

JK Cement LTD.

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

CIN : L17229UP1994PLC017199

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

Our Ref. No.: NBH/PC- 14/C13

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 Karunda Limestone Mine.
Ref.: EC letter no. - J-11O15/428/2008-IA.II (M) Dated 06 August 2010.

Dear Sir,

With reference to above stated Environment Clearance (EC) accorded for our Karunda Limestone 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. rocz.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, Nimbahera

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 110032

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
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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.**

11015/428/2008-IA.II (M) dated 06.08.2010

Period: Apr-19 to Sept-19

**For
Expansion of Karunda Limestone Mine Production
Project: Limestone 1.09 MMTPA to 2.0 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, NIMBAHERA,
Kailash Nagar, 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 vide letter no -J-11015/428/2008-IA. II (M) dated 06.08.2010 production capacity of Limestone from 1.09 MTPA to 2.0 MMTPA.
- Consent to Establish has been obtained under Air & Water Act for the expansion in production capacity of 2.0MMTPA vide letter no. F(Mines)/Chittorgarh(Nimbahera)/513(1)/2010-2011/6708-6712 dated 27/01/2011.
- Consent to operate has been obtained under Air & Water act for expansion in production capacity of Limestone - 2.0 MMTPA vide letter no. F(Mines)/Chittorgarh (Nimbahera)/1869(1)/2017-2018/ 2141 - 2145 dated. 20.06.2017 valid till 31/05/2022.

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

S. No.	Condition	Status	Remarks
	(A) Specific Conditions		
(i)	The project proponent shall obtain Consent to Establish and Consent to Operate from the Rajasthan State Pollution Control Board and effectively implement all the conditions stipulated therein.	- Consent to Establish has been obtained under Air & Water Act for the expansion in production capacity of 2.0MMTPA vide letter no. F(Mines)/Chittorgarh(Nimbahera) /513(1)/2010-2011/6708-6712 dated 27/01/2011. - Consent to operate has been obtained under Air & Water act for expansion in production capacity of Limestone - 2.0 MMTPA vide letter no. F(Mines)/Chittorgarh (Nimbahera)/1869(1)/2017-2018/ 2141 - 2145 dated. 20.06.2017 valid till 31/05/2022.	
(ii)	Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India in Contempt Petition (C) No.412/2004 in IA No. 833 in Writ Petition (C) No. 202 of 1995, as may be applicable to this project.	The condition no.(ii) is agreed upon.	
(iii)	The environmental clearance is subject to approval of the State Land use Department, Government of Rajasthan for	The mining lease was originally sanctioned in favor of J. K. Cement Works by State Govt. vide letter no. P5 (32) KHAN/ Group - 03/ 80 dated 25.07.1984 for an area of 336.70 Ha. The company has surrendered an area of 95.84 ha. out of 336.70 ha. and was	

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

	diversion of agricultural land for non-agricultural use.	accepted by Superintending Mining Engineer, Bhilwara vide letter no. SME/ BHIL CIRCLE/ CC1/ ML 3/ 03/ 1509 dated 16.07.2008 and retained only an area of 240.86Ha. The Mining lease has been renewed first time vide State Govt. order no. P.16(19)Khan/Group-2/05 dated 18.11.2010 for a period of 20 years for an area of 240.86 ha. Lease agreement signed on 05.08.2014 and registered on 06.08.2014.	
(iv)	Necessary prior permission from the Competent Authority as may be applicable for use of grazing land for mining purpose shall be obtained.	The mining lease was originally sanctioned on dated 25.07.1984 for an area of 336.70 Ha. The company has surrendered an area of 95.84 ha. out of 336.70 ha. and retained only an area of 240.86 Ha. consisting of 59.80 Ha of grazing land. The orders of Hon'ble Supreme Court 2006, is not applicable as the lease was allocated prior to 2006.	
(v)	The project proponent shall develop fodder plots in the non-mineralized area in lieu of use of grazing land.	The mining lease was executed on 25.07.1984. The orders of Hon'ble Supreme Court 2006, is not applicable as the lease was allocated prior to 2006. Hence no fodder plots were developed.	
(vi)	The mining operations shall be restricted to above ground water table and it should not intersect the groundwater table. In case of working below the ground water table, prior approval of the Ministry of Environment and Forests and the Central	We are in consensus with the same and have obtained permission for abstraction of Ground water vide letter no. 21-4(286)WR/CGWA/2008-1676 dated 28th Oct, 2015. Presently we are not working below ground water table however we have obtained permission for intersecting ground water table is	

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

	Ground Water Authority shall be obtained, for which a detailed hydro-geological study shall be carried out.	obtained vide letter no. 21-4(286)/WR/CGWA/2008- 813 dated 17th May, 2016. Renewal of ground water abstraction permission of 2,300KLD for Mangrol Cement plant including Maliakhera & Karunda Limestone Mine has been applied and submitted on 16.10.2017.	
(vii)	The Project Proponent shall ensure that no natural watercourse and/or water resources are obstructed due to any mining operation. Adequate measures shall be taken for protection of the seasonal nallah during the course of mining operation.	No natural water course and / or water resources will be obstructed due to any mining operation.	
(viii)	The top soil shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The 5 and plantation.	The Top soil generated during mining operation is being stacked at designated places, levelled and being used for plantation.	
(ix)	The waste generated during the mining operation shall be stacked at the earmarked site and reclaimed by the plantation. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-	The overburden waste generated is 618503.32 Tonnes up to 31 st March 2019 and will be stabilized after it becomes inactive. There are existing dump of sub grade mineral and the quantity generated up to 31 st March 2019 is 1271583.68 Tonnes. (Source- Approved Mining Plan with PMCP)	

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

	sustaining. Compliance status should be submitted to the Ministry of Environment & Forests and its Regional Office, Lucknow on six monthly basis.	The latest compliance report was submitted on six monthly basis to the Office of MoEF&CC Regional Office, Lucknow vide letter no. NBH/PC/C-13/ 953 dated 28.05.2019.							
(x)	The void left unfilled in the entire excavated area of 115 ha shall be converted into water body. The higher benches of excavated void/mining pit shall be terraced and plantation done to stabilize the slopes. The slope of higher benches shall be made gentler for easy accessibility by local people to use the water body. Peripheral fencing shall be carried out all along the excavated area.	In the conceptual phase, the entire excavated area of 156.706Ha. <i>(Source: Approved Modified Mining Plan with PMCP on dated 28.11.2018)</i> shall be converted into water reservoir. The higher benches of excavated void/mining pit shall be terraced and plantation done to stabilize the slopes. The slope of higher benches shall be made gentler for easy accessibility by local people to use the water body. Peripheral fencing shall be carried out all along the excavated area during the lease period as and when required.							
(xi)	Catch drains and siltation ponds of appropriate size shall be constructed for the working pit, temporary soil, mineral dumps and waste dump(s) to arrest flow of silt and sediment directly into the agricultural fields, the Murli dam, seasonal nallah and other water bodies. The water so collected should be utilized	Catch drains to collect water for the working pit and siltation ponds are in place details are as follows: <table><tr><th>Site</th><th>Drain size</th><th>Sump volume</th></tr><tr><td>Working pit</td><td>1x1</td><td>1) Bench 3 of Pit-1 (North side)-103551Cu.m. 2) Bench 4 of Pit-2 (South side)-161584Cu.m. (Water collection in Bottom bench depends on rainfall)</td></tr></table>	Site	Drain size	Sump volume	Working pit	1x1	1) Bench 3 of Pit-1 (North side)-103551Cu.m. 2) Bench 4 of Pit-2 (South side)-161584Cu.m. (Water collection in Bottom bench depends on rainfall)	
Site	Drain size	Sump volume							
Working pit	1x1	1) Bench 3 of Pit-1 (North side)-103551Cu.m. 2) Bench 4 of Pit-2 (South side)-161584Cu.m. (Water collection in Bottom bench depends on rainfall)							

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

	for watering the mine area, roads, green belt development etc. The drains should be regularly desilted particularly after the monsoon and maintained properly. Garland drains, setting tanks and check dams of appropriate size, gradient and length shall be constructed both around the mine pit and waste dump(s) to prevent run off of water and flow of sediments directly into the agricultural fields, the Murlia dam, seasonal nallah 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 setting of slit material. Sedimentation pits should be constructed at the corners of the garland drains and desilted at regular intervals.	The storm water are been collected to garland drain 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.	
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COMPLIANCE REPORT OF CONDITIONS LAID DOWN IN ENVIRONMENT CLEARANCE OF KARUNDA MINE
(April 2019-September 2019) Dated 26.11.2019

(xii)	Dimension of the retaining wall at the toe of the waste dumps and the waste benches within the mine to check run-off and siltation should be based on the rain fall data.	Retaining wall at the toe of waste dump has been made with dimension of 255 m (L) X 0.6 m (W) X 2.10 m (H). Top black cotton soil is generated which is stacked, levelled and used for plantation. The plantation is protected by barbed wire fencing.	
(xiii)	Plantation shall be raised in an area of 27 ha including a 7.5m wide green belt in the safety zone around the mining lease, reclaimed area, around water body, around waste dumps 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 1000 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.	➤ Plantation has been done from the year 2001-2002 up to 30.09.2019 for an area of 18.50 Ha. All along the periphery of lease area and all along the roads (17.0 Ha. within Mining lease and 1.5 Ha. outside lease) having total no. of plants 32,519 (Within lease 31519 Nos. and 1000 Nos. outside lease) with survival rate of average 62.22% & Green belt of 17.80 Ha. area. ➤ There is no reclaimed area in the mining lease area. ➤ Plantation for stabilization of waste dump within the mining lease will be done after it becomes inactive. Plantation will be carried out around the water reservoir during the lease period once the mineral get exhausted. ➤ The tree density considered as 1500 saplings /ha.	

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

Details of Plantation within & outside lease area

Year	No. of plant		Area		Survival %	No. of species planted
	Proposed	Actual	Proposed	Actual		
2001 - 02	--	210	--	North & SE side of the pit	2.73	60 %
2002- 03	1250	345	North side of the pit 0.5 Hects	North & SE side of the pit		
2003-04	1250	1525	North side of the pit 0.5 Hects	North & SE side of the pit	1.44	
2004-05	1250	1776	North side of the pit 0.5 Hects	North & Eastern side of the pit	1.53	
2005-06	1250	2309	South side of the pit 0.5 Hects	Eastern side of the pit	0.50	
2006- 07	1250	1714	North side of the pit	North side of the pit	0.50	
						Shatoot, Neem, Shesham, Karanj, Ukliptus, Kaner Mango, Karanj, Amrood, Neem, Sisham, Anar, Gulmohar, Kesia, Ber, Boganvalia. Mango, Karanj, Amrood, Neem, Sisham, Anar, Gulmohar, Kesia, Ber, Boganvalia Neem, Shishem, Karanj, Ashoka, Amaltas, Kachnar, Kaner, Awala, Bogenvalia. Guava, Jamun, Sitafal, Anwala, Karanj, Shesham, Neem, Kachnar, Kaner, Boganvalia, Dressina, Gudhal, Jetropa, Ashok pendula, Chandani, Tratra form, Kala saras, Achenia, Lalten

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

2007-08	1250	1862	North side of Tar road	East side of the pit	0.50		Mango, Anwala, Kaner, Harstringar, Neem, Astrolophiya Jammun, Bans, Arjun, Bogan Vela, Vidya, Karnaj, Sahtoot, Polotoform, Amaltas, kachnar, Jetropha, Banana, Gulmohar, Ashoka, Keshiya, Harstringar
2008-09	1250	1625	North- East side of Pit	North- East side of Pit	0.50		Mango, Anwala, Kaner, Harstringar, Neem, Jammun, Bans, Arjun, Bogan Vela
							Vidhya, Karnaj, Sahtoot, Pulotoform, Amaltas, Kachnar, Jetropha, Banana, Gulmohar, Ashoka, Kasha
2009-10	1500	2465	North- East side of Pit	North & South- East side Pit	1.00	60 %	Neem, Shesham, Kachnar, Kala Charas, Bouganvalia, Kaner, Karanj, Ashapal, Jammun, Gunda Anwala, Amrud
2010-11	1750	1865	North of South Pit	North of South Pit	1.00	60 %	Neem, Alstronia, Kaner, Karanj, Keshia, Shesham, Bouganvalia, Jammun, Amaltas, Gunda, Kachnar, Gulmohar, Kikar, Ber
2011-12	1750	2405	North of South Pit	North of South Pit	1.50	60 %	Neem, Shesham, Kachnar, Gulmohar, Bouganvalia, Kaner, Astrolonia, Amaltas Pipal Bargad
2012-13	1750	2216	North of South Pit	South of South pit	0.50	60 %	Neem, Shesham, Kaner (Red), Kaner (Yellow), Mango, Anwala, Karanj, Bouganvalia, Gulmohar, Palm
2013-14	1750	2550	North of South Pit	South of South pit & East of north pit	0.80	60%	Neem, Shesham, Karanj, Astrolonia, Bouganvalia, Kaner, Kachnar, Gulmohar, Mango, Anwala, Kikar, Lemon, Anar

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

2014-15	1000	2325	In south side along nallah	In North side (Charlia garden & along nallah)	1.0	60%	Neem, Shesham, Karanj, Astrolonia, Bouganvalia, Silver Oak, Kaner, Kachnar, Gudal, Decorative plants, Mango, Anwala
2015-16	1000	1332	In south side along nallah	Near along nallah	1.00	63%	Neem, Shesham, Karanj, Astrolonia, Bouganvalia, Kaner, Kachnar, Gulmohar, Mango, Anwala, Kikar, Lemon, Anar, Ber, Gunda, chicku, Orange
2016-17	1000	1500	In south west side of lease along nallah	In south west side of lease along nallah	1.00	70%	Kasia, kala saras, Silver-oak, U Fobia, Ashoka
2017-18	1000	1550 Nos.	In south west side of lease along nallah	In south west side of lease along nallah	1.00	70%	Neem, Shesham, Astrolonia, Kachnar, Kaner (yellow), Kaner (red), Bouganvalia, Kesia, Karanj, Gulmohar, Ashapal
2018-19	1000	1495	In North West side of Lease	In West side of Lease	1.00	70%	Neem, Shesham, Astrolonia, Kachnar, Arjun, Maulsari, Cassia Siamia, Amaltas, Karanj, Gulmohar, Karonda, Palm, Kala Saras, Ashoka and other ornamental plants
2019-20	1000	1450 (upto 30 Sep. 2019)	Between ML 0-1 to ML 3 along west side of nallah	Between ML 0-1 to ML 3 along west side of nallah	1.00	90%	Neem, Shesham, , , Cassia Siamia, Amaltas, Karanj, Gulmohar, , Kala Saras, Ashoka pendula, Anwala, Guava, Sitafal and other ornamental plants
Total	23250	32519 (upto 30 Sep. 2019)			18.50 Hects.	62.22 %	Neem, Shesham, Casia -Siamia, Amaltas, Kachnar, Karanj, Siris (Kala Saras), Kaner (red), Ashok pendula, Bel-Patra, Arjun, Anwala, Custard apple, Bouganvalia

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

(xiv)	Effective safeguard measures, such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as around crushing and screening plant, loading and unloading point and all transfer points. Extensive water sprinkling shall be carried out on haul roads. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.	➤ Regular water sprinkling is done on the haul roads to prevent the dust becoming air borne during transportation movement of vehicles. ➤ The latest Ambient air and noise monitoring has been carried out by third party Mitra S.K. Private Limited which is NABL approved Laboratory dated 27.09.2019 is enclosed as Annexure-I.	
(xv)	The project authority should implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board.	➤ Surface rain water is collected in the lower most benches to augment Ground water resources. ➤ Anicut and siltation pond is constructed to augment water table.	
(xvi)	Regular monitoring of ground water level and quality shall be carried out in and around the mine lease by	➤ Ground water monitoring has been carried out by third party third party Mitra S.K. Private Limited which is NABL approved Laboratory dated 31.08.2019.	

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

establishing a network of existing wells and installing new piezometer during the mining operation. The periodic monitoring [(at least four times in a year - pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January); once in each season)] shall be carried out in consultation with the State Ground Water Board/Central Ground Water Authority and the data thus collected may be sent regularly to the Ministry of Environment and Forests and its Regional Office, Lucknow, the Central Ground Water Authority and the Regional Director, Central Ground Water Board. If at any stage, it is observed that the groundwater table is getting depleted due to the mining activity, necessary corrective measures shall be carried out.	➤ Last report (Monsoon season) of ground water level and quality was sent to MoEF&CC vide letter no. NBH/PC/14/C13/2739 on 10.09.2019. ➤ To augment the water resources, rain water harvesting is done and stored in lower most benches (Water reservoir).	
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COMPLIANCE REPORT OF CONDITIONS LAID DOWN IN ENVIRONMENT CLEARANCE OF KARUNDA MINE
(April 2019-September 2019) Dated 26.11.2019

(xvii)	Appropriate mitigative measures shall be taken to prevent pollution of the Murli dam in consultation with the State Pollution Control Board.	No working is carried out in submergence area of the dam and up to 15 mts. from the boundary of the catchment area and nallah connecting to Murli dam. There is no disturbance and obstruction due to Mining activity.	
(xviii)	The project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of ground water required for the project.	The NOC for abstract ground water from CGWA has been obtained vide letter no. 21-4 (286) WR / CGWA/2008-1676 dated 28 th Oct, 2015 to tune of 2263 m ³ /day. Renewal of ground water abstraction permission of 2300KLD for Mangrol Cement plant including Maliakhera & Karunda Limestone Mine has been applied and submitted on 16.10.2017.	
(xix)	Suitable rainwater harvesting measures on long term basis shall be planned and implemented in consultation with the Regional Director, Central Ground Water Board.	Agreed. Rain water is harvested during rainy season in the bottom most bench.	
(xx)	Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The mineral transportation shall be carried out through the	Tipplers engaged in the mines are regularly checked once in six months for vehicular emissions and are kept under permissible limits. The tipplers are not loaded above the rated capacity. Copy of PUC is enclosed as Annexure - II.	

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

	covered trucks only and the vehicles carrying the mineral shall not be overloaded.		
(xxi)	Controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.	Use of Sequential blasting machine (SBM), Delay detonator, Non-Electric detonator. Regular monitoring of Ground vibration is being practiced. Rock breaker is used to minimize secondary blasting.	
(xxii)	The project proponent shall take all mitigative measures during the mining operation to ensure that the buildings/structures in the nearby areas shall not be affected due to blasting.	Agreed. Controlled blasting is done by use of Sequential blasting machine (SBM), Delay detonator, Non-Electric detonator and use of air deck to reduce charge per hole and vibration. Vibration monitoring report is enclosed as Annexure - III .	
(xxiii)	Drills shall either be operated with dust extractors or equipped with water injection system.	Water injection system on Nakoda Indus drill has been provided which suppresses dust at its source of generation.	
(xxiv)	Mineral handling area shall be provided with the adequate number of high efficiency dust extraction system. Loading and unloading areas including all the transfer points should also have	Regular water spraying by deploying water tanker is done in the Mineral handling area.	

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

	efficient dust control arrangements. These should be properly maintained and operated.		
(xxv)	Sewage treatment plant shall be installed for the colony. ETP shall also be provided for the workshop and waste water generated during the mining operation.	There is no colony for Karunda mines however colony is developed under Nimbahera plant which has Sewage treatment Plant (500 KLD). No waste water is generated during mining operation.	
(xxvi)	Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly.	Regular initial medical examination and periodical medical examination is being carried out. During the year 2019-20 (upto 30th September 2019), 25 nos. of Initial and Nil- periodical medical examination were done.	
(xxvii))	Digital processing of the entire lease area using remote sensing technique should be done regularly once in three years for monitoring land use pattern and report submitted to MOEF and its Regional Office located at Lucknow.	Agreed. The report submitted of digital processing of the entire lease area on 29.03.2017 vide letter no. MGR/PC/14/052.	

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

(xxvii) i)	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	No construction labours are engaged in Mine.	
(xxix)	The critical parameters such as RSPM (Particulate matter with size less than 10 micron i.e. PM ₁₀) and 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	Agreed, These critical parameters are measured periodically during ambient air monitoring and monitoring report is enclosed as (Annexure -I). No waste water is generating during mining operation. Mines key parameter (monitored data) are being uploaded at company website on every quarter as per said notification, which can be seen at www.jkcement.com/environmental-compliance .	

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

	the website of the company as well as displayed on the display board at the project site at a suitable location near the main gate of the Company in public domain. The Circular No. J-20012/1/2006-IA.II(M) dated 27.05.2009 issued by Ministry of Environment and Forests, which is available on the website of the Ministry www.envfor.nic.in shall also be referred in this regard for its compliance.		
	(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 Review of Mining Plan.	
(ii)	No change in the calendar plan including excavation, quantum of mineral limestone and waste should be made.	Agreed. Mining will be done in accordance with Approved Review of Mining Plan.	

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

(iii)	Conservation measures for protection of flora and fauna in the core and buffer zone should be drawn up in consultation with the local forest and wildlife department and effectively implemented.	Agreed	
(iv)	Four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for RSPM (Particulate matter with size less than 10 micron i.e., PM ₁₀) and NO _x monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board.	Periodical Monitoring at four stations is already being done. Latest report of ambient air quality monitoring is enclosed as above Annexure -I.	
(v)	Data on ambient air quality RSPM (Particulate matter with size less than 10 micron i.e., PM ₁₀) & NO _x should be	Monitoring data of ambient air is regularly submitted in prescribed offices. Latest monitoring report as enclosed as Annexure -I.	

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

	regularly submitted to the Ministry of Environment and Forests including its Regional Office located at Lucknow and the State Pollution Control Board/Central Pollution Control Board once in six months.		
(vi)	Fugitive dust emissions from all the sources should 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.	
(vii)	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 above Annexure - I.	■
(viii)	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,	Agreed. No industrial waste water is generated from the Mine.	

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

	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.		
(ix)	Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. 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.	Persons engaged in drilling, dozing and loading have been provided with dust mask. VT is being provided as required under MVT rules 1966. Regular periodic check-up of workers is being carried out. Enclosed as Annexure -IV.	
(x)	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.	

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

(xi)	The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry of Environment and Forests and its Regional Office located at Lucknow.	A separate fund is kept for environment protection measures and report is being sent regularly to the concerned authority. Environment budget 2019-20 and expenditure 2018-19 detail is submitted vide letter no. NBH/PC/14/C13/953 dated 28.05.2019.
(xii)	The project authorities should be inform to the Regional Office located at Lucknow regarding data of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	Complied & Agreed
(xiii)	The Regional Office of this Ministry located at Lucknow shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by	We shall extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data/information/monitoring reports.

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

	furnishing the requisite data/information/monitoring reports.		
(xiv)	The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the Ministry of Environment and Forests, its Regional Office located at Lucknow, the respective Zonal Office of Central Pollution Control Board the State Pollution Control Board. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional office of the Ministry of Environment and Forests, Lucknow, the respective Zonal Office of Central	Agreed. Latest Six Monthly Monitoring report was submitted to MoEF&CC & RSPCB on 28.05.2019 vide letter no. NBH/PC-14/C13/953. The compliance report is uploaded at website.	

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

	Pollution Control Board and the State Pollution Control Board.		
(xv)	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad, Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	Complied.	
(xvi)	The State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industry Centre and the Collector's Office/Tehsildar's Office for 30 days.	Complied.	
(xvii)	The environmental statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control	Noted and being complied from time to time with, The Environment statement report for FY 2018-19 has been submitted to RSPCB, Jaipur vide letter no. NBH/PC/ESR/21/3048, Date: 25.09.2019.	

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

	Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the Regional Office of the Ministry of Environment and Forests, Lucknow by e-mail.	
(xviii)	The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at website of the Ministry of Environment and Forests at	Implemented & the necessary information already sent to the concerned authority.

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

	http://envfor.nic.in and a copy of the same should be forwarded to the Regional Office of this Ministry located at Lucknow.		
7.	The ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection	Noted.	
8.	Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environmental Protection Act, 1986.	Noted.	
9.	The above conditions will be enforced inter-alia, under the provisions of the water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and Public Liability Insurance	Noted.	

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

	Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme court of India/High Court of Rajasthan and any other Court of Law relating to the subject matter.	
10.	Any appeal against this environmental Clearance shall lie with the National Environmental Appellate Authority, if preferred within a period of 30 days as prescribed under section 11 of the National Environment Appellate Authority Act, 1997.	Noted.

J.K. Cement Works, NIMBAHERA (RAJ)

KARUNDA LIMESTONE MINE

SIX MONTHLY AMBIENT AIR QUALITY & NOISE MONITORING REPORT

1) AMBIENT AIR QUALITY SPM RESULTS : (ALL VALUES IN µg/M3)

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	49.5	32.8	13.0	23.4	750	57.8	45.3	14.1	25.0	813	352	14.8	23.6	784	350	15.1	23.9	727
May-19	50.2	33.8	13.7	24.0	698	57.0	45.0	14.7	25.8	796	356	15.8	24.3	784.0	355	15.9	24.9	784
Jun-19	51.5	33.9	14.8	24.9	733	58.0	46.0	15.7	26.3	790	359	16.0	24.9	767.0	363	15.1	24.4	779
Jul-19	38.9	25.2	7.6	21.0	389	41.0	30.9	10.4	24.4	458	320	14.5	21.0	739	306	12.8	23.4	538
Aug-19	31.4	22.3	7.6	19.8	401	38.0	26.9	9.8	22.8	412.0	310	12.7	19.3	727.0	328	11.1	21.2	469
Sep-19	32.8	23.8	9.4	22.0	401	40.1	28.4	11.7	24.1	458.0	386	15.6	23.7	590.0	357	13.8	23.3	485
AVERAGE	42.4	28.6	11.0	22.5	562	48.7	37.1	12.7	24.7	621.2	347	14.9	22.8	731.8	343	14.0	23.5	630.3

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	Day Time	Night Time	Day Time	Night Time
Apr-19	66.9	57.1	68.7	58.4				
May-19	67.5	57.6	68.2	58.8				
Jun-19	67.4	57.6	68.5	58.9				
Jul-19	66.8	56.9	67.7	57.6				
Aug-19	67.2	57.4	68.3	58.2				
Sep-19	68.6	56.9	69.8	59.5				

Annexure - I

Mitra S.K. Private Limited

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TEST REPORT

Name & Address of the Customer :

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

Report No. : MSK/UDR/2019-20/1040

Date : 27.09.2019

Sample No. : MSKGL/ED/2019-20/09/00627

Sample Description : Ambient Air

Sampling Location : Near Mine Office (Karunda Mine)

Date of Sampling : 21/22.09.2019

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	48	IS: 5182:(Part-23)-2006
2	Particulate matter(PM _{2.5}) in $\mu\text{g}/\text{m}^3$	60	32	TPM/MSK/ENV (AP) /01/03
3	Sulphur dioxide(SO ₂) in $\mu\text{g}/\text{m}^3$	80	9.4	IS: 5182 (Part-2)-2001
4	Nitrogen dioxide (NO ₂) in $\mu\text{g}/\text{m}^3$	80	26.5	IS: 5182 (Part- 6)-2006
5	Carbon monoxide(CO) in mg/m^3	2	0.68	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, Nimbahera
Distt. Chittorgarh (Raj.)

Report No. : MSK/UDR/2019-20/1041

Date : 27.09.2019

Sample No. : MSKGL/ED/2019-20/09/00628

Sample Description : Ambient Air

Sampling Location : Near Ravana Office (Karunda Mine)

Date of Sampling : 21/22.09.2019

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	47	IS: 5182:(Part-23)-2006
2	Particulate matter(PM _{2.5}) in $\mu\text{g}/\text{m}^3$	60	28	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	28.4	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

Authorized Signatory

Mitra S.K. Private Limited

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TEST REPORT

Name & Address of the Customer :

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

Report No. : MSK/UDR/2019-20/1042

Date : 27.09.2019

Sample No. : MSKGL/ED/2019-20/09/00629

Sample Description : Ambient Air

Sampling Location : Charlia gadia Village (Karunda Mine)

Date of Sampling : 21/22.09.2019

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	51	IS: 5182:(Part-23)-2006
2	Particulate matter (PM _{2.5}) in $\mu\text{g}/\text{m}^3$	60	35	TPM/MSK/ENV (AP) /01/03
3	Sulphur dioxide (SO ₂) in $\mu\text{g}/\text{m}^3$	80	9	IS: 5182 (Part-2)-2001
4	Nitrogen dioxide (NO ₂) in $\mu\text{g}/\text{m}^3$	80	24.0	IS: 5182 (Part- 6)-2006
5	Carbon monoxide(CO) in mg/m^3	2	0.40	IS 5182 :(Part-10) :1999

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

Report Prepared By



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TEST REPORT

Name & Address of the Customer :

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

Report No. : MSK/UDR/2019-20/1043

Date : 27.09.2019

Sample No. : MSKGL/ED/2019-20/09/00630

Sample Description : Ambient Air

Sampling Location : Karunda Village (Karunda Mine)

Date of Sampling : 21/22.09.2019

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	57	IS: 5182:(Part-23)-2006
2	Particulate matter(PM _{2.5}) in µg/m ³	60	39	TPM/MSK/ENV (AP) /01/03
3	Sulphur dioxide(SO ₂) in µg/m ³	80	11.9	IS: 5182 (Part-2)-2001
4	Nitrogen dioxide (NO ₂) in µg/m ³	80	27.8	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, Nimbahera
Distt. Chittorgarh (Raj.)

Report No. : MSK/UDR/2019-20/1062

Date : 27.09.2019

Sample No. : MSKGL/ED/2019-20/09/00663

Sample Description : Fugitive Air

Sampling Location : 3-10 Meter Distance from Drilling

Operation (Karunda Mine)

Date of Sampling : 21.09.2019

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 $\mu\text{g}/\text{m}^3$	308	IS 5182 (Part-4) - 1999
2	Sulphur dioxide(SO ₂) in $\mu\text{g}/\text{m}^3$	9.8	IS: 5182 (Part-2)-2001
3	Nitrogen dioxide (NO _x) in $\mu\text{g}/\text{m}^3$	33.2	IS: 5182 (Part- 6)-2006
4	Carbon monoxide(CO) in mg/m^3	0.78	IS 5182 :(Part-10) :1999

Report Prepared By



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TEST REPORT

Name & Address of the Customer :

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

Report No. : MSK/UDR/2019-20/1063

Date : 27.09.2019

Sample No. : MSKGL/ED/2019-20/09/00664

Sample Description : Fugitive Air

Sampling Location : Near Loading Point (Karunda Mine)

Date of Sampling : 21.09.2019

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 $\mu\text{g}/\text{m}^3$	328	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 $\mu\text{g}/\text{m}^3$	32.2	IS: 5182 (Part- 6)-2006
4	Carbon monoxide(CO) in mg/m^3	0.56	IS 5182 :(Part-10) :1999

Report Prepared By



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TEST REPORT

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

Report No. : MSK/UDR/2019-20/1071
Date : 27.09.2019
Sample No. : MSKGL/ED/2019-20/09/00647 & 00648
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.	21/22.09.2019	Near Mine Office (Karunda Mine)	58.4	46.6
2.		Near Ravana Office (Karunda Mine)	54.3	43.79
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

Authorised Signatory

Mitra S. K. Private Limited



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TEST REPORT

Name & Address of the Customer :
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Distt. Chittorgarh (Raj.)

Report No. : MSK/UDR/2019-20/301
Date : 17.06.2019
Sample No. : MSKGL/ED/2019-20/05/02175 & 02176
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.	06/07.05.2019	Near Mine Office (Karunda Mine)	59.2	47.5
2.		Near Ravana Office (Karunda Mine)	57.1	45.9
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

Authorised Signatory

Mitra S. K. Private Limited



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TEST REPORT

Name & Address of the Customer :

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

Report No. : MSK/UDR/2019-20/254

Date : 06.06.2019

Sample No. : MSKGL/ED/2019-20/05/01465

Sample Description : Ambient Air

Sampling Location : Near Mine Office (Karunda Mine)

Date of Sampling : 06/07.05.2019

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	74	IS: 5182:(Part-23)-2006
2	Particulate matter(PM _{2.5}) in $\mu\text{g}/\text{m}^3$	60	40	TPM/MSK/ENV (AP) /01/03
3	Sulphur dioxide(SO ₂) in $\mu\text{g}/\text{m}^3$	80	6.4	IS: 5182 (Part-2)-2001
4	Nitrogen dioxide (NO ₂) in $\mu\text{g}/\text{m}^3$	80	23.7	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

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, Nimbahera
Distt. Chittorgarh (Raj.)

Report No. : MSK/UDR/2019-20/255

Date : 06.06.2019

Sample No. : MSKGL/ED/2019-20/05/01466

Sample Description : Ambient Air

Sampling Location : Near Ravana Office (Karunda Mine)

Date of Sampling : 06/07.05.2019

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	70	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	7.5	IS: 5182 (Part-2)-2001
4	Nitrogen dioxide (NO ₂) in $\mu\text{g}/\text{m}^3$	80	30.2	IS: 5182 (Part- 6)-2006
5	Carbon monoxide(CO) in mg/m^3	2	0.57	IS 5182 :(Part-10) :1999

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

Report Prepared By

For Mitra S. K. Pvt. Ltd.

Authorized Signatory

Mitra S. K. Private Limited



Shrachi Centre (5th Floor)
74B, Acharya Jagadish Chandra Bose Road
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CIN : U51909WB1956PTC023037

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TEST REPORT

Name & Address of the Customer :

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

Report No. : MSK/UDR/2019-20/256

Date : 06.06.2019

Sample No. : MSKGL/ED/2019-20/05/01467

Sample Description : Ambient Air

Sampling Location : Charlia gadia Village (Karunda Mine)

Date of Sampling : 06/07.05.2019

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 µg/m ³	100	61	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	6.2	IS: 5182 (Part-2)-2001
4	Nitrogen dioxide (NO ₂) in µg/m ³	80	23.5	IS: 5182 (Part- 6)-2006
5	Carbon monoxide(CO) in mg/m ³	2	0.37	IS 5182 :(Part-10) :1999

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

Report Prepared By



Mitra S. K. Private Limited



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

T : 91 33 40143000 / 22650006 / 22650007
F : 91 33 22650008
E : info@mitrask.com
W : www.mitrask.com

TEST REPORT

Name & Address of the Customer :

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

Report No. : MSK/UDR/2019-20/257

Date : 06.06.2019

Sample No. : MSKGL/ED/2019-20/05/01468

Sample Description : Ambient Air

Sampling Location : Karunda Village (Karunda Mine)

Date of Sampling : 06/07.05.2019

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	60	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	7.3	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	0.26	IS 5182 :(Part-10) :1999

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

Report Prepared By

For Mitra S.K. Pvt. Ltd.

Authorized Signatory



Mitra S. K. Private Limited



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TEST REPORT

Name & Address of the Customer :

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

Report No. : MSK/UDR/2019-20/243

Date : 06.06.2019

Sample No. : MSKGL/ED/2019-20/05/01512

Sample Description : Fugitive Air

Sampling Location : Near Loading Point (Karunda Mine)

Date of Sampling : 06.05.2019

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 $\mu\text{g}/\text{m}^3$	401	IS 5182 (Part-4) - 1999
2	Sulphur dioxide(SO ₂) in $\mu\text{g}/\text{m}^3$	11.7	IS: 5182 (Part-2)-2001
3	Nitrogen dioxide (NO _x) in $\mu\text{g}/\text{m}^3$	30.5	IS: 5182 (Part- 6)-2006
4	Carbon monoxide(CO) in mg/m^3	0.48	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, Nimbahera
Distt. Chittorgarh (Raj.)

Report No. : MSK/UDR/2019-20/242

Date : 06.06.2019

Sample No. : MSKGL/ED/2019-20/05/01511

Sample Description : Fugitive Air

Sampling Location : 3-10 Meter Distance from Drilling

Operation (Karunda Mine)

Date of Sampling : 06.05.2019

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 $\mu\text{g}/\text{m}^3$	463	IS 5182 (Part-4) - 1999
2	Sulphur dioxide(SO ₂) in $\mu\text{g}/\text{m}^3$	9.5	IS: 5182 (Part-2)-2001
3	Nitrogen dioxide (NO _x) in $\mu\text{g}/\text{m}^3$	31.7	IS: 5182 (Part- 6)-2006
4	Carbon monoxide(CO) in mg/m^3	0.73	IS 5182 :(Part-10) :1999

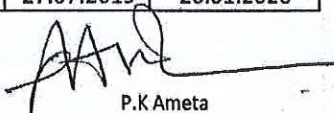
Report Prepared By



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

Date:- 27.07.2019

Sr.No.	TYPE OF MACHINE	Tipper Model No.	MACHINE NO.	PUC LIMIT	NO.OF READING	Mean HSU%	DATE OF TESTING	VALID UP TO
1	TIPPER	TATA LPK2518	RJ09GB2807	<65%	3	32.8	27.07.2019	26.01.2020
2	TIPPER	TATA LPK2518	RJ09GB2809	<65%	3	36.8	27.07.2019	26.01.2020
3	TIPPER	TATA LPK2518	RJ09GB2810	<65%	3	35.8	27.07.2019	26.01.2020
4	TIPPER	TATA LPK2518	RJ09GB2811	<65%	3	37.8	27.07.2019	26.01.2020
5	TIPPER	TATA LPK2518	RJ09GA9437	<65%	3	32.8	27.07.2019	26.01.2020
6	TIPPER	TATA LPK2518	RJ09GA9438	<65%	3	38.8	27.07.2019	26.01.2020
7	TIPPER	TATA LPK2518	RJ09GA9440	<65%	3	30.8	27.07.2019	26.01.2020
8	TIPPER	TATA LPK2518	RJ09GA9441	<65%	3	25.8	27.07.2019	26.01.2020
9	TIPPER	TATA LPK2518	RJ09GA9443	<65%	3	27.8	27.07.2019	26.01.2020
10	TIPPER	TATA LPK3118	RJ09GA9449	<65%	3	29.7	27.07.2019	26.01.2020
11	TIPPER	TATA LPK3118	RJ09GA9450	<65%	3	38.8	27.07.2019	26.01.2020
12	TIPPER	TATA LPK2518	RJ09GB0523	<65%	3	20.7	27.07.2019	26.01.2020
13	TIPPER	TATA LPK2518	RJ09GB0524	<65%	3	20.8	27.07.2019	26.01.2020
14	TIPPER	TATA LPK2518	RJ09GB0526	<65%	3	24.8	27.07.2019	26.01.2020
15	TIPPER	TATA LPK2518	RJ09GB0529	<65%	3	30.8	27.07.2019	26.01.2020
16	TIPPER	TATA LPK2518	RJ09GB0534	<65%	3	37.8	27.07.2019	26.01.2020
17	TIPPER	TATA LPK2518	RJ09GB2566	<65%	3	21.8	27.07.2019	26.01.2020
18	TIPPER	TATA LPK2518	RJ09GB2574	<65%	3	24.8	27.07.2019	26.01.2020
19	TIPPER	TATA LPK3118	RJ09GA9178	<65%	3	21.8	27.07.2019	26.01.2020
20	TIPPER	TATA LPK3118	RJ09GA9186	<65%	3	20.8	27.07.2019	26.01.2020
21	TIPPER	TATA LPK3118	RJ09GB9881	<65%	3	22.8	27.07.2019	26.01.2020
22	TIPPER	TATA LPK3118	RJ09GB9882	<65%	3	28.7	27.07.2019	26.01.2020
23	TIPPER	TATA LPK3118	RJ09GB9883	<65%	3	34.8	27.07.2019	26.01.2020
24	TIPPER	TATA LPK3118	RJ09GB9884	<65%	3	23.8	27.07.2019	26.01.2020
25	TIPPER	TATA LPK3118	RJ09GB9885	<65%	3	34.8	27.07.2019	26.01.2020
26	TIPPER	TATA LPK3718	RJ09GC1983	<65%	3	34.8	27.07.2019	26.01.2020
27	TIPPER	TATA LPK3718	RJ09GC1984	<65%	3	35.8	27.07.2019	26.01.2020
28	TIPPER	TATA LPK3718	RJ09GC1988	<65%	3	39.8	27.07.2019	26.01.2020
29	TIPPER	TATA LPK3718	RJ09GC1989	<65%	3	28.7	27.07.2019	26.01.2020
30	TIPPER	TATA LPK3718	RJ09GC1991	<65%	3	27.8	27.07.2019	26.01.2020


P.K Ameta
Dy.General Manager (Mines)

KARUNDA LIMESTONE MINES

Blast Vibration Summary List

APRIL-2019 TO SEPTEMBER-2019

Sr. No.	Date	Location of Blasting		Vibration measured from blasting face (Distance in Mtrs.)	No. of Holes	Charge/Delay (Kg.)	P.P.V. (mm/sec.)	Accessories used in blasting
		Bench	B.Id.					
1	06.04.2019	III-W,S-Pit	11-1	300M Back side of blast face	11	30.944	2.44	DTH & TLD
2	20.04.2019	II-E,N-Pit	16-3	300M Back side of blast face	12	33.468	1.86	DTH & TLD
3	03.05.2019	II-N,N-Pit	16-6	300M Back side of blast face	14	28.696	2.16	DTH & TLD
4	19.05.2019	IV-W,S-Pit	10-4	300M Back side of blast face	18	34.833	2.1	DTH & TLD
5	04.06.2019	III-N,N-Pit	14-12	300M in the line of initiation.	18	31.297	2.68	DTH & TLD
6	14.06.2019	II-E,S-Pit	8-6	300M Back side of blast face	14	28.696	1.35	DTH & TLD
7	29.06.2019	I-W,S-Pit	7-1	300M Back side of blast face	16	31.375	2.95	DTH & TLD
8	07.07.2019	II-W,N-Pit	14-15	300M Back side of blast face	21	25	1.95	DTH & TLD
9	21.07.2019	III-W,S-Pit	12-23	300M line of initiation from blast face	18	30.68	1.13	DTH & TLD
10	25.07.2019	II-N,N-Pit	17-4	300M Back side of blast face	20	30	2.21	DTH & TLD
11	04.08.2019	I-W,S-Pit	10-7	300M Back side of blast face	11	29.54	1.78	DTH & TLD
12	17.08.2019	I-SW,S-Pit	8-15	300M west side of blast face	9	27.777	2.3	DTH & TLD
13	22.08.2019	I-SW,S-Pit	8-18	300M west side of blast face	14	28.57	3.41	DTH & TLD
14	01.09.2019	I-W,S-Pit	8-20	300M west side of blast face	16	32.81	3.25	DTH & TLD
15	02.09.2019	I-W,N-Pit	12-24	300M west side of blast face	24	31.25	1.9	DTH & TLD


Rajesh Joshi
Dy. Manager (Mines)


P K Ameta
D.G. M. (Mines)

**LIST OF PERSON MEDICALLY EXAMINED
KARUNDA LIMESTONE MINE
(FROM APRIL TO SEPTEMBER 2019)**

S. No.	Name	Designation Offered	Type of Medical Examination
1	Puran Singh	Blaster	IME
2	Heera Lal GayriDhanora	Dozer Operator	IME
3	Prakash Bairagi	Drill Operator	IME
4	Kalu ram Dangi	Shovel Operator	IME
5	Kuldeep Singh Shekhawat	Shovel Operator	IME
6	Hajari Lal Jat	Shovel Operator	IME
7	Amar Das	Shovel Operator	IME
8	Chunni Lal	Shovel Operator	IME
9	Aamir Anwar	Welder-M&M	IME
10	Sanjay Teli	Blasting Helper	IME
11	Bhagat Meghwal	Blasting Helper	IME
12	Pushkar Vaishnav	Blasting Helper	IME
13	Inderlal Gayari	Blasting Helper	IME
14	Prakash Dangi	Drill helper	IME
15	Madan Dangi	Drill helper	IME
16	Vikram Kumar Suthar	Mechanic-Helper	IME
17	Sunil Kumar Sen	Fitter-Helper-M&M	IME
18	Mahendra Sharma	Mechanic-Helper	IME
19	Dashrath Menariya	Mechanic-Helper	IME
20	Suresh Kumar Sahu	Mechanic-Helper	IME
21	Faisal Khan (Ist)	Auto Electrician	IME
22	Rajendra Singh Chouhan	Helper-M&M	IME
23	Firoj Khan Mewati	Helper	IME
24	Badri Lal Sharma	Helper	IME
25	Bhavin Mehta	Helper Oil Room	IME


Dr. S. K. CHAUDHARY
 C.M.O.
 I.K.C.W. NIMBAHERA (RAJ)
 Reg. No. 21732