

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

Regd.AD.

Date: 30.05.2020

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

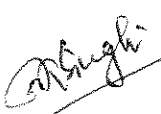
Dear Sir,

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 October' 2019 to March' 2020. As per MoEF & CC notification no. S.O. 5845 (E) 26.11.2018 the same soft copy has been send to email id. roc2.lko-mef@nic.in, moef@nic.in, m_env@rediffmail.com, ccb.cpcb@nic.in, member-secretary@rpcb.nic.in, cpcb.bhopal@gmail.com monitoring-ec@nic.in 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. Power, Bamania
J. K. Cement Works, Muddapur
J. K. White Cement Works, Gotan





JK *Cement* LTD.

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

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

Period: October-19 to March-20

**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.

Signature

COMPLIANCE REPORT OF CONDITIONS LAID DOWN IN ENVIRONMENT CLEARANCE OF TILAKHERA MINE (October 2019 – March 2020) Dated 30.05.2020

S. 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 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>Pavocristatus</i> (Indian peafowl).	Conservation Plan for Schedule Species in the study area namely <i>Pavocristatus</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, Forest and Climate Change 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 is attached as annexure-A . The latest EC Compliance Report incorporated water monitoring report has been submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office at Lucknow vide letter no. MGR/PC/-14/C11/3738 dated 26/11/2019.
(vi)	Sufficient number of Gullies should be provided for better management of	The garland drain has been constructed to channelize the water in the

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

	water. Regular Monitoring of PH shall be included in the monitoring plan and report shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office located at Lucknow on six monthly basis.	east of the subgrade dump. The latest EC Compliance Report incorporated water monitoring report has been submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office at Lucknow vide letter no. MGR/PC/-14/C11/3738 dated 26/11/2019.																				
(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 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.	The detail of the elevation, ground water table and working level is given below:- <table><tr><th>S.No.</th><th>Particulars</th><th>Levels (MSL)</th><th>BGL (m)</th></tr><tr><td>1.</td><td>Highest Elevation</td><td>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></table>	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
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																			

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COMPLIANCE REPORT OF CONDITIONS LAID DOWN IN ENVIRONMENT CLEARANCE OF TILAKHERA MINE (October 2019 – March 2020) Dated 30.05.2020

		<table><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><tr><td colspan="4">Source: - As per approved Modified Mining Plan with PMCP dated 03.01.2019.</td></tr></table> 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 and Ganga Rejuvenation vide letter no. 21-4(34)/WR/CGWA/2005/907 dated 14.05.2018 which is valid till 13.05.2020.	5.	Water Table (Post-Monsoon)	387	40	6.	Ultimate Pit Limit	374	53	Source: - As per approved Modified Mining Plan with PMCP dated 03.01.2019.			
5.	Water Table (Post-Monsoon)	387	40											
6.	Ultimate Pit Limit	374	53											
Source: - As per approved Modified Mining Plan with PMCP dated 03.01.2019.														
(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 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.	Blasting operation is being carried out in day time only. Use of Sequential blasting machine (SBM), Delay detonator, Non-Electric detonator for blasting and to mitigate vibration. Water injection system on Wagon drill has been provided which suppresses dust at its source of generation. Vibration report is enclosed as annexure-I .												
(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.												

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

(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.	Tipplers engaged in the mines are periodically checked once in six months, vehicular emissions are kept under permissible limits. The tipplers are not loaded above the rated capacity. Copy of PUC is enclosed as Annexure II .
(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.
(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	Agreed. Mining will be done in accordance with Approved Modified

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COMPLIANCE REPORT OF CONDITIONS LAID DOWN IN ENVIRONMENT CLEARANCE OF TILAKHERA MINE (October 2019 – March 2020) Dated 30.05.2020

	without prior approval of the Ministry of Environment and Forests.	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.									
(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 winter season (January 2020) was sent vide letter no. MGR/PC/14/C11/4918 dated 01.02.2020.									
(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 not be kept active for a long period of time. The maximum height of the dumps shall not exceed 8m and width 20m and overall slope of the dumps shall be maintained to 45°. The OB dumps should be	<table><tr><td colspan="3">The top soil is being used for the plantation.</td></tr><tr><td>No of Overburden Dump and total quantity generated at present (31.03.2020)</td><td>No of sub stack mineral dump total quantity generated at present (31.03.2020)</td><td>Height and overall slope</td></tr><tr><td>No. - 03</td><td>No.- 02</td><td>45 degree</td></tr></table>	The top soil is being used for the plantation.			No of Overburden Dump and total quantity generated at present (31.03.2020)	No of sub stack mineral dump total quantity generated at present (31.03.2020)	Height and overall slope	No. - 03	No.- 02	45 degree
The top soil is being used for the plantation.											
No of Overburden Dump and total quantity generated at present (31.03.2020)	No of sub stack mineral dump total quantity generated at present (31.03.2020)	Height and overall slope									
No. - 03	No.- 02	45 degree									

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

	scientifically vegetated with suitable native species to prevent erosion and surface runoff. In critical areas, use of geo textiles shall be undertaken for stabilization of the dump. The entire excavated 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 & Forests and its Regional Office located at Lucknow on six monthly basis.	<table border="1"> <tr> <td>Quantity : 61516 Tons</td><td>Quantity : 783332 Tons</td><td>OB – 5.98m. Stack – 13.40m.</td></tr> </table> The excavated area will be used as water reservoir 52.879Ha. No backfilling is proposed. Source: As per approved Mining Plan with PMCP.	Quantity : 61516 Tons	Quantity : 783332 Tons	OB – 5.98m. Stack – 13.40m.			
Quantity : 61516 Tons	Quantity : 783332 Tons	OB – 5.98m. Stack – 13.40m.						
(viii)	Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, mineral and OB dumps to prevent run off of water and flow of sediments directly into the river and other water bodies. The water so collected should be utilized for watering the mine area, roads, greenbelt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly. The drains, settling tanks and check dams of appropriate size, gradient and length shall be constructed both around the mine pit and overburden dumps to prevent runoff of water and flow of sediments directly into the river and other water bodies and sump capacity should be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt material. Sedimentation pits shall be constructed at the corners of the garland drains and desilted at regular intervals.	Catch drains to collect water for the working pit and siltation ponds are in place details are as follows: <table border="1"> <thead> <tr> <th>Location</th><th>Drain size</th><th>Sump volume</th></tr> </thead> <tbody> <tr> <td>Working pit</td><td>39.614 Ha</td><td>North pit – 97662 cu.m. South pit – 77256 cu.m.</td></tr> </tbody> </table> The storm water are been collected to garland drain has been constructed around east and south side of sub grade dump from the periphery of the pit area and the waste dump area routed to siltation pond. The collected water is being used for plantation and water sprinkling on haul road.	Location	Drain size	Sump volume	Working pit	39.614 Ha	North pit – 97662 cu.m. South pit – 77256 cu.m.
Location	Drain size	Sump volume						
Working pit	39.614 Ha	North pit – 97662 cu.m. South pit – 77256 cu.m.						

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COMPLIANCE REPORT OF CONDITIONS LAID DOWN IN ENVIRONMENT CLEARANCE OF TILAKHERA MINE (October 2019 – March 2020) Dated 30.05.2020

(ix)	Plantation shall be raised 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 2019-20 within lease 2000 nos. covering 1.10 ha. new area. Total Plantation done till date is 42385 nos. inside and 53592 nos. in outside lease area. Survival rate of plantation is 51.21% inside lease area and 60.84% outside lease area. Total plantation area covered till date is 15.21 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 perennial nallahs flowing in and around the mine lease shall be carried out and records maintain	The regular monitoring of flow rate of perennial nallah flowing 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 piezometers during the mining operation. The monitoring shall be carried out four times in a year pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January)	The report on ground water level and quality for winter season (January 2020) was sent vide letter no. MGR/PC/14/C11/4918 dated 01.02.2020.

Signature

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

	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.	
(xiii)	The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna namely leopard, elephant, etc. spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and Wildlife Department. Necessary allocation of funds for 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.	<i>Pavocristatus</i> (Indian peafowl) is recorded in the buffer zone of the study area. Conservation of Indian peafowl is prepared with 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 maybe 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- III .
(xvi)	The critical parameters such as SPM, RSPM, (Particulate matter with size	Monitoring data is regularly submitted in prescribed offices. Latest

Signature

COMPLIANCE REPORT OF CONDITIONS LAID DOWN IN ENVIRONMENT CLEARANCE OF TILAKHERA MINE (October 2019 – March 2020) Dated 30.05.2020

	less than 10 micron i.e., PM ₁₀), NO _x 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.	monitoring report 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. Latest noise monitoring report as enclosed as Annexure -III.
(xviii)	Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May, 1993 and 31 st December, 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluents.	Agreed. No industrial waste water is generated in the Mine.
(xix.)	Personal working in dusty areas should wear protective respiratory devices and they should also be provided and adequate training and information on safety and health aspects.	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	Regular periodic check-up of workers is being carried out. During the year

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Date

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

	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.	2019 -20, 22 nos. of periodical and 11 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 and 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 expenditure should be reported to the Ministry and its regional Office located at Lucknow.	A separate fund is kept for environment protection measures and report is being sent regularly to the concerned authority. Environment expenditure 2019-20 is attached as annexure-A .
(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, Forest and Climate Change, its Regional	Six monthly reports is being submitted to allconcern offices as given in previous clearance letter. Latest Six Monthly Monitoring report sent to Regional Office and Head Office, Ministry of Environment, Forest and

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COMPLIANCE REPORT OF CONDITIONS LAID DOWN IN ENVIRONMENT CLEARANCE OF TILAKHERA MINE (October 2019 – March 2020) Dated 30.05.2020

	Office, Lucknow, Central Pollution Control Board.	Climate Change, Lucknow, vide letter no MGR/PC/-14/C11/3738 dated 26/11/2019.. 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 Industry Centre and Collector's office/ Tehsildar's Office for 30 days.	Complied.
(xxviii)	The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at web site of the Ministry of Environment and Forest at http:// envfor.nic.in and a copy of the same should be forwarded to the Regional Office of this Ministry located Lucknow.	Implemented and the necessary information already sent to the concerned authority.

(Signature)

J.K. Cement WORKS, MANGROL (RAJ)
TILAKHERA MINE

Financial Budget for Environmental Management
FY 2020-21

S. No.	Activity	Recurring Cost per Annum (Rs. in Lacs)
		Proposed
1.	Pollution control expenses (Others)	5.012
2.	Pollution control expenses (Statutory)	-
3.	Gardening Expenses	6.6
4.	CSR Expenses	88.0
Total (Rs. in Lacs)		99.612/-

3/11/20

J.K. Cement WORKS, MANGROL (RAJ)
TILAKHERA MINE

EXPENDITURE INCURRED ON ENVIRONMENTAL PROTECTION
MEASURES DURING YEAR 2019-2020

S. No.	Activity	Recurring Cost per Annum (Rs.)
1.	Pollution control expenses (Others)	109214
2.	Pollution control expenses (Statutory)	320200
3.	Gardening Expenses	338491
4.	CSR Expenses	3220056
Total (Rs.)		3987960/-

MS Singh

GROUND VIBRATION DETAILS(MANGROL-TILAKHERA MINES)

PERIOD :-OCT--19 TO MARCH-20

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	5.10.2019	B=IE S/P BID=18--26	300M SCHOOL SITE FROM FACE	9	30.3KG	2.996	NONELS
2	21.10.2019	B=IIE S/P BID=17--11	300M SOUTH SITE FROM FACE	7	29.76KG	2.621	NONELS
3	31.10.2019	B=IIE S/P BID=18--45	300M EAST SITE FROM FACE	7	29.96KG	1.205	NONELS
4	11.11.2019	B=IIIE N/P BID=0--41	300M EAST SITE FROM FACE	12	34.8KG	1.64	NONELS
5	25.11.2019	B=IIE N/P BID=5--29	300 M BACK SITE FROM FACE	18	28.22KG	1.451	NONELS
6	30.11.2019	B=IIE N/P BID=0--49	300M BACK SITE FROM FACE	22	28.92KG	2.866	NONELS
7	03.12.2019	B=IE N/P BID=0--51	300M BACK SITE FROM FACE	12	29.0KG	3.096	NONELS
8	17.12.2019	B=IVE N/P BID=3--32	300M BACK SITE FROM FACE	10	40.0KG	1.766	NONELS
9	22.12.2019	B=VS N/P BID=0--54	250M BACK SITE FROM FACE	16	32.88KG	1.849	NONELS
10	03.01.2020	BENCH=IIIE ,BID=14--5	300M EAST SITE FROM FACE	15	31.6KG	0.925	NONELS
11	18.01.2020	BENCH=VS,BID=3--43	300M EAST SITE FROM FACE	12	29.98KG	1.985	NONELS
12	23.01.2020	BENCH=VS,BID=3--47	300M EAST SITE FROM FACE	18	23.30KG	1.552	NONELS
13	30.01.2020	BENCH=VE,BID=0--57	300M SOUTH SITE FROM FACE	16	27.31KG	2.32	NONELS
14	01.02.2020	BENCH=VS, BID=3--52	300M BACK SITE FROM FACE	16	32.8KG	2.32	NONELS
15	11.02.2020	BENCH=IE,BID=1--61	300M EAST SITE FROM FACE	11	34.8KG	2.119	NONELS
16	18.02.2020	BENCH=IE,BID=7--14	300M NORTH SITE FROM FACE	17	32.35KG	2.906	NONELS
17	29.02.2020	BENCH=IVE,BID=3--62	300M BACK SITE FROM FACE	14	41.07KG	1.337	NONELS
18	02.03.2020	BENCH=IVE,BID=3--63	300M BACK SITE FROM FACE	16	36.12KG	1.383	NONELS
19	09.03.2020	BENCH=IIIE ,BID=17--15	250M SOUTH SITE FROM FACE	9	25.53KG	1.635	NONELS
20	16.03.2020	BENCH=IIIE,BID=17--17	250M SOUTH SITE FROM FACE	11	26.26KG	1.349	NONELS
21	19.03.2020	BENCH=IIIE,BID=04--37	300M NORTH SITE FROM FACE	17	36.17KG	1.635	NONELS

PARAS POKHRNA
BLASTING INCHARGE

L.S.POKHARNA
MINES MANAGER

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

PUC Certificate Details			DATE- 19.05.2020	
Sr. No.	Tipper Reg. No.	Make	Year	Validity Upto
1	RJ09GB7728	ASHOK-LEYLAND	2019	11.05.2020
2	RJ09GB5728	ASHOK-LEYLAND	2019	08.05.2020
3	RJ09GB2828	ASHOK-LEYLAND	2019	11.05.2020
4	RJ09GB2728	ASHOK-LEYLAND	2019	08.05.2020
5	RJ09GB5928	ASHOK-LEYLAND	2019	08.11.2021
6	RJ09GB2528	ASHOK-LEYLAND	2019	08.05.2020
7	RJ09GB0028	ASHOK-LEYLAND	2019	08.05.2020
8	RJ09GB9928	ASHOK-LEYLAND	2019	11.05.2020
9	RJ09GC1128	ASHOK-LEYLAND	2019	08.05.2020
10	RJ09GC1228	ASHOK-LEYLAND	2019	10.05.2020
11	RJ09GC1428	ASHOK-LEYLAND	2019	08.05.2020
12	RJ09GC1328	ASHOK-LEYLAND	2019	08.05.2020
13	RJ09GC2328	ASHOK-LEYLAND	2019	11.05.2020
14	RJ09GB7628	ASHOK-LEYLAND	2019	4.11.2020
15	RJ09GB7828	ASHOK-LEYLAND	2019	08.05.2020
16	RJ09GB9528	ASHOK-LEYLAND	2019	11.05.2020
17	RJ09GB8228	ASHOK-LEYLAND	2019	08.05.2020
18	RJ09GB8128	ASHOK-LEYLAND	2019	11.05.2020
19	RJ09GB8328	ASHOK-LEYLAND	2019	08.05.2020
20	RJ09GA7528	ASHOK-LEYLAND	2019	08.05.2020
21	RJ09GB8628	ASHOK-LEYLAND	2019	08.05.2020

JITENDRA KUMAR NAGAR
ENGINEER (MINES)

L.S.POKHARNA
DGM (MINES)



J.K. Cement Works, MANGROL (RAJ)																					Annexure-III
TILAKHERA LIMESTONE MINE																					
SIX MONTHLY AMBIENT AIR QUALITY & NOISE MONITORING REPORT																					
Sample duration: 24 hourly sample, (monthly average basis)																					
1) AMBIENT AIR QUALITY SPM RESULTS : (ALL VALUES IN µg/M3)																					
Month	Near Mine Office					Near Ravana Office					3 to 10 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			
Oct-19	43.0	32.4	9.8	20.5	401	57.4	46.8	10.7	23.1	522	396.0	13.5	28.5	521.0	364.0	12.8	26.2	681.3			
Nov-19	43.5	32.4	9.4	22.4	470	58.2	47.3	12.8	23.3	687	398.0	13.9	24.7	630.1	348.0	11.7	27.8	796.2			
Dec-19	40.7	33.1	12.0	24.4	550	55.5	46.1	16.1	24.0	739	417.0	18.2	26.1	744.6	370.0	14.7	27.4	670.2			
Jan-20	52.4	40.3	13.4	25.7	773	69.7	50.0	18.0	25.0	808	429.0	19.2	27.4	567.1	377.0	16.5	28.7	876.4			
Feb-20	59.4	51.3	15.8	27.4	745	72.6	51.4	17.0	27.0	796	442.0	18.5	26.7	698.8	390.0	18.1	27.9	905.0			
Mar-20	61.3	38.5	17.5	25.2	802	70.1	47.1	17.4	25.1	790	452.0	19.0	27.6	738.9	400.0	18.7	29.2	801.9			
AVERAGE	50.1	38.0	13.0	24.3	623	63.9	48.1	15.3	24.6	724	422.3	17.1	26.8	650	374.8	15.4	27.9	789			

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

Month	Day/Night	Near Mine Gate	Near Ravana Office
Oct-19	Day	66.5	67.8
	Night	55.4	57.7
Nov-19	Day	65.3	66.8
	Night	54.8	55.9
Dec-19	Day	67.2	68.5
	Night	56.3	58.4
Jan-20	Day	56.8	67.4
	Night	52.1	63
Feb-20	Day	57.1	66.8
	Night	51.9	61.4
Mar-20	Day	58.2	67.8
	Night	52.6	62.6

Signature

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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F: 91 33 22650008
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W: www.mitrask.com

TEST REPORT

Name & Address of the Customer :

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

Report No. : MSK/UDR/2020-21/50

Date : 28.05.2020

Sample No. : MSKGL/ED/2019-20/03/01073

Sample Description : Ambient Air

Sampling Location : Arnia Joshi Village (Tilakhera Mine)

Date of Sampling : 16/17.03.2020

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

ANALYSIS RESULT

SL. NO.	Pollutants	Limit	Result	Method of Test Reference
1	Particulate matter (PM ₁₀) in $\mu\text{g}/\text{m}^3$	100	62	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	6.8	IS: 5182 (Part-2)-2001
4	Nitrogen dioxide (NO ₂) in $\mu\text{g}/\text{m}^3$	80	28.0	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

Checked By

For
Authorized Signatory

Mitra S.K. Private Limited

Shrachi Center (5th Floor)
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TEST REPORT

Name & Address of the Customer :

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

Report No. : MSK/UDR/2020-21/62

Date : 28.05.2020

Sample No. : MSKGL/ED/2019-20/03/01085

Sample Description : Ambient Air

Sampling Location : Near Mine Office (Tilakhera Mine)

Date of Sampling : 16/17.03.2020

Reference No.& Date : e-mail did: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	78	IS: 5182:(Part-23)-2006
2	Particulate matter(PM _{2.5}) in $\mu\text{g}/\text{m}^3$	60	42	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	26.9	IS: 5182 (Part- 6)-2006
5	Carbon monoxide(CO) in mg/m^3	2	0.47	IS 5182 :(Part-10) :1999

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

Checked By

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

Mitra S.K. Private Limited

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TEST REPORT

Name & Address of the Customer :

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

Report No. : MSK/UDR/2020-21/65

Date : 28.05.2020

Sample No. : MSKGL/ED/2019-20/03/01088

Sample Description : Ambient Air

Sampling Location : Near Ravana Office (Tilakhera Mine)

Date of Sampling : 16/17.03.2020

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

ANALYSIS RESULT

SL. NO.	Pollutants	Limit	Result	Method of Test Reference
1	Particulate matter (PM ₁₀) in $\mu\text{g}/\text{m}^3$	100	89	IS: 5182:(Part-23)-2006
2	Particulate matter(PM _{2.5}) in $\mu\text{g}/\text{m}^3$	60	52	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	28.2	IS: 5182 (Part- 6)-2006
5	Carbon monoxide(CO) in mg/m^3	2	0.66	IS 5182 :(Part-10) :1999

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

Checked By

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

Mitra S.K. Private Limited

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TEST REPORT

Name & Address of the Customer :

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

Report No. : MSK/UDR/2020-21/66

Date : 28.05.2020

Sample No. : MSKGL/ED/2019-20/03/01089

Sample Description : Ambient Air

Sampling Location : Near Shahbad (Tilakhera Mine)

Date of Sampling : 16/17.03.2020

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

ANALYSIS RESULT

SL. NO.	Pollutants	Limit	Result	Method of Test Reference
1	Particulate matter (PM ₁₀) in $\mu\text{g}/\text{m}^3$	100	72	IS: 5182:(Part-23)-2006
2	Particulate matter(PM _{2.5}) in $\mu\text{g}/\text{m}^3$	60	42	TPM/MSK/ENV (AP) /01/03
3	Sulphur dioxide(SO ₂) in $\mu\text{g}/\text{m}^3$	80	7.4	IS: 5182 (Part-2)-2001
4	Nitrogen dioxide (NO ₂) in $\mu\text{g}/\text{m}^3$	80	29	IS: 5182 (Part- 6)-2006
5	Carbon monoxide(CO) in mg/m^3	2	0.46	IS 5182 :(Part-10) :1999

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

Checker By

For Mitra S.K. Pvt. Ltd.
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Mitra S.K. Private Limited

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TEST REPORT

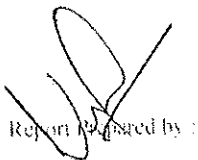
Name & Address of the Customer :
J.K. Cement Works, Mangrol
Distt. Chittorgarh (Raj.)

Report No. : MSK/UDR/2020-21/75
Date : 28.05.2020
Sample No. : MSKGL/ED 2019-20/03/01104 to 01105
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.	16/17.03.2020	Near Mine Office (Tilakhera Mine)	56.4	42.2
2.		Near Ravana Office (Tilakhera Mine)	58.2	46.4
Limit As per CPCB (Environment Protection Rules, 1986)		in Industrial Area Leq dB(A)	75	70

Report Prepared by : 

For Mitra S.K. Private Limited

Authorized Signatory

Mitra S.K. Private Limited

Shrachi Center (5th Floor)
74B, Acharya Jagadish Chandra Bose Road
Kolkata – 700 016, West Bengal India
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TEST REPORT

Name & Address of the Customer :

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

Report No. : MSK/UDR/2020-21/81

Date : 28.05.2020

Sample No. : MSKGLTD 2019-20/03-01111

Sample Description : Fugitive Air

Sampling Location : 3-10 Meter Distance from Drilling

Operation (Tilakhera Mine)

Date of Sampling : 16.03.2020

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

ANALYSIS RESULT

SL. NO.	Pollutants	Result	Method of Test Reference
1	Suspended Particulate Matter (SPM) in $\mu\text{g}/\text{m}^3$	474	IS 5182 (Part-1) - 1999
2	Sulphur dioxide(SO ₂) in $\mu\text{g}/\text{m}^3$	8.8	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

checked By

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

Mitra S.K. Private Limited

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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/2020-21/87

Date : 28.05.2020

Sample No. : MSKGL41D/2019-20/03/01117

Sample Description : Fugitive Air

Sampling Location : Near Loading Point (Tilakhera Mine)

Date of Sampling : 16.03.2020

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

ANALYSIS RESULT

SL. NO.	Pollutants	Result	Method of Test Reference
1	Suspended Particulate Matter (SPM) in $\mu\text{g}/\text{m}^3$	400	IS 5182 (Part-4) - 1999
2	Sulphur dioxide(SO ₂) in $\mu\text{g}/\text{m}^3$	11.4	IS: 5182 (Part-2)-2001
3	Nitrogen dioxide (NO _x) in $\mu\text{g}/\text{m}^3$	34.8	IS: 5182 (Part- 6)-2006
4	Carbon monoxide(CO) in mg/m^3	0.70	IS 5182 (Part-10) :1999

Checked By

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

