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

CIN : L17229UP1994PLC017199

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

Our Ref. No.: NBH/PC-14/ 3585

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 Nimbahera-Ahirpura Limestone Mine.

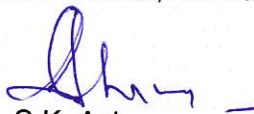
Dear Sir,

Kindly refer Environmental Clearance letter No. J-11015/83/2004-IA.II dated. 30th May 2005 of our **Nimbahera – Ahirpura 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,

Yours Faithfully
For J.K. Cement Works, Nimbahera


S.K. Acharya
(Technical Head)

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, 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



Compliance report of Environment Clearance for Nimbahera - Ahirpura Lime Stone Mine

(For the Period from April 2018 to September 2018)

Reference Letter from MOEF, New Delhi - J-11015/83/2004-IA.II Dated 30.05.2005

S.No.	Condition	Status
	(A) Specific Conditions	
(I)	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 23.02.1968 and it was renewed (Second renewal) from 23.02.1998. Approval, for agriculture land used for Mining has been taken. No mining will be carried out before taking approval for non-agricultural use.
(II)	Topsoil and wastes, if any, should be stacked properly with proper slope at earmarked site(s) with adequate measures and should be used for reclamation and rehabilitation of mined out area.	Agreed and being used for plantation only.
(III)	Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from soil and mineral dumps. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains should be regularly desilted and maintained properly. Garland drain (size, gradient & length) and sump capacity should be designed keeping 50% safety margin over and above the peak sudden rainfall 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.	Garland drain system maintained all around the mining pit, outside the mining limit for proper water harvesting. Check dams & siltation ponds are provided to control the inflow of sediments, silt in & around the mine working. There is no generation of waste except interstitial clay & all the blasted material is used for manufacturing of cement.
(IV)	Green belt should be raised within and out site lease area and also along the roads. In addition to the existing 30.81 ha area brought under plantation, an additional area of 2.2 ha. should be brought under green belt development by planting the native plant species in consultation with local DFO/ Agriculture Department. The density of the trees should be around 2500 plants per ha.	Agreed, Plantation done during the year 2018-19 (upto sept. 2018) within lease 1110 nos. plants covering 0.71 ha. new area, Outside lease 120 nos. plants covering 0.40 ha new area. Total Planation done till date is 144208 nos. in inside and 153824 nos. in outside lease area. Survival rate of plantation is 60.59% inside lease area and 55.1% outside lease area. Total plantation covered area till date is 46.60 ha in inside lease area and 16.05 ha outside lease area and green belt of 25.80 ha area.
(V)	The project authority should implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, Control Ground Water Board.	Surface water during rainy season is collected in the lower bench of the mine to augment ground water resources. 1. Pit measuring 160mx51mx3.5m has been constructed in south side of cement plant to collect rainy water to augment water resources of nearby area. 2. Anicut & check dams have been constructed in the nallah draining the mining pit. 3. Constructed injection wells with filter pit in premises of plant & colony.
(VI)	Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells and constructing new piezometers during the mining operation. The monitoring should 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 MOEF, Central Ground Water Authority and Regional Director Central Ground Water	Reports are being sent regularly on schedule time. Last report of Ground Water Level & Quality for monsoon season (August' 2018) was sent on 06/09/2018, vide letter no. NBH/PC-14/2457.

	Board.	
(VII)	The project authorities should obtain prior approval of the competent authority for drawal of groundwater required for the project.	We have obtained approval from the competent authority for withdrawal of ground water vide letter no. 21-4(34)/WR/CGWA/2005-907 Dated 14/05/2018.
(VIII)	Suitable rainwater harvesting measures on long term basis shall be planned and implemented in consultation with Regional Director, CGWB.	Agreed, Rain water is harvested during rainy season in the bottom most benches.
(IX)	The mineral handling plant should be provided with 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.	Water spray is being done at crusher unloading hopper. Bag filter have been provided in crusher plant to prevent dust emission. Regular water spraying by deploying water tanker is done in the mineral handling area.
(X)	Consent to operate should be obtained from SPCB for the enhanced production.	Obtained vide letter No. F(Mines)/Chittorgarh (Nimbahera)/1869(1)/2017-2018/ 2136 - 2140 dated 20.06.2017 (for five years) under air & water act.
(XI)	Vehicular emission should be kept under control and regularly monitored.	Agreed. Copy of PUC is enclosed as <i>annexure-I</i>
(XII)	Blasting operation should be carried out only during the daytime. Controlled blasting should 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, Non Electric detonator, Regular monitoring of ground vibration is being practised. Vibration report is enclosed as <i>annexure-II</i>
(XIII)	Drills should either be operated with dust extractors or should be equipped with water injection system.	Arrangement of wet drilling in all drill M/C is made to suppress the dust at its generation itself.
(XIV)	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.	Agreed, We have submitted report of digital processing in the entire lease area on 29/03/2017 vide Letter No. - NBH/PC-14/055.
(XV)	A Final Mine Closure Plan along with details of Corpus Fund should be submitted to the Ministry of Environment & Forest 5 years in advance of final mine closure for approval.	Progressive mines closure plan is prepared along with approved Modified Mining Plan. No plan of mine closure in coming 5 years.
	(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.	Agreed, Mining is being in accordance with approved Modified Mining Plan.
(II)	No change in the calendar plan including excavation, quantum of mineral limestone and waste should be made.	Agreed, Mining is being in accordance with approved Modified Mining Plan.
(III)	Conservation measures for protection of flora and fauna in the core & buffer zone should be drawn up in consultation with the local forest department and experts.	Agreed and it is being done accordingly.
(IV)	At least four ambient air quality monitoring station should be established in the core zone as well as the buffer zone for RPM, SPM, SO ₂ , NO _x , and CO monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Data on ambient air quality (RPM, SPM, SO ₂ , NO _x , and CO) should be regularly submitted to the Ministry including its Regional Office at Lucknow and to the State Pollution Control Board / Central Pollution Control Board once in six months.	Monitoring report is being sent to the concerned authority on six monthly basis. Latest report on Ambient Air Monitoring is enclosed as <i>annexure-III</i>
(V)	The data on environmental quality should be collected and analysed either through an in-house environmental laboratory established with adequate number and type of pollution monitoring and analysis equipment or got analysed through an approved laboratory under the Environment (Protection) Rules, 1986 in consultation with the State Pollution Control Board.	Agreed. We are carrying out regular environment quality monitoring through in house Environment Laboratory. We have adequate no. and type of pollution monitoring & analysis equipment.

(VI)	Fugitive dust emissions from all the sources should be controlled regularly monitored and recorded properly. Water spraying arrangements on haul roads, wagon loading, dumps, loading & unloading points should be provided and properly maintained.	Agreed & being implemented to control fugitive dust emission by regular water spraying arrangements.
(VII)	Adequate measures should be taken for control of noise levels within prescribed standards. Workers engaged in blasting and drilling operations, operations of HEMM, etc. should be provided with ear plugs/muffs.	Regular maintenance (including silencer, cabin) of HEMM being done to keep noise level within the specified limits.
(VIII)	Industrial wastewater (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422(E) dated 19th May 1993 and 31st December 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of effluents from workshop.	Agreed, Generated waste water collected in pit and use in dust suppression in coal yard. Oil & grease trap has been constructed at the service station before discharge of effluent from workshop and trapped oil and grease is sold to authorized recycler.
(IX)	Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and healthy aspects. Occupational health surveillance programme of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.	Persons engaged in drilling, dozing & loading have been provided with dust masks. VT is being provided as under required VT Rules. Regular periodic check-up of workers is being carried out.
(X)	Environmental laboratory should be established with adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board.	We have environmental laboratory with sufficient pollution monitoring & analysis equipment.
(XI)	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 organisation.	A separate environmental management cell with adequate qualified personnel is already established.
(XII)	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 Regional Office, Lucknow of the MOEF and to the Ministry.	A separate fund is kept for environment protection measures & report is being sent regularly to the concerned authority. Environment expenditure for 2017-2018 and Proposed FY Budget 2018-2019 detail report is already submitted vide letter no. NBH/PC-14/1009 dated 29.05.2018.
(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 requisite data/information/monitoring reports.	Agreed. We extend full cooperation to the officer(s) of the Regional Office by furnishing requisite data/information/monitoring reports.
(XIV)	A copy of the clearance letter will be marked to the concerned Panchayat / local NGO, if any, from whom any suggestions / representation has been received while processing the proposal.	Agreed
(XV)	The project authorities should inform to the Regional Office located at Lucknow regarding date financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	Agreed
(XVI)	State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industry Centre and Collector's / Tehsildar's Office for 30 days.	Complied
(XVII)	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 may also be seen 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 at Lucknow.	Already done & the necessary information already sent to the concerned authority.

J.K. CEMENT WORKS, NIMBAHERA
J.K. Cement Limestone Mine (Ahirpura Block)

Date- 20.04.2018

PUC Certificate Details

Sr. No.	Tipper Reg. No.	Make	Year	PUCC No.	Validity Upto
1					
2					
3					
4					
5					

Raising and transportation activity has been closed at Ahirpura Block

J.K. CEMENT WORKS, NIMBAHERA
J.K. Cement Limestone Mine (Murlia Block)

PUC Certificate Details

Sr. No.	Tipper Reg. No.	Make	Year	PUCC No.	Validity Upto
1	RJ09GB1928	ASHOK-LEYLAND	2015	657710	1/10/2018
2	RJ09GB2628	ASHOK-LEYLAND	2015	657711	1/10/2018
3	RJ09GB4828	ASHOK-LEYLAND	2016	657712	1/10/2018
4	RJ09GB4928	ASHOK-LEYLAND	2016	657713	1/10/2018
5	RJ09GB5028	ASHOK-LEYLAND	2016	657714	1/10/2018
6	RJ09GB5828	ASHOK-LEYLAND	2016	657715	1/10/2018
7	RJ09GB8528	ASHOK-LEYLAND	2015	657717	1/10/2018
8	RJ09GB8728	ASHOK-LEYLAND	2015	657718	1/10/2018
9	RJ09GC0128	ASHOK-LEYLAND	2017	N/A	1/11/2019
10	RJ09GC0228	ASHOK-LEYLAND	2017	N/A	1/11/2019
11	RJ09GC0328	ASHOK-LEYLAND	2017	N/A	1/11/2019


D.K. Dhakar
GM (Mines)

J.K. Cement Limestone Mines, Nimbhera (Murlia Block)
SUMMARY OF PRIMARY BLASTING FOR THE QUARTER 01 JULY, 2018 to 30 SEPT, 2018

Serial Number	Date of blast	Location	No. Of Holes	No. Of Rows	Depth of the hole feet	Charge per delay in Kg.	Distance of instrument from Blast site (in M.)	Peak Vector Sum MM /Sec.	Peak frequency (in Hz)	Noise level (in dB)	Fly rock (in Meters)	Blast result	Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	01-07-2018	II nd S/M	08	1	26	26.74	200	2.62	64	116.1	10	Good	
2	16-07-2018	II nd S/E	10	1	26	18.8	200	2.65	39	109.2	10	Good	
3	29-07-2018	II nd S/E	10	1	22	13.61	150	2.56	47	108	10	Good	
4	03-08-2018	II nd S/M	10	1	22	12.77	300	0.66	28	115.7	10	Good	
5	17-08-2018	II nd S/M	10	1	22	13.05	200	0	0	0	10	Good	Vibration is to less than trigger source
6	01-09-2018	II nd S/E	10	1	31	13.05	200	1.02	37	112.3	10	Good	
7	06-09-2018	II nd S/E	10	1	30	13.05	250	1.23	39	120	10	Good	
8	10-09-2018	II nd S/E	9	1	20	13.58	250	0.65	51	113.1	10	Good	


J.M. Tailor
Blasting Incharge


D.K. Dhakar
Mine Manager


D.K. Dhakar
G.M. (Mine)

J.K. Cement WORKS, NIMBAHERA (P.A.)

NIMBAHERA - AHIRPURA LIMESTONE MINE

SIX MONTHLY AMBIENT AIR QUALITY & NOISE MONITORING REPORT

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

Sample duration: 24 hourly sample,
(monthly average basis)

Month	Near Mine Gate					Near Mine Water Pump House					3 to10 Meter Distance From Drilling Operation					Near loading point				
	SPM	PM10	SO ₂	Nox	CO	SPM	PM10	SO ₂	Nox	CO	SPM	PM10	SO ₂	Nox	CO	SPM	PM10	SO ₂	Nox	CO
Apr-18	403.0	48.6	9.5	21.0	343.5	443.7	56.4	16.8	29.7	744.3	480.0	58.7	19.2	37.3	916.0	417.0	52.4	13.7	25.7	687.0
May-18	414.6	52.2	13.4	26.2	515.3	468.0	58.0	18.9	31.4	858.8	517.0	61.2	21.4	34.6	973.3	431.0	54.3	15.4	28.3	744.3
Jun-18	384.2	49.0	13.6	25.0	572.5	436.0	55.0	17.4	28.5	629.8	463.0	57.2	20.4	33.2	858.8	405.0	51.7	14.8	27.4	687.0
Jul-18	218.1	26.5	4.3	20.6	458.0	289.0	34.6	8.5	23.4	572.5	368.0	42.0	14.6	27.4	687.0	312.0	39.6	11.5	25.2	400.8
Aug-18	228.8	26.0	4.3	20.6	458.0	246.0	37.9	10.6	26.8	629.8	345.0	40.0	12.5	25.0	515.3	325.0	42.0	14.0	29.0	400.8
Sep-18	239.9	31.2	4.3	20.6	458.0	258.0	38.2	12.8	24.6	515.3	362.0	44.6	16.2	26.8	629.8	338.0	42.9	13.5	25.9	629.8

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

Month	Near Mine Water Pump House		Near Mine Gate	
	NOISE LEVEL db(A)			
	Day Time	Night Time	Day Time	Night Time
Apr-18	68.7	60.2	70.1	61.5
May-18	66.3	58.9	68.7	60.3
Jun-18	65.8	56.2	67.0	55.3
Jul-18	64.2	52.2	68.2	53.2
Aug-18	63.9	51.4	67.5	54.2
Sep-18	65.0	53.0	67.0	55.0

J.K. Cement WORKS, NIMBAHERA (RAJ)

NIMBAHERA - AHIRPURA LIMESTONE MINE

(Murlia Block)

SIX MONTHLY AMBIENT AIR QUALITY & NOISE MONITORING REPORT

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

Sample duration: 24 hourly sample,
(monthly average basis)

Month	Near Mine Office					Near Ravana office				
	SPM	PM10	SO ₂	Nox	CO	SPM	PM10	SO ₂	Nox	CO
Apr-18	374.0	52.3	14.4	28.5	629.8	410.0	56.6	17.4	33.4	858.8
May-18	404.0	50.1	15.6	30.4	744.3	437.0	57.4	18.6	35.4	801.5
Jun-18	388.0	48.6	12.2	24.2	801.5	425.0	58.4	15.4	27.6	916.0
Jul-18	276.0	33.7	9.8	21.6	400.8	340.8	39.4	12.7	24.5	515.3
Aug-18	296.0	35.4	10.4	22.8	515.3	360.0	41.2	14.2	26.4	629.8
Sep-18	310.0	36.8	12.8	20.6	515.3	369.0	42.6	16.4	25.9	629.8

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

Month	Near Mine office		Near Ravana office	
	NOISE LEVEL db(A)			
	Day Time	Night Time	Day Time	Night Time
Apr-18	67.5	59.6	70.6	60.2
May-18	68.3	60.3	71.2	61.5
Jun-18	66.6	56.8	68.2	57.5
Jul-18	63.8	55.5	67.0	56.6
Aug-18	62.4	54.6	66.9	55.4
Sep-18	64.1	56.4	67.5	57.9

Mitra S.K. Private Limited

Shrachi Center (5th Floor)
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CIN: U51909WB1956PTC023037



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w: www.mitrask.com

Name & Address of the Customer :

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

Report No. : MSK/UDR/2018-19/919

Date : 31.08.2018

Sample No. : MSKGL/ED/2018-19/08/01624

Sample Description : Ambient Air

Sampling Location : Ahirpura Village (Ahirpura 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 Reference
1	Particulate matter (PM ₁₀) in $\mu\text{g}/\text{m}^3$	100	76	IS: 5182:(Part-23)-2006
2	Particulate matter(PM _{2.5}) in $\mu\text{g}/\text{m}^3$	60	39	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide(SO ₂) in $\mu\text{g}/\text{m}^3$	80	4.6	IS: 5182 (Part-2)-2001
4	Nitrogen dioxide (NO ₂) in $\mu\text{g}/\text{m}^3$	80	18.7	IS: 5182 (Part- 6)-2006
5	Carbon monoxide(CO) in mg/m^3	2	0.20	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)
74B, Acharya Jagadish Chandra Bose Road
Kolkata - 700 016, West Bengal India
CIN: U51909WB1956PTC023037



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Name & Address of the Customer :

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

Report No. : MSK/UDR/2018-19/920

Date : 31.08.2018

Sample No. : MSKGL/ED/2018-19/08/01625

Sample Description : Ambient Air

Sampling Location : Murlia Village (Abirpura 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 Reference
1	Particulate matter (PM ₁₀) in $\mu\text{g}/\text{m}^3$	100	70	IS: 5182:(Part-23)-2006
2	Particulate matter(PM _{2.5}) in $\mu\text{g}/\text{m}^3$	60	32	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide(SO ₂) in $\mu\text{g}/\text{m}^3$	80	5.0	IS: 5182 (Part-2)-2001
4	Nitrogen dioxide (NO ₂) in $\mu\text{g}/\text{m}^3$	80	19.9	IS: 5182 (Part- 6)-2006
5	Carbon monoxide(CO) in mg/m^3	2	0.22	IS 5182 :(Part-10) :1999

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

Report Prepared By:



Mitra S.K. Private Limited

Shrachi Center (5th Floor)
74B, Acharya Jagadish Chandra Bose Road
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TESTING • INSPECTION

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Name & Address of the Customer :

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

Report No. : MSK/UDR/2018-19/921

Date : 31.08.2018

Sample No. : MSKGL/ED/2018-19/08/01626

Sample Description : Ambient Air

Sampling Location : Near Loading Point (Ahirpura 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 Reference
1	Particulate matter (PM ₁₀) in $\mu\text{g}/\text{m}^3$	100	93	IS: 5182:(Part-23)-2006
2	Particulate matter(PM _{2.5}) in $\mu\text{g}/\text{m}^3$	60	50	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide(SO ₂) in $\mu\text{g}/\text{m}^3$	80	7.1	IS: 5182 (Part-2)-2001
4	Nitrogen dioxide (NO ₂) in $\mu\text{g}/\text{m}^3$	80	29.3	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 Delhi, 18th November 2009, For Ambient air Quality

Report Prepared By:



Mitra S.K. Private Limited

Shrachi Center (5th Floor)
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CIN: U51909WB1956PTC023037



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w: www.mitrask.com

Name & Address of the Customer :

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

Report No. : MSK/UDR/2018-19/922

Date : 31.08.2018

Sample No. : MSKGL/ED/2018-19/08/01627

Sample Description : Ambient Air

Sampling Location : Near Mine Office, Murlia Block
(Ahirpura Mine)

Date of Sampling : 13/14.08.2018

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

SL. NO.	Pollutants	Limit	Result	Method of Test Reference
1	Particulate matter (PM ₁₀) in $\mu\text{g}/\text{m}^3$	100	89	IS: 5182:(Part-23)-2006
2	Particulate matter(PM _{2.5}) in $\mu\text{g}/\text{m}^3$	60	47	USEPA CFR-40,Part-50, Appendix-L
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	0.38	IS 5182 :(Part-10) :1999

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

Report Prepared By:



Mitra S.K. Private Limited

Shrachi Center (5th Floor)
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CIN: U51909WB1956PTC023037



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Name & Address of the Customer :

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

Report No. : MSK/UDR/2018-19/923

Date : 31.08.2018

Sample No. : MSKGL/ED/2018-19/08/01628

Sample Description : Ambient Air

Sampling Location : Near Ravana Office Murlia block
(Ahirpura 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 Reference
1	Particulate matter (PM ₁₀) in µg/m ³	100	87	IS: 5182:(Part-23)-2006
2	Particulate matter(PM _{2.5}) in µg/m ³	60	44	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide(SO ₂) in µg/m ³	80	6.7	IS: 5182 (Part-2)-2001
4	Nitrogen dioxide (NO ₂) in µg/m ³	80	26.3	IS: 5182 (Part- 6)-2006
5	Carbon monoxide(CO) in mg/m ³	2	0.41	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.



Mitra S.K. Private Limited

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

Report No. : MSK/UDR/2018-19/924

Date : 31.08.2018

Sample No. : MSKGL/ED/2018-19/08/01629

Sample Description : Ambient Air

Sampling Location : Near Water Pump House (Ahirpura
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 Reference
1	Particulate matter (PM ₁₀) in $\mu\text{g}/\text{m}^3$	100	73	IS: 5182:(Part-23)-2006
2	Particulate matter(PM _{2.5}) in $\mu\text{g}/\text{m}^3$	60	36	USEPA CFR-40,Part-50: Appendix-L
3	Sulphur dioxide(SO ₂) in $\mu\text{g}/\text{m}^3$	80	5.4	IS: 5182 (Part-2)-2001
4	Nitrogen dioxide (NO ₂) in $\mu\text{g}/\text{m}^3$	80	20.7	IS: 5182 (Part- 6)-2006
5	Carbon monoxide(CO) in mg/m^3	2	0.26	IS 5182 :(Part-10) :1999

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

Report Prepared By:

For Mitra S. K. Pvt. Ltd.



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TEST REPORT

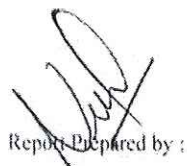
Name & Address of the Customer :
J.K.Cement Works, Nimbahera
Distt. Chittorgarh (Raj.)

Report No. : MSK/UDR/2018-19/958
Date : 31.08.2018
Sample No. : MSKGL/ED/2018-19/08/01666 to 01668
Sample Description : Noise Monitoring

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

ANALYSIS RESULT

Sl. No.	Sampling Date	Sampling Location	Results Leq dB(A)	
			Day Time	Night Time
1.	13/14.08.2018	Near Water Pump House (Ahipura Mine)	57.7	47.8
2.		Near Mine Office, Murlia Block (Ahipura Mine)	59.2	49.3
3.		Near Ravana OfficeMurlia Block (Ahipura Mine)	58.5	47.0
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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J.K.Cement Works, Nimbahera
Distt. Chittorgarh (Raj.)

Report No. : MSK/UDR/2018-19/918

Date : 31.08.2018

Sample No. : MSKGL/ED/2018-19/08/01623

Sample Description : Ambient Air

Sampling Location : 3-10 Meter Distance from Drilling
Operation (Ahirpura 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 Reference
1	Particulate matter (PM ₁₀) in µg/m ³	100	98	IS: 5182:(Part-23)-2006
2	Particulate matter(PM _{2.5}) in µg/m ³	60	57	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide(SO ₂) in µg/m ³	80	6.5	IS: 5182 (Part-2)-2001
4	Nitrogen dioxide (NO ₂) in µg/m ³	80	26.6	IS: 5182 (Part- 6)-2006
5	Carbon monoxide(CO) in mg/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

Report Prepared By:

For Mitra S. K. Pvt. Ltd.



Mitra S.K. Private Limited



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Name & Address of the Customer :

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Report No. : MSK/UDR/2018-19/382

Date : 30.06.2018

Sample No. : MSKGL/ED/2018-19/06/01424

Sample Description : Ambient Air

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

Date of Sampling : 23/24.06.2018

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

Sl. No.	Pollutants	Limit	Result	Method of Test Reference
1	Particulate matter (PM ₁₀) in $\mu\text{g}/\text{m}^3$	100	96	IS: 5182:(Part-23)-2006
2	Particulate matter(PM _{2.5}) in $\mu\text{g}/\text{m}^3$	60	54	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide(SO ₂) in $\mu\text{g}/\text{m}^3$	80	6.8	IS: 5182 (Part-2)-2001
4	Nitrogen dioxide (NO ₂) in $\mu\text{g}/\text{m}^3$	80	27.3	IS: 5182 (Part-6)-2006
5	Carbon monoxide(CO) in mg/m^3	2	0.44	IS 5182 :(Part-10) :1999
6	Ozone (O ₃) in $\mu\text{g}/\text{m}^3$	180	<19.62	Method of Air sampling, 3rd Edn. By James P. Lodge (Method-411)
7	Ammonia (NH ₃) in $\mu\text{g}/\text{m}^3$	400	21.9	Method of Air sampling, 3rd Edn. By James P. Lodge (Method-401)
8	Lead (Pb) in $\mu\text{g}/\text{m}^3$	1	0.22	EPA-IO 3.2
9	Nickel (Ni) in ng/m^3	20	9.2	EPA-IO 3.2
10	Arsenic (As) in ng/m^3	6	<1.0	APHA 22nd - 3114 C
11	Benzene (C ₆ H ₆) in $\mu\text{g}/\text{m}^3$	5	<2.08	IS 5182 : Part. 11 : 2006
12	Benzo(a) pyrene (BaP) in ng/m^3	1	<0.4	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/2018-19/383

Date : 30.06.2018

Sample No. : MSKGL/ED/2018-19/06/01425

Sample Description : Ambient Air

Sampling Location : Ahirpura Village (Ahirpura Mine)

Date of Sampling : 22/23.06.2018

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

SL. NO.	Pollutants	Limit	Result	Method of Test Reference
1	Particulate matter (PM ₁₀) in $\mu\text{g}/\text{m}^3$	100	71	IS: 5182:(Part-23)-2006
2	Particulate matter(PM _{2.5}) in $\mu\text{g}/\text{m}^3$	60	36	USEPA CFR-40,Part-50, Appendix-L
3	Sulphur dioxide(SO ₂) in $\mu\text{g}/\text{m}^3$	80	4.8	IS: 5182 (Part-2)-2001
4	Nitrogen dioxide (NO ₂) in $\mu\text{g}/\text{m}^3$	80	19.9	IS: 5182 (Part- 6)-2006
5	Carbon monoxide(CO) in mg/m^3	2	0.16	IS 5182 :(Part-10) :1999
6	Ozone (O ₃) in $\mu\text{g}/\text{m}^3$	180	<19.62	Method of Air sampling, 3rd Edn. By James P. Lodge (Method-411)
7	Ammonia (NH ₃) in $\mu\text{g}/\text{m}^3$	400	11.8	Method of Air sampling, 3rd Edn. By James P. Lodge (Method-401)
8	Lead (Pb) in $\mu\text{g}/\text{m}^3$	1	<0.02	EPA-IO 3.2
9	Nickel (Ni) in ng/m^3	20	<4.0	EPA-IO 3.2
10	Arsenic (As) in ng/m^3	6	<1.0	APHA 22nd - 3114 C
11	Benzene (C ₆ H ₆) in $\mu\text{g}/\text{m}^3$	5	<2.08	IS 5182 : Part. 11 : 2006
12	Benzo(a) pyrene (BaP) in ng/m^3	1	<0.4	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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Report No. : MSK/UDR/2018-19/384

Date : 30.06.2018

Sample No. : MSKGL/ED/2018-19/06/01426

Sample Description : Ambient Air

Sampling Location : Murlia Village (Ahirpura Mine)

Date of Sampling : 22/23.06.2018

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

Sl. NO.	Pollutants	Limit	Result	Method of Test Reference
1	Particulate matter (PM ₁₀) in $\mu\text{g}/\text{m}^3$	100	66	IS: 5182:(Part-23)-2006
2	Particulate matter(PM _{2.5}) in $\mu\text{g}/\text{m}^3$	60	28	USEPA CFR-40,Part-50, Appendix-L.
3	Sulphur dioxide(SO ₂) in $\mu\text{g}/\text{m}^3$	80	5.2	IS: 5182 (Part-2)-2001
4	Nitrogen dioxide (NO ₂) in $\mu\text{g}/\text{m}^3$	80	21.6	IS: 5182 (Part- 6)-2006
5	Carbon monoxide(CO) in mg/m^3	2	0.28	IS 5182 :(Part-10) :1999
6	Ozone (O ₃) in $\mu\text{g}/\text{m}^3$	180	<19.62	Method of Air sampling, 3rd Edn. By James P. Lodge (Method-411)
7	Ammonia (NH ₃) in $\mu\text{g}/\text{m}^3$	400	2.4	Method of Air sampling, 3rd Edn. By James P. Lodge (Method-401)
8	Lead (Pb) in $\mu\text{g}/\text{m}^3$	1	<0.02	EPA-IO 3.2
9	Nickel (Ni) in ng/m^3	20	<4.0	EPA-IO 3.2
10	Arsenic (As) in ng/m^3	6	<1.0	APHA 22nd - 3114 C
11	Benzene (C ₆ H ₆) in $\mu\text{g}/\text{m}^3$	5	<2.08	IS 5182 : Part. 11 : 2006
12	Benzo(a) pyrene (BaP) in ng/m^3	1	<0.4	IS 5182 : Part. 12 : 2004

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

Report Prepared By:



Mitra S.K. Private Limited

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Distt. Chittorgarh (Raj.)

Report No. : MSK/UDR/2018-19/385

Date : 30.06.2018

Sample No. : MSKGL/ED/2018-19/06/01427

Sample Description : Ambient Air

Sampling Location : Near Loading Point (Ahirpura Mine)

Date of Sampling : 23/24.06.2018

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

SL. NO.	Pollutants	Limit	Result	Method of Test Reference
1	Particulate matter (PM ₁₀) in $\mu\text{g}/\text{m}^3$	100	91	IS: 5182:(Part-23)-2006
2	Particulate matter(PM _{2.5}) in $\mu\text{g}/\text{m}^3$	60	52	USEPA CFR-40,Part-50, Appendix-I.
3	Sulphur dioxide(SO ₂) in $\mu\text{g}/\text{m}^3$	80	6.7	IS: 5182 (Part-2)-2001
4	Nitrogen dioxide (NO ₂) in $\mu\text{g}/\text{m}^3$	80	28.4	IS: 5182 (Part- 6)-2006
5	Carbon monoxide(CO) in mg/m^3	2	0.33	IS 5182 :(Part-10) :1999
6	Ozone (O ₃) in $\mu\text{g}/\text{m}^3$	180	<19.62	Method of Air sampling, 3rd Edn. By James P. Lodge (Method-411)
7	Ammonia (NH ₃) in $\mu\text{g}/\text{m}^3$	400	20.8	Method of Air sampling, 3rd Edn. By James P. Lodge (Method-401)
8	Lead (Pb) in $\mu\text{g}/\text{m}^3$	1	0.21	EPA-10 3.2
9	Nickel (Ni) in ng/m^3	20	7.65	EPA-10 3.2
10	Arsenic (As) in ng/m^3	6	<1.0	APHA 22nd - 3114 C
11	Benzene (C ₆ H ₆) in $\mu\text{g}/\text{m}^3$	5	<2.08	IS 5182 : Part. 11 : 2006
12	Benzo(a) pyrene (BaP) in ng/m^3	1	<0.4	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.



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/2018-19/386

Date : 30.06.2018

Sample No. : MSKGL/ED/2018-19/06/01428

Sample Description : Ambient Air

Sampling Location : Near Mine Office, Murlia Block
(Ahirpura Mine)

Date of Sampling : 22/23.06.2018

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

SL. NO.	Pollutants	Limit	Result	Method of Test Reference
1	Particulate matter (PM ₁₀) in $\mu\text{g}/\text{m}^3$	100	86	IS: 5182:(Part-23)-2006
2	Particulate matter(PM _{2.5}) in $\mu\text{g}/\text{m}^3$	60	42	USEPA CFR-40,Part-50, Appendix-I
3	Sulphur dioxide(SO ₂) in $\mu\text{g}/\text{m}^3$	80	6.7	IS: 5182 (Part-2)-2001
4	Nitrogen dioxide (NO ₂) in $\mu\text{g}/\text{m}^3$	80	26.8	IS: 5182 (Part- 6)-2006
5	Carbon monoxide(CO) in mg/m^3	2	0.42	IS 5182 :(Part-10) :1999
6	Ozone (O ₃) in $\mu\text{g}/\text{m}^3$	180	<19.62	Method of Air sampling, 3rd Edn. By James P. Lodge (Method-411)
7	Ammonia (NH ₃) in $\mu\text{g}/\text{m}^3$	400	21.0	Method of Air sampling, 3rd Edn. By James P. Lodge (Method-401)
8	Lead (Pb) in $\mu\text{g}/\text{m}^3$	1	<0.02	EPA-IO 3.2
9	Nickel (Ni) in ng/m^3	20	<4.0	EPA-IO 3.2
10	Arsenic (As) in ng/m^3	6	<1.0	APHA 22nd - 3114 C
11	Benzene (C ₆ H ₆) in $\mu\text{g}/\text{m}^3$	5	<2.08	IS 5182 : Part. 11 : 2006
12	Benzo(a) pyrene (BaP) in ng/m^3	1	<0.4	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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Report No. : MSK/UDR/2018-19/387

Date : 30.06.2018

Sample No. : MSKGL/ED/2018-19/06/01429

Sample Description : Ambient Air

Sampling Location : Near Ravana Office, Murlia Block
(Ahirpura Mine)

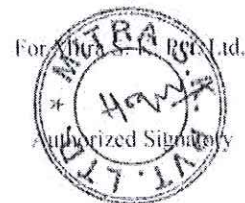
Date of Sampling : 22/23.06.2018

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

Sl. NO.	Pollutants	Limit	Result	Method of Test Reference
1	Particulate matter (PM ₁₀) in $\mu\text{g}/\text{m}^3$	100	83	IS: 5182:(Part-23)-2006
2	Particulate matter(PM _{2.5}) in $\mu\text{g}/\text{m}^3$	60	40	USEPA CFR-40.Part-50. Appendix-L
3	Sulphur dioxide(SO ₂) in $\mu\text{g}/\text{m}^3$	80	6.3	IS: 5182 (Part-2)-2001
4	Nitrogen dioxide (NO ₂) in $\mu\text{g}/\text{m}^3$	80	24.5	IS: 5182 (Part- 6)-2006
5	Carbon monoxide(CO) in mg/m^3	2	0.39	IS 5182 :(Part-10) :1999
6	Ozone (O ₃) in $\mu\text{g}/\text{m}^3$	180	<19.62	Method of Air sampling, 3rd Edn. By James P. Lodge (Method-411)
7	Ammonia (NH ₃) in $\mu\text{g}/\text{m}^3$	400	20.8	Method of Air sampling, 3rd Edn. By James P. Lodge (Method-401)
8	Lead (Pb) in $\mu\text{g}/\text{m}^3$	1	0.08	EPA-IO 3.2
9	Nickel (Ni) in ng/m^3	20	6.00	EPA-IO 3.2
10	Arsenic (As) in ng/m^3	6	<1.0	APHA 22nd - 3114 C
11	Benzene (C ₆ H ₆) in $\mu\text{g}/\text{m}^3$	5	<2.08	IS 5182 : Part. 11 : 2006
12	Benzo(a) pyrene (BaP) in ng/m^3	1	<0.4	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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Name & Address of the Customer :

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Report No. : MSK/UDR/2018-19/388

Date : 30.06.2018

Sample No. : MSKGL/ED/2018-19/06/01430

Sample Description : Ambient Air

Sampling Location : Near Water Pump House (Ahirpura Mine)

Date of Sampling : 23/24.06.2018

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

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	38	USEPA CFR-40,Part-50, Appendix-I.
3	Sulphur dioxide(SO ₂) in µg/m ³	80	5.1	IS: 5182 (Part-2)-2001
4	Nitrogen dioxide (NO ₂) in µg/m ³	80	21.6	IS: 5182 (Part- 6)-2006
5	Carbon monoxide(CO) in mg/m ³	2	0.21	IS 5182 :(Part-10) :1999
6	Ozone (O ₃) in µg/m ³	180	<19.62	Method of Air sampling, 3rd Edn. By James P. Lodge (Method-411)
7	Ammonia (NH ₃) in µg/m ³	400	17.2	Method of Air sampling, 3rd Edn. By James P. Lodge (Method-401)
8	Lead (Pb) in µg/m ³	1	<0.02	EPA-IO 3.2
9	Nickel (Ni) in ng/m ³	20	<4.0	EPA-IO 3.2
10	Arsenic (As) in ng/m ³	6	<1.0	APHA 22nd - 3114 C
11	Benzene (C ₆ H ₆) in µg/m ³	5	<2.08	IS 5182 : Part. 11 : 2006
12	Benzo(a) pyrene (BaP) in ng/m ³	1	<0.4	IS 5182 : Part. 12 : 2004

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

Report Prepared By:



Mitra S.K. Private Limited

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



TESTING • INSPECTION

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TEST REPORT

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

Report No. : MSK/UDR/2018-19/411
Date : 30.06.2018
Sample No. : MSKGL/ED/2018-19/06/01455 to 01457
Sample Description : Noise Monitoring

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

ANALYSIS RESULT

Sl. No.	Sampling Date	Sampling Location	Results Leq dB(A)	
			Day Time	Night Time
1.	23/24.06.2018	Near Water Pump House (Ahipura Mine)	62.8	50.6
2.		Near Mine Office, Murlia Block (Ahipura Mine)	56.3	47.5
3.		Near Ravana OfficeMurlia Block (Ahipura Mine)	53.4	45.8
Limit As per CPCB (Environment Protection Rules, 1986)		in Industrial Area Leq dB(A)	75	70

Report Prepared by :

For Mitra S.K. Private Limited



