



JK Cement WORKS

MUDDAPUR

(Unit : J.K. Cement Ltd.)

CIN : L17229UP1994PLC017199

Phone : +91-8350-289000

Fax : +91-8350-289001

E-mail : factory.muddapur@jkcement.com

Works : P.O. Muddapur - 587 122

Dist. Bagalkot (Karnataka) India

No. - JKCW/ENV./Panchagavi Mine/57/14

Date: 11-09-2017

The Member Secretary
Karnataka State Pollution Control Board,
"Parisar Bhavan" 4th & 5th Floor,
49, Church Street, Bangalore- 560 001

Subject- **Environmental Statement Report (Form-V) of Panchagavi Laterite Mine, Village- Panchagavi, Taluka- Ramdurg, Dist. - Belgaum (Karnataka) for the financial year April-2016 to March-2017**

Dear Sir

As per 14 of Environment (Protection) Rule 1986, please find herewith enclosed Environmental Statement Report of Panchagavi Laterite Mine, Village- Panchagavi, Taluka- Ramdurg, Dist. - Belgaum (Karnataka) in **Form V** for the financial year **2016-2017** for your kind information and record, please.

Thanking you,

Yours faithfully,
Panchagavi Laterite Mine
(Unit- JK Cement Ltd.)

ky
R.B.M. Tripathi
(Unit Head)

Encl:

- 1- Duly filled Form-V as Environmental Statement Report
- 2- Ambient Air Quality Monitoring report as per Annexure-1
- 3- Fugitive emission report as per Annexure-2
- 4- Noise Monitoring report as per Annexure-3

CC:

- 1- The Addl. Principle Chief Conservator of Forest (C), Ministry of Environment & Forests, Regional Office (South Zone), Bangalore- 560034
- 2- Scientist 'E' & In-charge, Central Pollution Control Board, 1st & 2nd Floors, Nisarga Bhavan, A-Block, Thimmaiah Main Road, 7th D Cross, Shivanagar, Bengaluru -560 079
- 3- Environmental Officer, KSPCB, Plot No-1, Autonagar, Kanabargi Indl Area, Belgaum-590015

Registered & Corporate Office :

Kamla Tower, Kanpur - 208 001 (U.P.)
Ph. : 0512-2371478-81 Fax : 0512-2399854
E-mail : ho.grey@jkcement.com
Website : www.jkcement.com

Central Marketing Office :

4th Floor, Krsna Chambers, Plot no. 11, Galaxy Garden
North Main Road, Koregaon Park, Pune - 411001
Ph. : 020 -41350000 Fax : 020 - 41350099
E-mail : cmo.south@jkcement.com



FORM – V

ENVIRONMENTAL STATEMENT REPORT FOR FINANCIAL YEAR 2016-17

M/s Panchagavi Laterite Mine (Unit: J. K. Cement Limited)

PART – A

(I)	Name & Address of the Owner / Occupier of the Industry Operation or Process	R.B.M. Tripathi (Unit Head) Panchagavi Laterite Mine (Unit: J. K. Cement Limited) Village-Panchagavi, Taluka- Ramdurg, District- Belgaum (Karnataka)
(II)	Industry Category Primary (STC CODE) Secondary (SIC CODE)	Red Category
(III)	Production Capacity	30000 TPA
(IV)	Year of Establishment	Year 2015
(V)	Date of last Environmental Statement Submitted	24-08-2016

PART – B

Water & Raw Material Consumption and Lime stone production

A. Water

- (i) Over All Consumption -
Process (Dust Suppression) - 359.0 KL
Cooling - N.A.
Domestic - 36.4 KL
- (ii) Consumption per unit of production

Name of the Product	Process Water Consumption per unit of Product Output (KL/MT of Laterite)	
	During the Current Financial Year (2015-16)	During the Current Financial Year (2016-17)
Laterite	0.01547	0.01213

B. Raw Material Consumption

Name of the Raw Material	Name of Product	Consumption of Raw Material per Unit Product Output (MT/MT of Laterite)	
		During the Current Financial Year (2015-16)	During the Current Financial Year (2016-17)
N.A	N.A	N.A	N.A

C. Total Laterite Production (In Tons)

During the Current Financial Year (2015-16)	During the Current Financial Year (2016-17)
30000	29600

D. Total Power consumption (KWH/ton of Laterite)

During the Current Financial Year (2015-16)	During the Current Financial Year (2016-17)
Nil	Nil

PART - C**Pollutant Discharged To Environment / Unit of Output**

(Parameters as specified in the consent issued)

S. No.	Pollutants	Quantity of Pollutants Discharged (Mass / day) (tonne/day)	Concentrations of Pollutants in discharged (Mass / Volume) (kg/m ³)	Percentage of variation from prescribed standard with reasons
(a)	Water	There is no waste water in the mine. There is no water in Mine's pit also.		
(b)	Air	There is no point source emission in mine. Ambient air quality, fugitive emission monitoring report and Noise monitoring report as per Annexure- 1, 2 and 3 respectively.		

PART - D

(As specified under Hazardous waste / Management and Handling rules, 1989 as Amended -2008)

Hazardous waste	During the Current Financial Year (2015-16)	During the Current Financial Year (2016-17)
No hazardous waste is generated in mine.		

PART - E**Solid Wastes**

Solid Waste	Total Quantity	
	During the Current Financial Year (2015-16)	During the Current Financial Year (2016-17)
(a) From Process	N.A.	
(b) From Pollution Control facilities	N.A.	
(c) (i) Qty. recycled or reused Within the unit.	N.A.	
(ii) Sold	N.A.	
(iii) Disposed: During the mining of limestone disposed of overburden (In MT)	Nil	880.00

PART - F**PLEASE SPECIFY THE CHARACTERISATIONS (IN TERMS OF COMPOSITION AND QUANTUM) OF HAZARDOUS AS WELL AS SOLID**

WASTES AND INDICATE DISPOSAL PRACTICE ADOPTED FOR BOTH THE CATEGORIES OF WASTES.

Hazardous waste: No hazardous waste is generated in mines.

Solid waste: Solid waste from the mine is overburden and it is dumped in predetermined dumping area. The total overburden generated from the April-2016 to March-2017 was 880.00 MT.

PART – G

IMPACT OF THE POLLUTION ABATEMENT MEASURES TAKEN ON CONSERVATION OF NATURAL RESOURCES AND ON THE COST OF PRODUCTION.

AIR

There is no harmful impact observed on vegetation & water bodies in the surrounding areas due to mining activities because dust is suppressed at its generating sources.

The following measures are taken to suppress the dust at the source as well as to prevent the same, spreading in the atmosphere:

- 1- Regular water sprinkling to suppress the dust on haul roads, service roads and mining face by truck mounted water tankers
- 2- Proper maintenance of the equipment and vehicles, checking of exhaust emissions and imposing of speed restrictions on them
- 3- We are not drilling.
- 4- Plantation and development of Green Belt.

WATER

Water is used only for road Spraying and Green Belt Development. At Panchagavi Laterite Mine, there is no discharged of liquid effluent / waste water from the Mine.

No discharge of rain water or waste water from the mine to outside lease area. If any rain water will be found then it will be diverted through drainage in to lower level area of mine and that water will be used for dust suppression and plantation purpose.

NOISE

Noise is generated in the mine due to following mining activities:

- 1- There is no blasting in mine.
- 2- Proper and timely maintenance of mining machinery is being done.
- 3- Plantation all along the lease boundary is being done.

Excavation, drilling, blasting and operations of HEMM.

PART – H

ADDITIONAL MEASURES / INVESTMENT PROPOSALS FOR ENVIRONMENTAL PROTECTION INCLUDING ABATEMENT POLLUTION, PREVENTION OF POLLUTION.

Green belt development and tree plantation is our ongoing process. Plantation has been done surrounding the ML area leaving the safety zone i.e. 7.5 mtr. Every year

Plantation within safety zone along mines lease boundary. Plantation details are following.

Year	No. of trees planted
2015-2016	160
2016-2017	100

PART – I

ANY OTHER PARTICULARS FOR IMPROVING THE QUALITY OF ENVIRONMENT.

- Regular water spraying is being done on haulage road and near loading places for effective dust suppression.
- Thick plantation in and around the mine is being done.
- Regular and proper maintenance of noise generating machinery including the transport vehicles is being done to maintain noise levels.
- Air quality is being regularly monitored.
- We are providing all personal protective equipment (PPEs) to all mine employees i.e. dust mask (respirator), ear plug & ear muff, eye goggle etc.
- We are having full flash environmental laboratory for the monitoring of ambient air quality, water testing, noise monitoring etc.
- Company publishes its magazine i.e. JK Spotlight. Environmental messages also printed in it.
- Water harvesting pit constructed for accumulate rain water.
- Silt tank & gully checks have been constructed to arrest silt.
- Constructed the water garland along mine lease boundary to divert rain water.

For Panchagavi Laterite Mine, Panchagavi (Karnataka)
(Unit: J.K. Cement Limited)


R.B.M. Tripathi
(Unit Head)

PANCHAGAVI LATERITE MINES, (KARNATAKA)

(Unit: Jk Cemet Ltd.)

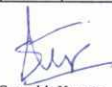
YEARLY AAQM REPORT (SO₂, NO₂, PM 10, SPM) FOR THE MONTH OF APRIL-2016 TO MARCH-2017

(ALL VALUES IN MICROGRAMS / CUBIC METER)

Month	Sl. No.	Date	Week	SO ₂				NO ₂				PM 10				SPM			
				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	1.4.2016	1st	6.3	6.0	6.5	5.7	7.7	7.2	7.2	6.7	59.0	59.8	59.4	59.0	160.4	160.6	160.8	160.8
	2	5.4.2016		6.2	6.7	6.0	6.5	7.5	7.5	7.0	7.7	59.2	57.9	58.8	58.2	159.5	158.9	160.6	160.1
	3	8.4.2016	2nd	6.8	6.3	5.8	6.0	7.0	7.5	6.5	7.5	58.2	59.4	59.3	59.1	160.8	160.0	160.9	160.1
	4	12.4.2016		5.8	5.8	5.5	5.8	6.7	6.5	6.5	6.7	59.1	58.6	59.5	58.2	156.8	162.0	159.7	159.7
	5	15.4.2016	3rd	5.8	6.5	5.8	5.8	6.8	7.5	6.2	6.5	58.2	57.8	57.4	57.9	160.5	158.4	159.0	159.1
	6	19.4.2016		6.5	6.0	6.5	6.2	7.0	7.2	7.5	7.5	57.0	59.0	57.2	57.9	158.4	160.1	158.7	159.4
	7	22.4.2016	4th	5.3	6.8	5.8	6.7	6.7	7.5	6.8	7.2	58.8	58.2	59.7	59.5	159.6	158.6	160.9	159.3
	8	26.4.2016		6.2	5.7	5.8	5.8	7.2	6.3	6.2	6.7	59.4	56.9	60.6	57.9	159.7	158.7	160.4	159.8
	9	29.4.2016		5.5	5.5	6.0	5.5	6.0	6.5	7.5	6.5	57.3	57.8	58.3	60.1	159.1	158.0	159.0	160.9
M A Y	1	3.5.2016	1st	5.7	5.7	5.7	6.2	7.7	7.0	6.8	7.3	59.7	59.6	59.6	59.5	160.8	160.9	160.2	160.9
	2	6.5.2016		6.7	5.5	6.2	6.7	7.5	6.5	7.2	7.2	58.0	57.9	58.2	57.7	159.6	159.4	159.9	158.0
	3	10.5.2016	2nd	6.5	5.7	6.8	6.8	7.8	6.7	7.5	7.2	58.8	58.9	59.6	58.2	159.7	159.4	160.4	159.7
	4	13.5.2016		5.3	6.0	5.8	5.8	7.0	7.5	6.5	6.7	59.4	59.9	58.5	59.6	160.1	160.7	159.2	160.6
	5	17.5.2016	3rd	6.3	6.2	5.7	6.5	7.7	7.0	6.7	7.7	58.3	57.9	57.9	58.3	159.3	159.3	158.0	160.4
	6	20.5.2016		6.3	6.7	6.5	5.8	7.3	7.3	7.2	6.7	57.1	58.8	58.9	59.4	158.6	160.0	159.1	160.3
	7	24.5.2016	4th	6.7	6.0	6.3	6.8	7.7	7.0	7.5	7.5	59.8	59.1	59.2	60.1	160.5	160.2	160.7	161.1
	8	27.5.2016		6.5	6.0	6.0	5.3	7.3	7.0	7.5	6.7	59.1	58.1	59.1	57.7	160.2	159.5	160.2	159.6
	9	31.5.2016		5.5	5.5	5.5	5.5	6.5	6.5	6.5	6.0	57.5	59.2	59.2	59.9	159.0	160.9	160.7	160.8
J U N E	1	3.6.2016	1st	5.8	5.7	5.7	6.2	6.5	7.3	6.8	7.0	57.2	59.0	59.8	59.4	159.6	160.3	160.7	160.7
	2	7.6.2016		5.5	5.5	6.2	6.7	6.5	7.5	7.2	6.8	60.0	60.6	57.0	58.5	160.5	161.4	159.8	160.4
	3	10.6.2016	2nd	6.2	5.7	6.8	6.8	7.0	7.0	7.5	7.0	58.7	59.5	58.3	58.0	159.2	161.6	159.8	158.7
	4	14.6.2016		6.0	6.0	5.8	5.8	7.0	6.7	6.5	7.0	60.5	58.3	57.9	57.8	161.4	159.9	159.6	160.3
	5	17.6.2016	3rd	5.5	6.2	5.7	6.5	6.5	7.0	6.7	7.3	58.1	58.2	57.8	58.5	160.5	159.6	159.8	159.8
	6	21.6.2016		6.0	6.7	6.5	5.8	7.0	7.0	7.2	7.0	57.1	59.8	60.3	57.9	159.6	160.4	161.5	160.2
	7	24.6.2016	4th	6.0	6.0	6.3	6.8	7.0	7.5	7.5	7.0	59.8	59.9	59.6	59.0	160.4	160.7	160.0	160.5
	8	28.6.2016		5.5	6.0	6.0	5.3	6.5	7.0	7.5	7.0	57.9	58.6	58.7	58.4	158.7	160.5	159.4	160.8
J U L Y	1	4.7.2016	1st	5.7	5.5	6.0	6.3	6.8	6.8	7.5	7.0	59.0	58.2	58.1	59.7	160.9	158.6	158.8	161.2
	2	5.7.2016		5.5	6.5	6.0	6.0	6.2	7.5	7.0	7.5	57.2	60.5	60.1	57.5	159.0	161.1	161.2	159.2
	3	8.7.2016	2nd	6.2	5.2	6.8	6.7	7.0	6.5	7.2	7.5	59.0	58.3	59.4	58.4	161.2	160.6	159.8	159.6
	4	12.7.2016		6.5	6.2	6.0	5.5	7.0	7.5	7.0	6.8	58.9	57.5	59.5	59.5	160.3	159.4	161.0	160.1
	5	15.7.2016	3rd	5.8	6.5	6.8	6.2	6.3	7.2	7.5	7.3	59.9	60.1	58.3	61.2	160.6	161.1	160.1	160.9
	6	19.7.2016		6.2	5.5	6.7	6.0	7.2	6.2	7.5	7.0	59.6	57.2	58.2	59.5	160.6	158.9	159.6	160.1
	7	22.7.2016	4th	6.0	6.8	6.2	6.7	7.0	7.3	7.5	7.5	58.5	58.5	57.7	58.9	161.8	159.8	159.6	160.2
	8	26.7.2016		6.0	5.7	5.2	5.8	7.5	6.5	6.7	6.3	59.0	59.3	58.5	57.2	159.3	159.2	158.8	158.9
	9	29.7.2016		5.5	6.0	6.5	5.5	6.5	7.5	7.5	6.5	57.2	59.5	59.3	57.0	158.6	160.4	159.6	158.0
A U G U S T	1	2.8.2016	1st	5.8	5.8	6.0	5.8	6.3	6.5	7.7	6.5	60.3	59.2	60.9	59.6	162.1	161.1	161.1	160.2
	2	5.8.2016		5.7	6.2	5.8	5.5	6.2	7.0	6.7	6.5	59.4	60.7	58.1	60.5	161.4	161.1	159.9	161.7
	3	9.8.2016	2nd	5.5	5.3	6.5	5.0	6.7	6.8	7.8	6.0	61.7	59.7	58.5	58.8	161.9	160.1	160.9	159.9
	4	12.8.2016		6.0	6.7	6.5	5.5	7.3	7.2	7.5	6.3	58.6	57.8	57.0	57.5	158.9	158.1	157.3	157.3
	5	16.8.2016	3rd	5.7	6.2	6.0	6.3	6.8	7.0	7.0	7.5	58.1	57.3	57.9	57.2	158.5	158.4	158.4	157.9
	6	19.8.2016		5.7	5.5	5.5	5.8	6.8	6.3	6.5	6.3	56.1	57.2	57.0	55.3	157.8	158.0	157.9	155.1
	7	23.8.2016	4th	6.0	6.3	6.8	6.7	7.0	7.3	7.5	7.7	57.8	55.9	56.6	56.7	158.3	155.5	157.7	157.7
	8	26.8.2016		5.8	6.0	6.7	5.8	6.8	7.0	7.5	6.7	54.8	56.6	55.1	56.7	156.0	157.1	156.5	155.7
	9	30.8.2016		5.5	6.5	5.5	5.0	6.5	7.5	6.5	6.5	53.5	52.1	53.6	54.1	155.1	153.7	154.6	155.3
S E P T E M B E R	1	2.9.2016	1st	6.2	6.8	6.0	5.5	7.3	7.3	7.3	6.5	56.1	54.4	56.1	55.8	157.4	156.0	157.2	156.1
	2	6.9.2016		6.8	6.5	6.2	6.2	7.0	7.5	7.0	7.5	57.8	56.9	57.8	56.4	158.1	157.4	158.8	157.8
	3	9.9.2016	2nd	6.3	5.8	6.2	6.7	7.3	7.2	7.3	7.5	58.3	57.5	56.0	55.9	160.6	159.6	158.1	156.2
	4	13.9.2016		6.0	6.2	5.8	5.5	7.2	7.3	6.7	6.3	56.6	56.6	55.0	56.0	157.9	158.1	155.0	157.4
	5	16.9.2016	3rd	5.5	6.3	6.5	6.8	6.8	7.5	7.5	7.5	53.5	52.2	53.9	54.0	156.6	155.4	154.9	155.6
	6	20.9.2016		6.0	6.7	6.7	6.2	7.2	7.5	7.2	7.0	56.8	55.8	56.7	58.6	157.3	156.1	158.1	159.8
	7	24.9.2016	4th	6.2	6.5	5.5	6.0	7.0	7.0	7.2	7.0	57.9	56.9	57.2	57.1	158.2	158.6	158.9	159.6
	8	28.9.2016		6.0	6.3	5.5	6.8	7.5	7.0	6.8	7.0	56.3	59.8	56.2	57.8	157.1	160.1	158.4	158.5
	9	30.9.2016		6.5	5.5	5.5	5.5	7.5	6.0	6.0	6.5	57.9	56.8	58.0	56.8	158.0	158.4	158.7	158.0

O C T O B E R	1	4.10.2016	1st	6.0	5.0	5.8	6.3	7.5	6.3	6.7	7.0	57.8	56.9	57.3	56.7	158.5	157.8	158.5	158.0
	2	7.10.2016		5.5	6.5	5.8	6.3	6.5	7.5	6.5	7.0	56.6	55.3	56.5	57.6	158.1	156.2	157.3	159.7
	3	12.10.2016	2nd	6.5	6.8	6.2	6.2	7.5	7.5	7.3	7.3	56.3	57.3	57.9	56.6	157.1	158.9	158.6	157.6
	4	15.10.2016		5.5	6.0	6.5	5.8	6.8	7.2	7.5	6.0	57.8	57.2	56.2	57.9	158.2	158.5	157.4	158.2
	5	19.10.2016	3rd	6.3	6.5	5.5	6.5	7.2	7.5	6.5	7.5	56.3	56.5	56.9	56.3	157.3	157.6	158.5	158.1
	6	22.10.2016		6.5	6.3	6.3	5.8	7.5	7.5	7.3	6.2	57.3	57.2	57.2	56.2	159.7	158.9	159.0	158.2
	7	26.10.2016	4th	6.5	5.2	6.8	5.8	7.7	6.5	7.0	6.3	57.0	56.6	57.4	57.6	158.7	157.5	159.3	158.6
	8	29.10.2016		6.2	6.2	6.3	6.0	7.0	7.0	7.3	7.0	58.0	56.2	55.1	57.2	158.7	157.3	157.8	159.5
N O V E M B E R	1	4.11.2016	1st	5.7	6.0	5.5	6.0	6.8	7.5	6.8	7.0	57.5	57.3	57.5	56.3	158.7	158.9	158.9	157.9
	2	8.11.2016		5.5	6.0	6.5	6.3	6.3	7.0	7.3	7.5	56.7	56.0	56.5	57.2	157.3	156.9	157.2	158.6
	3	11.11.2016	2nd	6.2	5.0	5.2	6.2	7.2	6.8	6.7	7.0	56.0	58.6	57.5	57.0	157.5	159.8	158.3	158.2
	4	15.11.2016		6.0	5.5	6.2	5.5	7.5	6.2	7.2	6.8	57.5	56.2	55.9	58.5	158.3	157.1	156.9	159.1
	5	18.11.2016	3rd	5.8	5.7	5.8	6.3	6.2	6.5	6.2	7.0	56.3	55.6	54.3	56.5	157.6	156.3	156.1	157.3
	6	22.11.2016		6.2	5.5	5.8	6.0	7.5	6.8	6.7	7.0	57.7	57.5	57.0	57.6	158.5	158.6	158.2	155.9
	7	25.11.2016	4th	5.8	5.2	6.0	6.5	6.8	6.3	7.2	7.5	57.6	56.0	56.2	58.2	158.0	158.4	158.1	160.9
	8	29.11.2016		6.3	6.8	6.3	5.8	7.2	7.3	7.5	6.8	56.8	56.1	56.5	55.7	157.8	157.2	157.8	157.4
D E C E M B E R	1	2.12.2016	1st	6.5	5.7	7.2	6.7	7.2	6.3	8.2	7.5	55.2	56.9	56.8	56.3	157.2	157.2	157.5	157.5
	2	6.12.2016		6.3	6.3	7.2	7.0	7.5	7.0	8.0	8.0	57.8	57.5	57.8	57.2	158.3	158.7	158.2	158.0
	3	9.12.2016	2nd	5.8	6.8	6.3	6.0	6.3	7.0	7.5	7.5	56.2	57.7	55.9	57.1	159.0	158.8	156.3	158.4
	4	13.12.2016		6.2	6.2	7.2	6.3	7.5	7.2	8.0	7.5	56.7	56.8	56.1	56.2	157.8	157.1	158.0	157.5
	5	16.12.2016	3rd	7.2	7.0	6.7	6.7	8.3	8.2	7.2	7.5	56.3	56.2	55.1	57.5	157.6	157.4	156.6	158.1
	6	20.12.2016		6.7	6.5	7.0	7.0	7.5	7.5	8.0	8.2	56.0	57.0	56.0	56.6	157.0	159.0	157.8	157.9
	7	23.12.2016	4th	6.5	6.5	6.7	7.0	7.3	7.5	7.5	8.3	57.2	56.5	55.0	57.3	158.3	157.4	157.7	158.7
	8	27.12.2016		6.2	6.7	6.5	6.3	7.5	7.0	7.5	7.5	56.6	56.3	57.3	56.5	157.3	157.1	158.5	157.4
	9	30.12.2016		5.5	5.5	5.5	5.5	6.5	6.5	6.5	6.5	57.9	57.6	55.1	57.6	159.0	158.5	156.9	158.8
J A N U A R Y	1	3.01.2017	1st	6.5	6.0	6.3	6.0	7.7	7.5	7.5	7.5	58.0	58.5	57.1	56.9	159.7	159.4	158.9	159.2
	2	6.01.2017		6.2	5.3	5.8	5.8	7.5	6.7	6.3	6.5	59.6	56.8	56.8	55.7	161.7	158.1	159.4	159.3
	3	10.01.2017	2nd	5.5	5.8	6.5	6.5	6.7	6.8	7.5	7.5	57.0	59.4	56.9	58.1	159.4	160.0	158.0	159.1
	4	13.01.2017		6.5	6.5	6.7	6.5	8.0	7.5	7.7	8.3	56.7	57.5	58.0	56.9	157.4	158.9	160.0	158.3
	5	17.02.2017	3rd	7.2	7.5	6.7	7.0	8.0	8.5	8.5	8.3	58.2	56.9	55.7	57.7	159.7	157.8	156.2	159.8
	6	20.01.2017		6.5	7.5	7.5	6.8	7.3	9.5	9.0	8.5	57.5	58.0	56.3	57.3	159.5	159.9	157.1	158.8
	7	24.01.2017	4th	6.5	7.0	7.0	7.0	8.5	8.7	8.5	8.5	56.6	56.3	56.7	58.1	159.9	159.5	157.3	159.0
	8	28.01.2017		7.0	7.0	7.5	7.5	8.5	8.5	9.0	8.3	57.1	57.5	57.7	57.8	159.6	159.7	158.2	158.2
F E B R U A R Y	1	1.02.2017	1st	7.0	6.7	7.0	7.5	8.5	7.5	8.0	8.2	57.3	56.9	57.5	57.9	159.4	158.9	159.8	158.8
	2	4.02.2017		6.3	7.5	6.8	6.7	8.0	8.2	7.5	8.3	58.4	58.4	56.6	58.4	159.7	159.2	158.5	156.9
	3	8.02.2017	2nd	7.5	7.2	7.2	6.5	8.5	8.2	8.0	7.5	57.0	57.0	56.0	57.5	158.7	158.3	157.9	158.0
	4	11.02.2017		7.5	7.5	7.5	7.5	8.8	8.5	8.8	8.0	56.7	58.2	57.0	57.9	159.5	159.1	158.3	158.2
	5	15.02.2017	3rd	6.2	6.7	7.5	7.5	8.8	8.0	8.5	8.2	58.0	57.1	58.7	58.1	159.9	159.1	159.0	159.9
	6	18.02.2017		7.3	7.5	6.5	6.8	8.5	8.2	7.8	8.2	59.4	58.4	59.3	57.7	161.0	159.0	160.1	159.3
	7	22.02.2017	4th	7.5	6.7	7.5	7.5	8.5	7.5	8.0	8.5	58.4	59.4	57.5	56.2	159.8	160.3	158.5	157.6
	8	25.02.2017		6.5	7.5	7.5	7.5	7.5	8.5	8.5	8.5	57.7	57.7	56.6	57.5	159.1	159.1	159.1	159.6
M A R C H	1	1.03.2017	1st	7.1	7.1	7.1	6.5	7.5	7.5	7.5	6.8	57.9	57.6	56.2	58.3	159.3	159.0	157.1	158.9
	2	4.03.2017		7.3	7.0	7.2	6.7	7.5	7.6	7.5	6.9	56.3	58.2	58.4	56.0	158.2	159.1	160.1	157.9
	3	8.03.2017	2nd	6.5	6.5	7.5	6.9	8.1	6.8	7.8	7.2	59.7	59.0	56.6	58.2	161.4	160.5	158.4	159.8
	4	11.03.2017		6.8	7.5	6.0	7.1	7.0	7.8	6.5	7.5	57.7	58.3	59.4	54.1	159.6	158.5	159.9	152.2
	5	15.03.2017	3rd	7.5	8.0	6.5	7.5	7.9	8.5	6.8	7.8	58.8	58.8	57.5	58.9	161.0	159.0	158.0	159.8
	6	18.03.2017		8.1	8.5	6.8	7.8	8.5	8.9	7.0	7.9	59.8	56.0	58.4	58.4	159.9	156.3	159.5	160.4
	7	22.03.2017	4th	8.0	8.2	7.1	7.5	8.5	8.5	7.5	7.9	59.5	58.4	59.8	58.1	160.4	158.5	159.9	158.5
	8	25.03.2017		8.5	7.1	7.4	6.5	8.6	7.5	7.6	7.1	57.3	58.6	59.2	57.7	157.7	159.0	159.5	158.4
	9	30.03.2017		8.7	8.5	8.0	6.0	8.9	8.7	8.5	2.0	59.8	58.9	59.0	58.9	160.5	159.3	159.9	160.3
Minimum				5.3	5.0	5.2	5.0	6.0	6.0	6.0	2.0	53.5	52.1	53.6	54.0	155.1	153.7	154.6	152.2
Maximum				8.7	8.5	8.0	7.8	8.9	9.5	9.0	8.5	61.7	60.7	60.9	61.2	162.1	162.0	161.5	161.7
Average				6.3	6.3	6.4	6.3	7.3	7.3	7.3	7.2	57.8	57.7	57.6	57.7	159.1	158.9	158.8	158.9


 V. S. Saini
 Monitored by


 Dr. Saurabh Kumar
 Mgr.(Env).

Panchagavi Laterite Mines, (Karnataka)


(Unit of J.K. Cement Ltd.)

PM_{2.5} MONITORING REPORT FROM APRIL-2016 TO MARCH-2017

Site	Month	Date	Monitoring Location	Parameter PM _{2.5} (µg/m ³)
Panchagavi Mines	Apr-16	4.4.2016	A	40.2
		6.4.2016	B	38.6
		9.4.2016	C	36.4
		12.4.2016	D	39.6
Panchagavi Mines	May-16	5.5.2016	A	35.2
		9.5.2016	B	40.6
		11.5.2016	C	32.8
		13.5.2016	D	41.5
Panchagavi Mines	Jun-16	20.6.2016	A	32.6
		22.6.2016	B	30.2
		24.6.2016	C	34.5
		27.6.2016	D	32.5
Panchagavi Mines	Jul-16	2.7.2016	A	38.6
		5.7.2016	B	36.8
		8.7.2016	C	39.5
		10.7.2016	D	37.4
Panchagavi Mines	Aug-16	3.8.2016	A	34.5
		6.8.2016	B	32.6
		10.8.2016	C	30.4
		12.8.2016	D	31.8
Panchagavi Mines	Sep-16	16.9.2016	A	31.6
		17.9.2016	B	32.5
		19.9.2016	C	30.8
		20.9.2016	D	31.4
Panchagavi Mines	Oct-16	21.10.2016	A	32.5
		22.10.2016	B	30.6
		24.10.2016	C	31.8
		25.10.2016	D	30.2
Panchagavi Mines	Nov-16	21.11.2016	A	32.8
		23.11.2016	B	34.6
		25.11.2016	C	38.2
		26.11.2016	D	40.2
Panchagavi Mines	Dec-16	19.12.2016	A	32.5
		21.12.2016	B	30.6
		23.12.2016	C	31.8
		26.12.2016	D	30.2

- Panchagavi Mines	Jan-17	21.1.2017	A	34.5
		23.1.2017	B	32.0
		25.1.2017	C	31.7
		28.1.2017	D	31.6
Panchagavi Mines	Feb-17	16.2.2017	A	33.8
		18.2.2017	B	34.6
		20.2.2017	C	30.5
		23.2.2017	D	31.2
Panchagavi Mines	Mar-17	18.3.2017	A	32.6
		20.3.2017	B	33.9
		22.3.2017	C	31.4
		27.3.2017	D	30.8
Minimum				30.2
Maximum				41.5
Average				33.90


 Vani Patil
 Monitored by


 Dr. Saurabh Kumar
 Mgr.(Env)

Panchagavi Laterite Mines, (Karnataka)

(Unit : J.K. Cement Ltd.)

Yearly Fugitive Emission Monitoring Report of Muddapur mines for the month of April-2016 to March-2017

Sl. No.	Month/Year	SPM ($\mu\text{g}/\text{m}^3$)				
		Loading Area	Drilling Area	Haulage Area	Waste Dumping Site	Service Road
1	Apr-16	507.56	430.4	561.5	565.8	559.3
2	May-16	476.21	521.0	579.4	488.6	566.6
3	Jun-16	488.40	500.2	480.7	518.9	550.3
4	Jul-16	502.95	424.1	441.0	546.7	545.9
5	Aug-16	504.03	528.3	526.4	490.2	562.1
6	Sep-16	507.25	564.2	553.6	447.1	526.7
7	Oct-16	483.16	578.8	565.1	454.9	281.6
8	Nov-16	519.94	565.7	573.9	457.4	270.7
9	Dec-16	532.93	544.4	611.5	463.4	270.7
10	Jan-17	427.43	539.2	583.5	463.4	541.3
11	Feb-17	442.37	578.5	548.1	515.3	593.7
12	Mar-17	499.32	522.6	542.2	499.7	489.2
	Minimum	427.4	424.1	441.0	447.1	270.7
	Maximum	532.9	578.8	611.5	565.8	593.7
	Average	491.0	524.8	547.2	492.6	479.8


Vani Patil
Monitored by



Dr. Saurabh Kumar
Mgr. (Env).

Panchagavi Mines (Karnataka)
(Unit: J.K. Cement Ltd.)

Noise monitoring report of Panchagavi mines for the Period from April-2016 to March-2017

Sl.No.	Time	Month	Panchagavi Mines boundary	Panchagavi Mines Office	Panchagvi mines Near loading	Panchagavi mines Service Road	Excavator
1	Day	Apr-16	48.5	46.6	48.2	47.6	61.9
	Night		38.8	36.2	35.5	32.8	—
2	Day	May-16	47.5	45.2	47.5	46.8	60.5
	Night		36.3	35.2	36.8	31.4	—
3	Day	Jun-16	46.5	44.4	48.6	45.2	59.6
	Night		35.4	34.6	35.5	30.2	—
4	Day	Jul-16	47.5	43.2	46.6	43.2	58.6
	Night		36.2	33.8	32.6	31.6	—
5	Day	Aug-16	48.2	45	45.2	42.4	57.6
	Night		37.4	32.5	31.6	30.5	—
6	Day	Sep-16	50.2	47.5	44.6	47.8	56.5
	Night		41.6	34.5	31.6	32.8	—
7	Day	Oct-16	52.4	49.5	65.8	52.4	50.2
	Night		42.6	38.2	-	41.8	—
8	Day	Nov-16	50.4	50.6	62.3	51.7	56.8
	Night		40.5	38.5	-	41.6	—
9	Day	Dec-16	50.4	49.6	60.2	54.6	52.5
	Night		42.5	38.4	-	42.6	—
10	Day	Jan-17	48.5	44.6	42.7	46.8	50.4
	Night		37.5	31.4	30.5	31.8	—
11	Day	Feb-17	46.4	44.1	41.8	44.6	50.2
	Night		36.5	34.2	31.6	32.5	—
12	Day	Mar-17	54.2	54.3	61.5	45.8	52.1
	Night		40.6	41.5	—	38.4	—
Year Avg		Day	49.23	47.05	51.25	47.41	55.58
		Night	38.83	35.75	33.21	34.83	—
Maximum		Day	54.2	54.3	65.8	54.6	61.9
		Night	42.6	41.5	36.8	42.6	0
Minimum		Day	46.4	43.2	41.8	42.4	50.2
		Night	35.4	31.4	30.5	30.2	0


Vanu Patil
Monitored by


Dr. Saurabh Kumar
Mgr.(Env).