



(Unit. J.K Cement Ltd.)
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MUDDAPUR

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Date- 30-05-2016

No. JKCW/ENV. /Panchagavi mine/57/10

To,
Member Secretary
State Level Environmental Impact Assessment Authority (SEIAA)
Government of India
Room no. 706, 7th floor, 4th gate,
M.S. Building, Bangalore- 560001

Sub. - Environmental Clearance Compliance report of our Panchagavi Laterite Mine for the period from October 2015 to March 2016

Ref: MoEF Letter No. SEIAA 107 MIN 2014 dtd. 24th December 2014

Dear Sir,

With reference to your above cited environmental clearance letter of our Panchagavi Laterite mine. We are sending here with enclosed point wise compliance report for the period from October 2015 to March 2016 for your kind information and record please.

Thanking you

Yours faithfully

S.K. Jain (Head- O & M)

For Panchagavi Laterite mine

Encl. – Point wise compliance report, half yearly AAQM report, Fugitive emission report, Noise Monitoring report and occupational health survey 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- The Secretary to Government, (Environment and Ecology), Department of Forest Environment & Ecology, Room No. 708, Gate 2, Multi Storied Building, Dr. Ambedkar Veedhi, Bangalore

4- The Regional Director (Environment), Department of Environment and Ecology, Government of Karnataka, No.1, Charanti Math Building, Shivalaya Road, Sadashiva Nagar, Belgaum.

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

6- Environmental Officer, Karnataka State Pollution Control Board, Plot No-1, Autonagar, Kanabargi Indl Area, Belgaum-590015



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Name of Project: **Panchagavi Laterite Mine, M/s J.K. Cement Works, Muddapur** (**Karnataka**)

Environmental Clearance to Panchagavi Laterite Mine (ML area 4.58 ha) at village Panchagavi, Taluka-Ramdurg, District- Belgaum, Karnataka

S.N.	CONDITIONS	REPLY
A	Specific Conditions	
1	Quarry plan approved by the Department of Mines and Geology Shall be strictly implemented and shall not be operated beyond the validity period of the approved quarry plan.	Complied. Quarry plan approved by Indian Bureau of Mines is being implemented and one copy of the Quarry plan is sent to DMG for their reference.
2	Baseline data on health profile of each of the workers shall be maintained.	Complied. Initial medical examination has been conducted for the workers.
3	PAs should get the health checkup done for the quarry workers on quarterly basis and submit report periodically.	Complied.
4	The SEIAA, Karnataka reserves the right to withdraw the environmental clearance subject to any in the quarrying policy by the state government as may be applicable to this project	Agreed
5	This Environmental Clearance is co-terminus with the lease granted vide quarry lease under MM(D & R) Act 1957/KMMC RULES-1994	Agreed
6	Quarrying shall be undertaken strictly in accordance with provisions of MM (D&R) Act 1957/KMMC RULES-1994.	Complying
7	All the conditions stipulated in the consent for establishment issued (if applicable) by the Karnataka State Pollution control Board should be effectively implemented.	Complying
8	The quarrying operations shall not intersect ground water table. Prior approval of the SEIAA / Ministry of Environment & Forests and Central Ground Water Authority Shall be obtained for quarrying below water table.	Agreed and Complying. We have submitted our request letter to Ground Water Directorate, Bangalore via. Letter no. JKCW/ENV./C.F./59/23 on dated 05-09-2015.
9	The topsoil if any should be stacked at earmarked site only and should not kept unutilized for a period more than 3 years. The topsoil should be used for reclamation and plantation.	Complying. Topsoil is being stacked separately.

10	Waste rock shall be stacked at earmarked site (s) only. The	Complying. Waste rock is
	maximum height of the stack should not exceed 10m duly	stored in earmarked dump
	providing suitable terraces. The overall slope of the dump	site as per the mining plan.
	shall not exceed 27. A retention wall shall be built around	
	the waste rock dump to prevent sliding.	
11	Catch drains and siltation ponds of appropriate size should	Complied. Drains all along
	be constructed to arrest silt and sediment flows from quarry	the boundary have been
	working area and rock dumps. The water so collected	constructed. Drains will be
	should be utilized for watering the haulage area, roads,	regularly de-silted time to
	green belt development etc., and the drains should be	time. Existing pit and rain
	regularly de-silted particularly after monsoon and	water harvesting pit are used
	maintained properly.	for rain water accumulation
		which will be utilized for
		afforestation and dust
12	Discouries of the activity and the total total	suppression.
12	Dimension of the retaining wall at the toe of dumps within	Will be complied. Dumps are
	the quarry to check run-off and siltation should be based on the rainfall data.	of less height and no chances of heavy silt wash offs.
	the raiman data.	However drains will take
		care of wash offs.
13	The project authority should implement suitable	Agreed and plan has been
	conservation measures to augment ground water resources	submitted to regulatory
	in the area in consultation with the Regional Director,	authority for approval.
	central Ground water Board within 3 months and report be	addiction of upproximate
	submitted to the Authority.	
14	Appropriate mitigation measures should be taken to prevent	Complying. No water will be
	pollution of nearby water bodies in consultation with the	discharged out of the mining
	state Pollution control Board.	lease area. There is no
		chance for water pollution.
15	The project proponent shall submit commitment from the	Agreed. We have submitted
	competent authority for drawl of requisite quantity of water	our request letter to Ground
	for the project before starting work on the project.	Water Directorate, Bangalore
		via. Letter no.
		JKCW/ENV./C.F./59/23 on
1.5		dated 05-09-2015.
16	Suitable rain water harvesting measures on long-term shall	Agreed and plan has been
	be planned and implemented in consultation with Regional	submitted to regulatory
	Director, Central Ground Water Board for complete rain	authority for approval.
	water harvesting by constructing check dams/ converting	
17	quarried pits to rain water harvesting ponds.	Complying Workings are
17	Vehicular emissions should be kept under control and regularly monitored measured shall be taken for	Complying. Workings are on low scale. Mechanical
	maintenance of vehicles used in quarrying operations and in	Engineer appointed shall supervise the scheduled and
	transportation of blocks.	supervise the scheduled and

		preventive maintenance of vehicles.
18	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 SEIAA Karnataka, Department of Environment and Ecology, Govt. of Karnataka and the Regional Office, MoEF, Bengaluru.	Complied. DGPS survey was undertaken on 01.02.2015 & 02.02.2015.
19	This environmental clearance does not confer any right to the proponent on the land proposed for quarrying until and unless quarry lease and all other statutory clearance are obtained from the respective department/agencies.	Agreed
20	The project authorities should undertake sample survey to generate data on pre-project community health status within a radius of 1 km from proposed quarry.	Complied. No dwellings except 1 or 2 houses come under 1km zone.
21	Consent to operate if applicable shall be obtained from state pollution control Board prior to start of production from the quarry.	Agreed, We have obtained CFO from KSPCB via. combined consent order no. 34/PCB/MIN/CFO/2015-16/157 on dated 08 May 2015.
22	Proper sanitary facilities should be installed for the colony/work place. Domestic waste generated should be disposed in a scientific manner. Proper first aid facilities and health care facilities should be provided for the labourers.	Complying. Workings are on small scale. No colony has been established so no domestic waste will be generated. First aid box has been provided at the site.
23	The project proponent shall take all precautionary measures during quarrying operation for conservation and protection of endangered fauna spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and Wildlife Department. The proponent shall contribute towards the cost of implementation of the plan and / or Regional Wildlife Management Plan for conservation of wild life. The amount so contributed shall be included in the project cost. A copy of the action plan may be submitted to the SEIAA, Department of Environment and Ecology, Govt. of Karnataka, the Regional Director (Environment), Department of Environment and Ecology, Government of Karnataka, Belgaum and the Regional Office, MoEF, Bengaluru within 3 months.	Complying. No wildlife available nearby the area. No endangered species spotted. The area is scanty. But due care will be taken to preserve the available flora and fauna.
24	The project proponent shall delineate Quarry Closure Plan/exit protocol to rehabilitate the quarried out land to match	Will be complied. Quarry closure plan shall be

	its surrounding land use including removal, storage and	submitted once the mineral
	reuse of waste rock from quarry area to cover reclaimed	in the area is completely
	area. Post Quarry Land Use Plan with rehabilitation of,	exhausted.
	quarried out area (with Plan and Section) provided and	
25	submit to SEIAA.	A 1 1 111 11 11 11 11 11 11 11 11 11 11
25	Plantation monitoring programme during post project period	Agreed and will be complied
	for ensuring, survival and growth rate of plantation in reclaimed area.	
	reciaimed area.	
26	A Final Quarry Closure Plan along with details of Corpus	Agreed and will be complied
20	fund should be submitted to the SEIAA Karnataka,	rigiced and will be complied
	Department of Environment and Ecology, Govt. of	
	Karnataka and the Regional office, MoEF, Bengaluru 5	
	years in advance of final quarry closure for approval.	
27	Retention walls should be a minimum of 2.5 mtr height with	Agreed and will be complied
	base of 3 mtr.	-
28	Check dams and gully plugs along the smaller streamlets in	Agreed and Drains all along
	the area, should be constructed to arrest the loose soil flow	the boundary have been
	from the quarry area.	constructed.
29	Particulars of dimensioned block production and dispatch	Agreed and will be complied
	shall be provided by the quarry owner yearly.	
30	The infrastructure of transport roads should be improved	Agreed and will be complied
21	collectively by the quarry owners of the area.	A 1 1 '11 1 1' 1
31	Link road from quarry site to main road shall be maintained	Agreed and will be complied
32	and black topped by the project proponent The quarry lease area to be properly demarcated using the	Complied. Boundary pillars
32	lat-long coordinates and duly erecting 4 feet	erected.
	concrete/granite pillars on the ground.	ciccicu.
33	No quarrying shall be undertaken outside the lease area.	Agreed
	The qualitying shall be undertained outside the fease area.	rigicou
34	The project Authorities shall maintain a margin 7.5 meters	Complied. A safety zone of
	along the lease boundary.	7.5 m has been maintained
	, ,	and plantation is being
		carried out.
35	The project authorities shall also earmark at least 5% of the	Agreed and will be complied
	total turnover of the project towards the corporate social	
	responsibility and item-wise details along with the time	
	bound action plan shall be prepared and submitted to the	
	Authority.	
36	The project authority shall ensure that the quarry pits are	Complied. Barbed wire
	well protected with proper fencing keeping the safety of	fencing has been erected all
	local people and the animals.	along the lease boundary.

37	The project authority shall avoid stagnation of water in the quarry pits which would turn out to be mosquito breeding				
	centers resulting in spreading of diseases such as malaria, dengue, etc.				
38	Haulage approach road should not be through Panchagavi village till the main road is reached.	Complying. Panchagavi village is at a distance of 5km from the lease area. Hence no interference with			
В	GENERAL CONDITIONS	the village.			
1	No change in quarrying technology and scope of working	Agreed			
1	should be made without prior approval of the SEIAA	rigioca			
	Karnataka.				
2	No change in the calendar plan including excavation,	Agreed			
	quantum of mineral and waste should be made.	~			
3	It shall be ensured that the Ambient Air Quality parameters	Complying			
	conform to the norms prescribed by the MoEF, Govt. of india, New Delhi.				
4	Data on ambient air quality (PM ₁₀ , PM _{2.5} , SO ₂ , NO _x) should	Complying. Ambient air			
	be regularly submitted to the SEIAA Karnataka,	quality report are being sent			
	Department of Environment and Ecology, Govt. of	to concerned regulatory			
	Karnataka, the Regional Director (Environment),	authority.			
	Department of environment and Ecology, Government of Karnataka, Belgaum and the Regional office, MoEF,				
	Bengaluru and the state pollution Control Board / Central				
	pollution Control Board once in six Months.				
5	Fugitive dust emission form all the sources should be	Complying. No drilling and			
	controlled regularly. Water spray arrangement on haul	blasting is carried out. 01			
	roads, loading and unloading and at transfer points should	water tanker of 3000 liter has			
	be provided and properly maintained.	been engaged for dust suppression.			
6	Measures should be taken for control of noise levels below	Complied			
	85 dBA in the work environment. Workers engaged in	r			
	operations of HEMM, etc should be provided with earplugs/				
	muffs.				
7	Waste water from the quarry should be properly collected,	Complying. No processing of			
	treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th may 1993 and 31 st December, 1993	ore is carried out. No waste water is accumulated. So no			
	or as amended from time to time. Oil and grease trap shall	effluents is generated.			
	be installed before discharged of effluents.				
8	Personnel working in dusty area should wear provided with	Complying. Report has been			
	adequate training and information on safety and health	enclosed.			
	aspects.				
	Occupational health surveillance program of the				

9	workers should be undertaken periodically i.e once in 3 months to observe any contractions due to exposure to dust and take corrective measures, if needed. Quarterly report in this regard should be submitted to the Department of Environment and Ecology, Govt. of Karnataka state pollution Control Board and the Regional office, MoEF, Bengaluru. A separate environmental management cell with suitable qualified personnel shall be set-up under the control of a senior Executive, who will report directly to the Head of the organization. The Environment management committee should be constituted with one of the member representing nearby village.	Complied, A separate environmental management cell with suitable qualified personnel has been set-up under the control of a senior Executive, who reports directly to the Head of the organization.
10	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 SEIAA Karnataka, the Department of Environment and Ecology, Govt. of Karnataka, the Regional Director (Environment), Department of Environment and Ecology, Government of Karnataka, Belgaum and the Regional Office, MoEF, Bengaluru.	Complied
11	The Project authorities should inform the SEIAA Karnataka, Department of Environment and Ecology, Govt. of Karnataka, the Regional Director (Environment), Department of Environment and Ecology, Government of Karnataka, Belgaum and the Regional Office, MoEF, Bengaluru regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	Agreed. We have obtained the consent to Establishment from Karnataka State Pollution Control Board via. letter no. 284 / PCB / MIN / CFE / 2014-15/1682 Dated 27 Feb. 2014 and applied to KSPCB for Consent for Operation (CFO) via. letter no. JKCW / ENV. / Panchgavi mine /57/05 dated 06-02-2015.
12	The Regional Office of MoEF, Bengaluru; the Department of Environment and Ecology, Govt. of Karnataka, the Regional Director (Environment), Department of Environment and Ecology, Government of Karnataka, Belgaum and the Karnataka state pollution Control Board shall monitor compliance of the stipulated conditions. The project authorities should extend full co-operation to the officer \(s\) of these offices by furnishing the requisite data/information/ monitoring reports. The Project Proponent shall submit six monthly report on	06-02-2015. Agreed

14	the status of the implementation of the stipulated environmental safeguards to the SEIAA Karnataka, Department of Environment and Ecology, Government of Karnataka, the Regional Director (Environment), Department of Environment and Ecology, Government of Karnataka, Belgaum and the Regional Office, MoEF, Bengaluru; the central Pollution Control Board and the Karnataka State Pollution Control Board. A copy of the clearance letter will be marked to the concerned Panchayat Local NGO, if any, from whom suggestion/ representation has been received while processing the proposal.	Complied
15	The Project Proponent should display the conditions prominently at the entrance of the project on a big panel board for the information of the public.	Will be complied
16	The Karnataka State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and Collector's office/ Tehsildar's office for 30 days.	Complied
17	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 environment clearance and a copy of the clearance letter is available with the state pollution control Board and also at website of the Authority at http://www.seiaa.kar.nic.in and a copy of the same should be forwarded to the Department of Environment and Ecology, Government of Karnataka, The Regional Director (Environment), Department of Environment and Ecology, Government of Karnataka, Belgaum and the Regional office, MoEF, Bengaluru.	Complied. It was advertised in two local newspaper viz The Hindu and Vijayavani, Belgaum on dated 09-01-2015. A copy of the same has been submitted to Member Secretary, State Level Environmental Impact Assessment Authority (SEIAA), Bangalore, The Secretary to Government, (Environment and Ecology), Department of Forest Environment & Ecology, Bangalore, The APCCF, MoEF, Bangalore, The Regional Director (Environment), Department of Environment and Ecology, Belgaum, Member Secretary, KSPCB, Bangalore and Regional Officer, KSPCB, Bagalkot
18	Concealing factual data or submission of false/ fabricated	Agreed
	data and failure to comply with any of the conditions	

	mentioned above may result in withdrawal of this	-
	clearance and attract action under the provisions of	
	Environment (protection) Act, 1986.	
19	Any appeal against this environmental clearance shall lie	Agreed
	with the national Green Tribunal, if preferred, within a	
	period of 30 days as prescribed under section 16 of the	
	National Green Tribunal Act, 2010.	
20	The SEIAA or any other competent authority may alter /	Agreed
	modify the above conditions or stipulate any further	
	condition in the interest of environment protection.	-
21	Failure to comply with any of the conditions mentioned	Agreed
	above may result in withdrawal of this clearance and	
	attract action under the provisions of Environment	
	(protection) Act, 1986.	
22	The above conditions will be enforced inter-alia, under the	Agreed
	provisions of the water (prevention & Control of Pollution)	
	Act, 1974, the Air (Prevention & Control of Pollution) Act,	
	1981, the Environment (protection) Act,1986 and the	
	public Liability Insurance Act, 1991 along with their	
	amendments and rules made there under.	14

We hope, you will find our reply in order.

Thanks with regards,
Yours faithfully

For Panchagavi Laterite Mine, M/s J.K. Cement Works, Muddapur

5 S. K. Jain (Head- O & M)

PANCHAGAVI LATERITE MINES, (KARNATAKA)

(Unit: JK Cement Ltd.) HALF YEARLY AAQM REPORT (SO₂, NOx, PM₁₀, SPM) FOR THE MONTH OF OCTOBER-2015 TO MARCH-2016 (ALL VALUES IN MICROGRAMS / CUBIC METER)

				SO ₂ NOx				PM 10				SPM							
Month	SI. No.		Week			tions			· -				tions		Locations				
Wilditii	Date		,,cen	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
	1	5.10.2015		6.67	6.83	6.67	5.83	8.00	7.67	7.50	6.17	58.04	58.03	58.74	57.06	155.21	155.60	156.82	156.60
О	2	8.10.2015	1st	6.00	6.33	6.50	5.50	7.83	7.67	7.50	6.33		59.79	57.45	58.00	156.92	157.35	155.73	157.05
C	3	12.10.2015		6.50	6.50	5.83	6.50	8.67	7.50	6.67	7.50		58.43	56.56	56.60	156.76	154.71	154.60	154.40
T	4	15.10.2015	2nd	6.83	6.33	6.50	6.50	8.33		7.50	7.50		59.09	58.85	58.91	156.52	157.58	156.77	156.66
О	5	19.10.2015		6.33	6.00	6.67	5.50	8.00	7.33	7.50	6.50		57.72	56.61	55.79	154.62	154.54	153.95	153.36
В	6	22.10.2015	3rd	5.67	6.00	6.50	6.50	7.00	7.50	7.50	7.83	56.19	57.58	57.62	57.98	153.94	155.61	154.10	154.64
E	7	26.10.2015		6.17	6.67	6.50	5.50	7.33		7.50	7.33		56.02	57.31	56.90	156.08	155.51	155.54	154.94
R	8	29.10.2015	4th	5.67	6.83	6.00	6.17	7.67	7.33	7.50	7.17	56.00	58.97	56.13	57.63	154.40	155.21	155.67	155.63
	1			6.67	6.00	6.00	6.67	7.50	7.33	7.33	7.17		56.98	58.00	58.96	156.66	157.64	157.62	156.80
N	2	2.11.2015 5.11.2015	1st	7.00	6.17	6.67	6.17	8.17	7.50	7.00	7.00	59.49	59.60	57.45	59.49	157.47	156.42	156.46	157.70
O	3	9.11.2015		6.50	6.50	5.83	6.33	7.50		6.67	7.00		59.66	59.03	59.26	157.31	157.64	157.52	157.64
V	4	12.11.2015	2nd	6.00	6.33		6.33	7.83		7.83	7.50		58.08	58.80	57.18	156.42	157.93	157.33	156.71
E	5			5.50	6.17	6.00	5.83						59.84		58.27	157.17	157.35	157.12	156.39
M		16.11.2015 19.11.2015	3rd	6.67	6.00	6.33	6.83	6.33 7.50	7.50	7.50	6.67 7.00	58.58 58.80	58.66	59.84 58.33	57.83	156.31	157.52	157.12	156.19
В	7			_	5.67	6.33			6.17	_	7.33								
E		23.11.2015	1415	5.83			6.17	6.67 7.67		7.00	7.17	58.52	58.69	57.92	57.66 58.15	156.49 155.40	157.87	156.09	157.27
R	8	26.11.2015	4th	6.33	6.17	6.00	6.67	_	7.33	7.00			57.61	59.34			156.09	158.06	157.07
	9	30.11.2015		5.50	5.50	6.50	6.50	6.50	6.50	7.50	7.00	58.28	56.06	59.14	57.18	157.35	155.49	157.64	156.08
D	1	3.12.2015	1st	5.67	6.33	6.83	6.00	6.33		7.50	7.50	56.92	56.51	56.74	56.19	155.45	154.09	155.85	155.90
E	2	7.12.2015		6.00	5.50	6.67	5.83	7.00	6.33	7.17	6.50	58.77	57.06	55.50	57.41	157.14	156.54	155.77	156.02
C	3	10.12.2015	2nd	6.50	6.33		6.50	7.17	7.33	7.50	7.50		58.35		58.17	156.64	156.58	156.71	156.16
E	4	14.12.2015		5.67	6.50	6.50	6.17	6.50	7.50	7.17	7.33		59.85	56.62	58.54	156.77	157.35	155.45	157.50
M	5	17.12.2015	3rd	6.00	6.00	6.00	6.50	7.00	7.00	7.00		55.26	57.99	57.43	58.51	154.56	156.25	155.90	156.31
В	6	21.12.2015		5.50	6.17	5.50	6.50	6.83	7.50	6.33	7.50		56.45	56.02	56.74	155.44	155.51	155.50	155.63
E	7	24.12.2015	4th	5.50	5.50	6.67	6.00	6.83	6.50	7.50	7.00	56.94	57.71	57.12	57.31	155.73	156.92	156.14	156.46
R	8	28.12.2015		6.00	6.17	6.17	5.33	7.00	7.00	7.00	6.17	57.10	56.25	56.92	58.45	156.34	155.79	154.38	156.94
	9	31.12.2015		5.50	5.50	5.50	6.00	6.50	6.50	6.50	7.00	58.69	59.77	57.29	57.51	156.92	157.05	155.50	155.92
J	1	4.1.2016	1st	5.50	6.00	5.67	5.33	6.67	7.67	7.50	6.67	56.92	56.51	56.74	56.19	155.45	154.09	155.85	155.90
A	2	7.1.2016		5.67	6.50	6.50	6.67	7.00	7.17	7.50	7.50	58.77	57.06	55.50	57.41	157.14	156.54	155.77	156.02
N	3	11.2.2016	2nd	6.00	5.83	6.67	6.00	7.00	6.83	6.67	7.00		58.35	57.06	58.17	156.64	156.58	156.71	156.16
U	4	14.2.2016		5.67	6.50		5.67	7.50	7.00	7.50	6.33		59.85	56.62	58.54	156.77	157.35	155.45	157.50
A	5	18.1.2016	3rd	6.17	6.00	6.83	5.50	7.17	7.17	7.50	6.67	55.26	57.99	57.43	58.51	154.56	156.25	155.90	156.31
R	6	21.1.2016		5.67	6.33	6.83	5.83	6.50		7.17	6.17	57.43	56.45	56.02	56.74	155.44	155.51	155.50	155.63
Y	7	25.1.2016	4th	6.33	5.67	6.83	6.50	7.17	6.33	7.17	7.00	56.94	57.71	57.12	57.31	155.73	156.92	156.14	156.46
	8	28.1.2016		6.00	6.00	5.50	6.50	7.50	7.67	6.50	7.67	57.10	56.25	56.92	58.45	156.34	155.79	154.38	156.94
F	1	2.2.2016	1st	5.83	6.00	6.83	6.50	6.50	7.17	7.67	7.17	58.54	58.36	58.36	60.81	159.44	160.55	159.01	161.81
E	2	5.2.2016		6.33	6.00	5.83	5.50	7.00		6.50	6.17		57.13	56.29	59.88	159.43	157.95	159.08	163.08
В	3	9.2.2016	2nd	5.83	5.83		6.50	6.50		7.00	7.50		59.09		58.87	159.96	160.82	159.90	162.48
R	4	12.2.2016		6.50	6.33	6.17	5.83	7.00	7.50	7.50	6.83		58.87	59.77	59.91	160.71	159.98	160.86	160.43
U	5	16.2.2016	3rd	6.17	6.50	6.50	6.50	7.83	7.50	7.50	7.50	58.02	57.09	58.80	57.68	159.89	158.75	159.38	160.67
A	6	19.2.2016	-				6.17					_	_	_	58.04		159.53		
R Y	7	23.2.2016	4th														160.76		
1	8	26.2.2016	-	5.50	6.17			6.83									159.84		160.91
	1	1.3.2016	1st														159.89		
,.	2	4.3.2016	-														159.87		
M	3	8.3.2016	2nd														160.76		
A	4	11.3.2016	-										57.41			165.77	159.19		160.37
R	5	15.3.2016	3rd														160.99		
С	6	18.3.2016	-				6.17		6.67				58.04				159.90		
Н	7	22.3.2016	4.3				5.83						57.47		57.75				
	8	25.3.2016	4th	_								_	58.29	_			159.13		160.01
-	9 29.3.2016														59.77		161.34		
-		Minimum															154.09		
		Maximum					6.83						59.85		60.81			161.63	
Average					6.15	6.22	6.16	7.14	7.16	7.19	7.05	58.04	58.12	57.78	58.12	157.57	157.52	157.35	157.63

Panchagavi Laterite Mines, (Karnataka) (Unit of J.K. Cement Ltd.)

Month	Date	Monitoring Location	Parameter PM 2.5 (μg/m ³)
	5.10.2015	A	38.5
0-4 15	8.10.2015	В	40.2
Oct-15	10.10.2015	С	36.5
	14.10.2015	D	42.5
	4.11.2015	A	35.2
Nov-15	8.11.2015	В	34.8
NOV-13	10.11.2015	С	40.2
	12.11.2015	D	38.5
	4.12.2015	A	40.2
Dec-15	8.12.2015	В	35
Dec-13	10.12.2015	С	37.6
	12.12.2015	D	38.2
	9.1.2016	A	38.5
Jan-16	12.1.2016	В	40.2
Jan-10	14.1.2016	С	36.4
	16.1.2016	D	37.5
	10.2.2016	A	40.2
Feb-16	14.2.2016	В	38.5
1.60-10	17.2.2016	С	35.6
	22.2.2016	D	38.4
	3.3.2016	A	39.6
Mar-16	5.3.2016	В	40.5
1 v1a1-1 0	8.3.2016	С	36.2
	10.3.2016	D	37.5
	Minimum		34.8
	Maximum		42.5
	Average		38.1875

Panchagavi Laterite Mines, (Karnataka)

(Unit : J.K. Cement Ltd.)

Half Yearly Fugitive Emission Monitoring Report of Panchagavi Laterite Mines for the month of Oct-2015 to Mar-2016

		SPM (μg/m³)								
Sl. No.	Month/Year	Loading Area	Drilling Area	Haulage Area	Waste Dumping Site	Service Road				
1	Oct-15	472.93	499.1	461.6	486.2	535.1				
2	Nov-15 511.40		504.3	461.5	463.9	466.2				
3	Dec-15	603.82	491.7	540.3	484.6	453.5				
4	Jan-16	537.76	505.1	407.3	491.0	447.6				
5	Feb-16	559.03	559.0	495.2	526.9	493.4				
6	Mar-16	547.19	487.3	497.9	491.8	481.4				
Minimum		472.9	487.3	407.3	463.9	447.6				
Maximum		603.8	8 559.0 540.3		526.9	535.1				
Α	verage	538.7	507.8	477.3	490.7	479.5				

PANCHAGAVI LATERITE MINES (Karnataka)

(Unit: J.K. Cement Ltd.)

Noise monitoring report of Panchagavi mines (Core zone) for the month of Oct-2015 to Mar-2016

SI.No.	Time	Month	Panchagavi Mines boundary	Panchagavi Mines Office	Panchagavi mines Drilling Time	Panchagavi mines Waste dumping site	Panchagavi mines Service Road
1	Day	Oct-15	51.6	53.2	60.8	48.4	46.8
_	Night	OCI-15	40.5	41.4	-	38.8	36.6
2	Day	Nov-15	50.5	52.4	59.9	47.6	47.3
2	Night	1404-12	39.2	40.9	-	38	36.2
3	Day	Dec-15	48.9	45.6	60.5	50.4	53.6
3	Night	Dec-12	38.6	46.5	-	42.1	44.5
4	Day	Jan-16	48.5	50.6	60.8	45.6	50.2
7	Night	Jan-10	35.5	40.6	_	34.2	38.8
5	Day	Feb-16	48.5	44.6	56.2	48.8	46.2
3	Night	Lep-10	39.8	35.6	_	37.5	35.2
	Day		50.4	46.5	54.2	47.5	45.6
6	Night	Mar-16	40.5	38.5	-	36.6	38.5

Occupational Health Survey

Date: 04.01.16

As State level Environmental clearance under section 3(3) of E (P) Act, 1986)

Letter No.: SEIAA 107 MIN 2014. Date: 24.12.2014

As per the Panchagavi EC General conditions no. (8) Occupational health surveillance program of the workers of Panchagavi Laterite Mine should be undertaken periodically

i.e. once in 3 (Three) months to observe any contractions due to exposure to dust and take corrective measures, if needed. In this regards following workers examined by OHS Doctor for Medical Examination during the end of the quarter October 2015 To December 2015:

				B-Form	Date of
Si.NO	Name	Designation	Age	No.	joining
(1+-	Venkappa.L.Sokanadagi	Tipper Driver	45 years	13	20.06.15
2	Deepak .D.Bondre	Tipper Driver	25 Years	19	20.06.15
3	Kamal Singh	Tipper Driver	24 Years	21	20.06.15
4	Manjunath .L. Halaki	Tipper Driver	27 Years	15	17.06.15
5	HanumanthChalavadi	Tipper Driver	24 Years	14	17.06.15
6	Ravi.L.Halaki	Tipper Driver	35 Years	17	17.06.15
7	Ashok.S.Ballari	Pit Supervisor	35Years	27	02.07.15
8	Venktesh.B.Narayankar	Pit Supervisor	37 Years	3	17.06.15
9	Sandal Malik	Exc. Operator	25Years	24	02.07.15
10	Mahesh Budhihal	Tipper Driver	27 Years	18	20.06.15
11	Shiddappa.P. Machaknur	Tipper Driver	32 Years	12	17.06.15
12	Lokanna.A.Aadimani	Tipper Driver	25Years	20	20.06.15

Remarks: All workers found free from any effect of dust.

Jk cement Works, Muddapur

Occupational Health Physician Reg No:43,519 (KMC)

& 1016 (CLI, DGFASLI)

Mine Manager

Panchagavi Laterite Mine

Mines Manager Panchagavi Laterite Mine

Occupational Health Survey

Date: 05.04.2016

As State level Environmental clearance under section 3(3) of E (P) Act, 1986)

Letter No.: SEIAA 107 MIN 2014. Date: 24.12.2014

As per the Panchagavi EC General conditions no. (8) Occupational health surveillance program of the workers of Panchagavi Laterite Mine should be undertaken periodically

I.e. once in 3 (Three) months to observe any contractions due to exposure to dust and take corrective measures, if needed. In this regards following workers examined by OHS Doctor for Medical Examination during the end of the quarter January 2016 To March 2016:

Occupational Health Survey Of Employees Of Panchagavi Laterite Mine								
Si.NO	Name	Designation	Age	B-Form No.	Date of joining			
1	Venkappa.L.Sokanadagi	Tipper Driver	45 years	13	20.06.15			
2	Deepak .D.Bondre	Tipper Driver	25 Years	19	20.06.15			
3	Kamal Singh	Tipper Driver	24 Years	21	20.06.15			
4	Manjunath .L. Halaki	Tipper Driver	27 Years	15	17.06.15			
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Remarks: All workers found free from any effect of dust.

Dr. Vidya kiran

J.k.Cement works, Muddapur M.B.A.

Occupational Health Physician Reg No:43,519 (KMC)

& 1016 (CLI,DGFASLI)

Mines Manager Panchagavi Laterite Mine

Mines Manager Panchagavi Laterite Mine