



JK Cement LTD.

CIN : L17229UP1994PLC017199

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

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

Our Ref. No.: MGR/PC-14/C11 **3738**

Regd.AD.

Date: 26.11.2019

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

Sub: Environmental Clearance Compliance report of Tilakhera Limestone Mine.

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

Dear Sir,

With reference to above stated Environment Clearance (EC) accorded for our Tilakhera Mine. Please find attached herewith six monthly compliance report along with Environment Monitoring Data (Core zone & Buffer Zone) for the **period from April' 2019 to Sept' 2019**. As per MoEF & CC notification no. S.O. 5845 (E) 26.11.2018 the same soft copy has been send to email id. roc.z.lko-mef@nic.in, moef@nic.in, m_env@rediffmail.com, ccb.cpcb@nic.in, member-secretary@rpcb.nic.in, cpcb.bhopal@gmail.com for your kind reference and record please. We trust you will find the same in order.

Thanking you,

Yours Faithfully
For J.K. Cement Works, Mangrol

S.K. Acharya
Head (Environment & Power Management)

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





JK Cement LTD.

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

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

Period: Apr-19 to Sept-19

**For
Tilakhera Limestone Mine: 1.6 MMTPA**

**Submitted to:
MoEF& CC, New Delhi & Central Regional Office, Lucknow (UP)
Central Pollution Control Board, New Delhi & Bhopal
Rajasthan State Pollution Control Board, Jaipur**

**Submitted by:
M/s J.K.CEMENT WORKS, MANGROL,
Vill. Mangrol, Tehsil: Nimbahera, District: Chittorgarh (Raj)**



**JK SUPER
CEMENT
BUILD SAFE**

Validity of the statutory approvals obtained in compliance of EC:

- Environmental Clearance issued by Ministry of Environment, Forest and Climate Change for expansion of Limestone -0.6 MMTPA to 1.6 MMTPA vide letter no – J-11015/25/ 2011 – IA. II (M) dated 23.01.2014
- Consent to Establish has been obtained under Air and Water Act for the expansion in production capacity of 1.6 MMTPA vide letter no. F(Mines)/Chittorgarh(Nimbahera)/1035(1)/2011-2012/2000-2004 dated 13/06/2014.
- Consent to operate has been obtained under Air and Water act for upgraded production capacity of 1.6 MMTPA vide letter no. F(Mines)/Chittorgarh (Nimbahera)/1868(1)/2017-2018/ 2126 - 2130 dated. 20.06.2017 valid till 31/05/2022.

**COMPLIANCE REPORT OF CONDITIONS LAID DOWN IN ENVIRONMENT CLEARANCE OF TILAKHERA MINE
(April 2019-September 2019) Dated 26.11.2019**

S. No.	Condition	Status	Remarks
	(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 provisions of the Mineral Concession Rules, 1960 and MMDR Act, 1957.	The Proponent has taken the permission from the Rajasthan Government (Jamabandi) to hand over the land to M/s J.K. Cement Works - Mangrol Tilakhera Mine to carry out mining as per the provisions of the Mineral Concession Rules, 1960 and MMDR Act, 1957.	
(iii)	Implementation of the Conservation Plan for Schedule I species reported in the Study area namely <i>Pavo cristatus</i> (Indian peafowl).	Conservation Plan for Schedule Species in the study area namely <i>Pavo cristatus</i> (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 provisions during the public hearing.	Complied	
(v)	The proponent shall ensure implementation of commitment made for Socio economic welfare measures and report shall be submitted to the Ministry of Environment & Forests and its Regional Office located at Lucknow on six monthly basis.	The CER Activities are being implemented by J K Cement Works. The fund spent for the CER activities in FY 2019-20 (Q2) is attached as annexure-I . The latest EC Compliance Report incorporated water monitoring report has been submitted to the Ministry of	

**COMPLIANCE REPORT OF CONDITIONS LAID DOWN IN ENVIRONMENT CLEARANCE OF TILAKHERA MINE
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		Environment & Forests and its Regional Office at Lucknow vide letter no. MGR/PC/-14/C11/808 dated 28/05/2019.	
(vi)	Sufficient number of Gullies should be provided for better management of water. Regular Monitoring of PH shall be included in the monitoring plan and report shall be submitted to the Ministry of Environment & Forests and its Regional Office located at Lucknow on six monthly basis.	The garland drain has been constructed to channelize the water in the east of the subgrade dump. The latest EC Compliance Report incorporated water monitoring report has been submitted to the Ministry of Environment & Forests and its Regional Office at Lucknow vide letter no. MGR/PC/-14/C11/808 dated 28/05/2019.	
(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.	There is no Wildlife Sanctuary, National Park, Migratory routes of fauna and National Monument within 10Km periphery of the lease area. Hence it is not applicable.	
(viii)	No mining activities will be allowed in forest area, if applicable, for which the Forest Clearance is not available.	There is no forest land involved in the lease area. The same has been authenticated from the Office of Divisional Forest Officer, Chittorgarh vide letter no. Survey/ 5127 dated 17.06.1999.	
(ix)	The project proponent shall obtain Consent to Operate from the State Pollution Control Board, Rajasthan and effectively implement all the conditions stipulated therein.	The Consent to Operate and its renewal has been obtained time to time as per the procedure from Rajasthan State Pollution Control Board and all the conditions laid down in Consent to Operate has been implemented. The latest Consent to Operate has been obtained under Air & Water act for upgraded production capacity-Limestone- 1.6 MMTPA vide letter no. F(Mines)/Chittorgarh(Nimbahera)/1868(1)/2017-2018/2126-2130 dated 26.06.2017 valid till 31/05/2022.	
(x)	The mining operations shall be restricted to above	The detail of the elevation, ground water table and working	

**COMPLIANCE REPORT OF CONDITIONS LAID DOWN IN ENVIRONMENT CLEARANCE OF TILAKHERA MINE
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	groundwater table and it shall not be intersect groundwater table. For working below groundwater table, prior approval of the Ministry of Environment and Forests and Central Ground Water Authority shall be obtained, for which a detailed hydro-geological study shall be carried out.	level is given below:- <table border="1"> <thead> <tr> <th>S. No.</th><th>Particulars</th><th>Levels (MSL)</th><th>BGL (m)</th></tr> </thead> <tbody> <tr> <td>1.</td><td>Highest Elevation</td><td>438</td><td>--</td></tr> <tr> <td>2.</td><td>Lowest Elevation</td><td>427</td><td>--</td></tr> <tr> <td>3.</td><td>General Ground Level</td><td>427</td><td>--</td></tr> <tr> <td>4.</td><td>Water Table (Pre-Monsoon)</td><td>367</td><td>60</td></tr> <tr> <td>5.</td><td>Water Table (Post-Monsoon)</td><td>387</td><td>40</td></tr> <tr> <td>6.</td><td>Ultimate Pit Limit</td><td>374</td><td>53</td></tr> </tbody> </table> Source: - As per approved Modified Mining Plan with PMCP dated 03.01.2019. Water table will not intersect during the conceptual phase/ life of mine. However, permission from CGWA for dewatering the mine seepage on account of mining intersecting the water table has been obtained from the Office of Central Ground Water Authority, Ministry of Water Resources, River Development & Ganga Rejuvenation vide letter no. 21-4 (34)/ WR/ CGWA/ 2005/ 907 dated 14.05.2018 which is valid till 13.05.2020.	S. No.	Particulars	Levels (MSL)	BGL (m)	1.	Highest Elevation	438	--	2.	Lowest Elevation	427	--	3.	General Ground Level	427	--	4.	Water Table (Pre-Monsoon)	367	60	5.	Water Table (Post-Monsoon)	387	40	6.	Ultimate Pit Limit	374	53	
S. No.	Particulars	Levels (MSL)	BGL (m)																												
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5.	Water Table (Post-Monsoon)	387	40																												
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(xi)	Dimension of the retaining wall at the toe of overburden dumps and OB benches within the mine to check run-off and siltation shall be based on the rainfall data.	Presently both the OB dumps are alive hence no retaining wall had been made.																													
(xii)	Blasting operation shall be carried out only during	Blasting operation is being carried out in day time only. Use of																													

**COMPLIANCE REPORT OF CONDITIONS LAID DOWN IN ENVIRONMENT CLEARANCE OF TILAKHERA MINE
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	the daytime. Controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented. Drills shall either be operated with dust extractors or equipped with water injection system. Advanced technologies for environmental protection to be used for controlled blasting.	Sequential blasting machine (SBM), Delay detonator, Non-Electric detonator for blasting and to mitigate vibration. Water injection system on Wagon drill has been provided which suppresses dust at its source of generation.	
(xiii)	Water sprinkling should be increased at places loading and unloading points & transfer point to reduce fugitive emissions.	Regular water sprinkling is done on loading unloading point, transfer point as well as the haul roads to prevent the dust becoming air borne during transportation movement of vehicles.	
(xiv)	The project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water and groundwater for the project.	NOC for drawl of groundwater has been obtained from CGWA vide letter no. 21-4(34)/WR/CGWA/2005-907 dated 14.05.2018 which is valid up to 13.05.2020.	
(xv)	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 covered dumpers and further leading to the plant through covered conveyor belt. The vehicles carrying the mineral shall not be overloaded.	Tippers engaged in the mines are periodically checked once in six months, vehicular emissions are kept under permissible limits. The tippers are not loaded above the rated capacity. Copy of PUC is enclosed as Annexure II .	

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(xvi)	Fugitive dust emissions from all the sources shall be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.	Agreed and being implemented to control fugitive dust emission by regular water spraying arrangement.	
(xvii)	Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly. Occupational health and safety measures for workers who are having some ailments like BP, diabetes or are habitual smokers, should have health checkup once in six months.	Regular initial medical examination and periodical medical examination is being carried out. Copies of the reports are enclosed as Annexure -III .	
(xviii)	Environmental clearance is granted subject to final outcome of Hon ^{ble} High Court of Rajasthan and any other Court of Law, as maybe applicable to this project.	Noted and complied.	
	(B) GENERAL CONDITIONS		
(i)	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment and Forests.	Agreed. Mining will be done in accordance with Approved Modified Mining Plan.	
(ii)	No change in the calendar plan including excavation, quantum of limestone mineral and waste should be made.	Agreed. Mining will be done in accordance with Approved Modified Mining Plan.	

**COMPLIANCE REPORT OF CONDITIONS LAID DOWN IN ENVIRONMENT CLEARANCE OF TILAKHERA MINE
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(iii)	A Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval.	Presently it is a working mine and will expire on 31.03.2030 and final closure plan will be submitted before last 02 year.							
(iv)	There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis in consultation with Regional Director, Central Groundwater Board and implementation of conservation measures to augment groundwater resources in the area in consultation with Central Ground Water Board.	To augment the water resources, rain water harvesting is done and stored in lower most benches (Water reservoir).							
(v)	Regular monitoring of groundwater table to be carried out at the upstream and depth of water available in the dug well is to be measured. Monitoring to be done by establishing a network of existing wells and constructing new piezometers.	The report on ground water level and quality for monsoon season (August' 2019) was sent vide letter no. MGR/PC/14/C11/2531 dated 10.09.2019.							
(vi)	The project proponent shall ensure that no natural water course and/or water resources shall be obstructed due to any mining operations.	No natural water course and / or water resources are 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 (OB) generated during the mining operations shall be stacked at earmarked dump site(s) only and it should	The top soil is being used for the plantation. <table><tr><td>No of Overburden Dump and total quantity generated at present (31.03.2019)</td><td>No of sub stack mineral dump total quantity generated at present (31.03.2019)</td><td>Height and overall slope</td></tr><tr><td>No. - 02 Quantity : 56148 Tons</td><td>No.- 02 Quantity : 564434 Tons</td><td>45 degree OB – 5.21m.</td></tr></table>	No of Overburden Dump and total quantity generated at present (31.03.2019)	No of sub stack mineral dump total quantity generated at present (31.03.2019)	Height and overall slope	No. - 02 Quantity : 56148 Tons	No.- 02 Quantity : 564434 Tons	45 degree OB – 5.21m.	
No of Overburden Dump and total quantity generated at present (31.03.2019)	No of sub stack mineral dump total quantity generated at present (31.03.2019)	Height and overall slope							
No. - 02 Quantity : 56148 Tons	No.- 02 Quantity : 564434 Tons	45 degree OB – 5.21m.							

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	constructed both around the mine pit and overburden dumps to prevent runoff of water and flow of sediments directly into the river and other water bodies and sump capacity should be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt material. Sedimentation pits shall be constructed at the corners of the garland drains and desilted at regular intervals.	
(ix)	Plantation shall be raise in a 7.5m wide greenbelt in the safety zone around the mining lease, backfilled and reclaimed area, around water body, along the roads, etc. by planting the native species in consultation with the local DFO/Agriculture Department. The density of the trees should be around 2500 plants per ha. Greenbelt shall be developed all along the mine lease area in a phased manner and shall be completed within first five years.	➤ Agreed. Plantation done during the year 2018-19 within lease 1890 nos. covering 0.95 ha. new area. Total Planation done till date is 40385 nos. inside and 53592 nos. in outside lease area. Survival rate of plantation is 50.69% inside lease area and 56.41% outside lease area. Total plantation area covered till date is 14.105 ha in inside lease area and 5.0 hectare outside lease area and green belt of 47.54 ha. area. ➤ There is waste dump within the mining lease area and plantation will be carried out around the water reservoir during the lease period once the mineral get exhausted. ➤ The tree density considered as 1500-2000 saplings /ha.
(x)	Regular monitoring of the flow rate of the springs and	The regular monitoring of flow rate of perennial nallah flowing

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	perennial nallahs flowing in and around the mine lease shall be carried out and records maintain	in and around has been monitored.	
(xi)	Regular monitoring of water quality upstream and downstream of water bodies shall be carried out and record of monitoring data should be maintained and submitted to the Ministry of Environment and Forests, its Regional Office, Lucknow, Central Groundwater Authority, Regional Director, Central Groundwater Board, State Pollution Control Board and Central Pollution Control Board.	Regular monitoring of water quality has been done.	
(xii)	Regular monitoring of ground water level and quality shall be carried out in and around the mine lease by establishing a network of existing wells and constructing new peizometers during the mining operation. The monitoring shall be carried out four times in a year pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the data thus collected maybe sent regularly to Ministry of Environment and Forests, and its Regional Office, Lucknow, Central Ground Water Authority and Regional Director,, Central Ground Water Board.	The report on ground water level and quality for monsoon season (August' 2019) was sent vide letter no. MGR/PC/14/C11/2531 dated 10.09.2019.	
(xiii)	The project proponent shall take all precautionary measures during mining operation for conservation	<i>Pavo cristatus</i> (Indian peafowl) is recorded in the buffer zone of the study area. Conservation of Indian peafowl is prepared with	

**COMPLIANCE REPORT OF CONDITIONS LAID DOWN IN ENVIRONMENT CLEARANCE OF TILAKHERA MINE
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	and protection of endangered fauna namely leopard, elephant, etc. spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and Wildlife Department. Necessary allocation of funds for implementation of the conservation plan shall be made and the funds so allocated shall be included in the project cost. All the safeguard measures brought out in the Wildlife Conservation Plan so prepared specific to the project site shall be effectively implemented. A copy of action plan shall be submitted to the Ministry of Environment and Forests and its Regional Office, Lucknow.	consultation of the State Forest and Wildlife Department.	
(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 labourers 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.	Latest ambient air quality monitoring has been done by third party. The copy of the same is enclosed as Annexure- IV .	
(xvi)	The critical parameters such as SPM, RSPM,	Monitoring data is regularly submitted in prescribed offices.	

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	(Particulate matter with size less than 10 micron i.e., PM₁₀), NOx in the ambient air within the impact zone, peak particle velocity at 300m distance or within the nearest habitation, whichever is closer shall be monitored periodically,. 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 a 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.	Latest monitoring report is enclosed as Annexure - IV.	
(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. Latest noise monitoring report as enclosed as Annexure - IV.	
(xviii)	Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under	Agreed. No industrial waste water is generated in the Mine.	

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	GSR 422 (E) dated 19 th May, 1993 and 31 st December, 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluents.		
(xix.)	Personal working in dusty areas should wear protective respiratory devices and they should also be provided and adequate training and information on safety and health aspects.	Persons engaged in drilling, dozing and loading have been provided dust mask. VT is being provided as required under MVT rules 1966. Regular periodic check-up of workers is being carried out.	
(xx.)	Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed. Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly.	Regular periodic check-up of workers is being carried out. During the year 2018-19, 1 nos. of periodical and 8 nos. of initial medical examination were done. Enclosed as Annexure -V .	
(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 & has 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	A separate fund is kept for environment protection measures and report is being sent regularly to the concerned authority. Environment budget 2019-20 and expenditure 2018-19 is	

**COMPLIANCE REPORT OF CONDITIONS LAID DOWN IN ENVIRONMENT CLEARANCE OF TILAKHERA MINE
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	expenditure should be reported to the Ministry and its regional Office located at Lucknow.	submitted vide letter no. MGR/PC/14/C11/808 dated 28.05.2019.	
(xxiii)	The project authorities should inform to the Regional Office located at Lucknow regarding date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work.	Complied	
(xxiv)	The Regional Office of this Ministry located at Lucknow shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports.	Full cooperation to the officer (s) of the Regional Office by furnishing the requisite data/information/monitoring reports will be given.	
(xxv)	The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguard to the Ministry of Environment and Forests, its Regional Office, Lucknow, Central Pollution Control Board.	Six monthly reports is being submitted to all concern offices as given in previous clearance letter. Latest Six Monthly Monitoring report sent to RO& HO, MoEF&CC Lucknow, vide letter no MGR/PC/-14/C11/808 dated 28/05/2019. The compliance report is uploaded at website.	
(xxvi)	A copy of clearance letter will be marked to concerned Panchayat / local NGO, if any, from whom suggestion / representation has been received while processing the proposal.	Complied.	
(xxvii)	State Pollution Control Board should display a copy of the clearance letter at the Regional office, District	Complied.	

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	Industry Centre and Collector's office/ Tehsildar's Office for 30 days.		
(xxviii)	The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at web site of the Ministry of Environment and Forest at http:// envfor.nic.in and a copy of the same should be forwarded to the Regional Office of this Ministry located Lucknow.	Implemented & the necessary information already sent to the concerned authority.	

JK CEMENT WORKS, NIMBAHERA & Mangrol
CSR EXPENSES SUMMARY UPTO FY 2019-20 (September 2019)

S.No.	CSR Project or activity	Section in which the project is covered	Local Area or other	Specify State and other	Amount Outlay
1	Manpower hired for smooth working of CSR activities & Consutruction of Community Center.	Community Welfare	Nimbahera	Rajasthan	517440
2	Providing Drinking water facilities for nearby villages. Activities like laying pipelines, tubewell and deeping of tubewells as & when required.	Drinking Water Arrangement	Bansa	Rajasthan	41000
			Laxmipura	Rajasthan	1002990
			Mangrol	Rajasthan	67200
3	Medical Checkup camps in nearby villages, distributed medicines & organised health awareness programs. Expenses for maintenance of Aganbadi Kendra.	Health	Ahirpura	Rajasthan	8050
			Karunda	Rajasthan	117645
			Maliakhara	Rajasthan	24150
			Phalwa	Rajasthan	12263
4	Spash Sanitary Pad Project for Women self help groups and providing structured setups & training for earning through production and sell of low cost sanitary pads. Organising training programs for Woman Skill development. Donated stitching machines to Mewar Viklang Seva Samithi for supporting livelihood activities.	Livelihood Promotion	Ahirpura	Rajasthan	56925
			Chittorgarh	Rajasthan	62500
			Karunda	Rajasthan	168865
			Maliakhara	Rajasthan	344927
5	Arrangement for Election, organising activities under SVEEP program. Expenses for Independence Day celebration. Hoisting of 150 ft. National flag at Mukahrji Square, Nimbahera.	National Functions	Nimbahera	Rajasthan	1028475
6	Renovation and development of Mokhsdham at villages. Providing facilities & infrastructure for welfare of community.	Rural Development	Karunda	Rajasthan	1298118
			Shahbad	Rajasthan	287127
7	Construction of sturures of Community interest like Community hall at Arniya Joshi Village.	Community Welfare	Tilakhara	Rajasthan	502000
8	Providing Drinking water facilities for nearby villages. Activities like providing water by Water Tankers to nearby villages.	Drinking Water Arrangement	Shahbad	Rajasthan	109800
9	Spash Sanitary Pad Project for Women self help groups and providing structured setups & training for earning through production and sell of low cost sanitary pads. Organising training programs for Woman Skill development.	Livelihood Promotion	Mangrol	Rajasthan	865371
		Grand Total			6514845

GROUND VIBRATION DETAILS(MANGROL-TILAKHERA MINES)							
PERIOD :-JULY--19 TO SEPT--19							
S.NO	DATE	LOCATION OF BLASTING	APPROX. DIST.OF INSTRUMENT FROM BLAST	NO OF HOLES	CHARGE PER DELAY KGS.	PVS MM/SEC.	ACCESSORIES USED IN BLASTING
1	2.07.2019	B=IV-2,N/P,BID=5--19	300M BACK SITE FROM FACE	10	40	2.367	NONELS
2	8.07.2019	B=IIIE,N/P, BID=3-9	250M BACK SITE FROM FACE	13	39.5	2.881	NONELS
3	15.07.2019	B=IE,N/P, BID=7--2	250M BACK SITE FROM FACE	16	27.37	3.376	NONELS
4	20.07.2019	B=IIIE,S/P, BID=16--4	250M SOUTH SITE FROM FACE	14	30.64	2.085	NONELS
5	21.07.2019	B=IIIE,N/P, BID=3--12	300M BACK SITE FROM FACE	14	38	3.942	NONELS
6	25.07.2019	B=IIIE,S/P, BID=16--6	300M SOUTH SITE FROM FACE	14	21	1.958	NONELS
7	1.08.2019	B=IE,N/P, BID=4--13	250M BACK SITE FROM FACE	9	15.43	1.938	NONELS
8	6.08.2019	B=IIIE,S/P,BID=15--7	300M SOUTH SITE FROM FACE	14	25.65	1.665	NONELS
9	9.08.2019	B=IIIE,S/P,BID=16--9	300M SOUTH SITE FROM FACE	10	35.2	3.904	NONELS
10	17.08.2019	B=IIS,S/P,BID=18--2	300M BACK SITE FROM FACE	8	35.125	2.209	NONELS
11	25.08.2019	B=IIIE,S/P,BID=16--10	300M SOUTH SITE FROM FACE	11	28.09	1.56	NONELS
12	31.08.2019	B=IIIE,N/P,BID=3--18	300M BACK SITE FROM FACE	16	33.79	2.16	NONELS
13	1.09.2019	B=IIS,S/P,BID=18--12	300M SOUTH SITE FROM FACE	10	31.66	0.799	NONELS
14	8.09.2019	B=IIS,S/P, BID=18--18	300M SOUTH SITE FROM FACE	8	31.6	0.833	NONELS
15	12.09.2019	B=IE,N/P BID=1--32	300M BACK SITE FROM FACE	13	28.01	3.681	NONELS
16	14.09.2019	B=III, N/P,BID=3-21	250M SOUTH SITE FROM FACE	10	35	1.146	NONELS
17	19.09.2019	B=IIIE,N/P,BID=4-22	250M SOUTH SITE FROM FACE	17	26.9	1.148	NONELS
18	20.09.2019	B=IS,S/P,BID=18--23	300M SOUTH SITE FROM FACE	10	33.33	0.855	NONELS

Paras Pokharna

PARAS POKHARNA

BLASTING INCHARGE

Paras Pokharna

L.S.POKHARNA

DY. G.M. (MINES)

GROUND VIBRATION DETAILS(MANGROL-TILAKHERA MINES)							
PERIOD :-APRIL-19 TO JUNE-19							
S.NO	DATE	LOCATON OF BLASTING	APPROX . DIST.OF INSTRUMENT FROM BLAST	NO OF HOLES	CHARGE PER DELAY KGS.	PVS MM/SEC.	ACCESSORIES USED IN BLASTING
1	16.04.2019	IVB E N/P BID=1-10	250M BACK SITE FROM FACE	15	43.33KG	2.142	NONELS
2	18.04.2019	IB E N/P BID=2-6	300M BACK SITE FROM FACE	18	33.33KG	1.696	NONELS
3	12.05.2019	IV-2 W N/P BID=5-3	250M EAST SITE FROM FACE	36	11.80KG	1.317	NONELS
4	16.05.2019	IV-E N/P BID=2-13	300M EAST SITE FROM FACE	10	38.5KG	3.892	NONELS
5	03.06.2019	VE N/P BID=1-26	300M BACK SITE FROM FACE	16	29.68KG	2.718	NONELS
6	24.06.2019	IV-2 W N/P BID=5-14	300M BACK SITE FROM FACE	38	44.47KG	1.511	M.S.D.D

PARAS POKHARNA
BLASTING INCHARGE

L.S. POKHARNA
DY. G.M. (MINES)

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

PUC Certificate Details

Sr. No.	Tipper Reg. No.	Make	Year	PUC No.	Validity Upto
1	RJ09GB7728	ASHOK-LEYLAND	2012	D28RJ09100089	11.05.2020
2	RJ09GB5728	ASHOK-LEYLAND	2016	D28RJ09100009	08.05.2020
3	RJ09GB2828	ASHOK-LEYLAND	2014	D28RJ09100056	11.05.2020
4	RJ09GB2728	ASHOK-LEYLAND	2014	D28RJ09100018	08.05.2020
5	RJ09GB5928	ASHOK-LEYLAND	2016	D28RJ09100004	08.11.2020
6	RJ09GB2528	ASHOK-LEYLAND	2014	D28RJ09100012	08.05.2020
7	RJ09GB0028	ASHOK-LEYLAND	2018	D28RJ09100022	08.05.2020
8	RJ09GB9928	ASHOK-LEYLAND	2018	D28RJ09100058	11.05.2020
9	RJ09GC1128	ASHOK-LEYLAND	2018	D28RJ09100027	08.05.2020
10	RJ09GC1228	ASHOK-LEYLAND	2018	D28RJ09100034	08.05.2020
11	RJ09GC1428	ASHOK-LEYLAND	2018	D28RJ09100044	10.05.2020
12	RJ09GC1328	ASHOK-LEYLAND	2018	D28RJ09100011	08.05.2020
13	RJ09GC2328	ASHOK-LEYLAND	2018	D28RJ09100003	08.05.2020
14	RJ09GB7628	ASHOK-LEYLAND	2013	D28RJ09100057	11.05.2020
15	RJ09GB7828	ASHOK-LEYLAND	2014	D9RJ08104533	4.11.2020
16	RJ09GB9528	ASHOK-LEYLAND	2014	D28RJ09100008	08.05.2020
17	RJ09GB8228	ASHOK-LEYLAND	2014	D28RJ09100055	11.05.2020
18	RJ09GB8128	ASHOK-LEYLAND	2014	D28RJ09100007	08.05.2020
19	RJ09GB8328	ASHOK-LEYLAND	2014	D28RJ09100054	11.05.2020
20	RJ09GA7528	ASHOK-LEYLAND	2012	D28RJ09100010	08.05.2020
21	RJ09GB8628	ASHOK-LEYLAND	2014	D28RJ09100035	08.05.2020


JITENDRA KUMAR NAGAR
ENGINEER (MINES)


L.S. POKHARNA
DY.G.M. (MINES)

J.K. CEMENT WORKS , MANGROL
Mangrol-Tilakhera Limestone Mines
Medical Exam. Details (April'19 to Sept'19)

SR. NO.	MEDICAL EXAMINATION	NO OF PERSONS	REMARK
1	INITIAL MEDICAL EXAMINATION	4	
2	PERIODICAL MEDICAL EXAMINATION	5	


L.S. POKHARNA
DY. G. M. (MINES)

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					3 to10 Meter Distance From Drilling Operation					Near loading point				
	PM10	PM2.5	SO ₂	Nox	CO	PM10	PM2.5	SO ₂	Nox	CO	SPM	SO ₂	Nox	CO	SPM	SO ₂	Nox	CO		
Apr-19	51.1	34.4	12.7	23.1	767	57.6	43.6	13.0	23.8	842	370.0	14.8	24.9	816	361.0	13.8	23.6	802		
May-19	51.9	35.1	13.6	23.9	773	59	44.4	13.6	24.7	859	372.1	16.3	25.8	802	364.5	14.8	24.9	819		
Jun-19	52.4	35.8	15.0	24.6	761	64	45.9	14.6	25.2	842	378.0	16.0	26.7	767	369.1	15.8	25.1	802		
Jul-19	38.0	25.9	8.2	20.7	332	50.0	30.9	10.3	22.5	481	374.0	14.9	25.0	567	272.0	9.7	20.1	464		
Aug-19	30.5	19.7	7.6	17.4	292	45	29.5	9.7	21.3	484	343.0	13.2	23.2	555	293.0	8.9	19.4	412		
Sep-19	32.3	21.4	9.5	20.9	384	44	31.0	12.8	22.2	512	373.0	14.5	23.9	627	290.0	10	21.1	424		
AVERAGE	42.7	28.7	11.1	21.8	552	53.3	37.6	12.3	23.3	670	368.4	15.0	24.9	689	324.9	12.2	22.4	620		

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-19	68.6	55.9		69.9	56.7	
May-19	68.6	56.0		69.1	57.8	
Jun-19	68.2	55.8		69.8	58.9	
Jul-19	67.5	56.2		68.9	57.8	
Aug-19	66.9	55.7		67.5	57.1	
Sep-19	67.8	56.7		69.1	58.3	

Mitra S.K. Private Limited

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CIN: U51909WB1956PTC023037



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w: www.mitrask.com

TEST REPORT

Name & Address of the Customer :

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

Report No. : MSK/UDR/2019-20/1036

Date : 27.09.2019

Sample No. : MSKGL/ED/2019-20/09/00623

Sample Description : Ambient Air

Sampling Location : Near Mine Office (Tilakhera Mine)

Date of Sampling : 16/17.09.2019

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

ANALYSIS RESULT

SL. NO.	Pollutants	Limit	Result	Method of Test Reference
1	Particulate matter (PM ₁₀) in $\mu\text{g}/\text{m}^3$	100	60	IS: 5182:(Part-23)-2006
2	Particulate matter(PM _{2.5}) in $\mu\text{g}/\text{m}^3$	60	39	TPM/MSK/ENV (AP) /01/03
3	Sulphur dioxide(SO ₂) in $\mu\text{g}/\text{m}^3$	80	12.2	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	0.52	IS 5182 :(Part-10) :1999

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

Report Prepared By



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TEST REPORT

Name & Address of the Customer :

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

Report No. : MSK/UDR/2019-20/1037

Date : 27.09.2019

Sample No. : MSKGL/ED/2019-20/09/00624

Sample Description : Ambient Air

Sampling Location : Near Ravana Office (Tilakhera Mine)

Date of Sampling : 16/17.09.2019

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

ANALYSIS RESULT

SL. NO.	Pollutants	Limit	Result	Method of Test Reference
1	Particulate matter (PM ₁₀) in $\mu\text{g}/\text{m}^3$	100	64	IS: 5182:(Part-23)-2006
2	Particulate matter(PM _{2.5}) in $\mu\text{g}/\text{m}^3$	60	43	TPM/MSK/ENV (AP) /01/03
3	Sulphur dioxide(SO ₂) in $\mu\text{g}/\text{m}^3$	80	10.2	IS: 5182 (Part-2)-2001
4	Nitrogen dioxide (NO ₂) in $\mu\text{g}/\text{m}^3$	80	26.2	IS: 5182 (Part- 6)-2006
5	Carbon monoxide(CO) in mg/m^3	2	0.62	IS 5182 :(Part-10) :1999

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

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TEST REPORT

Name & Address of the Customer :

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

Report No. : MSK/UDR/2019-20/1038

Date : 27.09.2019

Sample No. : MSKGL/ED/2019-20/09/00625

Sample Description : Ambient Air

Sampling Location : Arnia Joshi Village (Tilakhera Mine)

Date of Sampling : 16/17.09.2019

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

ANALYSIS RESULT

SL. NO.	Pollutants	Limit	Result	Method of Test Reference
1	Particulate matter (PM ₁₀) in µg/m ³	100	49	IS: 5182:(Part-23)-2006
2	Particulate matter(PM _{2.5}) in µg/m ³	60	33	TPM/MSK/ENV (AP) /01/03
3	Sulphur dioxide(SO ₂) in µg/m ³	80	10.60	IS: 5182 (Part-2)-2001
4	Nitrogen dioxide (NO ₂) in µg/m ³	80	25.7	IS: 5182 (Part- 6)-2006
5	Carbon monoxide(CO) in mg/m ³	2	0.42	IS 5182 :(Part-10) :1999

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

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TEST REPORT

Name & Address of the Customer :

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

Report No. : MSK/UDR/2019-20/1039

Date : 27.09.2019

Sample No. : MSKGL/ED/2019-20/09/00626

Sample Description : Ambient Air

Sampling Location : Near Shahbad (Tilakhera Mine)

Date of Sampling : 16/17.09.2019

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

ANALYSIS RESULT

SL. NO.	Pollutants	Limit	Result	Method of Test Reference
1	Particulate matter (PM ₁₀) in $\mu\text{g}/\text{m}^3$	100	56	IS: 5182:(Part-23)-2006
2	Particulate matter(PM _{2.5}) in $\mu\text{g}/\text{m}^3$	60	34	TPM/MSK/ENV (AP) /01/03
3	Sulphur dioxide(SO ₂) in $\mu\text{g}/\text{m}^3$	80	13.2	IS: 5182 (Part-2)-2001
4	Nitrogen dioxide (NO ₂) in $\mu\text{g}/\text{m}^3$	80	24.6	IS: 5182 (Part- 6)-2006
5	Carbon monoxide(CO) in mg/m^3	2	0.36	IS 5182 :(Part-10) :1999

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

Report Prepared By



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TEST REPORT

Name & Address of the Customer :

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

Report No. : MSK/UDR/2019-20/1066

Date : 27.09.2019

Sample No. : MSKGL/ED/2019-20/09/00667

Sample Description : Fugitive Air

Sampling Location : 3-10 Meter Distance from Drilling

Operation (Tilakhera Mine)

Date of Sampling : 16.09.2019

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

ANALYSIS RESULT

SL. NO.	Pollutants	Result	Method of Test Reference
1	Suspended Particulate Matter (SPM) in $\mu\text{g}/\text{m}^3$	312	IS 5182 (Part-4) - 1999
2	Sulphur dioxide(SO ₂) in $\mu\text{g}/\text{m}^3$	8.2	IS: 5182 (Part-2)-2001
3	Nitrogen dioxide (NO _x) in $\mu\text{g}/\text{m}^3$	30.8	IS: 5182 (Part- 6)-2006
4	Carbon monoxide(CO) in mg/m^3	0.68	IS 5182 :(Part-10) :1999

Report Prepared By



Mitra S.K. Private Limited

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TEST REPORT

Name & Address of the Customer :

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

Report No. : MSK/UDR/2019-20/1067

Date : 27.09.2019

Sample No. : MSKGL/ED/2019-20/09/00668

Sample Description : Fugitive Air

Sampling Location : Near Loading Point (Tilakhera Mine)

Date of Sampling : 16.09.2019

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

ANALYSIS RESULT

SL. NO.	Pollutants	Result	Method of Test Reference
1	Suspended Particulate Matter (SPM) in $\mu\text{g}/\text{m}^3$	302	IS 5182 (Part-4) - 1999
2	Sulphur dioxide(SO ₂) in $\mu\text{g}/\text{m}^3$	9.4	IS: 5182 (Part-2)-2001
3	Nitrogen dioxide (NO _x) in $\mu\text{g}/\text{m}^3$	31.4	IS: 5182 (Part- 6)-2006
4	Carbon monoxide(CO) in mg/m^3	0.68	IS 5182 :(Part-10) :1999

Report Prepared By



Mitra S.K. Private Limited

Shrachi Center (5th Floor)
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TEST REPORT

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

Report No. : MSK/UDR/2019-20/1070
Date : 27.09.2019
Sample No. : MSKGL/ED/2019-20/09/00645 & 00646
Sample Description : Noise Monitoring

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

ANALYSIS RESULT

Sl. No.	Sampling Date	Sampling Location	Results Leq dB(A)	
			Day Time	Night Time
1.	16/17.09.2019	Near Mine Office (Tilakhera Mine)	59.4	46.4
2.		Near Ravana Office (Tilakhera Mine)	55.9	42.0
Limit As per CPCB (Environment Protection Rules, 1986)		in Industrial Area Leq dB(A)	75	70

Report Prepared by :



Shrachi Centre (5th Floor)
74B, Acharya Jagadish Chandra Bose Road
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TEST REPORT

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

Report No. : MSK/UDR/2019-20/299
Date : 17.06.2019
Sample No. : MSKGL/ED/2019-20/05/02171 & 02172
Sample Description : Noise Monitoring

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

ANALYSIS RESULT

Sl. No.	Sampling Date	Sampling Location	Results Leq dB(A)	
			Day Time	Night Time
1.	02/03.05.2019	Near Mine Office (Tilakhera Mine)	56.8	47.2
2.		Near Ravana Office (Tilakhera Mine)	54.5	42.5
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



Mitra S. K. Private Limited



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TEST REPORT

Name & Address of the Customer :

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

Report No. : MSK/UDR/2019-20/250

Date : 06.06.2019

Sample No. : MSKGL/ED/2019-20/05/01461

Sample Description : Ambient Air

Sampling Location : Near Mine Office (Tilakhera Mine)

Date of Sampling : 02/03.05.2019

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

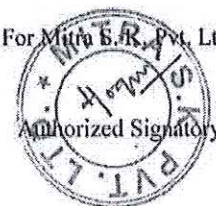
ANALYSIS RESULT

SL. NO.	Pollutants	Limit	Result	Method of Test Reference
1	Particulate matter (PM ₁₀) in $\mu\text{g}/\text{m}^3$	100	71	IS: 5182:(Part-23)-2006
2	Particulate matter(PM _{2.5}) in $\mu\text{g}/\text{m}^3$	60	37	TPM/MSK/ENV (AP) /01/03
3	Sulphur dioxide(SO ₂) in $\mu\text{g}/\text{m}^3$	80	7.2	IS: 5182 (Part-2)-2001
4	Nitrogen dioxide (NO ₂) in $\mu\text{g}/\text{m}^3$	80	28.6	IS: 5182 (Part- 6)-2006
5	Carbon monoxide(CO) in mg/m^3	2	0.43	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.



Shrachi Centre (5th Floor)
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TEST REPORT

Name & Address of the Customer :

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

Report No. : MSK/UDR/2019-20/251

Date : 06.06.2019

Sample No. : MSKGL/ED/2019-20/05/01462

Sample Description : Ambient Air

Sampling Location : Near Ravana Office (Tilakhera Mine)

Date of Sampling : 02/03.05.2019

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

ANALYSIS RESULT

SL. NO.	Pollutants	Limit	Result	Method of Test Reference
1	Particulate matter (PM ₁₀) in $\mu\text{g}/\text{m}^3$	100	82	IS: 5182:(Part-23)-2006
2	Particulate matter(PM _{2.5}) in $\mu\text{g}/\text{m}^3$	60	46	TPM/MSK/ENV (AP) /01/03
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	25.3	IS: 5182 (Part- 6)-2006
5	Carbon monoxide(CO) in mg/m^3	2	0.56	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

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

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TEST REPORT

Name & Address of the Customer :

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

Report No. : MSK/UDR/2019-20/252

Date : 06.06.2019

Sample No. : MSKGL/ED/2019-20/05/01463

Sample Description : Ambient Air

Sampling Location : Arnia Joshi Village (Tilakhera Mine)

Date of Sampling : 02/03.05.2019

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

ANALYSIS RESULT

SL. NO.	Pollutants	Limit	Result	Method of Test Reference
1	Particulate matter (PM ₁₀) in $\mu\text{g}/\text{m}^3$	100	55	IS: 5182:(Part-23)-2006
2	Particulate matter(PM _{2.5}) in $\mu\text{g}/\text{m}^3$	60	33	TPM/MSK/ENV (AP) /01/03
3	Sulphur dioxide(SO ₂) in $\mu\text{g}/\text{m}^3$	80	6.5	IS: 5182 (Part-2)-2001
4	Nitrogen dioxide (NO ₂) in $\mu\text{g}/\text{m}^3$	80	27.2	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

For Mitra S. K. Pvt. Ltd.

Authorized Signatory



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TEST REPORT

Name & Address of the Customer :

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

Report No. : MSK/UDR/2019-20/253

Date : 06.06.2019

Sample No. : MSKGL/ED/2019-20/05/01464

Sample Description : Ambient Air

Sampling Location : Near Shahbad (Tilakhera Mine)

Date of Sampling : 02/03.05.2019

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

ANALYSIS RESULT

SL. NO.	Pollutants	Limit	Result	Method of Test Reference
1	Particulate matter (PM ₁₀) in $\mu\text{g}/\text{m}^3$	100	66	IS: 5182:(Part-23)-2006
2	Particulate matter(PM _{2.5}) in $\mu\text{g}/\text{m}^3$	60	37	TPM/MSK/ENV (AP) /01/03
3	Sulphur dioxide(SO ₂) in $\mu\text{g}/\text{m}^3$	80	7.0	IS: 5182 (Part-2)-2001
4	Nitrogen dioxide (NO ₂) in $\mu\text{g}/\text{m}^3$	80	26.6	IS: 5182 (Part- 6)-2006
5	Carbon monoxide(CO) in mg/m^3	2	0.29	IS 5182 :(Part-10) :1999

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

Report Prepared By

For Mitra S.K. Pvt. Ltd.

Authorized Signatory



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TEST REPORT

Name & Address of the Customer :

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

Report No. : MSK/UDR/2019-20/246

Date : 06.06.2019

Sample No. : MSKGL/ED/2019-20/05/01515

Sample Description : Fugitive Air

Sampling Location : 3-10 Meter Distance from Drilling

Operation (Tilakhera Mine)

Date of Sampling : 02.05.2019

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

ANALYSIS RESULT

SL. NO.	Pollutants	Result	Method of Test Reference
1	Suspended Particulate Matter (SPM) in $\mu\text{g}/\text{m}^3$	469	IS 5182 (Part-4) - 1999
2	Sulphur dioxide(SO ₂) in $\mu\text{g}/\text{m}^3$	9.2	IS: 5182 (Part-2)-2001
3	Nitrogen dioxide (NO _x) in $\mu\text{g}/\text{m}^3$	32.7	IS: 5182 (Part- 6)-2006
4	Carbon monoxide(CO) in mg/m^3	0.62	IS 5182 :(Part-10) :1999

Report Prepared By

For Mitra S.K. Pvt. Ltd.

Authorized Signatory



Mitra S. K. Private Limited



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TEST REPORT

Name & Address of the Customer :

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

Report No. : MSK/UDR/2019-20/247

Date : 06.06.2019

Sample No. : MSKGL/ED/2019-20/05/01516

Sample Description : Fugitive Air

Sampling Location : Near Loading Point (Tilakhera Mine)

Date of Sampling : 02.05.2019

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

ANALYSIS RESULT

SL. NO.	Pollutants	Result	Method of Test Reference
1	Suspended Particulate Matter (SPM) in $\mu\text{g}/\text{m}^3$	391	IS 5182 (Part-4) - 1999
2	Sulphur dioxide(SO ₂) in $\mu\text{g}/\text{m}^3$	10.6	IS: 5182 (Part-2)-2001
3	Nitrogen dioxide (NO _x) in $\mu\text{g}/\text{m}^3$	33.8	IS: 5182 (Part- 6)-2006
4	Carbon monoxide(CO) in mg/m^3	0.74	IS 5182 :(Part-10) :1999

Report Prepared By

For Mitra S. K. Pvt Ltd.

Authorized Signatory

