



JK Cement WORKS

MUDDAPUR

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CIN : L17229UP1994PLC017199

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Works : P.O. Muddapur - 587 122
Dist. Bagalkot (Karnataka) India

No. JKCW/ENV. /E.C. (MUDDAPUR)/08/23

Date- 18-11-2019

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

Sub: Half Yearly Environmental Clearance Compliance for the period from April-2019 to September-2019 for our Muddapur Limestone Mine

Ref: MoEF Letter No. J-11015/383/2006-1A.II (M) /dtd. 21st January 2008

Dear Sir,

With reference to your above cited environmental clearance letter of our Muddapur Lime stone mine. We are sending here with enclosed point wise compliance for the period from **April-2019 to September-2019** for your kind information and record please.

Thanking you

Yours faithfully
For Muddapur Lime Stone Mine

R.B.M. Tripathi
(Unit Head)

Encl. - Compliance report, Socio-economic development report, six monthly ambient air quality monitoring, fugitive emission, water testing, noise monitoring report, Environmental expenditure 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, 7th D Cross, Shivanagar, Opp. Pushpanjali Theatre, Bengaluru
- 4- Member Secretary, Karnataka Pollution Control Board, Church Street, Bangalore
- 5- The Dy. Director, Dept. of Mines & Geology, Government of Karnataka, Brundavana Sector no.63/A Navanagar, Bagalkot-587103
- 6- The Environmental Officer , Karnataka State Pollution Control Board, Sector no.07, by pass road, Navanagar, Bagalkot – 587102



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Half Yearly Compliance Report for the period from April-2019 to September-2019

EC to Muddapur Limestone Mine (ML area 161.87 ha., 2.0 MTPA of limestone Production) of M/s J.K. Cement Ltd., at village Muddapur, in Mudhol Taluk, Bagalkot-Dist. In Karnataka

Specific Condition:

S.N.	EC Condition	Compliance Status
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. It has been studied with EIA which submitted to concerned authority. Mining is being done as per IBM approved modified mining Plan so there is no damage to agriculture land /common property.
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.	Complying. The impacts of mining operations are positive. Surrounding village people are sustaining their lively hood in this project. The literacy rate and better living standards enhanced due to increased earning capacity of villagers, better medical facility, and transportation and communication facilities. For socio economic development we have granted funds to the nearby villagers. Copy attached as Annexure No. I.
iii)	A no. of mining zone barrier of 50 m from the canal passing through the lease areas on both sides shall be demarcated and the area shall be afforested with thick species of native vegetation.	Not Applicable
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	Not Applicable as there is no forest area nearby mining lease.

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	the Ministry.	
vi)	Measures for control and preventions of soil erosion and management of silt shall be prepared and submitted to the Regional office of the ministry within six months	Complied. Soil erosion control measures have been mentioned in EIA which is already submitted to MoEF.
vii)	Water quality both for surface as well as ground water in the core zone shall be regularly monitored for contamination due to mining activity and records maintained. In case contamination is observed, measures for control and action taken shall be reported to the State Government as well as the Regional Office of the Ministry within six months.	Complying. Water quality is being monitored regularly by approved lab and no contamination has been observed.
viii)	Water bodies shall be developed and utilized to develop Pisciculture. Fishermen cooperative society shall be established with the land losers (if any) and specially the poorer section as members 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.	To be complied. At the final closure of mine, mining pit will be developed as water body and will be utilized to develop Pisciculture.
ix)	Action taken report on issues raised during the public hearing shall be submitted to the Ministry and the State Governments within six months.	Complied and it has been submitted.
x)	Occupational health and safety measures for the workers including training on malaria eradication, HIV, health effects on exposure to mineral dust etc. shall be carried out. The company shall engage a full time doctor who is trained in occupational health surveillance. Records of the health of the workers shall be maintained.	Complying. Initial and periodical medical examinations of all mine workers are being done on regular basis as required under Mines Rules 1955 and training on various medical aspects are being imparted. Company has engaged fulltime doctor who is trained in Occupational health surveillance. Records are being maintained.
xi)	Top soil/solid waste(if any) shall be stacked properly with proper slope and adequate safe guards and shall back filled for reclamation and rehabilitation of the mined area	Complying. Top soil is being utilized for plantation and at present no solid waste is generated.
xii)	Over burden if any shall be stacked at	Will be complied. Presently, there are

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	earmarked dump site(s) only and shall not be kept active for long period. The maximum height of the dump shall not be exceed 30m, each stage shall preferably be of 10m and overall slope of the dump shall not exceeded 28°. The OB dump shall be backfilled. The OB scientifically vegetated with suitable native species to prevent erosion and surface run off. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment Forests on six monthly bases.	no over burden dump within the lease area. Compliance report is being submitted to the Ministry of Environment and Forests on six monthly basis.
xiii)	Garland drains shall be constructed to arrest silt and sediment flows from soil, and mineral dumps. The water so collected shall be utilised for watering the mine areas, roads, green belt development etc. The drains shall be regularly de-silted particularly after monsoon and maintained properly. Garland drain of appropriate size, gradient and length shall be designed keeping 50% safety margin over and above peak sudden rain fall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity will also provide adequate retention period to allow proper settling of silt materials. Sedimentation pits shall be constructed at the corners of the garland drains and desilted at regular intervals. Check dams and gully checks shall be constructed across nallahs (if any) flowing through the lease area.	Complying. Garland drains have been made around the pit. The collected water in the pit is being used for green belt development and water spraying on haul roads for controlling fugitive dust emission. There is no nallah within the lease area.
xiv)	Slope of mining bench and ultimate pit limit shall be as per the mining scheme approved by Indian Bureau of mines.	Complying. Slope of mining bench and ultimate pit limit are followed as per the mining plan approved by Indian Bureau of Mines.

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xv)	Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with DFO. Herbs, shrubs shall also form a part of a forestation programme besides tree plantation. Plantation shall be raised in 22.0 ha around the ML area, haul roads, OB dump sites etc. the density of the trees shall be not less than 2500 plants per ha. The company shall involve local people with the help of self help group for plantation programme.	Complying. Green Belt Development is being done with native species and in consultation with DFO as committed in Mining plan.
xvi)	Details of the year wise a forestation programmed already under take as well as proposed to be taken of including rehabilitation of mined out areas shall be submitted to the Ministry within six months.	Complied. Details of the year wise a forestation programme is already submitted to MoEF and Plantation is being done as per mining plan.
xvii)	The project authority shall implement suitable conservation measures to augment ground water resource in the areas in consultation with the Regional Director, Central Ground water Board. Status of implementation shall be reported to the regional office of the Ministry from time to time.	Complying. Surface/rain water harvested in pit recharges ground water as water percolates down wards due to inclined strata.
xviii)	Prior permission from the competent authority shall be obtained for extraction of ground water, if any.	Complied.
xix)	Drilling and blasting (if any) shall be conducted by using dust extractors/ wet drilling.	Complying. Wet drilling is being done.
xx)	Vehicles used for transportation of ores and other mining operation shall have valid permission as prescribed under Central Motor Vehicles rules,1989 and its amendments. Transporting of ores shall be done covered with a tarpaulin or other suitable enclosures so that no dust particles /fine matters escape during the course of transportation. No overloading of ores for transportations shall be under taken.	Complying. Vehicles used for transportation of ores and other mining operation have valid permission as prescribed under Central Motor Vehicles Rules,1989 and its amendments. It is ensured that no spillage is occurred during transportation.

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xxi)	Village roads through which transportation of ores are being carried out shall be regularly maintained by the company at its own expenses.	Complying. Village roads, through which transportation of ores are being carried out, is being regularly maintained by the company at its own expenses.
xxii)	A final mine closure plan, along with details of corpus funds, shall be submitted to the Ministry of Environments & Forests within six months, in advance of final mine closure for approval.	Will be followed at the time of mine closure.
B	General Condition:	
i)	No change in mining technology and scope of working shall be made without prior approval of Ministry of Environment & Forests.	Agreed.
ii)	No change in calendar plan including excavation, quantum of mineral, limestone and waste shall be made.	Agreed.
iii)	Four Ambient Air Quality – monitoring station shall be established in the core zone as well as in the buffer zone for RPM, SPM, SO ₂ , NO _x monitoring. Location of the stations should be decided based on the metrological data, Topographical features and Environmentally and ecologically sensitive targets and frequency of monitoring should be under taken in consultation with the State Pollution Control Board.	Complied. Four Ambient Air Quality – monitoring stations have been established.
iv)	Data on Ambient Air Quality (RSPM, SPM, SO ₂ , and NO _x) 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.	Being complied and regularly sent to concerned departments.
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 tankers.

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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, earplugs/ muffs have been provided.
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 workshop in mines area and no waste water 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.	Complying. Personnel working in dusty areas have been provided with protective respiratory devices and imparted adequate training and information of Safety and Health aspects.
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 report 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 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.	Complied.
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.

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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.
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.	Agreed
xvi)	The project authorities shall advertise at least in two local Newspapers 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 Muddapur Lime Stone Mine


 R.B.M. Tripathi
(Unit Head)

Social Development Expenses for the period from April 2019 to September 2019

CSR Project or activity identified (60-75 words)	Section in which the project is covered	Local Area or other	Specify State and other	Amount Spent	Amount spent: Direct or through implementing Agency
Computer and printers installation with Furniture in Muddapur village government School	Rural development projects	Muddapur Village	Karnataka	1,72,667	Direct
Computer Table donation given in Muddapur Govt school	Rural development projects	Metaguda Village	Karnataka	32,000	Direct
Donation made to Karnataka Flood Relief fund	Rural development projects	Karnataka	Karnataka	50,00,000	Direct
Contribution in construction of Mass Marriage Community Hall at Muddapur	Community Welfare Projects	Muddapur Village	Karnataka	3,00,000	Direct
Distribution of Bed sheet & Blanket & food to flood victims near by area.	Rural development projects	Muddapur Village	Karnataka	54,179	Direct
Cement bags donated to Mallikarjuna Temple at Lokapur	Community Welfare Projects	Muddapur Village	Karnataka	70,100	Direct
				56,28,946	

MUDDAPUR LIMESTONE MINES, (KARNATAKA)

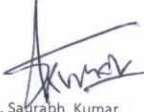
(Unit: Jk Cement Ltd.)

HALF YEARLY AAQM REPORT (SO₂, NO₂, PM₁₀, PM_{2.5}) FROM APRIL-2019 TO SEPTEMBER-2019

(ALL VALUES IN MICROGRAMS / CUBIC METER)

Month	Sl. No.	Date	Week	SO ₂				NO ₂				PM ₁₀				PM2.5				
				Locations				Locations				Locations				Locations				
				A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	
A P R I L	1	3.4.2019	1st	8.3	7.5	7.8	8.5	13.5	10.7	9.7	10.0	72.3	69.1	84.4	97.2	20.8	16.7	16.7	50.00	
	2	6.4.2019		7.5	6.5	6.2	6.8	10.2	9.2	8.0	12.8	45.8	72.9	93.5	59.4	16.7	12.5	20.8	25.00	
	3	10.4.2019	2nd	6.8	7.5	7.3	9.5	9.2	9.8	11.3	15.2	52.4	62.8	79.1	66.4	16.7	33.3	25.0	41.67	
	4	13.4.2019		5.0	6.7	5.8	6.7	8.2	9.3	6.7	10.3	67.2	41.3	67.7	56.0	12.5	20.8	20.8	33.33	
	5	17.4.2019	3rd	4.5	8.0	7.5	8.0	8.3	11.5	10.8	10.8	58.0	47.5	73.9	76.3	16.7	16.7	37.5	20.83	
	6	20.4.2019		6.7	6.7	5.5	5.8	8.2	9.2	8.3	6.2	47.3	66.0	48.0	64.6	20.8	25.0	29.2	20.83	
	7	24.4.2019	4th	4.5	5.0	4.5	4.0	9.5	7.2	5.8	7.0	54.2	57.1	68.3	66.4	12.5	33.3	37.5	12.50	
	8	27.4.2019		4.5	4.5	5.2	5.2	7.5	5.8	7.2	7.3	44.2	64.2	62.4	55.3	37.5	20.8	29.2	20.83	
M A Y	1	1.5.2019	1st	6.7	7.0	7.0	7.3	16.5	16.5	16.3	17.2	53.1	52.7	54.9	53.5	25.0	33.3	25.0	44.58	
	2	4.5.2019		7.0	6.8	7.8	8.2	17.0	17.3	18.0	18.3	57.4	62.8	48.8	49.8	29.2	29.2	33.4	12.50	
	3	8.5.2019	2nd	6.5	6.3	6.5	6.0	16.2	16.8	16.0	16.2	63.8	57.1	62.0	59.1	16.7	37.5	29.2	16.67	
	4	11.5.2019		7.7	7.7	8.0	7.5	16.7	17.3	17.2	17.8	62.3	59.1	66.4	62.7	20.8	25.0	37.5	25.00	
	5	15.5.2019	3rd	8.0	9.0	9.2	7.7	17.2	18.5	18.0	18.0	56.7	65.2	50.5	67.2	37.5	20.8	45.8	20.83	
	6	18.5.2019		7.8	9.8	8.7	8.2	17.7	19.2	17.3	18.8	50.3	55.8	48.1	40.0	41.7	33.1	23.3	25.00	
	7	22.5.2019	4th	7.2	6.5	7.8	8.0	18.3	16.8	18.0	17.2	58.2	40.7	52.1	54.4	29.2	25.0	20.8	37.50	
	8	25.5.2019		8.3	8.3	6.7	7.2	17.3	18.0	17.8	18.8	51.5	48.5	45.4	46.7	25.0	20.8	33.3	44.58	
	9	29.5.2019		6.0	7.0	7.7	7.8	19.5	17.5	17.5	17.0	45.6	44.9	50.0	49.1	20.8	37.5	20.8	20.83	
J U N E	1	1.6.2019	1st	6.8	7.8	8.3	8.2	18.0	17.5	17.2	18.0	53.4	56.8	53.8	57.5	12.5	16.7	29.2	25.00	
	2	5.6.2019		8.0	8.5	9.3	7.8	18.0	18.2	19.0	17.0	60.7	50.5	48.3	60.4	25.0	29.2	33.3	20.83	
	3	8.6.2019	2nd	7.2	7.2	7.8	8.2	18.2	18.0	17.5	18.7	59.6	59.1	58.1	48.5	16.7	33.3	25.0	29.17	
	4	12.6.2019		8.2	8.2	8.2	6.7	19.2	17.0	18.2	17.7	54.3	44.6	53.2	50.8	33.3	25.0	20.8	29.17	
	5	15.6.2019	3rd	7.7	7.8	8.8	7.7	17.5	18.0	17.3	18.2	55.3	33.1	48.6	58.9	20.8	29.2	20.8	33.33	
	6	19.6.2019		7.3	7.5	7.5	8.2	18.0	18.2	18.0	17.2	47.0	52.3	60.4	46.7	12.5	12.5	20.8	20.83	
	7	22.6.2019	4th	8.7	7.3	8.0	7.5	18.2	17.8	18.0	17.8	58.9	46.1	59.4	55.9	29.2	20.8	29.2	16.67	
	8	26.6.2019		5.8	7.5	6.8	6.5	16.3	17.0	16.7	17.0	35.1	54.0	35.4	39.2	25.0	41.7	25.0	25.00	
	9	29.6.2019		7.0	7.0	7.5	7.8	19.0	17.5	17.7	18.0	48.4	48.0	50.0	52.7	20.8	16.7	37.5	25.00	
J U L Y	1	3.7.2019	1st	7.7	8.0	7.2	7.3	18.0	18.0	17.8	17.8	57.6	68.4	48.7	59.6	16.7	25.0	20.8	29.17	
	2	6.7.2019		8.0	7.5	8.2	8.7	18.0	17.7	18.5	18.3	51.9	57.4	57.9	37.2	20.8	16.7	16.7	25.00	
	3	10.7.2019	2nd	8.0	9.2	6.8	7.5	17.5	19.2	17.2	17.3	63.5	60.4	68.1	21.9	12.5	12.5	29.2	20.83	
	4	13.7.2019		9.2	8.3	9.2	8.0	19.2	18.0	18.5	18.0	69.8	70.5	77.7	71.2	12.5	25.0	25.0	16.67	
	5	17.7.2019	3rd	10.0	10.2	10.0	9.5	19.0	18.8	19.5	20.2	57.8	57.2	56.3	77.0	25.0	20.8	16.7	29.17	
	6	20.7.2019		7.2	8.3	8.3	8.5	18.3	19.7	18.8	18.0	61.5	55.4	57.2	69.2	16.7	20.8	20.8	25.00	
	7	24.7.2019	4th	6.5	6.7	7.8	7.7	16.5	16.5	17.2	17.2	42.2	48.7	47.4	56.9	12.5	20.8	20.8	20.83	
	8	27.7.2019		7.5	7.2	6.2	6.8	17.2	17.2	16.8	17.5	35.2	38.9	23.6	42.3	8.3	12.5	16.7	12.50	
	9	31.7.2019		7.5	6.0	6.8	6.3	17.0	17.7	16.8	17.2	49.1	29.3	40.7	36.2	20.8	12.5	12.5	20.83	
A U G U S T	1	3.8.2019	1st	9.2	9.2	6.8	7.5	19.2	19.2	17.2	17.3	38.0	38.1	52.4	55.5	16.7	16.7	20.8	37.50	
	2	7.8.2019		8.3	8.2	9.2	9.5	17.2	18.0	18.5	19.2	46.6	45.9	43.9	48.3	20.8	20.8	25.0	25.00	
	3	10.8.2019	2nd	7.5	7.2	10.0	8.0	17.0	17.2	19.5	18.0	42.8	49.8	48.3	60.2	20.8	37.5	20.8	20.83	
	4	14.8.2019		6.5	6.7	7.8	8.0	16.2	16.5	17.2	18.0	50.5	51.9	62.7	52.6	25.0	25.0	25.0	25.00	
	5	17.8.2019	3rd	7.5	7.5	6.2	9.5	16.5	18.0	16.8	20.2	47.7	41.0	46.7	40.8	16.7	20.8	20.8	20.83	
	6	21.8.2019		10.2	10.3	8.3	10.5	19.2	19.2	19.2	19.5	54.0	58.1	53.8	51.8	20.8	25.0	25.0	29.17	
	7	24.8.2019	4th	8.7	9.8	9.5	8.3	18.3	19.3	19.7	19.2	49.9	62.5	46.0	57.2	20.8	20.8	33.3	20.83	
	8	28.8.2019		9.8	10.2	10.2	9.2	19.8	19.2	19.5	19.2	58.2	53.8	64.8	45.3	29.2	25.0	29.2	37.50	
	9	31.8.2019		9.8	8.3	8.3	8.7	20.0	19.2	18.3	19.3	47.0	57.6	59.1	69.3	25.0	29.2	20.8	25.00	
S E P T E M B E R	1	4.9.2019	1st	8.3	8.3	7.5	7.5	18.3	18.3	17.5	17.5	65.0	62.5	50.9	45.5	33.3	33.3	20.8	20.83	
	2	7.9.2019		7.5	7.5	8.7	8.2	17.5	18.2	18.7	18.3	55.6	55.4	61.7	53.1	25.0	29.2	25.0	25.00	
	3	11.9.2019	2nd	6.7	8.2	7.5	6.8	19.8	18.2	20.0	16.8	48.0	49.9	56.7	53.8	20.8	37.5	29.2	20.83	
	4	14.9.2019		8.2	9.2	10.0	8.3	19.2	19.2	20.0	19.2	57.3	46.0	46.7	47.6	29.2	33.3	33.3	29.17	
	5	18.9.2019	3rd	7.5	6.7	7.0	5.8	17.5	16.7	17.0	15.8	47.2	33.8	34.7	27.4	33.3	12.5	16.7	20.83	
	6	21.9.2019		7.7	7.5	6.2	7.3	18.0	17.5	16.2	17.5	21.1	29.2	27.0	23.0	16.0	16.7	29.2	12.50	
	7	25.9.2019	4th	6.2	6.3	6.3	6.5	17.5	16.2	16.3	16.5	18.5	26.4	18.3	28.1	12.5	20.0	12.5	8.33	
	8	29.9.2019		7.5	8.3	8.3	8.0	17.5	18.3	18.3	18.0	36.2	37.4	42.4	32.5	16.7	25.0	29.2	16.67	
	Half Yearly Avg.				7.5	7.7	7.7	7.7	16.6	16.6	16.4	16.7	51.6	51.9	54.2	53.0	21.6	24.3	25.4	24.9
	Half Yearly Min.				4.5	4.5	4.5	4.0	7.5	5.8	5.8	6.2	18.5	26.4	18.3	21.9	8.3	12.5	12.5	8.3
Half Yearly Max.				10.2	10.3	10.2	10.5	20.0	19.7	20.0	20.2	72.3	72.9	93.5	97.2	41.7	41.7	45.8	50.0	


V. P. Padi
Monitored by


Dr. Satrabh Kumar
Sr. Mgr.(Env)

MUDDAPUR LIME STONE MINES, (KARNATAKA)

(Unit : J.K. Cement Ltd.)

Half yearly Fugitive Emission Monitoring Report of Muddapur mines for the month of April-2019 to September-2019

Sl. No.	MONTH/YEAR	SPM (µg/m ³)				
		Loading Area	Drilling Area	Haulage Area	Waste Dumping Site	Service Road
1	Apr-19	642.31	714.93	813.37	730.34	702.09
2	May-19	711.63	844.09	735.04	863.19	832.47
3	Jun-19	759.95	996.08	691.20	796.88	708.33
4	Jul-19	697.83	740.82	841.70	802.71	810.05
5	Aug-19	732.69	840.28	907.89	982.99	968.23
6	Sep-19	828.13	955.98	862.15	922.21	740.38
	Minimum	642.31	714.93	691.20	710.52	702.09
	Maximum	828.13	996.08	907.89	982.99	968.23
	Average	728.76	848.70	808.56	849.72	793.59


Vani Patil

Monitored by



Dr. Saurabh Kumar
Sr. Mgr.(Env)

(Unit: J.K. Cement Ltd.)

Water analysis report of Core and Buffer Zone for the month of April -2019 to September-2019

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

2- Observed Concentration in mg/liter except pH and Turbidity.

Monitored by
Van Patil

Dr. Saurabh Kumar
Sr. Mgr.(Env)

Muddapur Limestone Mines (Karnataka)

(Unit: J.K. Cement Ltd.)

Noise monitoring report of Muddapur mines (Core zone) for the month of April-2019 to September-2019

Sl.No.	Time	Month	Muddapur Mines boundary	Muddapur Mines Office	Muddapur mines Drilling Time	Muddapur mines Waste dumping site	Muddapur mines Service Road
1	Day	Apr-19	42.5	45.7	38.5	44.2	40.7
	Night		31.6	33.8		34.5	30.8
2	Day	May-19	41.5	45.4	40	42.6	40.1
	Night		31.6	33.2		30.8	36.5
3	Day	Jun-19	42.8	46.5	38.6	40.5	46.2
	Night		32.4	31.5		30.6	34.4
4	Day	Jul-19	47.5	39.2	41.5	40.2	41.6
	Night		32.5	29.6		33.7	31.9
5	Day	Aug-19	46.8	36.4	40.9	41.2	39.6
	Night		30.8	27.5		35.4	30.5
6	Day	Sep-19	47.5	35.2	41.5	40.5	37.4
	Night		31.2	27.1		33.6	31.2
Average	Day		44.77	41.40	40.17	41.53	40.93
	Night		31.68	30.45		33.10	32.55
Minimum	Day		41.50	35.20	38.50	40.20	37.40
	Night		30.80	27.10	0.00	30.60	30.50
Minimum	Day		47.50	46.50	41.50	44.20	46.20
	Night		32.50	33.80	0.00	35.40	36.50


 Vani Patil
 Monitored by


 Dr. Saurabh Kumar
 Sr. Mgr.(Env)

Environmental Expenditure for Muddapur Limestone Mine
April 2019 to September 2019

Sl. No.	Particulars	Cost (In Rs.)
1	Pollution Control	1205475.32
2	Pollution Monitoring	127440.00
3	Occupational Health & Safety	22427.00
4	Green belt	127500.00
5	Reclamation	Nil
6	Others	194702.00
	Total	16,77,544

Mines Manager
Muddapur Limestone Mine