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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/C12/ 4099

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 Maliakhera Limestone Mine.

Ref.: EC letter no. - J-11015/429/2008-IA.II (M) dated. 06th August 2010 & amended dated 21.02.2018 and 15.05.2018.

Dear Sir,

With reference to above stated Environment Clearance (EC) accorded for our Malikahera 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. roc.z.lko-mef@nic.in, moef@nic.in, m_env@rediffmail.com, ccb.cpcb@nic.in, member-secretary@rpcb.nic.in, cpcb.bhopal@gmail.com for your kind reference and record please. We trust you will find the same in order.

Thanking you,

Yours Faithfully
For J.K. Cement Works, 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.**

11015/429/2008-IA.II (M) dated 06.08.2010

Period: Apr-19 to Sept-19

**For
Expansion of Maliakhera Limestone Mine Production
Project: Limestone 2.2 MMTPA to 3.2 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 for expansion of Limestone -2.2MMTPA-3.2MMTPA vide letter no -J-11015/429/2008-IA.II (M) dated 06.08.2010
- Consent to Establish has been obtained under Air & Water Act for the expansion in production capacity of 3.2 MTPA vide letter no. F (Mines)/Chittorgarh(Nimbahera)/516(1)/2010-2011/6703-6707 dated 27/01/2011.
- Amendment in Environmental Clearance issued for installation of crusher of 1500TPH with Rubber belt Conveyer (OLBC's) having production capacity of Limestone -3.2MMTPA from MOEF, New Delhi Letter No. J-11015/429/2008-IA.II (M) dated 15.05.2018.
- Consent to operate has been obtained under Air & Water act for upgraded production capacity 3.2000 MMTPA vide letter no. F (Mines)/Chittorgarh (Nimbahera)/1869(1)/2017-2018/ 2131 - 2135 dated. 20.06.2017 valid till 31/05/2022.

COMPLIANCE REPORT OF CONDITIONS LAID DOWN IN ENVIRONMENT CLEARANCE OF MALIAKHERA 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 3.2 MMTPA vide letter no. F(Mines)/Chittorgarh (Nimbahera)/516(1)/2010-2011 / 6703-6707 dated 27/01/2011. Renewal of Consent to Operate has been obtained under Air & Water act for upgraded production capacity-Limestone-3.2000 MMTPA vide letter no. F(Mines)/Chittorgarh (Nimbahera)/1869(1)/2017-2018/ 2131 - 2135 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 and undisputed.	
(iii)	The environmental clearance is subject to approval of the State Land use Department, Government of Rajasthan for diversion of agricultural land for non-agricultural use.	The lease was granted in the year 25.07.1984 in favour of J. K. Cement Works. Mining lease was initially executed on 13.12.1984 and it was renewed (First renewal) from 13.12.2004. Private agricultural land is purchased and it is applied for diversion for non-agricultural use. It is used for mining after getting consent of diversion for non-agriculture use from state revenue department.	

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(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 executed on 13.12.1984. At the time of First renewal of Mine lease, the Department of Mines and Geology corrected the error of Mining lease area by reducing from 320 Ha. to 315.409 Ha. through digital demarcation having 77 Ha. grazing land. The First renewal of Mine lease deed was registered on 06.08.2014. 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 13.12.1984. 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 Ground Water Authority shall be obtained, for which a detailed hydro-geological study shall be carried out.	We are in consensus with the same and have obtained permission for mining below water table vide letter no. 21-4(286)/WR/CGWA/2008-813 dated. 17.05.2016 valid till October 2018 from CGWA, New Delhi. . The proposed working will go up to 54 mts. based on present exploration which may likely to intersect Ground water table for which we have got permission for working below it. (Source: <i>Approved Modified mining plan PMCP dated 29.11.2018</i>)	
(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	No natural water course and / or water resources is obstructed due to any mining operation.	

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	during the course of 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 topsoil shall be used for land reclamation 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-sustaining. Compliance status should be submitted to the Ministry of Environment & Forests and its Regional Office, Lucknow on six monthly basis.	No overburden waste generated. The generated sub grade mineral stacked from 2012-13 to 31.03.2019 is 1346790.981 tonnes and not suitable for cement manufacturing. Hence it is stacked at earmarked site occupying an area of 6.542Ha. Presently mineral has been stacked near boundary pillar E' between ML 19 to ML22-23 attaining a height of 10m. The subgrade dumps will not be used for any purpose and will use if new technology comes in near future to use sub grade mineral. Latest Six Monthly Monitoring report sent to RO, MoEF&CC Lucknow as well as RSPCB on 28.05.2019 vide letter no. NBH/PC/14/C12/952.
(x)	The void left unfilled in the entire excavated area of 208.76ha 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 215.902Ha. (Source: Approved Modified Mining Plan with PMCP on dated 29.11.2018) will be converted into water reservoir. The higher benches of excavated void/mining pit will be terraced and plantation done to stabilize the slopes. The slope of higher benches will be made gentler for easy accessibility by local people to use the water body. Peripheral fencing will be carried out all along the excavated area during the lease period as and when

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(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 Murlia dam, seasonal nallah and other water bodies. The water so collected should be utilized 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	required. Catch drains to collect water for the working pit and siltation ponds are in place details are as follows: <table><tr><th>Location</th><th>Drain size</th><th>Sump volume</th></tr><tr><td>Working pit</td><td>1x1</td><td>Bench 4- 1258583 Cu.m. Bench 5- 168476 Cu.m. (Water collection in sump depends on rainfall)</td></tr></table> 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.	Location	Drain size	Sump volume	Working pit	1x1	Bench 4- 1258583 Cu.m. Bench 5- 168476 Cu.m. (Water collection in sump depends on rainfall)	
Location	Drain size	Sump volume							
Working pit	1x1	Bench 4- 1258583 Cu.m. Bench 5- 168476 Cu.m. (Water collection in sump depends on rainfall)							

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	garland drains and desilted at regular intervals.		
(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.	Since there is no generation of waste dump. Only 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 19.64ha 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 1990-1991 up to 30.10.2019 for an area of 20.49 Ha. (All along the periphery of lease area and all along the roads) (15.84 Ha. Within lease area and 4.65 Ha. outside the lease area) having total no. of plants 39,414 with survival rate of 58.87% in addition to green belt of 19.40 ha. area. ➤ There is no reclaimed area and no waste dump within the mining lease. However, plantation will be carried out from the water reservoir during the lease period once the mineral get exhausted. ➤ The tree density considered as 1500-2000 saplings /ha.	

PLANTATION DONE AT MALIAKHERA LIMESTONE MINE WITHIN LEASE AREA						
Year	Total no. of plants	General & ornamental plants		Fruit plants		Survival %
		Species	Nos.	Species	Nos.	
1990 - 91	30	Palash	10	Mango	20	1.23 (upto 31.03.2004) 56%
1991 - 92	45	Nilgiri	24	Mango	21	
1992 - 93	0	--	0	--	0	
1993 - 94	38	Neem, Shesham, Babool	12	Guava	26	
1994 - 95	0	--	0	--	0	

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1995 - 96	50	Neem, Shesham,	50	--	0		
1996 - 97	103	Neem, Shesham, Karanj	78	Guava, Kikar	25		
1997 - 98	600	Neem, Shesham, Karanj	432	Mango, Guava	168		
1998 - 99	125	Neem, Shesham	30	Mango, Guava	95		
1999- 2000	605	Khejara, Babool, Khakra, Adusa, Besharmi, Ankh	605	--	0		
2000- 2001	207	Shesham, Neem, Karanj	157	Guava, Mango, Chiku, Anar, Sitafal, Jamun, Anwala	50		
2001- 2002	180	Neem, Shesham, Boganvaia, Kaner, Amaltas	170	Guava, Mango, Shatoot, Lemon, Papaya	10		
2002- 2003	350	Neem, Karanj, Shesham	350	--	--		
2003- 2004	1141	Amaltas, Kachnar, Neem, Shesham, Karanj	1041	Jamun, Guava	100		
		Decorative and flower plants (362 Nos.)					
2004- 2005	603	Boganvalia, vidya, Champa, Gudhal, Hazara, Red flowering jetropa	523	Jamun, Lemon, Mango	80	0.22	
2005- 2006	897	Shesham, Karanj, Neem, Boganvalia, Jetropa, Bottle bush, Ashoka, Arjun, Alifa, Gudhal	807	Jamun, Sitafal, Anwala	90	0.213	
2006- 2007	663	Neem, Shesham, Plutoform, Kalacharas, Amaltas, Karanj, Boganvalia, Ashoka, Durenta, Archenia, Gudhal	438	Sitafal, Jamun	225	0.287	
2007- 2008	931	Sheesham, Kaner, Neem, Ratanjot, Kachnar, Karanj, Plutoform	831	Shahtoot	100	0.5	

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2008- 2009	1605	Karanj, Neem, Kaner, Amaltas, Kachnar, Plutoforma, Sheesham, Ashapal, Bans, Kesia, Arjun	1345	Anwala, Jamun, Sitaphal, Mango	260	0.54	
2009-2010	2068	Neem,Astrolonia, Bouganvalia,Gudhal, Kaner,Amaltas, Harsingar, Pipal, Banyan Tree,	1966	Kathal, Guava, Jamun,	102	1.58	
2010-2011	2139	Neem, Astrlonia, Bouganvalia, Gudal, Kaner,Kesiya, Karanj, Amaltas, Shisham, Gilmohar	1944	Grafted Ber, Gunda, Jamun, Keekar	195	1.22	
2011-2012	2171	Neem,Gulmohar,Kachnar, Kaner,Amaltash,Astrolonia	2171	NIL	NIL	1.78	
2012- 2013	2147	Neem, Shesham, Karanj, Gulmohar, Kaner, Palm, Kachnar, Bouganvalia	2135	Anwala,	12	0.50	
2013- 2014	1976	Neem, Bouganvalia, Kaner, Karanj, Kachnar, Bottle bush, Amaltas	1684	Lemon, Anwala, Jamun, Mango, Guava, Anar, Sitafal	292	1.50	
2014- 2015	2471	Neem, Kaner (yellow), Karanj, Ashok pendulum, Bouganvalia, Amaltas, Kachnar, Kaner (red), Red rubina, Poltafarm, Pipal, Shesham, Gudal,	2347	Mango, Guava, Lemon	124	0.77	60%
2015-16	1505	Neem, Kaner (yellow), Karanj, Bouganvalia, Amaltas, Kachnar, Kaner (red), Pipal, Shesham.	1380	Mango, Jamun	125	0.6	60%
2016 - 17	1655	Neem, Shesham, Kaner (red), Kaner (yellow), Karanj, Morpankhi and flowering plant	1475	Jamun, Anwala, Amrood, Nimbu	180	1.20	70%
2017 - 18	1325	Neem, Shesham, Kachnar, Kaner (yellow), Kaner (red), Bouganvalia, Ashoka, Cassia saimia, Karanj, and other ornamental plants	1200	Anwala, Guava, Nimbu, Jamun, Mango	125	1.50	75%

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2018-19	1255	Neem, Shesham, Kachnar, Kaner (yellow), Kaner (red), Bouganvalia, Ashoka, and other ornamental plants	1135	Guava, Nimbu, Jamun, Mango	120	1.00	70 %
2019 - 20 (Up to 30 th Sept. 2019)	1425	Neem, Shesham, Casia, Karanj, Amaltas, Kachnar, Kala Saras, Gulmohar, Ashok pendula, China rose, Kaner (Red), Kaner (yellow)	1325	Custard Apple, Anwala	100	1.20	90%
Total	28,310 (Up to 30 th Sept. 2019)		25,665		2,645	15.84	60.53%

PLANTATION DONE OUTSIDE MALIAKHERA LEASE AREA

Year	No. of Plants	General & ornamental plants		Fruit plants		Area covered in Ha.	Survival%
		Species	Nos.	Species	Nos.		
1990 - 91	38	Neem, Palash	28	Mango	10		
1991 - 92	58	Nilgiri, Shesham	46	Mango, Guava	12		
1992 - 93	197	Shesham, Karanj, Saru, Khejri	186	Guava	11		
1993 - 94	184	Neem, Shesham, Babool	174	Guava, Mango	10		
1994 - 95	150	Neem, Shesham, Karanj, Saru, Palash	125	Kikar, Mango	25		
1995 - 96	250	Neem, Shesham,	250	--	0		
1996 - 97	760	Neem, Shesham, Karanj	735	Guava, Kikar	25		
1997 - 98	313	Neem, Shesham	293	Mango, Guava	20		
1998 - 99	608	Neem, Shesham, Karanj	590	Mango, Guava	18		
1999 - 2000	948	Khejara, Babool, Khakra, Adusa, Besharmi, Ankh, Shesham, Karanj, Kaner, Neem, Hazara, Caster	948	--	--		
						4.65	54.59%

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2000 - 01	810	Karanj, Kaner, Neem, Hazara, Shesham	709	Guava, Mango, Sitafal, Lemon, Anwala, Shetoot, Anar, Orange.	101	
2001 - 2002	750	Neem, Shesham, Boganvaia, Kaner, Amaltas	625	Guava, Mango, Lemon	125	
2002 - 2003	907	Neem, Shesham, Karanj, Kaner	693	Anwala, Shetoot, Jamun	214	
2003 - 2004	617	Sagwan, Amaltas, Kachnar, Neem, Shesham, Karanj	290	Mango, Lemon, Orange, Jamun	327	
2004 - 2005	857	Kaner, Neem, Karanj, Kachnar	648	Anwala, Mango, Lemon	209	
2005 - 2006	1043	Neem, Shesham, Karanj, Amaltas, Kalacharas, Gulmohar, Kachnar, Ashapal, Alifa, Bouganvalia, Gudhal, Kaner, Bottle bush, Jetropa, Arjun, Oshdiya plants	891	Jamun, Chiku, Anwala, Sitafal	152	
2006 - 2007	1218	Neem, Shesham, Kachnar, Kalacharas, Amaltas, Karanj, Bouganvalia, Jetropa, Ashoka, Durenta, Chandni	943	Sitafal, Guava, Anwala	275	56%
2007 - 2008	681	Sheesham, Kaner, Neem, Ratanjot, Kachnar, Karanj, Plutoform	598	Mango, Anwala, Guava	83	55%
2008 - 2009	295	Jetropa, Neem, Kaner, Ratanjot, Karanj	295	--	Nil	Existing area 57%
2009 - 2010	228	Astrolonia, Neem,	228	--	Nil	Existing area 56%
2010 - 2011	35	Bouganvalia	35	--	Nil	Existing area 58%
2011 - 2012	NIL	NIL	NIL	NIL	NIL	--
2012 - 13	NIL	NIL	NIL	NIL	NIL	--
2013 - 14	137	Neem, Karanj	137	NIL	NIL	Existing area 56%
2014 - 15	NIL	NIL	NIL	NIL	NIL	--
2015 - 16	NIL	NIL	NIL	NIL	NIL	--

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	2016 - 17	NIL	NIL	NIL	NIL	NIL	NIL	NIL	--	
	2017 - 18	NIL	NIL	NIL	NIL	NIL	NIL	NIL	--	
	2018-19	20	Neem, Shesahm	20	NIL	NIL	NIL	NIL	70%	
	2019 - 20 (Up to 30 th Sept. 2019)	NIL	NIL	NIL	NIL	NIL	NIL	NIL	--	
	Total	11104		9487		1617	4.65	54.62%		
(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 of vehicles. The latest Ambient air monitoring carried out by Mitra S.K. Pvt. Ltd. which is NABL approved Laboratory dated 26.03.2019 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 table. ➤ Anicut is constructed in the North side of the pit to augment water table.						

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(xvi)	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 installing new piezometers 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.	➤ The report on ground water level and quality for Monsoon season (August'2019) was sent vide letter no. NBH/PC/14/C12/2738 on 10.09.2019. ➤ To augment the water resources, rain water harvesting is done and stored in lower most benches (Water reservoir)	
(xvii)	Appropriate mitigative measures shall be taken to prevent pollution of the Murlia 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 Murlia 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	We have obtained NOC for drawl of groundwater from CGWA vide letter no. 21-4(286) WR/CGWA/2008-1676 dtd. 28.10.2015 valid till October 2018 from CGWA, New Delhi.	

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	project.	The renewal of ground water clearance is applied vide letter no MGR/PC/23/2562 dated 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 covered trucks only and the vehicles carrying the mineral shall not be overloaded.	Tipper engaged in the Mines are regularly checked once in six months for vehicular emissions and are kept under permissible limits. The tipper is not loaded above the rated capacity. Copy of PUC is enclosed as Annexure II .	
(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 Wagon drill has been provided which suppresses dust at its source of generation.	

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(April 2019- September 2019) Dated 26.11.2019**

(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 efficient dust control arrangements. These should be properly maintained and operated.	Regular water spraying by deploying water tanker is done in the Mineral handling area.	
(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 Maliakhara mines however colony is developed under Nimbahera plant and Mines which has Sewage treatment Plant (500KLD). 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 30 Sept.2019), 46 nos. of initial and 0 nos. of 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, We have submitted report of digital processing of the entire lease area on 29.03.2017 vide letter no. NBH/PC-14/056.	
(xxviii)	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel	No construction labourers are engaged in Mine.	

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

	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.		
(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 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.	Agreed, These critical parameters are measured periodically during ambient air monitoring and for monitoring report please refer Annexure - I . No waste water is generating during mining operation.	
	(B) GENERAL CONDITIONS		
(i)	No change in mining technology and scope of working should be made without prior approval of	Agreed. Mining will be done in accordance with Approved Modified Mining Plan.	

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

	the Ministry of Environment and Forests.		
(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 Modified Mining Plan.	
(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. For Ambient air quality monitoring report please refer 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 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.	Monitoring data is regularly submitted in prescribed offices. For Monitoring report please refer Annexure - I .	

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

(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. For Noise monitoring report please refer 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, 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. Periodical analysis of Mine pit water reveals that there is no presence of any kind of toxic substance.	
(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	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. Medical check summary report is enclosed as Annexure - IV.	

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

	and take corrective measures, if needed.		
(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.	
(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 are submitted vide letter no. NBH/PC/14/C12/952 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.	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 furnishing the requisite data/information/monitoring reports.	We shall extend full cooperation to the officer (s) of the Regional Office by 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	Agreed. Six monthly reports is being submit concern offices as given in previous clearance letter. Latest Six Monthly Monitoring report sent to RO, MoEF&CC Lucknow as well as	

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

	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 Pollution Control Board and the State Pollution Control Board.	RSPCB on 28.05.2019 vide letter no. NBH/PC/14/C12/952. The compliance report is uploaded at website.	
(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	Complied.	

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

	Office/Tehsildar's Office for 30 days.		
(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 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.	Noted and being compiled from time to time with, The Environment statement report for FY 2018-19 has been submitted to vide letter no. NBH-PC-ESR 21/3047, Date: 25.09.2019.	
(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 http://envfor.nic.in and a copy of the same should be forwarded to the Regional Office of this Ministry located at Lucknow.	Implemented & the necessary information already sent to the concerned authority.	
EC Amended letter no. J-11015/429/2008-IA.II (M) ,Dated 15th May, 2018.			
8.	The Ministry of Environment, Forest and Climate	Complied, Consent to operate has been granted from	

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

	Change has examined the proposal in accordance with the provision of clause 7 (ii) of Environmental Impact Assessment Notification, 2006 and hereby amended the Environmental Clearance of M/s J.K.Cement Works, dated 06.08.2010 w.r.t. Installation of Crusher of 1500 TPH along with Overland Rubber Belt Conveyers System (OLBCs) under clause 7(ii) of the EIA Notification, 2006 of Limestone Mine having production capacity of 3.2 Million TPA, located at Village - Maliakhera, Tehsil - Nimbahera, District - Chittorgarh Rajasthan in MLA of 315.409 ha.	RSPCB, Jaipur vide file No. F (SCMG)/Chittorgarh (Nimbahera)/14(1)/2018-2019/2064-2066, Order No. 2019-2020/SCMG/4682, Dated 30/08/2019.	
9.	All other Specific and General conditions mentioned in this Ministry's EC letter no. J-11015/429/2008-IA.II (M) dated 06.08.2010 shall remain the same.	Noted and being compiled from time to time.	

SIX MONTHLY AMBIENT AIR QUALITY & NOISE MONITORING REPORT

1) AMBIENT AIR QUALITY SPM RESULTS : (ALL VALUES IN $\mu\text{g}/\text{M}^3$) Sample duration: 24 hourly sample, (monthly average basis)

Month	Near Mine Office					Near Ravana Office					3 to10 Meter Distance From Drilling Operation				Near loading point			
	PM10	PM2.5	SO ₂	Nox	CO	PM10	PM2.5	SO ₂	Nox	CO	SPM	SO ₂	Nox	CO	SPM	SO ₂	Nox	CO
Apr-19	51.0	38.2	13.2	23.6	813	67.1	51.7	15.0	25.9	733	380	14.9	24.2	796	380	13.2	25.0	727
May-19	51.7	38.9	13.9	24.4	716	70.5	52.6	15.6	27.1	796	377	16.0	25.0	761	386	13.9	25.6	750
Jun-19	53.4	39.5	15.1	25.5	739	70.7	52.9	15.5	26.9	761	386	16.3	25.6	761	383	15.6	25.3	744
Jul-19	33.9	25.2	7.1	16.0	452	50.2	32.2	9.0	23.3	504	370	14.1	27.0	578	301	9.5	20.7	475
Aug-19	29.5	19.5	6.4	13.4	378	43.7	29.4	8.8	19.7	475	350	12.2	24.7	573	280	8.3	18.3	361
Sep-19	33.6	25.5	8.3	15.9	521	44.5	30.4	9.9	22.2	538	370	14.9	23.1	601	358	13.7	23.8	524
AVERAGE	42.2	31.1	10.7	19.8	603	57.8	41.5	12.3	24.2	635	372	14.7	24.9	678	348	12.4	23.1	597

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

Month	Near Mine Office		Near Ravana Office	
	NOISE LEVEL db(A)			
	Day Time	Night Time	Day Time	Night Time
Apr-19	67.6	57.8	69.5	59.2
May-19	67.2	57.8	68.8	58.9
Jun-19	66.2	57.2	67.9	58.8
Jul-19	65.7	56.8	66.5	57.9
Aug-19	66.5	57.2	67.9	58.3
Sep-19	67.9	58.5	68.5	59.7

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/2019-20/1054

Date : 27.09.2019

Sample No. : MSKGL/ED/2019-20/09/00641

Sample Description : Ambient Air

Sampling Location : Near Mine Office (Milakhhera Mine)

Date of Sampling : 19/20.09.2019

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	44	IS: 5182:(Part-23)-2006
2	Particulate matter(PM _{2.5}) in $\mu\text{g}/\text{m}^3$	60	26	TPM/MSK/ENV (AP) /01/03
3	Sulphur dioxide(SO ₂) in $\mu\text{g}/\text{m}^3$	80	8.8	IS: 5182 (Part-2)-2001
4	Nitrogen dioxide (NO ₂) in $\mu\text{g}/\text{m}^3$	80	25.6	IS: 5182 (Part- 6)-2006
5	Carbon monoxide(CO) in mg/m^3	2	0.64	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/2019-20/1055

Date : 27.09.2019

Sample No. : MSKGL/ED/2019-20/09/00642

Sample Description : Ambient Air

Sampling Location : Near Ravana Office (Maliakhera Mine)

Date of Sampling : 19/20.09.2019

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	52	IS: 5182:(Part-23)-2006
2	Particulate matter(PM _{2.5}) in µg/m ³	60	36	TPM/MSK/ENV (AP) /01/03
3	Sulphur dioxide(SO ₂) in µg/m ³	80	9.6	IS: 5182 (Part-2)-2001
4	Nitrogen dioxide (NO ₂) in µg/m ³	80	29.2	IS: 5182 (Part- 6)-2006
5	Carbon monoxide(CO) in mg/m ³	2	0.54	IS 5182 :(Part-10) :1999

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

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TEST REPORT

Name & Address of the Customer :

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

Report No. : MSK/UDR/2019-20/1056

Date : 27.09.2019

Sample No. : MSKGL/ED/2019-20/09/00643

Sample Description : Ambient Air

Sampling Location : Maliakhara Village (Maliakhara Mine)

Date of Sampling : 19/20.09.2019

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	29	TPM/MSK/ENV (AP) /01/03
3	Sulphur dioxide(SO ₂) in $\mu\text{g}/\text{m}^3$	80	7.6	IS: 5182 (Part-2)-2001
4	Nitrogen dioxide (NO ₂) in $\mu\text{g}/\text{m}^3$	80	24.2	IS: 5182 (Part- 6)-2006
5	Carbon monoxide(CO) in mg/m^3	2	0.33	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/2019-20/1057

Date : 27.09.2019

Sample No. : MSKGL/ED/2019-20/09/00644

Sample Description : Ambient Air

Sampling Location : Pipliya gadia Village (Maliakhara
Mine)

Date of Sampling : 19/20.09.2019

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	40	IS: 5182:(Part-23)-2006
2	Particulate matter(PM _{2.5}) in $\mu\text{g}/\text{m}^3$	60	23	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	0.38	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/2019-20/1064

Date : 27.09.2019

Sample No. : MSKGL/ED/2019-20/09/00665

Sample Description : Fugitive Air

Sampling Location : 3-10 Meter Distance from Drilling

Operation (Milakhera Mine)

Date of Sampling : 19.09.2019

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 $\mu\text{g}/\text{m}^3$	285	IS 5182 (Part-4) - 1999
2	Sulphur dioxide(SO ₂) in $\mu\text{g}/\text{m}^3$	8.2	IS: 5182 (Part-2)-2001
3	Nitrogen dioxide (NO _x) in $\mu\text{g}/\text{m}^3$	29.4	IS: 5182 (Part-6)-2006
4	Carbon monoxide(CO) in mg/m^3	0.68	IS 5182 :(Part-10) :1999

Report Prepared By

For Mitra S. K. Pvt. Ltd.



Mitra S.K. Private Limited

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TEST REPORT

Name & Address of the Customer :

J.K.Cement Works, Nimbahera
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Report No. : MSK/UDR/2019-20/1065

Date : 27.09.2019

Sample No. : MSKGL/ED/2019-20/09/00666

Sample Description : Fugitive Air

Sampling Location : Near Loading Point (Maliakhera Mine)

Date of Sampling : 19.09.2019

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 $\mu\text{g}/\text{m}^3$	315	IS 5182 (Part-4) - 1999
2	Sulphur dioxide(SO ₂) in $\mu\text{g}/\text{m}^3$	10.2	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	0.64	IS 5182 :(Part-10) :1999

Report Prepared By

For Mitra S.K. Pvt. Ltd.



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TEST REPORT

Name & Address of the Customer :

J.K.Cement Works, Nimbahera

Distt. Chittorgarh (Raj.)

Report No. : MSK/UDR/2019-20/1074

Date : 27.09.2019

Sample No. : MSKGL/ED/2019-20/09/00655 & 00656

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.	19/20.09.2019	Near Mine Office (Maliakhera Mine)	57.6	45.8
2.		Near Ravana Office (Maliakhera Mine)	52.5	43.4
Limit As per CPCB (Environment Protection Rules, 1986)		in Industrial Area Leq dB(A)	75	70

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/2019-20/302
Date : 17.06.2019
Sample No. : MSKGL/ED/2019-20/05/02177 & 02178
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.	07/08.05.2019	Near Mine Office (Maliakhera Mine)	55.9	46.7
2.		Near Ravana Office (Maliakhera Mine)	53.1	45.0
Limit As per CPCB (Environment Protection Rules, 1986)		in Industrial Area Leq dB(A)	75	70

Report Prepared by :

For Mitra S.K. Private Limited



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TEST REPORT

Name & Address of the Customer :

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

Report No. : MSK/UDR/2019-20/268

Date : 06.06.2019

Sample No. : MSKGL/ED/2019-20/05/01479

Sample Description : Ambient Air

Sampling Location : Near Mine Office (Milakhera Mine)

Date of Sampling : 07/08.05.2019

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	75	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	6.7	IS: 5182 (Part-2)-2001
4	Nitrogen dioxide (NO ₂) in $\mu\text{g}/\text{m}^3$	80	22.8	IS: 5182 (Part- 6)-2006
5	Carbon monoxide(CO) in mg/m^3	2	0.52	IS 5182 :(Part-10) :1999

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


Report Prepared By

For Mitra S. K. Pvt. Ltd.



Shirachi 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/2019-20/269

Date : 06.06.2019

Sample No. : MSKGL/ED/2019-20/05/01480

Sample Description : Ambient Air

Sampling Location : Near Ravana Office (Maliakhera Mine)

Date of Sampling : 07/08.05.2019

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

ANALYSIS RESULT

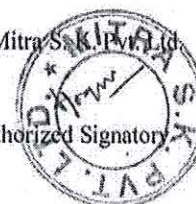
SL. NO.	Pollutants	Limit	Result	Method of Test Reference
1	Particulate matter (PM ₁₀) in $\mu\text{g}/\text{m}^3$	100	77	IS: 5182:(Part-23)-2006
2	Particulate matter(PM _{2.5}) in $\mu\text{g}/\text{m}^3$	60	46	TPM/MSK/ENV (AP) /01/03
3	Sulphur dioxide(SO ₂) in $\mu\text{g}/\text{m}^3$	80	7.3	IS: 5182 (Part-2)-2001
4	Nitrogen dioxide (NO ₂) in $\mu\text{g}/\text{m}^3$	80	27.4	IS: 5182 (Part- 6)-2006
5	Carbon monoxide(CO) in mg/m^3	2	0.45	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. Private Ltd.

Authorized Signatory



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W : www.mitrask.com

TEST REPORT

Name & Address of the Customer :

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

Report No. : MSK/UDR/2019-20/270

Date : 06.06.2019

Sample No. : MSKGL/ED/2019-20/05/01481

Sample Description : Ambient Air

Sampling Location : Maliakhara Village (Maliakhara Mine)

Date of Sampling : 07/08.05.2019

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	60	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	6.6	IS: 5182 (Part-2)-2001
4	Nitrogen dioxide (NO ₂) in µg/m ³	80	25.7	IS: 5182 (Part- 6)-2006
5	Carbon monoxide(CO) in mg/m ³	2	0.37	IS 5182 :(Part-10) :1999

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

Report Prepared By

For Mitra S. K. Pvt. Ltd.



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TEST REPORT

Name & Address of the Customer :

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

Report No. : MSK/UDR/2019-20/271

Date : 06.06.2019

Sample No. : MSKGL/ED/2019-20/05/01482

Sample Description : Ambient Air

Sampling Location : Pipliya gadia Village (Maliakhara
Mine)

Date of Sampling : 07/08.05.2019

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	63	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	7.4	IS: 5182 (Part-2)-2001
4	Nitrogen dioxide (NO ₂) in $\mu\text{g}/\text{m}^3$	80	30.6	IS: 5182 (Part- 6)-2006
5	Carbon monoxide(CO) in mg/m^3	2	0.28	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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Kolkata - 700 016, West Bengal, India
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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, Nimbahera
Distt. Chittorgarh (Raj.)

Report No. : MSK/UDR/2019-20/244

Date : 06.06.2019

Sample No. : MSKGL/ED/2019-20/05/01513

Sample Description : Fugitive Air

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

Date of Sampling : 07.05.2019

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 $\mu\text{g}/\text{m}^3$	480	IS 5182 (Part-4) - 1999
2	Sulphur dioxide (SO ₂) in $\mu\text{g}/\text{m}^3$	8.9	IS: 5182 (Part-2)-2001
3	Nitrogen dioxide (NO _x) in $\mu\text{g}/\text{m}^3$	28.7	IS: 5182 (Part- 6)-2006
4	Carbon monoxide(CO) in mg/m^3	0.74	IS 5182 :(Part-10) :1999

Report Prepared By

For Mitra S.K. Pvt. Ltd.



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W : www.mitrask.com

TEST REPORT

Name & Address of the Customer :

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

Report No. : MSK/UDR/2019-20/245

Date : 06.06.2019

Sample No. : MSKGL/ED/2019-20/05/01514

Sample Description : Fugitive Air

Sampling Location : Near Loading Point (Maliakhara
Mine)

Date of Sampling : 07.05.2019

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 $\mu\text{g}/\text{m}^3$	383	IS 5182 (Part-4) - 1999
2	Sulphur dioxide(SO ₂) in $\mu\text{g}/\text{m}^3$	12.5	IS: 5182 (Part-2)-2001
3	Nitrogen dioxide (NO _x) in $\mu\text{g}/\text{m}^3$	37.3	IS: 5182 (Part- 6)-2006
4	Carbon monoxide(CO) in mg/m^3	0.53	IS 5182 :(Part-10):1999

Report Prepared By

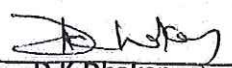
For Mitra S. K. Pvt. Ltd.

Authorized Signatory



MALIAKHERA LIMESTONE MINE
J.K.CEMENT WORKS, NIMBAHERA(Raj.)
DEAILS OF TIPPER PUCC

S.NO	Registration No.	VALIDITY	MFd. Year	Make	Modal	No. Of Reading	HSU %
1	RJ27GB-5814	21.01.2020	2013	LEYLEND	2516	6	40.7
2	RJ27GB5800	20.01.2020	2013	LEYLEND	2516	6	40.7
3	RJ27GC6553	19.01.2020	2018	MAN	3128	6	38.7
4	RJ27GC6554	19.01.2020	2018	MAN	3128	6	38.7
5	RJ27GC6555	19.01.2020	2018	MAN	3128	6	38.7
6	RJ27GC5917	18.01.2020	2018	LEYLEND	3718	6	40.7
7	RJ27GC5918	18.01.2020	2018	LEYLEND	3718	6	40.7
8	RJ27GC5919	20.01.2020	2018	LEYLEND	3718	6	40.7
9	RJ27GC5921	18.01.2020	2018	LEYLEND	3718	6	40.7
10	RJ27GC5920	18.01.2020	2018	LEYLEND	3718	6	40.7
11	RJ27GC3284	21.01.2020	2016	LEYLEND	2518	6	39.7
12	RJ27GC3283	21.01.2020	2016	LEYLEND	2518	6	39.7
13	RJ27GB5796	20.01.2020	2013	LEYLEND	2513	6	40.7
14	RJ27GB5815	20.01.2020	2013	LEYLEND	2513	6	40.7
15	RJ27GC3280	21.01.2020	2016	LEYLEND	2518	6	39.7
16	RJ27GC3282	21.01.2020	2016	LEYLEND	2518	6	39.7
17	RJ27GC3285	21.01.2020	2016	LEYLEND	2518	6	39.7
18	RJ27GB2023	21.01.2020	2012	LEYLEND	2518	6	38.7
19	RJ27GB5797	20.01.2020	2013	LEYLEND	2516	6	40.7
20	RJ27GB5799	20.01.2020	2013	LEYLEND	2516	6	40.7
21	RJ27GB5802	20.01.2020	2013	LEYLEND	2513	6	40.7
22	RJ27GC6552	20.01.2020	2018	MAN	3128	6	38.7
23	RJ27GB5813	20.01.2020	2013	LEYLEND	2513	6	40.7
24	RJ27GC6556	19.01.2020	2018	MAN	3128	6	38.7
25	RJ27GB-5814	20.01.2020	2013	LEYLEND	2516	6	40.7


D.K. Dhakar

7/11/2019
G.M.(Mines)

Maliakhera Limestone Mine
Blast Vibration report

From April-19 to Sept-19

Sr.No.	Date	PPV	Frequency
1	1/4/2019	2.71	51
2	4/4/2019	3.68	23
3	5/4/2019	3.25	51
4	7/4/2019	3.02	64
5	9/4/2019	1.97	85
6	12/4/2019	1.44	64
7	13/04/2019	1.51	85
8	13/04/2019	1.24	51
9	14/04/2019	3.13	57
10	14/04/2019	3.84	73
11	18/04/2019	1.29	51
12	19/04/2019	1.52	64
13	22/04/2019	1.51	72
14	30/04/2019	2.92	> 100
15	4/5/2019	2.56	64
16	5/5/2019	1.86	28
17	9/5/2019	1.72	85
18	20/05/2019	3.05	> 100
19	6/6/2019	3.87	> 100
20	15/06/2019	2.54	> 100
21	24/06/2019	2.6	> 100
22	11/7/2019	1.58	> 100
23	11/7/2019	1.4	> 100
24	12/7/2019	0.68	> 100
25	14/07/2019	3.43	57
26	14/07/2019	1.51	64
27	14/07/2019	1.46	73
28	15/07/2019	1.71	51
29	16/07/2019	3.18	85
30	16/07/2019	1.48	85
31	19/07/2019	2.37	73
32	21/07/2019	2.43	> 100
33	25/07/2019	3.35	57
34	26/07/2019	2.73	> 100
35	29/07/2019	2.84	57
36	13/08/2019	1.5	85
37	25/08/2019	3.94	85
38	25/08/2019	3.37	> 100


D K Dhakar
G.M. (Mines)

MEDICAL OF MALIYAKHERA MINES-(2019-2020)

MEDICAL REPORT -2019(INITIAL)					
S.No.	Name of Operator	DESIG.	LOCATION	B.FORM	MEDICAL DATE(DONE)
1	Sh.Suresh Bharti	Dumper Driver	MKM	25	JUNE
2	Sh. Devlal	Dumper Driver	MKM	23	JUNE
3	Sh. Ashok Kotwal	Dumper Driver	MKM	22	JUNE
4	Sh. Bhagwat Singh	Dumper Driver	MKM	32	JUNE
5	Shanti Lal Dangi	Dumper Driver	MKM	26	JULY
6	Man Singh Rajput	Dumper Driver	MKM	27	JULY
7	Vikram Ahir	Dumper Driver	MKM	33	JULY
8	Narayan Singh Solanki	Dumper Driver	MKM	28	JULY
9	Shambhu Lal Meghwal	Dumper Driver	MKM	34	JULY
10	Bhnwar Singh	Dumper Driver	MKM	36	JUNE
11	BHARU LAL MEGHWAL	Dumper Driver	MKM	38	JUNE
12	Dilip Ahir	Dumper Driver	MKM	21	JULY
13	Ghanshyam Ahir	Dumper Driver	MKM	24	JULY
14	Sh. Shival Ahir	Shovel Operator	MKM	11	JUNE
15	Prem Chand Ahir	Shovel Operator	MKM	13	JULY
16	Pappu Lal Ahir	Shovel Operator	MKM	14	JULY
17	Sh. Bhagtram	Dozer operator	MKM	19	JULY
18	Gopal Ahir-I	Dozer operator	MKM	20	JULY
19	Sh. Alladin	Driller	MKM	16	JUNE
20	Gopal das	driller	MKM	15	AUG.
21	Shyam Lal Ahir	helper	MKM	18	AUG.
22	Gopal Ahir-ii	helper	MKM	17	AUG.
23	Sakib Ali	Blaster	MKM	49	JUNE
24	Suresh Banjara	Blasting Helper	MKM	52	AUG.
25	Ramesh Chand Ahir	Blasting Helper	MKM	50	AUG.
26	Gehari Lal	Blasting Helper	MKM	51	SEP
27	Sh.Rahul Soni	Fitter /Mechanic	MKM	39	JULY
28	Sh. Satish Meghwal	Fitter /Mechanic	MKM	42	JULY
29	Sh. Arjun Banwar	Fitter /Mechanic	MKM	41	JULY
30	Sh. Bheemraj Joshi	Fitter /Mechanic	MKM	40	JULY
31	Vikram Kumar Suthar	machnic helper	MKM	46	AUG.
32	Mahendra sharma	machnic helper	MKM	47	AUG.
33	Md Nazim Ansari	Fitter-M&M	MKM	43	AUG.
34	Raju Bairagi	Welder-M&M	MKM	48	SEP
35	Madan Lal Dhaker	Fitter-M&M	MKM	44	SEP
36	Kuldeep Singh Shaktawat	Helper-M&M	MKM	45	AUG.
37	Kamlesh Das Baragi	Dumper Driver	MKM	29	OCT.
38	AJIT SINGH	Dumper Driver	MKM	35	OCT.
39	HEMRAJ MEWARA	Dumper Driver	MKM	30	OCT.
40	GOVARDHAN LAL AHIR	Dumper Driver	MKM	31	OCT.
41	JITENDRA SINGH CHUDAWAT	Dumper Driver	MKM	37	OCT.
42	Bhnwar Singh	Shovel Operator	MKM	54	OCT.
43	Govind Bhati	Shovel Operator	MKM	10	JULY
44	Jagdish Dangi	Shovel Operator	MKM	9	JULY
45	Nanu ram	Shovel Operator	MKM	12	JULY
46	Ramesh Dangi	jcb optr.	MKM	53	AUG.

Dhakar
D.K. Dhakar

S.R. Choudhary
DR. S.R. CHOUDHARY
CHIEF MEDICAL OFFICER
J.K. CEMENT WORKS, NIMBAHERA
Dr. S. K. CHAUDHARY
C.M.O.
J.K.C.W. NIMBAHERA (RAJ.)
Reg No. 21732