

ISO 9001:2008, ISO 14001:2004 \& OHSAS 18001 : 2007 CERTIFIED COMPANY

Our Ref. No.: MGR/PC-14/ 315)
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 Tilakhera Limestone Mine.
Dear Sir,
Kindly refer Environmental Clearance letter No. J-11015/25/2011-IA.II (M) dated. $23{ }^{\text {rd }}$ January 2014 of our Tilakhera Lime Stone Mine.

We are enclosing herewith compliance report of Environmental Clearance conditions along with Environment Monitoring Data (Core zone \& 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,


## Encl: a/a

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, MANGROL (RAJ) Compliance report of Environment Clearance for Mangrol Tilakhera Lime Stone Mine Letter from MOEF. New Delhi - J-11015/25/2011-1A. II (M) dated 23.01.2014
(For the Period from April 2018 to September 2018)

| Sr. No. | Condition | Status |
| :---: | :---: | :---: |
|  | A. SPECIFIC CONDITIONS: |  |
| (i) | The mining activity will not commence unless the NOC from the Gram Panchayat for grazing land has been obtained. | Mining lease was initially executed on 09.05 .1978 and it was renewed (First renewal) from 09.05.1998. It is not planned to do mining activity in grazing land in future also. |
| (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 provision of the Mineral Concession Rules, 1960 and MMDR Act, 1957. | Mining is carried out after obtaining consents from land owners as per provision of the Mineral Concession Rules, 2016 and MMDR Act, 1957. |
| (iii) | Implementation of the Conservation Plan for Schedule I species report in the study area namely Pavo cristatus (Indian peafowl). | Conservation Plan for Schedule Species in the study area namely Pavo cristatus (Indian peafowl) is implemented by planting tall trees at closer spacing and conducting awareness programme. |
| (iv) | The Proponent shall ensure implementation of Action Plan on the issues raised during the Public Hearing held on 20.12.2012. The proponent shall complete all the tasks as per the action plan submitted with the budgetary provision during the public hearing. | Action plan is being implemented. |
| (v) | The Proponent shall ensure implementation of commitment made for Socioeconomic welfare measures and report shall be submitted to the Ministry of Environment \& Forest and its Regional Office located at Lucknow on six monthly basis. | We have spent Rs. 2,54,97,756/- in FY 2018-19 ( up to September ) in surrounding village i.e. Charlia, Pipaliya gadia, Unkhaliya, Shahbad, Arniya Joshi, Mangrol, BadoliGhata, FhacherAhiran, Nimbahera, Phalwa, Lotha Bairu, Maliakheri, Chittorgarh, Udaipur Bhawaliya and Karunda for Socioeconomic welfare measures under various heads like Rural Development, Religious, Infrastructure/civil work, Drinking Water supply, Education, Medical \& Health, Environment, Livelihood Promotion, sports \& games and social activities. Detail is enclosed as annexure-(I) |
| (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 \& Forest and its Regional Office located at Lucknow on six monthly basis. | Garland drain system maintained at the Mining Pit. Report of water samples collected from different locations is send regularly. Latest report has been sent on dated 06.09.2018 for monsoon season (August' 2018) vide letter no. MGR/PC/14/2205. |
| (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. | Noted. |


|  |  <br>  <br>  <br>  <br>  | (!!ıx) |
| :---: | :---: | :---: |
|  <br>  |  <br>  | (!ax) |
| (II)-дınхәиии se pasopuә วกd jo <br>  <br>  <br>  | рәреоןәло әq дои <br>  <br>  <br>  <br>  | (Ax) |
| SIOZ/0I/8Z <br>  <br>  |  <br>  | (s!̣) |
|  <br>  |  <br>  | (!!!x) |
|  <br>  <br>  <br>  <br>  <br>  <br>  |  <br>  <br>  <br>  <br>  | (!!! |
|  <br>  |  | (!x) |
|  <br>  |  <br>  <br>  | (x) |
|  <br>  <br>  |  <br>  | (x!) |
|  |  | (!!!^) |


| (xviii) | Environment clearance is granted subject to final outcome of Hon'ble supreme Court of India, Hon,ble High Court of Rajasthan and any other Court of Law, as may be applicable to this project. | Agreed. |
| :---: | :---: | :---: |
|  | B. General conditions |  |
| (i) | No Change in mining technology and scope of working should be made without prior approval of the Ministry of Environment \& Forests. | Agreed. Mining will be done in accordance with Approved Mining Plan. |
| (ii) | No change in the calendar plan including excavation, quantum of limestone mineral and waste should be made. | Agreed. Mining will be done in accordance with Approved Mining Plan. |
| (iii) | A Final Mine closure Plan along with detail of Corpus Fund shall be submitted to the Ministry of Environment \& Forest 5 years in advance of final closure for approval. | Progressive Mine Closure Plan is being prepared along with Mining Plan. There is no plan of Final Mine Closure in current Mining Plan. |
| (iv) | There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis in consultation with Regional Director, Central Ground water Board and implementation of conservation measures to augment ground water resources in the area in consultation with Central ground Water Board. | Surface rain water is collected in the lower most benches to augment Ground water resources. Pits in western side of mine have been made to store water to augment ground water resources in the area. |
| (v) | Regular Monitoring of ground water table to be carried out at the upstream and depth of water available in the dug well is to be measured. Monitoring to be done by establishing a network of existing wells and constructing new piezometers. | Report is being sent regularly on Schedule time. Latest report has been sent on dated 06.09.2018 for monsoon season (August' 2018) vide letter no. MGR/PC/14/2205. |
| (vi) | The project proponent shall ensure that no natural water course and /or water resources shall be obstructed due to any mining operations. | Agreed. No natural course and / or water resources will be obstructed due to any mining operation. |
| (vii) | The top soil, if any, shall temporarily be stored at earmarked site (s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation. The overburden $(\mathrm{OB})$ generated during the mining operations shall be stacked at earmarked dumped site (s) only and it should not be kept active for a long period of time. The maximum height of dump shall not exceed 8 m and width 20 m and overall slope of the dump shall be maintained to $45^{\circ}$ degree. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas, use of geo textiles shall be undertaken for stabilization of the dump. The entire excavated area shall be backfilled and afforested. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment \& Forest and its Regional office located at Lucknow on six monthly basis. | The top soil generated will not be kept long and will be stored at designated places, levelled and stabilized by carrying plantation over it. After complete excavation, the entire excavated area will be used for storing rain water and act as reservoir. (Necessary correction to be made in Environment Clearance is sent to MoEF vide letter No. NBH/ UH/ 2941 dated 05.02.2014). Management and Monitoring of Plantation area is done till it becomes self sustain. Six monthly reports are already submitting to concern offices. |
| (viii) | Catch drain and siltation ponds of appropriate size shall be constructed around the mine working, mineral and $O B$ dumps to prevent run off of water and flow of sediments directly in | Garland drain system is maintained all around the mining pit, outside the mining limit for proper water harvesting. Check dams |


|  <br>  <br>  |  | (!!! ${ }^{\text {( }}$ |
| :---: | :---: | :---: |
|  <br>  <br>  |  <br>  <br>  <br>  <br>  <br>  | (!! ${ }^{\text {x }}$ |
| 'pəəェถิ |  <br>  <br>  <br>  <br>  | (ix) |
| -pəoธิ\% |  <br>  | (x) |
|  <br>  <br>  <br>  <br>  <br>  <br>  |  <br>  <br>  <br>  <br>  | (x!) |
|  <br>  <br>  <br>  |  <br>  <br>  <br>  <br>  <br>  <br>  <br>  <br>  <br>  |  |


|  | Forests and its Regional Office, Lucknow. |  |
| :---: | :---: | :---: |
| (xiv) | 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. |
| (xv) | 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. | Agreed. We are regular carrying out Ambient Air Quality Monitoring based on CPCB notification. |
| (xvi) | The critical parameters such as SPM,RSPM (Particulate matter with size less than 10 micron i.e. PM10) and NOx in the ambient air within the impact zone, peak particle velocity at 300 m distance or within the nearest habitation, whichever is closer shall be monitored periodically. Further, quality of discharged water shall also be monitored [(TDS, DO, PH and Total Suspended Solids (TSS)]. The monitored data shall be uploaded on the website of the company as well as displayed on the display board at the project site at a suitable location near the main gate of the Company in public domain. The Circular No. J-20012/1/2006-IA.II (M) dated 27.05.2009 issued by Ministry of Environment and Forests, which is available on the website of the Ministry www.envfor.nic.in shall also be referred in this regard for its compliance. | These parameters are already being monitored and will continue in future also. We are not discharging water outside. Latest report on Ambient Air Monitoring and peak particle velocity monitoring is enclosed as annexure-(III) |
| (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. | Regular maintenance (including cabin) of HEMM being done to keep noise level within the specified limits. Workers engaged in operation of HEMM etc. are provided with ear plugs. |
| (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 $19^{\text {th }}$ May, 1993 and $31^{\text {st }}$ December, 1933 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. Periodical analysis of Mine pit water reveals that there is no presence of any kind of toxic substance. |
| (xix) | Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. | Persons engaged in drilling, dozing and loading have been provided with dusk mask. Vocational training is being provided as required under MVT Rules. |
| (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 record maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly. | Regular periodic check-up of workers is being carried out. During the year 2018-19 (upto sept.), 2 nos. of periodical and 00 nos. of initial medical examination were done. |
| (xxi) | A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization. | A separate environmental management cell with qualified personnel is already established \& have sufficient monitoring equipment in environmental laboratory. |
| (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 | A separate fund is kept for environment protection measures and report is being sent regularly to the concerned authority. |


| -Kұиочдпе рәшәәиол <br>  |  <br>  <br>  <br>  <br>  <br>  | (!!! ${ }^{\text {axx }}$ |
| :---: | :---: | :---: |
| 'pe!!duo) |  <br>  | (!! $\Lambda x x$ ) |
| ррәиәшә\|duI |  <br>  | (!nxx) |
|  <br>  <br>  |  <br>  <br>  | (nxx) |
|  <br>  |  <br>  <br>  | (A! $\mathrm{l} \times \mathrm{x}$ ) |
|  |  | (!!! ${ }^{\text {axx }}$ |
| -810Z. S0'6Z parep L06/tI/Dd/dOW <br>  <br>  |  |  |


| Corporate Social Responsibility work Detail from April to Oct. 2018Unit Name-J. K. Cement Works Nimbahera \& Mangrol |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | d |  |
| S.no. | Activity | Village Name | Mines Area | Expenditure (Rs. In lac) | Work Detail | Remarks |
| 1 | $\begin{aligned} & \text { Infracture/ clvill } \\ & \text { work } \end{aligned}$ | Phalwa | Maliyakeda | 5313455.00 | Construction work of C.C. Road in phalwa Villoge. | As per our old commitment for provide road connectivity and NOC issue for mines side govt road diversion. |
|  |  | Phalwa | Malivakeda | 618000.00 | Construction work of Gravel Gitti Road on New CC road side at phalwa Village. | Approche road diversion at maliykhera for mines safety issue. |
|  |  | Charliy | Karunda | 3395934.00 | Construction work of C.C. Road in Charliy V Village. | As per NOC of govt. road diversion for our mines lease out side area and UDH minister recommendation. |
|  |  | Mangrol | Mangrol 132 | 2527117.00 | Construction work of Rly station to village C.C. Road in Mangrol Village. | As per recommendation by gram panchayat at the time of conveyar belt NOC. |
|  |  | Pipliya Gadiya | Karunda | 230000.00 | Construction work of Gravel Gitti Road at Pipliya to Bansa Village. | On the requisition of Gram pachayat and villagers. |
|  |  | Badolli ghata | Tillakheda | 293311.00 | Construction work of Gravel Gittl Road at Karthana Village. (Intake well jk) | For easy movement of our water tubewell point and required of local farmers. |
|  |  | Unkhaliya | Tillakheda | 30000000 | Construction work of Gravel Gitti Road at Unkhallya Village. | On the requisition of Gram pachayat and villagers. |
|  |  | Arniva Joshi | Tillakheda | 253575.00 | Construction work of Pathways at Namo park Arniya joshi Village. | As per recommendation by Gram panchayat and UDH minister. |
|  |  | Arniva Joshi | Twlakheda | 419175.00 | Construction work of C.C. Road in Bhil baasti at Tilla keda Village. | As per recommendation by Gram panchayat and UDH minister. |
|  |  | Shahbad | Tillakheda | 1069121.00 | Construction work of Funeral Shed and Grave yard in Shahbad Village. | As per our CSR commitment. |
|  |  | Nimbahera | NBH Plant | 44750.00 | Patwar Bhawan Repairing work Nimbahera | As per recommendation by SDM sir nimbahera. |
|  |  | Chittorgath | Nimbahera | 238611 | Repairing Work at SP Office Chitorgarh | As per recommendation by SP sir Chittorgarh. |
|  |  | Charliya | Karunda | 537015 | Construction of Toilet and Kitchen at Community center in Chalilya gadiya village (Mahadev Enterprises) | As per our CSR commitment with villagers. |
|  |  | Shahbad | TIllakheda | 177413 | Renovation work of Temple at Shabad | As per our CSR commitment with villagers. |
|  |  |  |  | 15417477.00 |  |  |
| 2 | Water Conservation | Shahbad | Tillakheda | 199782.00 | Water Tanker Supply in Summer season in Shahbad villages. | As per our CSR commitment with villagers. |
|  |  | Nimbahera | NEH Plant | 1066100.00 | Water Tanker Supply in Summer season in Nimbahera city. | As per our CSR commitment. |
|  |  | Shahbad | Tillakheda | 100625.00 | Tubewell work at Shabad village. | As per our CSR commitment with villagers. |
|  |  |  |  | 1366507.00 |  |  |
| ${ }^{3}$ | School/ Education | Phacher Ahiran | Murliya Block | 2244879.00 | Construction of Six New rooms in Govt.School Phacher Ahlran | Our previous CSR commitment at the time of Murliya mines block NOC in 2010-11 six new room constructed by us. |
|  |  | Anlya Joshi | Tillakheda | 619555.00 | Construction of Toilate Govt.School Arniva joshi. | For Education promotion. |
|  |  | Shahbad | Tillakheda | 47064.00 | Construction work of Watar Tank in Gout. School at Shahbad Village. | Recommendation by School administration. |
|  |  | Nimbahera | NBH Plant | 677492,00 | Adopted 18 Anganwadi for making Adarsh Anganwadi under Nand Ghar Chalo Abhlyan. | We associatation for child education under UDAN SARTHI project. (5 Year MOU) |
|  |  | Nimbahera | NBH Plant | 727836.00 | Free Career counseling \& Coaching classes for youth for Govt. Competition examination. | To provide free coaching to our rural youth for achieve Govt. Job under education promotion. |
|  |  | Chittorgarh | NBH Plant | 75000.00 | Financial Help to Educatuon department chittorgarh (RAMSA) for LIght connection and facility in Govt School. | As per instruction by DIC Chittorgarh. |
|  |  |  |  | 4391826.00 |  |  |
| 4 | Medical \& Health | Surrounding Village nearby Our Plant \& Mines | NBH Plant | 320000.00 | Organized Free medical \& Health check-up camp nearby Nbh \& Mgri plant Nimbahera. | As per CSR practice For better health and hygine of rural people. |
|  |  |  |  | 320000.00 |  |  |
| 5 | livelihood Promotion | Surrounding Village nearby Our Plant \& Mines | NBH Plant | 1338162 | Organized Women Skill Development Training Programmes under the CSR (No. 2400 of womens are benefices) | For Women Empowerment Livelihood generation. |
|  |  | Surrounding Village nearby Our Plant \& Mines | MGRL Plant | 1535784.00 | Sanitary napkin making through S.H.G. (Women Empoverment, Health \& hygiene ). | For Women Empowerment Livelihood generation. |
|  |  |  |  | 2873946.00 |  |  |
| 6 | Sports \& Games | Nimbahera | NBH Plant | 233000.00 | To recognise and motivate the Students on Independence day function (8th to 12th class) by Distributed of Silver Medal to those who have achived $70 \%$ and above marks in Board Exam. |  |
|  |  | Bhawliy | Nimbahera | 25000.00 | To Promote Games \& Motivate Students this Donation given by us for School tournment. |  |
|  |  |  |  | 258000.00 |  |  |
| 7 | Social Aetlvities | Nimbahera | NBH Plant | 200000.00 | Donation for beautylication work by painting at Ratlam Rallway Station. |  |
|  |  | Nimbahera | NBH Plant | 220000.00 | Financial Help for Promotion of Cultural programe in Ganesh Mahostasav and Navrratri in mining areas. |  |
|  |  | Nimbahera | NBH Plant | 300000.00 | Financtal Help for Construction temple at Bansa Village near by mining areas. |  |
|  |  | Nimbahera | NBH Plant | 150000.00 | Financlal Help for Promotion of Cultural programe (Srajan The Spark All India Mushaira) |  |
|  |  |  |  | 870000.00 |  |  |
| G.Total |  |  |  | 25497756.00 |  |  |

J.K. CEMENT WORKS , MANGROL Mangrol-Tilakhera Limestone Mines

| Sr. No. | Tipper Reg. No. | Make | Year |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | RJ09GB7728 | ASHOK-LEYLAND | Year | PUCC No. | Validity Upto |
| 2 | RJ09GB5728 | ASHOK-LEYLAND | 2012 | 3288 | 04.12.2018 |
| 3 | RJ09GB2828 | ASHOK-LEYLAND | 2016 | 3289 | 06.12.2018 |
| 4 | RJ09GB2728 | ASHOK-LEYLAND | 2014 | 3286 | 05.12.2018 |
| 5 | RJ09GB5928 | ASHOK-LEYLAND | 2014 | 3287 | 05.12.2018 |
| 6 | RJ09GB2528 | ASHOK-LEYLAND | 2016 | 3291 | 06.12.2018 |
| 7 | RJ09GB0028 | ASHOK-LEYLAND | 2014 | All new vehicles purchased in 2018 | 06.12.2018 |
| 8 | RJ09GB9928 | ASHOK-LEYLAND | 2018 |  |  |
| 9 | RJ09GC1128 | ASHOK-LEYLAND | 2018 |  |  |
| 10 | RJ09GC1228 | ASHOK-LEYLAND | 2018 |  |  |
| 11 | RJ09GC1428 | ASHOK-LEYLAND | 2018 |  |  |
| 12 | RJ09GB0043 | ASHOK-LEYLAND | 2018 |  |  |
| 13 | RJ09GB0048 | ASHOK-LEYLAND | 2018 |  |  |
| 14 | RJ09GB7628 | ASHOK-LEYLAND | 2013 | D17RJ01101002 |  |
| 15 | RJ09GB7828 | ASHOK-LEYLAND | 2014 | D17RJ01101001 | 04.04.2019 |
| 16 | RJ09GB9528 | ASHOK-LEYLAND | 2014 | D17RJ01101001 | 04.04.2019 |
| 17 | RJ09GB8228 | ASHOK-LEYLAND | 2014 | D17RJ0110099 | 04.04.2019 |
| 18 | RJ09GB8128 | ASHOK-LEYLAND |  | D17RJ01101320 | 29.04.2019 |
| 19 |  | ASHOK-LEYLAND | 2014 | D17RJ01101316 | 29.04.2019 |


| GROUND VIBRATION DETAILS(MANGROL-TILAKHERA MINES) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PERIOD :-- APRIL-2018 TO SEP-2018 |  |  |  |  |  |  |  |
| S.NO | DATE | LOCATON OF BLASTING | APPROX. DIST.OF INSTRUMENT FROM BLAST | NO OF HOLES | CHARGE <br> PER <br> DELAY <br> KGS. | PVS MM/SEC. | ACCESSORIES USED IN BLASTING |


| 1 | 5/4/2018 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2 | 17/05/2018 | IISE BENCH SOUTH BID17-1 | 250MTR.BACK SIDE OF FACE | 11 | 29.55 | 2.61 | NONEL DTH \& TLD |
| 3 | 26/05/2018 | IIINE BENCH SOUTH BID15--5 | 300MTR, BACK SIDE OF FACE | 7 | 28.57 | 1.52 | NONEL DTH \&TLD |
| 4 | 28/05/2018 | IINE BENCH SOUTH,BID17--5 | 300MTR,OPP. SIDE OF FACE | 12 | 31.95 | 1.04 | NONEL DTH \& TLD |
| 5 | 28/05/2018 | IV BENCH SOUTH,BID 14--4 | 300MTR.,BACK SIDE OF FACE | 9 | 32.1 | 3.4 | NONEL DTH \& TLD |
| 6 | 22/06/2018 | IST BENCH SOUTH BID17-6 | 300MTR., BACK SIDE OF FACE | 16 | 35.07 | 2.39 | NONEL DTH \& TLD |
| 7 | 22/06/2018 |  | 300MTR.,BACK SIDE OF FACE | 6 | 27.78 | 1.51 | NONEL DTH \&TLD |
|  |  | IST BENCH SOUTH BID18-1 | 250MTR.BACK SIDE OF FACE | 8 | 28.82 | 1.07 | NONEL DTH \& TLD |
| 8 | 25/06/2018 | IV BENCH SOUTH BID14-7 | 250MTR. IN THE LINE OF |  |  |  |  |
| 9 | 7/7/2018 | IIINE BENCH SOUTH BID16-3 | INITIATION | 8 | 30.56 | 0.79 | NONEL DTH \& TLD |
| 10 | 7/7/2018 | IIINE BENCH SOUTH,BID17--7 | 250MTR, IN THE LINE OF INITIATION | 9 | 29.32 | 1.56 | NONEL DTH \& TLD |
| 11 | 24/07/2018 | BENCH SOUTH,BID18--2 | 250MTR,BACK SIDE OF FACE | 9 | 29.32 | 2.19 | NONEL DTH \& TLD |
| 12 | 24/07/2018 | ENCH SOUTH, BID18--3 | 250MTR,OPP. SIDE OF FACE | 6 | 26.85 | 1.55 | NONEL DTH \& TLD |
| 13 | 26/07/2018 | IINE BENCH SOUTH,BID 18--4 | 250MTR.,BACK SIDE OF FACE | 6 | 25 | 3.4 | NONEL DTH \& TLD |
|  |  | IINE BENCH SOUTH,BID 18--4 | 250MTR.,BACK SIDE OF FACE | 8 | 33.34 | 3.06 | NONEL DTH \&TLD |
| 14 | 26/07/2018 | IINE BENCH SOUTH BID17--8 | 250MTR.,BACK SIDE OF FACE | 7 | 29.76 | 1.01 | NONEL DTH \& TLD |
| 15 | 30/07/2018 | IST NE BENCH SOUTH BID14-8 | 250MTR.BACK SIDE OF FACE | 14 | 31.57 | 1.1 | NONEL DTH \& TLD |
| 16 | 3/8/2018 | IINE BENCH SOUTH BID16--6 | 250MTR. IN THE LINE OF INITIATION | 4 | 25.7 | 1.02 | NONEL DTH \& TLD |
| 17 | 3/8/2018 | IINE BENCH SOUTH BID17--9 | 250MTR. IN THE LINE OF INITIATION | 7 | 24.6 | 3.4 | NONEL DTH \& TLD |
| 18 | 16/08/2018 | INE BENCH SOUTH BID14-9 | 250MTR.,BACK SIDE OF FACE | 12 | 27.5 | 1.49 | NONEL DTH \& TLD |
| 19 | 17/08/2018 | INE BENCH SOUTH BID14-10 | 250MTR.,BACK SIDE OF FACE | 12 | 27.7 | 1.78 | NONEL DTH \& TLD |
| 20 | 17/08/2018 | IINE BENCH SOUTH BID15--14 | 250MTR.,BACK SIDE OF FACE | 13 | 27.7 | 0.76 | NONEL DTH \& TLD |
| 21 | . 17/09/2018 | IINE BENCH SOUTH BID15--15 | 300MTR.,BACK SIDE OF FACE | 3 | 33.55 | 1.56 | NONEL DTH \&TLD |


| 22 | 18/09/2018 | IIS BENCH SOUTH BID17-10 | 257MTR.,BACK SIDE OF FACE | 10 | 33.61 | 2.3 | NONEL DTH \& TLD |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 23 | 20/09/2018 | INE BENCH SOUTH BID14-11 |  |  |  |  |  |
|  |  |  | 270MTR.,BACK SIDE OF FACE | 21 | 14.68 | 1.37 | NONEL DTH \& TLD |
| 24 | 25/09/2018 | IISE BENCH SOUTH BID18-8 | 270MTR.,BACK SIDE OF FACE | 6 | 25.93 | 1.37 | NONEL DTH \& TID |
| 25 | 25/09/2018 | INE BENCH SOUTH BID18--7 |  |  |  |  |  |
|  |  | NE BENCH SOUTH BID18--7 | 270MTR.,BACK SIDE OF FACE | 8 | 26.39 | 1.27 | NONEL DTH \&TLD |
| 26 | 27/09/2018 | INE BENCH SOUTH BID17-10 | 260MTR.,BACK SIDE OF FACE | 7 | 34.53 |  |  |
| 27 | 27/09/2018 | INE BENCH SOUTH BID18--9 |  |  |  | 1.88 | NONEL DTH \& TLD |
|  |  | WEENCH SOUTH BID18--9 | 260MTR.,BACK SIDE OF FACE | 7 | 26.98 | 1.36 | NONEL DTH \&TLD |

J.K. Cement WORKS, MANGROL AJ) TILAKHERA LIMESTONE MINE
SIX MONTHLY AMBIENT AIR QUALITY \& NOISE MO
SIX MONTHLY AMBIENT AIR QUALITY \& NOISE MONITORING REPORT

1) AMBIENT AIR QUALITY SPM RESULTS : ( ALL VALUES IN $\mu \mathrm{g} / \mathrm{M} 3$ )

| Month | Near Mine Office |  |  |  |  | Near Ravana Office |  |  |  |  | 3 to10 Meter Distance From DrillingOperation |  |  |  |  | Near loading point |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | SPM | PM10 | $\mathrm{SO}_{2}$ | Nox | CO | SPM | PM10 | $\mathrm{SO}_{2}$ | Nox | CO | SPM | PM10 | $\mathrm{SO}_{2}$ | Nox | CO | SPM | PM10 | $\mathrm{SO}_{2}$ | Nox | CO |
| Apr-18 | 372.0 | 49.3 | 11.3 | 23.2 | 629.8 | 436.0 | 54.2 | 13.8 | 26.4 | 744.3 | 472.0 | 57.4 | 18.6 | 35.4 | 801.5 | 429.0 | 50.1 | 15.4 | 30.4 | 687.0 |
| May-18 | 394.0 | 51.5 | 13.6 | 26.1 | 572.5 | 457.0 | 56.2 | 18.6 | 30.4 | 744.3 | 504.0 | 60.6 | 20.4 | 37.6 | 916.0 | 437.0 | 53.4 | 16.5 | 33.7 | 858.8 |
| Jun-18 | 368.0 | 48.3 | 10.8 | 23.2 | 515.3 | 397.0 | 52.3 | 14.4 | 26.4 | 744.3 | 437.0 | 54.6 | 17.4 | 30.2 | 858.8 | 378.0 | 46.4 | 12.4 | 24.2 | 629.8 |
| Jul-18 | 239.0 | 29.2 | 6.7 | 18.6 | 286.3 | 312.0 | 35.6 | 10.8 | 22.8 | 515.3 | 366.0 | 43.8 | 12.5 | 26.3 | 629.8 | 264.0 | 32.5 | 8.9 | 20.2 | 458.0 |
| Aug-18 | 255.0 | 24.5 | 7.2 | 20.4 | 400.8 | 332.0 | 33.4 | 11.4 | 25.6 | 629.8 | 380.0 | 45.7 | 14.7 | 23.4 | 744.3 | 289.0 | 35.4 | 9.4 | 22.1 | 400.8 |
| Sep-18 | 279.0 | 28.4 | 9.2 | 18.2 | 286.3 | 348.0 | 36.8 | 12.2 | 24.3 | 515.3 | 392.0 | 46.4 | 15.1 | 22.7 | 629.8 | 298.0 | 37.3 | 10.6 | 22.9 | 400.8 |

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

| Month | Near Mine Office |  |  | Near Ravana Office |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | NOISE LEVEL db(A) |  |  | Nay Time |  |
|  | Day Time | Night Time | 70.2 | 62.3 |  |
| Apr-18 | 68.6 | 59.8 | 68.7 | 59.6 |  |
| May-18 | 66.6 | 58.9 | 69.3 | 56.5 |  |
| Jun-18 | 67.2 | 55.8 | 67.5 | 55.6 |  |
| Jul-18 | 65.6 | 53.8 | 66.4 | 54.7 |  |
| Aug-18 | 64.2 | 52.8 | 65.5 | 53.1 |  |
| Sep-18 | 63.5 | 51.1 |  |  |  |

# Mitra S.K. Private Limited 

Shrachi Center ( 5 th Floor)
74 B , Acharya Jagadish Chandra Bose Road
Kolkata - 700016 , West Bengal India
CIN: U51909NB1956PTC023037
T: $913322172249 / 40143000 / 22650006 / 22650007$
F: 913322650008
E: info@mitrask.com
w: whw.mitrask.com

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

Distt, Chittorgarh ( Raj.)

Report No. : MSK/UDR/2018-19/944
Date $\quad 31.08 .2018$
Sample No. : MSKGL/ED/2018-19/08/01649
Sample Deseription : Ambient Air
Sampling Location : Arnia Joshi Village ( Tilakhera Mine)
Date of Sampling : 20/21.08.2018

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 | 69 | 1S: 5182:(Part-2,3)-2006 |
| 2 | Particulate matter ( $\mathrm{PM}_{2, s}$ ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 60 | 34 | USEPA CFR-40,Part-50, Appendix-1. |
| 3 | Sulphur dioxide( SO2) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 80 | 5.0 | IS: 5182 (Part-2)-2001 |
| 4 | Nifrogen dioxide ( NO 2 ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 80 | 20.2 | 1S: 5182 (Pari-6)-2006 |
| 5 | Carbon monoxide(CO) $\mathrm{in} \mathrm{mg} / \mathrm{m}^{3}$ | 2 | 0.22 | IS 5182:(Part-10) :1909 |

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

$0 f_{7} 7$

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

Distt. Chittorgarh ( Raj.)

Report No, : MSK/UDR/2018-19/945
Date ; 31.08.2018
Sample No, : MSKGL/ED/2018*19/08/01650
Sample Deseription : Ambient Air
Sampling Location : Near Loading Poim ( Tilakhera Mine)
Date of Sampling : 20/21.08.2018

Reference No.d 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 | 96 | IS: 5182:(Part-23)-2006 |
| 2 | Particulate matter( $\mathrm{PM}_{2.5}$ ) in $\mathrm{\mu g}^{\mathrm{g} \mathrm{m}^{3}}$ | 60 | 52 | USEPA CFR-40, Part-50. Appendix-L |
| 3 | Sulphur dioxide( $\mathrm{SO2}$ ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 80 | 6.9 | IS: 5182 (Part-2)-2001 |
| 4 | Nitrogen dioxide ( $\mathrm{NO}_{2}$ ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 80 | 29.4 | IS: 5182 (Part-6)-2006 |
| 5 |  | 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 

## Name $\mathbb{\&}$ Address of the Customer :

J.K. Cement Works, Mangrol

Distt. Chittorgarh ( Raj.)

Report No. : MSK/UDR/2018-19946
Date : 31.08.2018
Sample No. : MSKGL/ED/2018-19/08/01651
Sample Description : Ambient Air
Sampling Location : Near Mine Office (Tilakhera Mine)
Date of Sampling : $23 / 24.08 .2018$

Reference No.\& Date : e-mail did: 07,06,2018

| SL. N0, | Pollutants | Limit | Result | Method of Test Refference |
| :---: | :---: | :---: | :---: | :---: |
| 1 | Particulate matter ( $\mathrm{PM}_{16}$ ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 100 | 87 | IS: 5182:(Part-23)-2006 |
| 2 | Particulate watter( $\mathrm{PM}_{3.5}$ ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 60 | 49 | USEPA CFR-40, Part-50, Appendix-L |
| 3 | Sulphur dioxide ( SO 2 ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 80 | 6.3 | 1S: 5182 (Part-2)-2001 |
| 4 | Nitrogen dioxide ( NO 2 ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 80 | 24.8 | IS: 5182 (Part-6)-2006 |
| 5 | Carbon monoxide( CO ) in mg/m ${ }^{3}$ | 2 | 0.37 | IS 5182:(Part-10):1999 |

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


T; $913322172249 / 40143000 / 22650006 / 22650007$
F: 913322650008
E: info@miffask.com
w: whw.mifrask.com

## Name $\&$ Address of the Customer :

J.K. Cement Works, Mangrol

Distt. Chittorgarh (Raj.)

Report No. : MSK/UDR/2018-19/947
Date : 31.08,2018
Sample No. : MSKGLED/2018-1908/01652
Sample Description : Ambient Air
Sampling Location : Near Ravana Office ( Tilakhera Mine)
Date of Sampling : 23/24.08.2018

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 | 81 | IS: $5182:($ Part-23)-2006 |
| 2 | Particulate matter ( $\mathrm{PM}_{2.5}$ ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 60 | 42 | USEPA CFR-40.Part-50, Appendix-L |
| 3 | Sulphur dioxide (SO2) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 80 | 5.7 | 1S: 5182 (Part-2)-2001 |
| 4 | Nitrogen dioxide ( NO 2 ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 80 | 24.4 | 1S: 5182 (Part - 6)-2006 |
| 5 | Carbon monoxide(CO) in $\mathrm{mg} / \mathrm{m}^{3}$ | 2 | 0.39 | 1S5182:(Part-10):1999 |

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



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

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

Distt, Chittorgarh ( Raj.)

Report No. : MSK/UDR/2018-19/948
Date :31.08.2018
Sample No. : MSKGL/ED/2018-19/08/01653
Sample Description : Ambient Air
Sampling Loention : Near Shahbad (Tilakhera Mine)
Date of Sampling : 23/24,08.2018

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 | 64 | 18:5182:(Part-23)-2006 |
| 2 | Particulate matter ( $\mathrm{PM}_{2.5}$ ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 60 | 30 | USEPA CFR=40, Part-50, Appendix-L. |
| 3 | Sulphur dioxide (SO2) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 80 | 4.4 | 1S: 5182 (Part-2)-2001 |
| 4 | Nitrogen dioxide (NO2) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 80 | 18.6 | IS: 5182 (Part-6)-2006 |
| 5 | Carbon monoxide(CO) in mg/m ${ }^{3}$ | 2 | 0.18 | 15 5182:(Part-10):1909 |

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


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

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

Distt. Chittorgarh (Raj.)

Report No. ; MSK/UDR/2018-19/943
Date : 31.08.2018
Sample No. : MSKGL/ED/2018-19/08/01648
Sample Description : Ambient Air
Sampling Location : 3-10 Meter Distance from Drilling
Operation (Tilakhera Mine)
Date of Sampling : 20/21.08.2018

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

| SL. N0, | Pollutants | Limit | Result | Method of Test Refference |
| :---: | :---: | :---: | :---: | :---: |
| 1 | Particulate matter ( $\mathrm{PM}_{18}$ ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 100 | 95 | IS:5182:(Parl-23)-2006 |
| 2 | Particulate matter ( $\mathrm{PM}_{2.5}$ ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 60 | 51 | USEPA CFR-40.Part-50. Appendix-1. |
| 3 | Sulphur dioxide( SO2) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | S0 | 6.3 | 1S: 5182 (Part-2)-2001 |
| 4 | Nitrogen dioxide ( NO 2 ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 80 | 25.4 | 15:5182 (Part-6)-2006 |
| 5 | Carbon monoxide(CO) in $\mathrm{mg} / \mathrm{m}^{3}$ | 2 | 0.32 | IS 5182:(Part-10):1999 |



## Mitra S.K. Private Limited

Shrachi Center (5th Floor)
74B, Acharya Jagadish Chandra Bose Road
Kolkata - 700016 , West Bengal India
CIN: U51909NB1956PTC023037
T: $913322172249 / 40143000 / 22650006 / 22650007$
F: 913322650008
E: info@mitrask.com
w: waw mitrask.com

## TEST REPORT

## Name \& Address of the Customer :

J.K. Cement Works, Mangrol

Distt. Chittorgarh ( Raj.)

Report No. : MSK/UDR/2018-19/957
Date :31.08.2018
Sample No. : MSKGL/ED/2018-19/08/01675 \& 01676
Sample Description : Noise Monitoring (Tilakhera Mine)

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

## ANALYSIS RESULT

| SI. No. | Sampling Date | Sampling Location | Results Leq dB(A) |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | Day Time | Night Time |
| 1. | 23/24.08.2018 | Near Mine Office (Tilakhera Mine) | 59.8 | 46.5 |
| 2. |  | Near Ravana Office (Tilakhera Mine) | 57.3 | 45.0 |
| Limit As per CPCB (Environment Protection Rules, 1986) |  | in Industrial Area Leq dB(A) | 75 | 70 |



Name \& Adress of the Customer :
J.K. Cement Works, Dangrol

Dist. Chitorgarh ( Ray.)

Report No. : MSK 1 DR 2018 -19 370
Date : 30,06.3018
Sample So. : MSK(il ED) 2018-19060111?
Sample Deseription : Ambient Air
Sumpling Location : 3-10 Meter Distance from Drilling Operation (Tilakhera Mine)
Date of Sampling : 15/16.06.2018

Reference No. $\mathrm{S}_{\mathrm{D}}$ Date : exmail dd: 07.06.2018

| S1. N0. | Pollutants | Limit | Result | Method of Test Refference |
| :---: | :---: | :---: | :---: | :---: |
| 1 | Particulate matter (PM1 ${ }_{\text {a }}$ ) in $\mu \mathrm{m} / \mathrm{m}^{3}$ | 100 | 90 | 15:5182:(Part-23)-2000 |
| 2 | Particulate matter ( $\mathrm{PM}_{2.5}$ ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 60 | 48 | USEPA (FR-40.Part-50. Appendix-1. |
| 3 | Sulphur dioxide ( 502 ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 80 | 6.8 | 15: 5182 (Patr-2) 2001 |
| 4 | Nitrogen dioxide (NO2) in $\mu \mathrm{m} / \mathrm{mb}^{3}$ | 80 | 28.9 | IS: 5182 (Part $\times 6)-2006$ |
| 5 | Carbon monovide( CO ) in $\mathrm{mg} / \mathrm{m}^{3}$ | 3 | 0.39 | 15 5182:(13am-10):1909 |
| 6 | Ozone (O3) in $\mu \mathrm{m} / \mathrm{m}^{3}$ | 180 | $=19.62$ | Wethod of Air sampling. 3nt T.dn, lsy dames P. Lodge (Vethod-111) |
| 7 | Ammonia (N113) in $1 \mathrm{mg} / \mathrm{mb}^{3}$ | 100 | 33.6 | Wethed of Air sampling. Srd I dn. By Jance P. Lodee (vathod - 101 ) |
| 8 | L.ead ( Pb$)$ in $1 \mathrm{~g} / \mathrm{m}^{3}$ | 1 | 0.22 | 1:PA-103.2 |
| 9 | Nickel (Ni) in $\mathrm{ng} / \mathrm{m}^{3}$ | 30 | 9,33 | EPA-10 3n |
| 10 | Arsenic (As) in ng/m ${ }^{3}$ | 6 | $\bigcirc 1.0$ | APHA $23 \mathrm{nd}-31110$ |
| 11 | Benzene (C6II6) in $19 / \mathrm{m}^{3}$ | 5 | <2.08 | Is 5182 : Part. I1: 2006 |
| 12 | Benzo(a) wrene (BaP) in ugim ${ }^{\text {a }}$ | 1 | 0.4 | 15 5182: Part. 12:2004 |

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


# Mitra S.K. Private Limited 

Name \& Address of the Customer :
d.K. Cement Works, Mangrol

Distu, Clittorgarh (Raj.)

Report No. : NSk 110 R 2018-193?1
Date : 30.06.2018
Sample No. : MSk (il PD2018-190601 +13
Sample Description : Ambient Air
Sampling Iocation : Amia Joshi Village (Tilakhera Mine)
Date of Sampling : 1617.062018

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 $\mu \mathrm{g} / \mathrm{ma}^{3}$ | 100 | 76 | 1S:5182:(Part-23)-2006 |
| 2 | Particulate matter ( $\mathrm{PM}_{2.5}$ ) in $\mu \mathrm{g}^{\prime} \mathrm{m}^{3}$ | 60 | 38 | 1SEPA CIR-40.Par-50, Appendix-1. |
| 3 | Sulphur dioside (SO2) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 80 | 5.4 | 15: 5182 (Part-2)-2001 |
| 4 |  | 80 | 22.8 | 18:5182 (Part-6)-2006 |
| 5 | Carbon monoxide( CO ) $\mathrm{im} \mathrm{mg} / \mathrm{m}^{3}$ | 3 | 0,38 | 15 5182:(Patt-10):1990 |
| 6 | Ozone (O3) in $\mu \mathrm{L} / \mathrm{m}^{3}$ | 180 | -14.62 | Method of Air simpling. Ird Eide, By James P. I.odge (Method-111) |
| 7 | Ammonis (N113) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 100 | 19.6 | Method of Air sampling. 3rd lidn. By James P. Ledge (Method +101 ) |
| 8 | 1 ead (Pb) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 1 | 0.02 | - 1P1.10.2 |
| 9 | Vickel (Ni) in ngem ${ }^{3}$ | 20 | <4,0 | 1P1-10 + 2 |
| 10 | Arsenic (As) in $n \mathrm{~g} / \mathrm{m}^{3}$ | 6 | <10 | AP\\|A 22nd-3114C |
| 11 | Benzene (C6H6) in $\mu \mathrm{g} \mathrm{m}^{3}$ | 5 | -2.08 | 155182: Part. 11:2006 |
| 12 | Benko(a) myrene ( BaP ) in $n{ }^{\text {a }} \mathrm{m}^{3}$ | 1 | $\bigcirc 0.4$ | IS 5182 : Part. 12:2004 |

Note : I imit as per (PCB notitication, New Dethi, 18 th November 2009, For Ambient air Quality



# Mitra S.K. Private Limited 

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

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

Dist, Chitorgarh ( Rai.)

Report No. : MSKUDR 2018-10/372
Date : 30.06.2018
Sample No. : MSKGil/D $2018-100601414$
Sample Deseription : Ambient Air
Sampling Location : Near Loading Point (Tilakhera Mine)
Date of Sampling: 1617.06 .2018

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

| SL. N0. | Pollutants | Limit | Result | Method of Test Refferenee |
| :---: | :---: | :---: | :---: | :---: |
| 1 | Particulate matter (PA1 10 ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 100 | 94 | IS: 5182:(Part-23)-2006 |
| 2 | Parfieulate matter (PM 2.5 ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 60 | 56 | USEPA (FR-10.Pam-30. Appendix-1 |
| 3 | Suphur dioxide (SO2) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 80 | 6.3 | 15:5182 (Part-2)-2001 |
| 4 | Nitrogen dioxide ( NO 2 ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 80 | 27.2 | IS: 5182 (1)art-6)-2006 |
| 5 | Carbon monoxide(CO) in $\mathrm{mg} / \mathrm{m}^{3}$ | 2 | 0.34 | 15 5182:(Part-10):1999 |
| 6 | Orone (O3) in $\mu \mathrm{m} / \mathrm{mb}^{3}$ | 180 | 8 19.6 | Method of Air sampling. Ird Edn. By James P. Lodge (Method-411) |
| 7 | Ammonia ( N 113 ) in $\mu \mathrm{m} / \mathrm{m}^{3}$ | 100 | 22.1 | Method of Air sampling. Ird lidn. By James I? Lodge (Mathod-401) |
| 8 | $\text { Lead }(\mathrm{Pb}) \text { in } \mathrm{Hg} / \mathrm{m}^{3}$ | 1 | 0,23 | 1P1.103, ${ }^{\text {P }}$ |
| 9 | Vickel (Ni) inng/m | 20 | 8.4 | IPA-103,2 |
| 10 | Arsenic (As) in ngem ${ }^{3}$ | 6 | -1.0 | APIA 22 nd - 3114 C |
| 11 | Benzene (CGll (i) in $\mu \mathrm{g} \mathrm{mm}^{3}$ | 5 | - 2.08 | 15 5182 Pmi 11:2006 |
| 12 | Benzo(a) pyrene ( BaF ) in ng/m | 1 | 0.4 | 15 5182: Part 12:2004 |

Vote : Iimit as per (PCB notification. New Delhi, I8th November 200\%, For Ambient air Quality


# Mitra S.K. Private Limited 

Shrachi Center (5th Floor)
74 B , Acharya Jagadish Chandra Bose Road
Kolkata-700 016, West Bengal India
CIN: U51909WB1956PTC023037
T: $913322172249 / 40143000 / 22650006 / 2265000$ ?
F: 913322650008
E: info@mitrask com
w: www.mifrask.com

Name \& Address of the Customer:
d.K. Cement Works, Dangrol

Dist. Chittorgath (Ray.)

Report No, : MSK।IDR/2018-19/373
Date $: 30.06 .2018$
Sample No. : MSKCil ID $2018-190601+15$
Sample Description: Ambiem Air
Sampling Location : Near Mine Onlice (Tilakhera Mine)
Date of Sampling : 15/16.06.2018

Reference No. $\mathbb{W}$ Date : e-mail did: $07,06.2018$

| SI. N0, | Pollutants | 1 imit | Resilil | Method of Test Refference |
| :---: | :---: | :---: | :---: | :---: |
| 1 | Particulate matter ( $\mathrm{PH}_{10}$ ) in $\mu / \mathrm{mm}^{3}$ | 100 | 80 | IS: 5182:(Part-23)-2006 |
| 2 | Particulate mafter ( $\mathrm{PM}_{2,5}$ ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 60 | 4 | LSEPA CHR-40. ${ }^{\text {art-50. Appendix-1 }}$ |
| 3 | Sulphtrr dioxide( SO2) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 80 | 5.8 | IS: 5182 (Parl-2)-2001 |
| 4 | Nitrogen dioxide ( NO 2 ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 80 | 26.8 | 1S:5182 (Parl-6)-2006 |
| 5 | Carbon monoxide( CO ) in $\mathrm{mg} / \mathrm{m}^{3}$ | 2 | 0.34 | IS 5182:(Part-10):1999 |
| 6 | Orane (03) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 180 | $\times 19.62$ | Method of Air sampling, 3rd Edn. By James P. Lodge (Method +111) |
| 7 | Ammonia (NIH3) in $1 \mathrm{~g} / \mathrm{m}^{3}$ | 400 | 21.4 | Method of Air sampling, 3nd Vidn. By James P. Lodece (Method-401) |
| 8 | L. ead (Pb) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 1 | 0.17 | 1:PA-103.2 |
| $\frac{9}{10}$ | Nickel ( Ni ) in ng/m ${ }^{3}$ | 20 | 6.54 | 1PA-103.2 |
| 10 | Arsenic ( $\Delta s$ ) in ngom ${ }^{\text {a }}$ | 6 | 51.0 | AP114 23nd-311. C |
| 11 | Benzene ( 60116 ) in $11 \mathrm{~g}^{\text {/ }}$ ( ${ }^{3}$ | 5 | 2.08 | 15.8182: Pam. $11: 3006$ |
| 12 | Benzo(a) pyrene (BaP) in $\mathrm{ng} / \mathrm{m}^{3}$ | 1 | 0.4 | 155182:P.m\% 12:2004 |

Vote : Limit as per CPCB notitication. New Delhi, I8th Noxember 2009. For Ambient air Quality



## Name \& Address of the Cinstomer:

J.K. Cement Works. Mangrol

Disit. Chittorgam ( Raj.)

Report No. : MSKUDR2018-19374
Date : 30.06.2018
Sample No, : MSKGLED/2018-190601416
Sample Description : Ambient Air
Sampling Location : Near Ravana Otfice ( Tilakhera Mine)
Date of Sampling : $15 / 16.06,2018$

Reference No.d Date : e-nail dtd: $07,06,2018$

| SI. N0. | Pollutants | I imit | Result | Method of Test Refference |
| :---: | :---: | :---: | :---: | :---: |
| 1 | Particulate matter ( $\mathrm{PH}_{10}$ ) in $\mu \mathrm{g} \mathrm{mm}^{3}$ | 100 | 84 | 15:518? (1ant-23)-2006 |
| 2 | Particulate matter $\mathrm{P}^{1} 1_{2,}$ ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 60 | 40 |  |
| 3 | Sulphur dioside ( 502 ) in $\mu \mathrm{m} / \mathrm{m}^{3}$ | 80 | 6.2 | 15:5182 (Part-2)-2001 |
| 4 | Nitrogen dioxide ( NO 2 ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 80 | 27.0 | 15:5182 (Part-6)-2006 |
| 5 | Carbon monoxide( CO ) in me/m $\mathrm{m}^{3}$ | 2 | 0.36 | IS 5182:(Pam-10):1999 |
| 6 |  | 180 | 410.62 | Method of Air sampling. Brd Ein. By lames P. Lodge (Method-411) |
| 7 | Ammonia ( NHI 3 ) in $\mu \mathrm{m} / \mathrm{m}^{3}$ | 400 | 19.6 | Method of Air sampling, 3rd Edn. By James P. Lodge (Method-401) |
| 8 | Lead ( Pb ) $\mathrm{in} 11 \mathrm{~g} / \mathrm{m}^{3}$ | 1 | 0.20 | FPA-1032 |
| 9 | Nickel (Ni) in $n \mathrm{ng}^{\mathrm{d}}$ | 20 | 7.84 | 1PP-103.2 |
| 10 | Arsenic (As) in $11 \mathrm{~m} / \mathrm{m}^{3}$ | 6 | 1.0 | AP11A 23nd-3114C |
| 11 | Benzene ( $C$ (6116) in $1 \mathrm{~g} / \mathrm{m}^{3}$ | 5 | 2.08 | 15 5182: Part $11: 2006$ |
| 12 | Bemzota) pyrene ( BaP ) in $\mathrm{ng} / \mathrm{m}^{3}$ | 1 | 0.4 | 155182:Part. 12;2004 |

Note : Limit as per (PCB motifieation, New Delli, I8th Vosember 2009, For Ambemt atr Quality


T: $913322172249 / 40143000 / 22050006 / 22650007$
F: 913322650008
E: infocimitrask.com
w: www.milrask.con

Name d Address of the Customer :
J.K. Cement Works, Mangrol

Dist. Chittorgarh ( Raj.)

Report No. : MSKUDR2018-19,375
Date : 30.06 .2018
Sample No. : MSKGI FD/2018-190001417
Sample Description: Ambient Air
Sampling Location : Near Shahbad ( Tilakhera Mine)
Date of Sampling ; $16 / 17.06 .2018$

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

| SI. N0. | Pollutants | Limif | Resulf | Method of Test Refference |
| :---: | :---: | :---: | :---: | :---: |
| 1 | Particulate matter ( $\mathrm{P}^{\text {d }} 1_{16}$ ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 100 | 72 | IS: 5182:(Part-23)-2006 |
| 3 | Particulate matter ( P $\mathrm{I}_{2,5}$ ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 60 | 31 | 1SEPA CFR-40. Part-30. Appendix-1. |
| 3 | Sulphur dioxide ( 502 ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 80 | 5.0 | 15:518? (Patr-7)-2001 |
| 4 | Nitrogen diovide ( NO 2 ) in $\mu \mathrm{m} / \mathrm{m}^{3}$ | 80 | 19.7 | 1S:518.2 (Patm-6) -2006 |
| § | Carbon monoxider( 0 ) in my/m ${ }^{3}$ | 2 | 0.32 | 15 5182:(Part-10):1099 |
| 6 | Orone (03) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 180 | 19.6. | Bethod of dir sampling ind Edn. By James P. Lodge (Method-111) |
| 7 |  | 400 | 17.6 | Method of Air sampling. 3rd lidn. By James P. Lodege (llethod-401) |
| 8 | $\text { Lead (Pb) in } 1 \mathrm{~g} / \mathrm{m}^{3}$ | 1 | -0.02 | EPA-103.2 |
| 9 | Nickel (Ni) in $n \mathrm{~L} / \mathrm{m}^{3}$ | 20 | 4.0 | EPA-103.2 |
| 10 | Arsenic (As) in ng/m ${ }^{3}$ | 6 | 4.0 | APlla 22 nd -3114C |
| 11 | Benzene (C6H6) in Ha/m ${ }^{3}$ | 5 | $\bigcirc 2.08$ | 15 5182: Part. 11:2006 |
| 12 | Benzo(a) pyrene ( BaP) in $\mathrm{ng} / \mathrm{m}^{3}$ | 1 | 00.4 | 15 5182: Part. $12: 2004$ |

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


# Mitra S.K. Private Limited 

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

Name d Adress of the Customer :

## d.K. Cement Works, Mangrol

Distt. Chittorgarh (Raj.)

Repori No, : MSN:DDR/2018-19:375
Date :30.06.2018
Sample No. : MSKCiL. 1 DD 2018 -1900.01417
Sample Description : Ambient Air
Sampling Location : Near Shahbad ( Tilakhera Mine)
Date of Sampling ; 1617.06.2018

Reference No. S Date : e-mail ddd: 07,06.2018

| SI. N0. | Pollutants | Limit | Result | Method of Test Refference |
| :---: | :---: | :---: | :---: | :---: |
| 1 | Particulate matter (P)1 16 ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 100 | 72 | 15:5182:(Part-23)-2006 |
| 3 | Particulate matter (P)1,s) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 60 | 3.1 | USEPA CPR-40.Part-30. Appendix-1. |
| 3 | Sulphur dioxide ( SO 2 ) in $\mu \mathrm{g} / \mathrm{m}^{3}$ | 80 | 5.0 | 15:518. Pant-2)-2001 $^{\text {P }}$ |
| 4 | Nitrogen dioxide ( $\mathrm{NO}_{2}$ ) in $\mu \mu / \mathrm{m}^{3}$ | 80 | 19.7 | 1S:518.2 (Patt-6)-2006 |
| 5 | Carbon monoxider ( $O$ ) $\mathrm{in} \mathrm{my} / \mathrm{m}^{3}$ | 2 | 0.22 | 15 5182:(Pam-10):1999 |
| 6 | Orone (03) in $\mathrm{mg}^{\text {/ }}{ }^{3}$ | 180 | -19,6. | Mothod of Dir sampling ind Edon. By James P. Lodge (Method-41) |
| 7 |  | 400 | 17.6 | Method of Air sampling. 3rd B.dn. By James P. Lodge (thonod-401) |
| 8 | $\text { Lead }(P) \text { in } \mu \mathrm{g} / \mathrm{m}^{3}$ | 1 | -0.02 | EPA-103.2 |
| 9 | Nickel (Ni) in ne/m ${ }^{3}$ | 20 | 1.0 | 1PA-103.2 |
| 10 | Arsenic (As) in $1 \mathrm{~g} / \mathrm{m}^{3}$ | 6 | 1.0 | APHA $22 \mathrm{nd}-3114 \mathrm{C}$ |
| 11 | Benrene ( C 6116 ) in $\mathrm{Hg} / \mathrm{m}^{3}$ | 5 | +2.08 | Is 5182: Part. 11:2006 |
| 12 | Benzo(a) pyrene (BaP) inn ${ }^{\text {atm }}$ | 1 | 50.1 | 15 5182: Part. 12:2004 |

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



$$
0_{0}
$$

14B, Acharya Jagadish Chandra Bose Road
Kolkata - 700 016, West Bengal India
CIN: U51909WB1956PTC023037
T: $913322172249 / 40143000 / 22650006$ / 22650007
F: 913322650008
E: infogmitrask.com
w: www.mitrask.com

## TEST REPORT

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

Distt, Chitorgarh (Raj.)

Report No. : MSKUDR/2018-19:409
Date : 30.06.2018
Sample No. : MSKGiLED 2018-190001451 \& 01452
Sample Deseription : Noise Monitoring

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

## ANALYSIS RESULT

| St. No. | Sampling Date | Sampling Location | Results Leq dB(A) |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | Day Time | Night Time |
| 1. | 1516.06, 2018 | Near Mine Office (lilakhera Mine ) | 58.6 | 48.7 |
|  |  | Near Ravana Omice (Tilakhera Mine) | 55.9 | 14.6 |
| $\begin{aligned} & 1.1 \\ & \text { (1:m) } \end{aligned}$ | As per CPCB momen Protection ules. 1986) | in Industrial Area I eq dB(A) | 75 | 70 |



