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.)

(Unit : J.K. Cement Ltd.)

CIN : L17229UP1994PLC017199

Date- 27-05-2015

No. JKCW/ENV. /E.C. (HALKI)/10/15

The Deputy Director Ministry of Environment & Forest Govt. of India, Paryavaran Bhavan Lodhi Road, New Delhi- 110 003

Sub: Half Yearly Environmental Clearance Compliance for the period from October-2014 to March-2015 for our Halki Lime stone mine

Ref: MoEF Letter No. J-11015/384/2006-1A.II (M) /dtd. 21st January 2008

Dear Sir,

With reference to your above cited environmental clearance letter of our Halki Lime Stone Mine. We are sending here with enclosed point wise compliance report for the period from **October-2014 to March-2015** for your kind information and record please.

Thanking you

Yours faithfully For Halki Lime Stone Mine

Sky

S.K. Jain Head (O & M)

Encl. – Compliance report, Socio-economic development report, half yearly ambient air quality monitoring, fugitive emission monitoring and water testing report

CC:

1- The Addl. Principal Chief Conservator of Forest (C), Ministry of Environment & Forest, Regional Office (South Zone), 4th floor, E&F Wings, Kendriya Sadan, 17th Main Road, IInd Block, Koramangala, Bangalore

2- Chairman, Central Pollution Control Board, Parivesh Bhavan, East Arjun Nagar, New Delhi

3- Scientist 'D' & Incharge, Central Pollution Control Board, 1st & 2nd Floors, Nisarga Bhavan , A-Block, Thimmaiah , Main Road, 7<sup>th</sup> D Cross, Shivanagar, Opp. Pushpanjali Theatre, Bengaluru – 560 010

4- Member Secretary, Karnataka Pollution Control Board, Church Street, Bangalore

5- The Environmental officer, Karnataka State Pollution Control Board, Sector no.07, by pass road, Navanagar, Bagalkot – 587102



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MoEF Letter No. J-11015/384/2006-1A.II(M) /dtd. 21st January 2008

## Half Yearly Compliance Report for the period from October-2014 to March-2015

Name of Mine: Halki Limestone Mine M/s J.K. Cement Limited

EC to Halki Limestone Mine (ML area 124.24 ha and 2.0 MTPA of limestone Production) of M/s J.K. cement Ltd., at village Halki, in Mudhol Taluk, Bagalkot, Distt. In Karnataka

**Specific Condition:** 

S.N.	CONDITION	Reply
A.	Specific Conditions	
i)	Land use pattern of nearby village shall be studied and action plan for abatement and compensation for damage to agriculture land /common property land as applicable due to mining activity shall be submitted to the Regional office of the Ministry within six month. Annual status of implementation of the plan and expenditure thereon shall be reported to the regional office of the ministry.	Complied, Land use pattern has been studied with EIA, which submitted to concerned authority. Limestone mining is being done systematically as per the IBM approved mining plan. Most sophisticated mining machineries are being deployed and highly safe methods of drilling & blasting techniques are being practiced. So, There is no damage of public building, common properties and agriculture land etc. due to mining activities.
ii)	Need based assessment for the nearby villages shall be conducted to study economic measures which can help in upliftment of poor section of society such as development of fodder farm, fruit orchard, vocational training etc. Year wise allocation of funds for implementation of these economic measures shall be reported to the regional office of the ministry within six months.	Complied, Need based assessment for the nearby villages have been conducted. CSR activities and budget for it have been submitted to MoEF. We are granting funds to the nearby villages for socio-economic development.  As per Annexure- 1
iii)	A no. of mining zone barrier of 50 m from the cannel passing through the lease areas on both sides shall be demarcated and the area shall be afforested with thick species of native vegetations.	Complied, A no. of mining zone barrier of 50 m from the cannel passing through the lease areas on both sides has been demarcated and the area is being afforested with thick species of native vegetations.
iv)	Recommendations of NEERI, Nagpur, as mentioned in their report on status of Environment –"Action plan " for the State of Karnataka, as be applicable to this project, shall be reported to the Regional office of the Ministry.	Not applicable
v)	Conservation plan for wild life shall be prepared in consultation of with the Chief wild life warden and shall be implemented within six months. Necessary allocation of fund for implementation of the same and the status of implementation of the plan shall be reported to the regional office of the Ministry.	Not Applicable
vi)	Measures for control and preventions of soil	Complied

MoEF Letter No. J-11015/384/2006-1A.II(M) /dtd. 21<sup>st</sup> January 2008

	procion and management of silt shall be prepared	Details have been Submitted with REIA
	erosion and management of silt shall be prepared and submitted to the Regional office of the	& EMP Report for Halki Mine
	ministry within six months	Limestone Mine.
vii)	Water quality both for surface as well as ground	Complying, Water quality is being
•,	water in the core zone shall be regularly	monitored regularly and no
	monitored for contamination due to mining	contamination has been observed.
	activity and records maintained. In case	Report has been enclosed.
	contamination is observed, measures for control	Troport mad accin emolecus.
	and action taken shall be reported to the State	
	Government as well as the Regional Office of the	
	Ministry within six months.	
viii)	Water bodies shall be developed and utilized to	Will be complied, There is no water
,	develop Pisciculture. Fishermen cooperative	body right now in and around the
	society shall be established with the land losers (if	project area so Pisciculture is not
	any) and specially the poorer section as members	possible.
	of society. Initial financial assistance either in the	·
	form of shared money or other wise and	
	managerial assistance shall be provided so that	
	the members themselves can run the affairs of	
	the society in due course. The project proponent	
	shall arrange marketing tie up so that the society	
	gets fair price of their produce and the profits are	
	equitably shared by the members of the society as	
	regular source of income.	
ix)	Action taken report on issues raised during the	Complied, it has been submitted.
	public hearing shall be submitted to the Ministry	
	and the State Governments within six months.	
x)	Occupational health and safety measures for the	Complying, Occupational health and
	workers including training on malaria eradication,	safety measures for the workers have
	HIV, health effects on exposure to mineral dust	been taken and different types of
	etc. shall be carried out. The company shall	training are given to workers and
	engage a full time doctor who is trained in	employees. The company has engaged
	occupational health surveillance .Records of the	a full time doctor who is trained in
	health of the workers shall be maintained.	occupational health surveillance. Records are being maintained.
xi)	Top soil/solid waste(if any ) shall be stacked	Complying
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	properly with proper slope and adequate safe	Top soil is being stacked properly with
	guards and shall back filled for reclamation and	proper slop.
	rehabilitation of the mined area	
xii)	Over burden if any shall be stacked at earmarked	Being Complied, The Over Burden/top
'	dump site(s) only and shall not be kept active for	soil is being scientifically stacked at
	long period. The maximum height of the dump	earmarked dump site and also being
	shall not be exceed 30m,each stage shall	used to construct the soil bunds and
	preferably be of 10m and overall slope of the	over it plantation has been done with
	dump shall not exceeded 28°. The OB dump shall	suitable native species to prevent
	be backfilled. The OB scientifically vegetated	erosion and surface run off. Slope of
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MoEF Letter No. J-11015/384/2006-1A.II(M) /dtd. 21<sup>st</sup> January 2008

	with suitable native species to prevent erosion	dump is as per mining scheme.
	and surface run off. Monitoring and management	Monitoring and management of
	of rehabilitated areas shall continue until the	plantation area are continuing. Six
	vegetation becomes self -sustaining. Compliance	monthly compliance reports are being
	status shall be submitted to the Ministry of	submitted to the Ministry of
	Environment Forests on six monthly bases.	Environment Forests.
xiii)	Garland drains shall be constructed to arrest silt	Complying, Garland drains have been
	and sediment flows from soil, and mineral dumps.	constructed to arrest silt and sediment
	The water so collected shall be utilised for	flows from soil, and mineral dumps.
	watering the mine areas, roads, green belt	The collected water in pit is being used
	development etc. The drains shall be regularly de-	for green belt development and Water spray on haul roads for controlling the
	silted particularly after monsoon and maintained	fugitive dust emission. Drains are
	properly. Garland drain of appropriate size,	regularly de-silted particularly after
	gradient and length shall be designed keeping	monsoon and maintained properly.
	50% safety margin over and above peak sudden	Garland drain has been designed with
	rain fall (based on 50 years data) and maximum	appropriate size. We have constructed
	discharge in the area adjoining the mine site.	soil bunds around the mined out area to
	Sump capacity will also provide adequate	arrest silt and sediments flows at the
	retention period to allow proper settling of silt	time of peak sudden rain fall. Irrigated
	materials. Sedimentation pits shall be constructed	canal is passing through lease area but
	at the corners of the garland drains and desilted at regular intervals. Check dams and gully checks	we have left an area of 50mt both sides
	shall be constructed across nallahs (if any) flowing	of canal and both sides covered with green belt.
	through the lease area.	green ben.
xiv)		As per mining scheme only, we are
xiv)	Slope of mining bench and ultimate pit limit shall	As per mining scheme only, we are maintaining bench slope and ultimate
xiv)		As per mining scheme only, we are maintaining bench slope and ultimate pit slope
xiv)	Slope of mining bench and ultimate pit limit shall be as per the mining scheme approved by Indian	maintaining bench slope and ultimate
	Slope of mining bench and ultimate pit limit shall be as per the mining scheme approved by Indian Bureau of mines.  Green Belt Development shall be carried out	maintaining bench slope and ultimate pit slope
	Slope of mining bench and ultimate pit limit shall be as per the mining scheme approved by Indian Bureau of mines.	maintaining bench slope and ultimate pit slope  Being done. We have received a
	Slope of mining bench and ultimate pit limit shall be as per the mining scheme approved by Indian Bureau of mines.  Green Belt Development shall be carried out considering CPCB guidelines including selection of	maintaining bench slope and ultimate pit slope  Being done. We have received a certificate from forest department via.
	Slope of mining bench and ultimate pit limit shall be as per the mining scheme approved by Indian Bureau of mines.  Green Belt Development shall be carried out considering CPCB guidelines including selection of plan species and in consultation with DFO. Herbs,	maintaining bench slope and ultimate pit slope  Being done. We have received a certificate from forest department via.  Letter no. B2.GFL/Mines/2007-08/597
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MoEF Letter No. J-11015/384/2006-1A.II(M) /dtd. 21<sup>st</sup> January 2008

		to the Ministry in EIA which is already					
xvii)	The project authority shall implement suitable	submitted.  Complying, Rain water harvesting					
XVII)	conservation measures to augment ground water	practices are being implemented in					
	resource in the areas in consultation with the	residential colony area and mines.					
	Regional Director, Central Ground water Board.	Status has been reported to regional					
	Status of implementation shall be reported to the	office of the Ministry.					
	regional office of the Ministry from time to time.						
xviii)	Prior permission from the competent authority	Complied					
	shall be obtained for extraction of ground water,						
xix)	if any.  Drilling and blasting (if any) shall be conducted by	Complying, Wet drilling is done.					
XIX)	using dust extractors/ wet drilling.	Complying, wet unlining is done.					
xx)	Vehicles used for transportation of ores and other	Complying, Vehicles used for					
,	mining operation shall have valid permission as	transportation of ores and other					
	prescribed under Central Motor Vehicles	mining operation have valid					
	rules,1989 and its amendments . Transporting of	permission. Only driving license					
	ores shall be done covered with a tarpaulin or	holders are permitted to drive trucks /					
	other suitable enclosures so that no dust particles	dumpers. The trucks are loaded with					
	/fine matters escape during the course of	in the safe. Transporting of ores is					
	transportations shall be under taken	being done covered with a tarpaulin.					
xxi)	transportations shall be under taken.  Village roads through which transportation of	Being Complied, company has construct					
AA1)	ores are being carried out shall be regularly	own road for some kilo meters.					
	maintained by the company at its own expenses.	own road for some knotheters.					
xxii)	A final mine closure plan, along with details of	Will be submitted before closure of					
	corpus funds, shall be submitted to the Ministry of	mines.					
	Environments &Forests within six months, in						
	advance of final mine closure for approval.						
В	General Condition:						
i)	No change in mining technology and scope of	Agreed					
	working shall be made without prior approval of Ministry of Environment& Forests.						
ii)	No change in calendar plan including excavation,	Agreed					
''',	quantum of mineral, limestone and waste shall be	Agreeu					
	made.						
iii)	Four Ambient Air Quality – monitoring station	Complied, Four Ambient Air Quality					
	shall be established in the core zone as well as in	monitoring stations have been					
	the buffer zone for RPM, SPM, SO2,NOX	established. Regular ambient air					
	monitoring . Location of the stations should be	monitoring is being carried out and					
	decided based on the metrological data,	reports are being sent to concerned					
	Topographical features and Environmentally and	deptt.					
	ecologically sensitive targets and frequency of						
	monitoring should be under taken in consultation with the State Pollution Control Board.						
iv)	Data on Ambient Air Quality (RSPM, SPM, $SO_2$ ,	Being Complied, Data on Ambient Air					
IV)	Data on Ambient All Quality (NSPIVI, SPIVI, SU <sub>2</sub> ,	being complied, Data on Ambient Alf					

MoEF Letter No. J-11015/384/2006-1A.II(M) /dtd. 21<sup>st</sup> January 2008

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	and NOx) should be regularly submitted to the Ministry including its Regional Office located at Bangalore and the State Pollution Control Board/Central Pollution Control Boards once in six months.	Quality (RSPM, SPM, SO <sub>2</sub> , NO <sub>x</sub> ) are being regularly submitted to the Ministry including its Regional Office located at Bangalore and the State Pollution Control Board/Central Pollution Control Boards once in six months. <b>As per Annexure-2</b>
v)	Fugitive dust emissions from all the sources shall be controlled regularly. Water spraying arrangements on haul roads, loading and unloading and at transfer points shall be provided and properly maintained.	Being Complied. Water is spraying on the haul roads, loading and unloading points by tanker.
vi)	Measures shall be taken for control of noise level below 85 dBA in the work environments. Workers engaged in operations of HEMM, etc shall be provided with ear plugs/ muffs.	Being complied, suitable measures have been taken for control the noise level. Ear plugs/ muffs have been provided. Noise level is well within the standard (85 dBA) in the work environment.
Vii)	Industrial waste water (Works shop and waste water from the mine should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December 1993 or as amended from time to time. Oil and Grease trap shall be instilled before discharge of effluents.	Not applicable, there is no work shop in mines area and no waste water is discharged from mines.
viii)	Personnel working in dusty areas shall be provided with protective respiratory devices and they shall also be imparted adequate training and information of Safety and Health aspects.	Complied, Personnel working in dusty areas have been provided with protective respiratory devices and training as well as information of Safety and Health aspects is given to them.
ix)	A separate Environmental Management cell with suitable qualified personnel shall be set up the control of Senior Executive, who will be report directly to the head of the organization.	Complied, A separate Environmental Management cell with suitable qualified personnel has been set up the control of Senior Executive, who is reporting directly to the head of the organization.
X)	The project authorities shall informed to the Regional Office of the Ministry located at Bangalore regarding date of financial closures and final approval of the project by the concern authorities and the date of start of land development work.	Complied
xi)	The funds earmarked for Environmental Protection measures shall be kept in separate	Complying

# Halki Limestone Mine, Village- Halki, Taluk- Mudhol, Distt.- Bagalkot, Karnataka MoEF Letter No. J-11015/384/2006-1A.II(M) /dtd. 21<sup>st</sup> January 2008 Half Yearly Compliance Report for the period from October-2014 to March-2015

	account and shall not be diverted for other purpose. Year wise expenditure shall be reported to the Ministry and its Regional office located at Bangalore.	
xii)	The project authorities shall informed to the Regional Office of the Ministry located at Bangalore regarding date of financial closures and final approval of the project by the concern authorities and the date of start of land development work.	Complied
xiii)	The Regional Office of the Ministry, Bangalore shall monitor compliance of the stipulated conditions. The project authorities shall extend full cooperation to the officer(s) of the Regional office by furnishing the requisite data/information/monitoring reports.	Agreed, we are giving full cooperation to the officer(s) of the Regional office by furnishing the requisite data/information / monitoring reports.
xiv)	A copy of clearance letter will be marked to concerned panchayat /local NGO, if any from whom suggestion /representation has been received while processing the proposal.	Complied
xv)	State Pollution Control Board shall display a copy of the clearance letter at the Regional Office, District Industry Centre and collector's office /Tehsildar's office for 30 days.	Complied
xvi)	The project authorities shall advertise at least in two local News papers widely circulated, one of which shall be in the vernacular languages of the localities concern within 7days of issue of the clearance letter informing that the project has been accorded Environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at web site of the Ministry of the Environment & Forests at http: www.envfor.nic.in and a copy of the same shall be forwarded to the Regional Office of the Ministry located at Bangalore.	Complied

We hope, you will find our reply in order.

Thanks with regards.

Yours faithfully For Halki Lime Stone Mine

(Head-O & M)

### Annexure-1

Social Development Expenses for the period from October 2014 to March, 2015

S.N.	Social Development Expenses for the period from October 2014 to March, 2015 FIXING OF CAMERA JUNCTION BOXSir Padampat Primary School Muddapur	5,217.38
1	FIXING OF CASING AND CAPINGSir Padampat Primary School Muddapur	24,853.50
2	LAYING OF DATA CABLE WITH CASING CAPINGSIr Padampat Primary School Muddapur	22,131.20
3	ST added to costSir Padampat Primary School Muddapur	6,452.00
4	Fooding Arrangement of Padayatra from Kamakeri toShree Kshetra Phandharpur Padayatra Committee Misc	3,001.00
5	Jute Bag Donate to Inner Wheel Club @ 150/-Per BagSpectrum Jute Bag Purchased Miscellenious	48,750.00
6	Mahasamaradhana Mahotsava Mudhol 08,09,10 Nov.2014Shree Satyapramodateertha Shreepadangalavar Samiti	100,000.00
7	TA REIMBURSEMENT 4100056207Sir Padampat Primary School Muddapur	2,162.00
8	Digital Camara Fixing at Lokapur Police Station	105,771.30
9	Sir Padampat Primary School Salary October 2014Sir Padampat Primary School Salary October 2014	100,000.00
10	Maruteshwar Murti Pratishthapana TimmapurHanamant Paraddi Social Development Misc.	10,000.00
11	Shri Muranal Siddeshwar Jatra Mahotsav MetaguddaShree Murnal Siddeshwar Devastan Seva Committee Mi	10,000.00
12	Construction of School Building for Tile FixingPrajapeeta Bramma Kumari Ishwariya Vishwa Vidyalay	8,000.00
13	Sponsorship for Ranna Wrestling Trophy 2014 MudholPresident Veer Savarkar Prathisthan Mudhol	50,000.00
14	19th National Road Cycling Championships JamkhandiKrishna Teer Raith Sangh Jamkhandi Miscellenious	200,000.00
15	RO SERVICE BILL AGST C-44 SCHOOL ADJUSTEDSir Padampat Primary School Muddapur	5,906.00
16	RO SERVICE BILL AGST C-47,C-48 SCHOOL ADJUSTEDSir Padampat Primary School Muddapur	3,545.00
17	Auditor observation settled	2,162.00
18	Vedant Parishat Anna Prasad VitranShri Nityanand Swamiji Adavi Siddeshwar Math Rugi	10,000.00
19	Construction of Shree Maruteshwar Temple MuddapurMaruteshwar Abhivrudhi Sanghtana Samiti Misc.	500,000.00
20	TA bill-Digital camera installation at LokapurDigital Camara Installation at Police Station	3,253.00
21	Celebration of Ranna Utsav 14-16 Feb.2015 Misc.Ranna Utsav Committee, Mudhol Misc.	100,000.00
22	Safety Day Competition 30.01.15, Hindalco Club, BGMChairman Karnataka State Safety Institute BLR	10,000.00
23	Sir Padampat Primary School Salary January 2015Sir Padampat Primary School Salary January 2015	100,000.00
24	Panch Kalyana Pooja 29.01.15 to 31.01.15 Shri 1008Adinath Teerthankar Jain Basadi & Kavi Chkravarthi	100,000.00
25	CEMENT SUPPLIED FOR BASAVESHWAR TEMPLE, NARAYANPUR	84,000.00
26	Medical expenses in civil department for health problemMr. Prabhu Colony Labour JKCW Muddapur	5,000.00
27	Chalukya Utsav 20 & 21 Feb.Badami 22 Feb. BagalkotPresident Chalukya Utsav Samiti Bagalkot Misc.	200,000.00
28	Celebration of Ranna Utsav 14-16 Feb.2015 Misc.Ranna Utsav Committee, Mudhol Misc.	100,000.00
29	Trade Fair at Jamkhandi 06 to 15 February 2015Commerce BHS Arts & TGP Science Collage Jamkhandi	10,000.00
30	Exibition expenses for Science Talant in School ExibitionSir Padampat Primary School Muddapur	5,000.00
31	Sir Padampat Primary School Salary February 2015Sir Padampat Primary School Salary February 2015	80,000.00
32	Sir Padampat Primary School Salary March 2015Sir Padampat Primary School Salary March 2015	100,000.00
33	Paid for Yamanureshwar Jatra, MuddapurMaruti Karennavar -Yamanureshwar Jatra Misc.	150,000.00
34	Durga Devi Jathra Mahotsav Petlur 21.03.2015Keshappa D. Lamani Durga Devi Jathra Petlur Misc.	11,000.00
35	Pandurang Rukmini Devasthan Jathra AnnaprasadKrishnagouda V. Patil Petlur 19.03.2015 Misc.	25,000.00
36	Shri Kashilingeshwar Fair 28.03.15 to 01.04.15M.M.Viraktamath, Kashilingeshwar Jathra, Venktapur	11,000.00
	Total	2,312,204.38

## HALKI LIMESTONE MINES, (KARNATAKA) (Unit: JK Cemet Ltd.) HALF YEARLY AAQM REPORT (SO<sub>2</sub>, NOx, PM 10, SPM) FOR THE MONTH OF OCTOBER-2014 TO MARCH-2015 (ALL VALUES IN MICROGRAMS / CUBIC METER)

			SO <sub>2</sub>			NOx			PM 10				SPM						
Month	Sl. No.	Date	Week			tions				tions				ations				tions	
	-	440 5011		A 0.2	B	C	D 7.5	A 12.0	B 12.0	C 11.7	D 14.2	A 70.7	B	C	D 52.0	A 160.5	B	C 154.4	D 171.0
О	2	4.10.2014	1st	8.3	8.5	8.5	7.5	12.0	13.0	11.7	14.2	70.7	56.5	58.8	53.9	168.5	154.8	154.4	171.9
С		8.10.2014		9.2	7.5	7.5	9.3	11.6	12.5	12.3	13.8	52.9	70.6	62.9	70.7	151.9	167.0	160.6	152.0
T	3	13.10.2014	2nd	7.6	9.5 8.7	8.2 7.3	8.8 7.3	12.3	12.0 12.7	12.7 11.0	12.8	64.0 71.4	61.6 55.5	73.2 62.1	62.7 59.2	174.5 153.6	150.8 159.9	159.6 150.9	164.6 154.7
0	5	16.10.2014 19.10.2014		8.2 8.8	8.7	8.5	8.0	13.7	12.7	12.0	13.0	65.1	61.2	62.1 51.9	68.0	153.6	163.5	172.9	154.7
B E	6	22.10.2014	3rd	9.8	7.3	7.3	8.6	11.0	11.5	13.5	14.6	85.7	64.0	68.5	57.1	173.3	152.0	159.3	153.0
R	7	27.10.2014		9.0	8.2	8.3	8.5	12.6	13.0	15.0	10.8	64.1	61.9	75.3	64.5	153.4	156.1	156.9	156.8
	8	30.10.2014	4th	7.0	9.0	7.5	8.0	16.0	11.5	10.5	10.5	55.2	58.9	77.8	69.6	154.1	160.8	171.8	168.5
		verage		8.5	8.4	7.9	8.3	12.9	12.5	12.3	12.9	66.2	61.3	66.3	63.2	164.5	158.1	160.8	160.4
N	1	4.11.2014	1-4	8.3	7.5	7.0	6.5	13.7	14.8	11.8	13.3	63.1	65.6	69.2	62.5	161.6	153.8	152.0	155.4
0	2	7.11.2014	1st	7.5	7.5	6.7	7.8	15.2	15.3	13.3	14.2	62.9	74.1	65.7	69.0	151.8	155.7	157.0	152.5
V E	3	11.11.2014	2nd	7.3	8.2	8.5	7.2	14.0	14.7	14.3	15.2	79.2	69.4	69.6	56.0	187.1	162.6	153.9	151.3
_	4	14.11.2014	2	7.5	7.0	7.5	7.5	15.3	16.3	13.5	16.0	61.7	65.0	58.9	62.5	163.6	176.3	155.6	160.8
M B	5	18.11.2014 21.11.2014	3rd	7.5 6.8	7.7 8.0	7.5 7.5	7.8 7.5	15.3 14.8	15.2 13.5	15.3 15.2	15.7 14.5	64.5 58.4	55.9 63.9	60.2 59.4	67.7 54.9	153.0 156.4	153.7 151.0	166.8 154.9	155.2 158.0
E	7	25.11.2014		7.3	7.5	6.8	7.5	13.7	13.5	15.2	16.0	63.9	70.7	63.4	52.2	155.7	160.5	150.9	153.3
R	8	28.11.2014	4th	7.0	7.5	8.0	6.0	13.5	15.5	15.0	15.0	57.8	66.8	57.3	73.2	157.4	155.0	151.3	168.5
		verage		7.4	7.6	7.4	7.2	14.4	14.9	14.2	15.0	63.9	66.4	62.9	62.3	160.8	158.6	155.3	156.9
-	1	2.12.2014	4 .	7.7	7.5	7.2	7.5	15.2	15.8	15.3	16.0	75.4	63.7	72.7	66.3	156.4	154.8	155.9	160.1
D E	2	5.12.2014	1st	8.0	8.2	7.5	7.5	15.8	15.3	14.8	15.3	69.7	67.2	70.4	68.3	158.2	167.4	155.3	163.1
C	3	9.12.2014	2nd	7.8	7.7	7.7	8.5	16.0	14.0	15.8	16.0	72.5	70.3	64.6	63.6	164.4	166.3	157.6	152.1
E	4	12.12.2014	ZIIU	8.0	7.5	8.0	7.0	16.0	15.2	16.0	15.7	58.5	71.9	70.9	65.0	155.0	169.5	158.2	159.5
M	5	16.12.2014	3rd	7.8 7.5	8.0 8.2	7.5 8.0	8.0 8.8	14.5	15.0 15.3	15.3 13.7	15.0 14.8	60.2 69.8	61.4 69.9	67.3 73.9	73.4 69.3	158.3 160.5	157.0 162.7	156.6 160.9	156.4 157.4
В	7	19.12.2014 23.12.2014		7.3	7.5	7.5	7.5	14.8	14.0	15.7	14.8	70.0	71.8	70.3	69.4	160.5	160.1	163.3	157.4
E	8	26.12.2014	4th	7.5	7.8	7.7	7.7	15.3	14.0	13.7	16.0	68.6	61.7	68.3	69.1	156.4	157.5	159.6	159.8
R	9	30.12.2014		8.0	7.5	8.0	8.0	13.3	14.3	14.5	13.5	68.2	68.2	72.7	71.6	160.9	156.2	164.7	168.3
	A	verage		7.7	7.8	7.7	7.8	15.1	14.8	14.9	15.2	68.1	67.3	70.1	68.4	159.1	161.2	159.1	159.1
	1	2.1.2015	14	7.7	7.5	7.5	8.2	15.3	15.2	14.5	15.3	56.3	65.2	72.2	56.5	159.9	161.3	170.0	160.5
J	2	6.1.2015	1st	7.5	8.3	8.3	8.2	15.3	15.3	15.0	14.3	68.2	60.6	68.8	69.8	155.8	155.9	160.0	172.6
A	3	9.1.2015	21	8.2	8.2	8.2	7.8	15.0	16.0	14.0	14.0	63.0	65.5	63.4	69.0	158.0	160.4	152.7	158.7
N	4	13.1.2015	2nd	8.2	8.0	7.5	8.0	14.0	14.7	14.2	13.5	63.6	65.4	64.9	55.5	156.2	159.7	158.3	156.4
U	5	16.1.2015	3rd	7.3	8.0	8.2	8.2	14.5	14.5	13.5	13.8	67.4	66.0	65.8	63.4	163.2	157.1	158.4	164.9
A	6	20.1.2015	Jiu	7.5	7.8	6.8	6.7	15.0	13.5	14.5	14.5	66.3	69.7	64.1	66.1	152.3	161.5	156.6	164.2
R	7	23.1.2015	4th	7.5	8.0	7.8	8.0	16.0	14.7	13.7	14.0	62.1	67.1	70.9	65.7	150.9	160.5	158.5	166.0
Y	8	27.1.2015		7.7	7.5	8.0	8.0	13.3	14.5	14.5	15.0	62.3	61.7	65.2	67.8	151.1	155.4	156.9	155.7
	9	30.1.2015		8.5	7.0	8.5	6.5	13.5	14.0	14.5	12.0	63.0	59.4	72.4	63.0	153.9	150.1	163.6	153.1
T.	1	verage		7.8	7.8	7.9	7.7	14.7	14.7	14.3	14.1	63.6	64.5	67.5	64.1	155.7	158.0	159.4	161.3
F		3.2.2015	1st	7.3	7.7	7.0	7.0	13.7	14.7	13.8	13.3	65.0	63.5	64.1	63.8	166.1	156.3	157.6	155.7
E	2	6.2.2015		7.7	6.3	7.2	7.8	14.0	13.5	14.2	13.8	60.4	57.4	66.3	61.6	162.0	153.1	159.3	157.7
В	3 4	10.2.2015 13.2.2015	2nd	7.5 7.8	8.0 7.2	7.3 7.5	8.2 7.3	13.5 14.5	14.2	13.7 15.0	13.8 14.3	59.5 65.2	63.1 59.4	69.5 64.2	65.5 71.4	159.3 168.2	158.9 159.5	161.6 159.0	163.8 164.5
R U	5	17.2.2015		7.0	7.5	7.2	6.8	14.0	14.2	14.3	13.7	69.3	67.9	67.0	67.9	170.9	161.5	166.5	161.4
	6	20.2.2015	3rd	7.0	8.0	7.5	7.8	13.5	13.2	14.0	14.7	60.8	61.9	62.6	62.3	163.9	157.3	156.7	157.4
A	7			8.7	7.2	7.3	8.3	14.3	13.2	14.0	13.7	58.3	63.9	67.1	65.5	156.3	157.3	165.7	157.4
R		24.2.2015	4th																
Y	8	27.2.2015		7.2	7.8	7.5	7.2	13.8	13.3	13.5	13.2	60.9	61.7	64.5	64.5	159.2	158.9	159.0	156.1
		verage		7.6	7.5	7.3	7.6	13.9	13.8	14.1	13.8	62.4	62.3	65.7	65.3	163.2	158.2	160.7	159.4
	1	3.3.2015	1st	7.8	7.0	7.7	7.8	14.7	14.5	13.7	13.2	63.9	64.5	61.2	68.3	161.1	167.3	158.9	164.3
	2	6.3.2015	151	7.5	8.3	7.7	7.5	15.0	15.7	13.8	14.8	60.1	65.9	62.3	65.7	157.2	166.7	158.2	162.8
M	3	10.3.2015		7.3	7.2	7.7	8.3	14.5	16.2	15.2	15.5	62.6	63.0	66.1	59.8	162.9	162.0	160.9	158.8
A	4	13.3.2015	2nd	6.7	8.0	7.3	8.2	15.5	14.2	14.2	15.3	66.3	63.6	68.1	68.6	169.7	165.1	165.1	164.2
R	5	17.3.2015		7.0	8.7	8.3	7.2	14.5	16.2	15.2	14.3	65.7	61.3	65.5	63.6	168.5	163.1	160.4	161.2
C H	6	20.3.2015	3rd	8.0	7.0	6.8	7.3	14.8	15.3	15.0	15.8	65.9	64.8	68.2	65.7	163.5	162.9	164.9	164.8
n	7	25.3.2015		7.2	8.3	7.7	7.0	16.8	15.8	15.8	14.7	68.2	68.2	60.9	60.2	165.0	166.4	162.1	160.9
	8	28.3.2015	4th	7.2	7.7	7.7	8.0	14.3	16.0	13.2	14.7	63.8	61.7	63.7	61.6	165.4	161.9	164.0	160.5
	A	verage		7.3	7.8	7.6	7.7	15.0	15.5	14.5	14.7	64.6	64.1	64.5	64.2	164.2	164.4	161.8	162.2

## Halki LimeStone Mines, (Karnataka)

(Unit: J.K. Cement Ltd.)

## PM 2.5 MONITORING REPORT FROM OCTOBER-2014 TO MARCH-2015

Site	Month	Date	<b>Monitoring Location</b>	Parameter PM 2.5 (µg/m <sup>3</sup> )
		20.10.2014	A	42.7
HALKI MINE	Oct-14	22.10.2014	В	36.5
	OCI-14	25.10.2014	C	41.8
		27.10.2014	D	40.6
		22.11.2014	A	36.6
HALKI MINE	Nov-14	24.11.2014	В	34.5
HALKI WIINE	1101-14	26.11.2014	С	40.5
		28.11.2014	D	44.8
		15.12.2014	A	42.5
HALKI MINE	Dec-14	17.12.2014	В	36.8
HALKI WIINE		19.12.2014	С	32.5
		22.12.2014	D	38.4
		19.1.2015	A	36.7
HALKI MINE	Jan-15	21.1.2015	В	42.5
HALKI WIINE	Jan-13	22.1.2015	С	37.4
		27.1.2015	D	41.6
		18.2.2015	A	36.7
HALKI MINE	Feb-15	20.2.2015	В	42.5
HALKI WIINE	ren-15	21.2.2015	С	37.4
		24.2.2015	D	41.6
		20.3.2015	A	35.2
HALKI MINE	Mar-15	23.3.2015	В	46.7
TIALKI WIINE	Wai -13	25.3.2015	C	37.5
		27.3.2015	D	42.6

## **HALKI LIME STONE MINES, (KARNATAKA)**

(Unit : J.K. Cement Ltd.)

Half Yearly Fugitive Emission Monitoring Report of Halki mines for the month of Oct-2014 to Mar-2015

		SPM (µg/m³)								
Sl. No.	MONTH/YEAR	Loading Area	Drilling Area	Haulage Area	Waste Dumping Site	Service Road				
1	Oct-14	456.6	505.76	481.30	469.27	448.26				
2	Nov-14	484.6	438.54	527.96	546.37	481.15				
3	Dec-14	446.3	453.40	523.91	539.46	502.30				
4	Jan-15	414.9	464.80	416.67	490.63	379.01				
5	Feb-15	415.9	465.80	417.67	491.63	380.01				
6	Mar-15	413.8	454.45	451.65	457.45	497.34				

## **HALKI MINES, (KARNATAKA)**

## (Unit: J.K. Cement Ltd.)

Water analysis report of Core and Buffer Zone for the month of October-2014 to March-2015

Sample collected from Core zone and buffer zone

			Average									
Sl. No.	Constituents	Desirable Limit	Core Zone						Buffer Zone			
51.110.	Constituents		Halki mines pit	Halki Mines	Halki	Muddapur	Petlur	Metgud	Ningapur	Halki	Bamanbudini	Thimmapur
1	Odour	Aggreable	Aggreable	Aggreable	Aggreable	Aggreable	Aggreable	Aggreable	Aggreable	Aggreable	Aggreable	Aggreable
2	Taste	Aggreable	Aggreable	Aggreable	Aggreable	Aggreable	Aggreable	Aggreable	Aggreable	Aggreable	Aggreable	Aggreable
3	Total Dissolved Solids	500	395.85	358.7	355.2	382.77	380.95	328.95	383.15	348.35	355.53	318.75
4	Turbidity	5 NTU	1.19	1.3	1.2	1.30	0.98	0.98	1.11	1.19	1.08	1.27
5	pН	6.5-8.5	8.02	8.0	8.0	8.13	7.87	7.95	7.90	7.80	7.95	7.93
6	Total Hardness	300	245.70	234.3	212.8	201.49	208.96	191.96	237.91	200.25	219.63	189.22
7	Calcium	75	60.27	53.5	51.4	49.10	48.13	46.23	57.52	49.08	49.30	43.20
8	Magnecium	30	22.93	25.5	22.8	21.32	23.28	20.07	21.32	21.85	22.50	20.42
9	Alkanity	200	171.88	164.8	164.7	161.22	161.63	157.78	152.25	164.68	159.55	166.40
10	Chloride	250	232.77	206.7	219.7	215.23	214.72	209.83	202.80	220.58	193.13	211.43

Note: 1- The Above analysis have been carried out as per IS-10500.

<sup>2-</sup> Obeserved Concentration in mg/liter except pH and Turbidity.