nimbahera

Distt. Chittorgarh (Raj.)

Report No. : MSK/UDR/2018-19/928
Date $\quad 31.08 .2018$
Sample No. : MSKGL/ED/2018-19/08/01633
Sample Description : Ambient Air
Sampling Location : Near Loading Point (Karunda Mine)
Date of Sampling : $13 / 14.08 .2018$

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

| SL. No. | Pollutants | Limit | Result | Method of Test Refference |
| :---: | :--- | :---: | :---: | :---: |
| 1 | Particulate matter $\left(\mathrm{PM}_{10}\right) \mathrm{in} \mu \mathrm{g} / \mathrm{m}^{3}$ | 100 | 97 | IS: 5182:(Part-23)-2006 |
| 2 | Particulate matter $\left(\mathrm{PM}_{2.5}\right) \mathrm{in} \mu \mathrm{g} / \mathrm{m}^{3}$ | 60 | 52 | USEPA CFR-40,Part-50, Appendix-L |
| 3 | Sulphur dioxide( SO2) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 80 | 6.8 | IS: 5182 (Part-2)-2001 |
| 4 | Nitrogen dioxide $(\mathrm{NO} 2) \mathrm{in} \mu \mathrm{g} / \mathrm{m}^{3}$ | 80 | 27.0 | IS: 5182 (Part-6)-2006 |
| 5 | Carbon monoxide(CO) $\mathrm{in} \mathrm{mg} / \mathrm{m}^{3}$ | 2 | 0.40 | $1 \mathrm{~S} 5182:($ Part-10):1999 |

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


## Mitra S.K. Private Limited

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Name \& Address of the Customer:
J.K.Cement Works, Nimbahera

Distt. Chittorgarh ( Raj.)

Report No. : MSK/UDR/2018-19/929
Date : 31.08.2018
Sample Nox: MSKGL/ED/2018~19/08/01634
Sample Description : Ambient Air
Sampling Location : Near Mine Office (Karunda Mine)
Date of Sampling : $13 / 14.08 .2018$

Reference No. \& Date : e-mail did: 07,06.2018

| SL. N0, | Pollutants | Limit | Result | Method of Test Refference |
| :---: | :---: | :---: | :---: | :---: |
| 1 | Particulate matter ( $\mathrm{PM}_{10}$ ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 100 | 80 | IS: 5182:(Part-23)-2006 |
| 2 | Particulate matfer( $\mathrm{PM}_{2.5}$ ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 60 | 44 | USEPA CFR-40,Part-50, Appendix-L |
| 3 | Suphur dioxide ( SO2) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 80 | 6.9 | 15:5182 (Part-2)-2001 |
| 4 | Nitrogen dioxide (NO2) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 80 | 26.1 | IS: 5182 (Part-6)-2006 |
| 5 | Carbon monoxide(CO) in $\mathrm{mg} / \mathrm{m}^{3}$ | 2 | 0.40 | IS 5182 :(Part-10) :1999 |

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



Name \& Address of the Customer :
J.K.Cement Works, Nimbahera

Disti, Chittorgarh (Raj.)

Report No. : MSK/UDR/2018-19/930
Date $\quad 31.08 .2018$
Sample No. ; MSKGL/ED/2018-19/08/01635
Sample Description : Ambient Air
Sampling Location : Near Ravana Office (Karunda Mine)
Date of Sampling : 13/14.08.2018

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

| SL. N0. | Pollutants | Limit | Result | Method of Test Refference |
| :---: | :---: | :---: | :---: | :---: |
| 1 | Particulate matter (PM ${ }_{10}$ ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 100 | 83 | 1S: 5182:(Part-23)-2006 |
| 2 | Particulate matter( $\mathrm{PM}_{2.5}$ ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 60 | 44 | USEPA CFR-40,Part-50, Appendix-L. |
| 3 | Sulphur dioxide( SO2) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 80 | 6.2 | IS: 5182 (Part-2)-2001 |
| 4 | Nitrogen dioxide ( NO 2 ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 80 | 25.7 | 1S: 5182 (Parl-6)-2006 |
| 5 | Carbon monoxide( CO ) in $\mathrm{ma} / \mathrm{m}^{3}$ | 2 | 0.39 | IS 5182;(Part-10) :1999 |

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



## Mitra S.K. Private Limited

748, Acharya Jagadish Chandra Bose Road
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E: info@mitrask.com
w: wwe mitrask.com

Name \& Address of the Customer:
J.K.Cement Works, Nimbahera

Distt. Chittorgath ( Raj.)

Report No. ; MSK/UDR/2018-19/925
Date :31.08.2018
Sample No. : MSKGL/ED/2018-19/08/01630
Sample Description : Ambient Air
Sampling Location : 3-10 Meter Distance from Drilling
Operation (Karunda Mine)
Date of Sampling : $13 / 14,08.2018$

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

| SL. N0. | Pollutants | Limit | Result | Method of Test Refference |
| :---: | :---: | :---: | :---: | :---: |
| 1 | Particulate matter ( $\mathrm{PM}_{10}$ ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 100 | 97 | 1S: $5182:(P a r t-23)-2006$ |
| 2 | Particulate matter ( PM 2.5 ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 60 | 55 | USEPA CFR-40, Part-50, Appendix-L |
| 3 | Sulphur dioxide (SO2) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 80 | 6.8 | IS: 5182 (Part-2)-2001 |
| 4 | Nitrogen dioxide ( NO 2 ) in $\mu \mathrm{g} / \mathrm{ml}^{3}$ | 80 | 27.1 | 1S: 5182 (Part-6)-2006 |
| 5 | Carbon monoxide(CO) in $\mathrm{mg} / \mathrm{m}^{3}$ | 2 | 0.47 | IS 5182 (Part-10) :1999 |



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## TEST REPORT

## Name \& Address of the Customer :

J.K.Cement Worlis, Nimbahera

Distt. Chittorgarh (Raj.)

Report No. : MSK/UDR/2018-19/953
Date : 31.08,2018
Sample No. : MSKGLED/2018-19/08/01669 \& 01670
Sample Description : Noise Monitoring (Karunda Mine)

Reference No.\& Date : e-mail ddd: 07.06.2018

## ANALYSIS RESULT

| SI. No. | Sampling Date | Sampling Location | Results Leq $\mathrm{dB}(\mathrm{A})$ |  |
| :--- | :---: | :---: | :---: | :---: |
| 1. | $13 / 14.08 .2018$ | Near Mine Office (Karunda Mine) | 57.1 | Nay Time |
| 2. |  | 55.8 | 47.0 |  |
| Limit As per CPCB <br> (Environment Protection <br> Rules, 1986) | in Industrial Area Leq dB(A) | 75 | 70 |  |




## Mitra S.K. Private Limited

## Name \& Address of the Customer :

J.K.Cement Works, Nimbahera

Distt. Chittorgarh ( Raj.)

Report No. : MSK/UDR/2018-19/376
Date :30.06.2018
Sample No, : MSKGL, ADD2018-19/06/01418
Sample Deseription : Ambient Air
Sampling Location : 3-10 Meter Distance from Drilling
Operation (Karunda Mine)
Date of Sampling : 18/19.06.2018

Reference No.d Date : e-mail ddd: 07.06.2018

| SL, N0. | Pollutants | L.imit | Result | Method of Test Refference |
| :---: | :---: | :---: | :---: | :---: |
| 1 | Particulate matter ( $\mathrm{PaI}_{\text {tu }}$ ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 100 | 94 | 15:5182:(Part-23)-2006 |
| 2 | Particulate matter (PM 2.5 ) in $\mu / \mathrm{m}^{3}$ | 60 | 51 | USEPA CFR-40.Part-50, Appendix-1. |
| 3 | Sulphur dioside (SO2) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 80 | 6.6 | 1S: 5182 (Part-2)-2001 |
| 4 | Nitrogen dioxide ( NO 2 ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 80 | 28.7 | IS: 5182 (Part-6) 2006 |
| 5 | Carbon monoxide( CO ) $\mathrm{in} \mathrm{mg} / \mathrm{m}^{3}$ | 2 | 0.41 | IS 5182 :(Part-10):1999 |
| 6 | Ozone ( O 3 ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 180 | 49.62 | Method of Air sampling, 3rd Edn. By James P. <br> L.odge (Mechod-411) |
| 7 | Ammonia (NII3) in $\mu \mathrm{g} / \mathrm{mb}^{3}$ | 400 | 20.3 | Method of Air sampling, 3rd Eidn, By lames P. Lodge (Method-401) |
| 8 | Lead (Pb) in $\mu \mathrm{p} / \mathrm{m}^{3}$ | 1 | 0.33 | EPA-10.3.2 |
| - | Vickel ( Ni ) in $\mathrm{ng} / \mathrm{m}^{3}$ | 20 | 8.6 | EPA-103.2 |
| 10 | Arsenic (As) in $\mathrm{ng} / \mathrm{m}^{3}$ | 6 | < 1.0 | APHA 22nd-3114C |
| 11 | Benzene ( $C$ ( 0116 ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 5 | 2.08 | IS 5182: Part. 11:2006 |
| 12 | Benzo(a) pyrene (Bap) in $\mathrm{ng} / \mathrm{m}^{\text {a }}$ | 1 | 0.4 | 15 5182: Part. 12:2004 |

Note : Limit as per (PCB notification, New Delli. 18th November 2009, For Ambient air Quality



Name \& Address of the Customer:
J.K.Cement Works, Nimbahera

Distt, Chittorgarh (Raj.)

Report No. : MSKUDR/2018-19/377
Date :30.06.2018
Sample No, : MSK (iL/ED/2018-190601419
Sample Description : Ambient Air
Sampling Location: Charlia gadia Village (Karunda Mine)
Date of Sampling : $1920,06.2018$

Reference No.\& Date : e-mail did: 07,06.2018

| SL.. N0, | Pollutants | Limil | Result | Method of Test Refference |
| :---: | :---: | :---: | :---: | :---: |
| 1 | Particulate matter ( $\mathrm{PH}_{60}$ ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 100 | 69 | 15:5182:(Part-23)-2006 |
| 2 | Particulate matter ( $\mathrm{PM}_{2.5}$ ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 60 | 33 | USIPS S CR-10.Part-50, Appendix-1. |
| 3 | Sulphur dioxider SO2) in $1 \mu \mathrm{~g} / \mathrm{m}^{3}$ | 80 | 5,5 | 1S:5182 (Part-2)-2001 |
| 4 | Nifrogen dioxide ( NO 2 ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 80 | 32.8 | 15:5182 (Part-6)-2006 |
| 5 | Carbon monoxide( CO ) in $\mathrm{mg} / \mathrm{m}^{3}$ | 2 | 0.23 | 1S 5182:(Part-10):1999 |
| 6 | Orone (O3) in $\mu \mathrm{m} / \mathrm{m}^{3}$ | 180 | -19.62 | Method of Air sampling. 3rd Edn. By James P. Lodge (Method-411) |
| 7 |  | 400 | 10.8 | Method of Air sampling, 3rd Edr. By James P. Lodge (Method-401) |
| 8 | Lead (Pb) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 1 | 50.02 | EPA-10.3.2 |
| 9 | Nickel ( Ni ) in ng $/ \mathrm{m}^{3}$ | 20 | 4.0 | EPA-10 3.2 |
| 10 | Arsenic (As) in ng/m | 6 | c1.0 | APHA 22nd - 3114 C |
| 11 | Benzene (C6116) in $1 \mathrm{~g} / \mathrm{mm}^{3}$ | 5 | 2.08 | 15 5182: Part. 11:2006 |
| 12 | Benzo(a) pyrene (BaP) in mg/m ${ }^{3}$ | 1 | 0.4 | 15 5182: Parı 12:3004 |

Note : Limit as per CPCB notifation. New Dethi, I8th November 2009, For Ambient air Quality


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Name \& Address of the Customer:
J.K.Cement Works, Nimbahera

Dist, Chittorgarh (Raj.)

Report No. : MSK (UDR/2018-19/378
Date 30.06 .2018
Sample No. : MSKGLIED/2018-190601420
Sample Description : Ambient Air
Sampling Location : Karunda Village (Karunda Mine)
Date of Sampling : 19/20.06.2018

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

| SI. N0. | Pollutants | 1 imit | Result | Method of Test Refference |
| :---: | :---: | :---: | :---: | :---: |
| 1 | Particulate matter (PM 10 ) in $14 \mathrm{~m} /{ }^{3}$ | 100 | 7.4 | IS: 5182 (Part-23)-2006 |
| 2 | Particulate matter ( PM 2,5 ) in $\mu \mathrm{m} / \mathrm{m}^{3}$ | 60 | 38 | USIPS C1R-40.Part-30, Appendix-1. |
| 3 | Sulphur dioxide ( SO2) in $\mu \mathrm{L} / \mathrm{m}^{3}$ | 80 | 5.0 | 1S: 5182 (Pars-2)-2001 |
| 4 | Nitrogen dioxide (NO2) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 80 | 22.4 | 1S: 5182 (Par1-6)-2006 |
| 5 | Carbon monoxide(CO) in $m g / \mathrm{m}^{3}$ | 2 | 0.18 | 1S 5182 (Part-10):1999 |
| 6 |  | 180 | 819.62 | Method of Nir sampling, Brd Eidn, By James P. Lodge (Methoda11) |
| 7 | Ammonia (NH3) in $\mu \mathrm{g} / \mathrm{mb}^{3}$ | 400 | 11.0 | Method of Air sampling, 3rd Fidn. By James P. Lodge (Mehod-401) |
| 8 | $\text { Lead }(\mathrm{Pb}) \text { in } \mu \mathrm{g} / \mathrm{m}^{3}$ | 1 | $<0,02$ | EPA-103.2 |
| 9 | Nickel (Ni) in $n \mathrm{~g} / \mathrm{m}^{3}$ | 30 | 4.0 | EPA-10 3,2 |
| 10 | Arsenic (As) in ne/m ${ }^{3}$ | 6 | <1.0 | APHA 22nd-3114C |
| 11 | Benzene (C6116) in $\mu \mathrm{g} / \mathrm{ml}^{3}$ | 5 | 22.08 | 155182: Part. 11:2006 |
| 13 | Benzo(a) pyrenc (Bar) in ng/m ${ }^{\text {a }}$ | 1 | 0.4 | IS5182: Part. 12: 2004 |

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



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w: www.mitrask.com

Name \& Address of the Customer :
J.K.Cement Works, Nimbahera

Disth. Chittorgarh ( Raj.)

Report No. : MSK/UDR/2018-19/379
Date $: 30.06 .2018$
Sample No. : MSK (il $A 12 / 2018-190601421$
Sample Description : Ambien Air
Sampling Location: Near Loading Point (Karunda Mine)
Date of Sampling : 19/20.06.2018

Reference No.\& Date : e-mail did; 07.06 .2018

| SL. N0. | Pollutants | Limit | Result | Method of Test Refference |
| :---: | :---: | :---: | :---: | :---: |
| 1 | Particulate matter (PM10) in $\mu \mathrm{m} / \mathrm{m}^{3}$ | 100 | 96 | 15:5182:(Part-23)-2006 |
| 2 | Particulate matter (PM 2.5 ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 60 | 51 | LS1PA C1R-40.Pam-50. Appendixal. |
| 3 | Sulphur dioxide( SO 2 ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 80 | 6.2 | IS: 5182 (Part-2)-2001 |
| 4 | Nirogen dimside ( NO 2 ) in $\mu \mathrm{g} \mathrm{mm}^{3}$ | 80 | 26.3 | 15,5182 (Part-6)-2006 |
| 5 | Carbon monoxide( CO ) in $\mathrm{mg} / \mathrm{m}^{3}$ | 2 | 0.37 | IS 5182 : Part-10):1999 |
| 6 | Ozone (O3) in $\mu \mathrm{g} \mathrm{m}^{3}$ | 180 | -19.6. | Method of Air sampling, Ard Edn. By James P. Lodee (Method-411) |
| 7 | Ammonia (NII3) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 400 | 21.3 | Method of Nir sampling, 3rd Edn. By James $P$. Ladge (Method-401) |
| 8 | Lead (Pb) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 1 | 0.18 | EPA-103.2 |
| 9 | Nickel (Ni) in $n \mathrm{~g} / \mathrm{m}^{3}$ | 20 | 8.20 | EPA-10 3.2 |
| 10 | Arsenic (As) in $\mathrm{ng} / \mathrm{m}^{3}$ | 6 | $\times 1.0$ | APHA 22nd - 3114 C |
| 11 | Benzene (C6H6) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 5 | $<2.08$ | 15:5182: Part 11:2006 |
| 12 | Benzo(a) pyrene (BaP) in $\mathrm{ng} / \mathrm{mb}^{3}$ | 1 | 0.4 | IS 5182: Pant 12:2004 |

Note ; Imit as per CPCB notifieation, New Delhi, I Sth November 2009, For Ambient air Quality



## Mitra S.K. Private Limited

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Name \& Address of the Customer:
J.K.Cement Works, Nimbaher:

Dist, Chittorgarh ( Raj,)

Report No. : MSK/EDR 2018-19,380
Date : 30.06.2018
Sample No. : MSKGLED2018-19/06/01422
Sample Description : Ambient Air
Sampling Location : Near Mine Office ( Karunda Nine)
Date of Sampling : 18/19.06.2018

Reference No.\& Date : e-mail did: $07,06.2018$

| S1.. N0. | Pollutants | I.imit | Result | Method of Test Refference |
| :---: | :---: | :---: | :---: | :---: |
| 1 | Particulate matter ( $\mathrm{PM}_{10}$ ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 100 | 7 | 15,5182:(Part-23)-2006 |
| 2 | Particulate matter (PM $\mathrm{P}_{2.5}$ ) in $\mu \mathrm{p} / \mathrm{m}^{3}$ | 60 | 10 | USEPA (PR-40.Part-50, Appendix-1 |
| 3 | Sulphur dioxide( SO2) in $\mu \mathrm{g} / \mathrm{m}^{2}$ | 80 | 6.3 | 15: $5182(\mathrm{Part}-2)-2001$ |
| 4 | Nitrogen diovide ( NO 2 ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 80 | 25.7 | 15:5182 (Part-6)-2006 |
| 5 | Cambon monoside(CO) $\mathrm{in} \mathrm{mg}^{\mathrm{ma}} \mathrm{m}^{3}$ | $?$ | 0,38 | 15.5182 ( Part-10):1999 |
| 6 | Ozone (O3) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 180 | c19.62 | Method of Air sampling. 3rd Edn. By James P. Lodge (Method 411) |
| 7 | Ammonia ( NH 13 ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 400 | 17.2 | Method of Air sumpling, Brd Edn. By James P Lodge (Method-701) |
| 8 | Lead (Pb) in $\mathrm{ng} / \mathrm{m}^{3}$ | 1 | 0.02 | $1 \mathrm{PA}-103.2$ |
| 9 | Vickel (Ni) in ng: $\mathrm{ma}^{3}$ | 20 | 4.0 | 18P 1.103 .2 |
| 10 | $\text { Arsenic (As) in } n \mathrm{~g} / \mathrm{m}^{3}$ | 6 | $<1.0$ | APHA 22nd - 3114 C |
| 11 | Benzene (C6H6) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 5 | <2.08 | 15 5182: Part. 11:2006 |
| 12 | Benzo(a) pyrene (BaP) in $\mathrm{ng} / \mathrm{m}^{3}$ | 1 | 0.4 | 15 5182: Part. 12: 2004 |

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



MEK

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F: 913322650008
E: info@mitrask.com
w: www.mitrask.com

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

Report No. : MSKUDR 2018-19/381
Date : 30.06.2018
Sample No. : MSK (iL ED /2018-19/06/01423
Sample Description : Ambient Air
Sampling Location : Near Ravana Ollice ( Karunda Minc)
Date of Sampling : $18 / 19.06 .2018$

Reference No.\& Date : e-mail did: 07.06 .2018

| SI.. N0. | Pollutants | 1 imil | Result | Method of Test Refference |
| :---: | :---: | :---: | :---: | :---: |
| 1 | Particulate matter ( $\mathrm{PM}_{10}$ ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 100 | 81 | 1S:5182:(Part-23)-2006 |
| 2 |  | 60 | 42 | USEP $\backslash$ (1R-40.Pari-50, Appendix-1. |
| 3 | Sulphur dioxider SO 2 ) in $\mathrm{\mu g}_{\mathrm{g}} \mathrm{m}^{3}$ | 80 | 5.8 | 15:5182 (Part-2)-2001 |
| 4 | Nirrogen dioside ( NO 2 ) in $\mu \mathrm{m} / \mathrm{m}^{3}$ | 80 | 26.8 | 15:5182 (Part-6)-2006 |
| 5 | Carhon monoxide( CO ) $\mathrm{im} \mathrm{mg} / \mathrm{m}^{3}$ | 2 | 0.36 | 15 5182:(Part-10):1909 |
| 6 | Ozone (O3) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 180 | <19,62 | Method of Air sampling. 3rd Eidn. By James $P$. Lodge (Method-411) |
| 7 | Ammonia (N113) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 400 | 19.7 | Method of Air sampling. Brd Edn, By James $P$. Lodge (Method-401) |
| 8 | Lead ( Pb ) in $\mathrm{ng} / \mathrm{ml}^{3}$ | 1 | 0.04 | 1PA-10 3.2 |
| 9 | Nickel (Ni) in ng/m $\mathrm{m}^{3}$ | 20 | 7.22 | EPA-103.2 |
| 10 | $\text { Arsenic (As) in } \mathrm{ng} / \mathrm{m}^{3}$ | 6 | <1.0 | APHA 22 nd - 3114 C |
| 11 | Benzene ( C ( 6 H 6 ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 5 | 2.08 | IS 5182: Parl. 11:2006 |
| 12 | Benzo(a) pyrene (BaP) in $\mathrm{ng} / \mathrm{m}^{3}$ | 1 | 60.4 | IS 5182: Part. 12:2004 |

Note : Limit as per CPCB notification, New Delli, I8th November 2009, For Ambient air Quality

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$\therefore$
$\therefore$

## TEST REPORT

## Name \& Address of the Customer : J.K.Cement Works, Nimbahera Disth. Chittorgarh (Raj.)

Report No. : MSK UJDR/2018-19/410
Date : 30.06.2018
Sample No. : MSK (il FI) 2018-1906001453\&01454 Sample Description : Noise Monitoring

Reference No.\& Date : e-mail did: 07.06.2018

## ANALYSIS RESULT

| SI. No. | Sampling Date | Sampling Location | Results Leq dB $(\Lambda)$ |  |
| :--- | :---: | :---: | :---: | :---: |
| 1. | $18 / 19,06.2018$ | Near Mine Office (Karunda Mine) | Day Time | Night Time |
| 2. | Near Ravana Oflice (Karunda Mine) | 58.5 | 48.9 |  |
| Limit As per CPCB <br> (Environmem Protection <br> Rules. 1986) | in Industrial Area L.eqdB(A) | 75 | 47.0 |  |
| (A) | 70 |  |  |  |



