

Through: Courier Service

JKCW/ENV/Env.Statement/Mudda.Mine/2022-23/78/06

Date: 15.09.2022

To

The Member Secretary,  
Karnataka State Pollution Control Board,  
# 49, 4th & 5th floor,  
Parisara Bhavana, Church Street,  
Bangalore – 560 001.

Dear Sir,

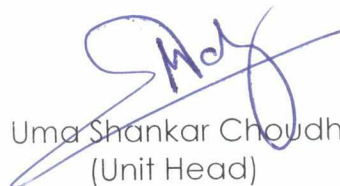
Sub: Submission of **Environmental Statement Report in "Form-V" FY 2021-22** of  
Muddapur Limestone Mine of M/s. J. K. Cement Ltd, located at  
Muddapur Village, Mudhol Taluk, Bagalkot District, Karnataka-reg  
Ref:-1 Notification No.Vide GSR 329 (E)dated 13.03.92 and GSR 386 (E)dated  
22.04.1993.  
Ref:-2 Vide Combined Consent Order AW-323792 dated 17.02.2021.

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As mentioned in the above cited subject matter, we are here by submitting the  
"Environmental Statement Report" FY 2021-22 in the prescribed format (Form V)  
under Environment (Protection) Rules, 1986 pertaining to Muddapur Limestone  
Mine of M/s. J.K Cement Ltd, located at Muddapur Village, Mudhol Taluk, Bagalkot  
District, Karnataka

Kindly acknowledge the receipt of the same.

Yours faithfully

For Muddapur Limestone Mine, Muddapur (Karnataka)  
(Unit: J.K. Cement Ltd.)  
Uma Shankar Choudhary  
(Unit Head)Enc: **Annexures-1,2 & 3**

cc:

1. The Environmental Officer, Karnataka State Pollution Control Board, Sector No. 07,  
by pass road, Navanagar, Bagalkot- 587 102



Corporate Office

📍 Padam Tower, 19 DDA Community Centre  
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🌐 www.jkcement.com

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2. Additional Principal Chief Conservator of Forests (C), Ministry of Environment & Forest, Govt. of India, Regional office (Southern zone), Kendra Sedan, IV<sup>th</sup> Floor, E & F Wings, 17<sup>th</sup> Main Road, II Block, Koramangala, Bengaluru, Karnataka -560 034.
3. Scientist 'D' & Incharge, Central Pollution Control Board, 1<sup>st</sup> & 2<sup>nd</sup> Floors, Nisarga Bhavan, A-Block, Thimmaiah, Main Road, 7<sup>th</sup>D Cross, Shivanagar, Opp. Pushpanjali Theatre, Bengaluru, Karnataka 560 079



# ENVIRONMENTAL AUDIT STATEMENT [FORM-V]



for  
**Muddapur Limestone Mine of JK Cement Ltd, Muddapur**

**Lime Stone Mining : 2 Million TPA**

**FOR THE  
FINANCIAL YEAR  
2021-2022**

by



**M/s. Muddapur Lime Stone Mine**  
Unit: JK Cement Limited  
Muddapur Village, Mudhol Taluk, Bagalkot District, Karnataka-587122



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## FORM - V

(See Rule 14) of Environment (Protection) Rules, 1986)

### Environmental Statement for the Financial Year ending the 31<sup>st</sup> March 2022 M/s Muddapur Lime Stone Mine (Unit: J. K. Cement Limited)

#### PART – A

(i)	<b>Name and address of the owner / occupier of the industry operation or process.</b>	:	Umashankar Choudhary (Unit Head) Muddapur Lime Stone Mine (Unit: J. K. Cement Limited) Village-Muddapur, District: Bagalkot, Karnataka.
(ii)	<b>Industry category</b> <b>Primary (STC Code)</b> <b>Secondary (SIC Code)</b>	:	Red Category
(iii)	<b>Production Capacity</b>	:	2.0 Million TPA
(iv)	<b>Year of Establishment</b>	:	Year 2008
(v)	<b>Date of Last Environment Statement submitted</b>	:	20-09-2021

#### PART – B

#### Water and Raw Material Consumption

(i) Water Consumption:

<b>Dust Suppression</b>	:	9316.2 KL
<b>Cooling</b>	:	NIL
<b>Domestic</b>	:	181.5 KL

(ii) Consumption per unit of production

Name of the Product	*Process Water Consumption (m <sup>3</sup> ) per unit (metric ton) of Product Output	
	During the Previous Financial Year (2020-21)	During the Financial Year (2021-22)
Limestone	0.00670	0.00622

(iii) Raw Material Consumption.

Name of the Raw Material	Consumption of Raw Material (metric ton) per unit (metric ton) of Output	
	During the Previous Financial Year (2020-21)	During the Financial Year (2021-22)
Diesel	0.00057	0.00054

(iv) Total Lime Stone Production (In Tons)

During the Previous Financial Year (2020-21)	During the Current Financial Year (2021-22)
1295800	1497500

(v) Total Power consumption (KWH/ton of Limestone)

During the Previous Financial Year (2020-21)	During the Current Financial Year (2021-22)
0.2573	0.3600

(vi) **Lubrication and Explosive consumption**

Particulars	During the Previous Financial Year (2020-21)	During the Current Financial Year (2021-22)
Lubrication oil consumption (In Litres)	12096	24900
Grease Consumption (In Kgs)	2700	2552
ANFO ( in Kgs)	192669	192125
Slurry (In Kgs)	31272	28922
Electrical Detonators (In No's)	1674	2487
Nonel Detonators(In No's)	19696	23025
Detonating fuse (in m)	1650	200

**PART – C**

**Pollution Discharged to Environment/unit of output**  
**(Parameter 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 <sup>3</sup> )	Percentage of variation from prescribed standard with reasons
(a)	Water	Waste water generated from the office toilets is discharged into soak pit via septic tank. There is no waste water in the mine. Mine's pit water is used for dust suppression in mine. Pit water testing report is as per Annexure-1		
(b)	Air	There is no point source emission in mine. Ambient air quality and fugitive emission monitoring report as Annexure- 2 & 3		

### **PART – D**

**(As specified under Hazardous waste / Management and Handling rules, 1989, 2008, 2016 and amendments thereof)**

Hazardous Waste	Total Quantity (KL)	
	During the Previous Financial Year (2020-21)	During the Current Financial Year (2021-22)
(a) From Process	N.A.	N.A.
(b) From Pollution Control Facilities	N.A.	N.A.

### **PART – E**

#### **Solid Wastes**

Solid Waste		Total Quantity	
		During the Previous Financial Year (2020-21)	During the Current Financial Year (2021-22)
(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)	0.0 MT	0.0 MT

## **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.**

Name of the Wastes		Quantity	Characteristics	Disposal Practice Adopted
(1)	Hazardous Waste:  None	NIL	NIL	NIL
(2)	Solid Waste	NIL	NIL	NIL

## **PART – G**

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

### **AIR**

There is no impact observed on vegetation & water bodies in the surrounding areas due to dust, as it will be 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- Wet drilling system is provided on all drill machines.
- 2- Regular water sprinkling on haul road during operation.
- 3- Optimize blasting parameters for proper fragmentation to reduce dust generation.
- 4- Plantation and development of Green Belt along the Haul Roads and Working Pits.

### **WATER**

- 1- Being Mechanized Limestone mine, it requires water mainly for Wet Drilling, Road Spraying and Green Belt Development. The source of water is the accumulated rainwater in the lower most benches. At Muddapur Mine, there is no discharged of liquid effluent / waste water from the Mine.

- 2- No discharge of rain water or waste water from the mine to outside lease area. Rain water in the catchment area of mine lease is diverted through drainage in to lower level area of mine and that water is used for dust suppression and plantation purpose.

### **NOISE :**

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

- 1- Excavation, drilling, blasting and operations of HEMM.
- 2- Transportation and handling of material.

The results of base line noise level survey are well below the permissible limit except near machinery while operating. The noise generating sources are scattered within the whole mining area. All the sources will not generate the noise simultaneously hence; the noise level would not alter the noise environment significantly. The noise level reduces with increase in distance from the source. The following measures are taken to reduce the noise level at the source as well as to prevent the same, spreading in the atmosphere:

- 1- Providing enclosures for noise sources to reduce dispersion of noise like cabin in HEMM.
- 2- Proper maintenance and lubrication of machinery rotating parts.
- 3- Use electric delay detonator on surface in place of detonating fuse.
- 4- By covering the detonating fuse as well as detonators under drill cutting or the fine material.
- 5- By providing earmuffs and earplugs to eligible miners.
- 6- Use of Air Decking & sufficient column stemming in the blast holes.

### **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 on OB sites, road sides and on other parts of non mineralized ML area. The top layer of the dump material and slopes is covered with top soil which is excellent property of water retention that supports good tree growth.

Green Belt development has been taken up in phased manner, during the FY 2021-22, we have planted 3925 no's of saplings in Muddapur mine, covering area of 2.45 Ha. The total plantation covered from inception of plant to 31<sup>st</sup> March 2022 in Muddapur Mine is 19445 no's covering an area of 13.5 Ha.

### **PART – I**

#### **ANY OTHER PARTICULARS FOR IMPROVING THE QUALITY OF ENVIRONMENT.**

- 1- Regular maintenance of haul roads using grader and dozers.
- 2- Continuous wetting of haul roads using water tankers to suppress the airborne dust.
- 3- Wet drilling practiced & Sharp drill bits used to prevent generation of drilling dust.
- 4- Monitoring of Blast Induced Ground Vibration with the help of Blasters Minimate.
- 5- Controlled blasting with the help of Nonels.
- 6- Green Belt developed all along the lease boundary.
- 7- Avenue plantation along the haul roads to resist dust propagation.
- 8- Regular Noise Mapping and vibration studies of machinery being done.
- 9- Preventive and scheduled maintenance of Machinery reduced noise.
- 10-We are providing all personal protective equipment (PPEs) to all mine employees i.e. dust mask (respirator), ear plug & ear muff, eye goggle etc. concern to them as additional measures of Air & Noise Pollution Control.
- 11-We are having full flash environmental laboratory for the monitoring of ambient air quality, water testing, noise monitoring etc.
- 12-Industry has been certified for Standards ISO 9001, 14001, 45001 and 50001.
- 13-Dense plantation is being carried out to resist the flow of dust into the surrounding areas
- 14-As a water conservation measure, Surrounding area rain water diverted in to Pit no.1.
- 15-Solar panels are installed for power generation.

**World Environment Day 5<sup>th</sup> June 2022** is the biggest international day for the environment, led by the United Nations Environment Programme (UNEP), and held annually since 1972, it has grown to be the largest global platform for environmental outreach. It is celebrated by millions of people across the world. World Environment Day 2022 is hosted by Sweden.

JKCW, Muddapur has conducted World Environment Week from 5<sup>th</sup> to 10<sup>th</sup> June, with a theme “**Only One Earth**” is the campaign slogan, with the focus on “Living Sustainably in Harmony with Nature” as declared by UNEP, various events like plantation drives and awareness programs have been conducted across organization to create awareness, glimpses of the event are follows.



World Environment Day Plantation at Muddapur Mines



WED awareness program at Govt. Degree College, Bagalkot



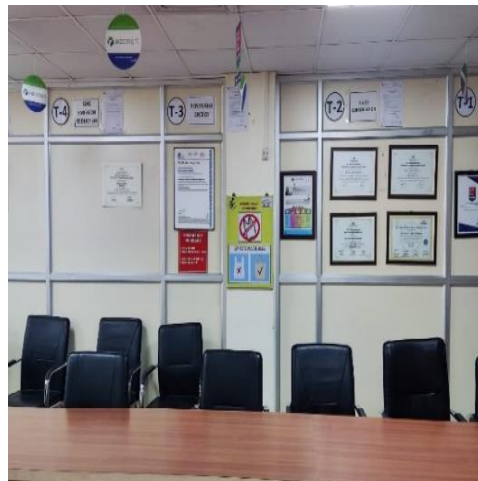
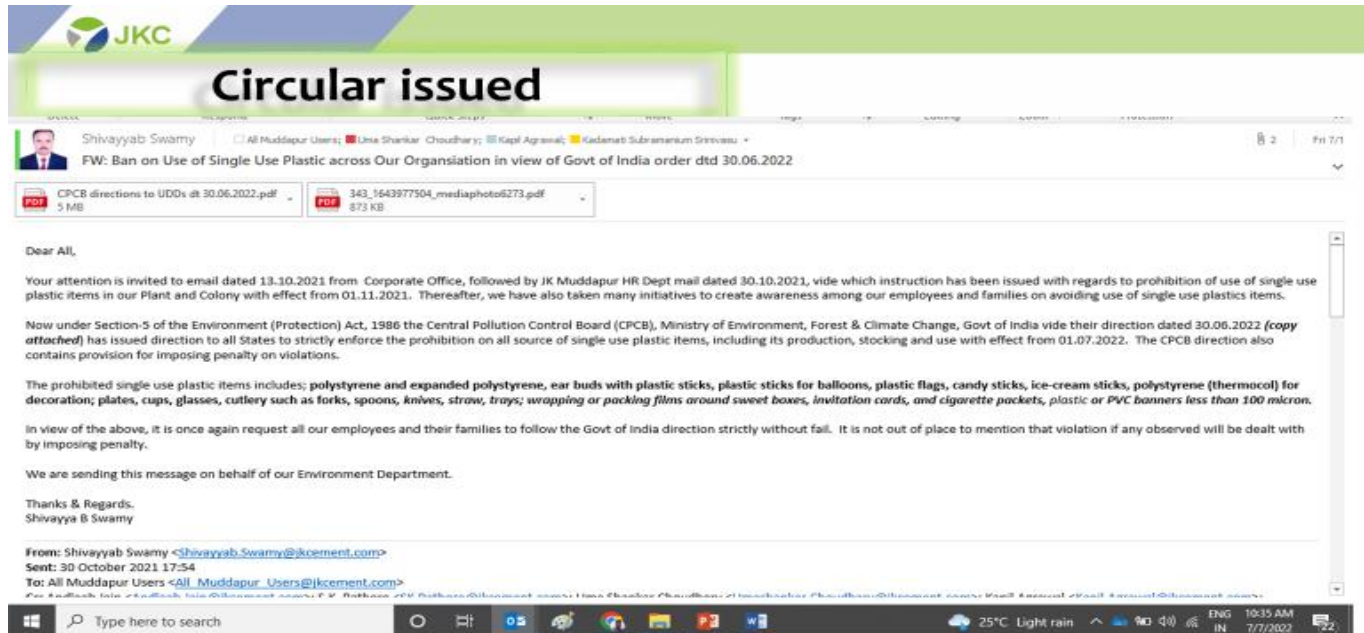
Environment Dept. has taken awareness program on World Environment Day-2022 and awareness speech on Effects of plastics on Environment to children of Sir Padampat school - JK Cement Muddapur.



Distributed cloth bags Awareness drive march

KSPCB, Bagalkot has organized World Environment day -2022 Celebrations at district police Head Quarters, Bagalkot in collaboration with JK Cement for banning of single use plastics and Distributed cloth bags to all the students and members attend to eradicate plastics.

**Ban of Single Use Plastic:** JKCW, Muddapur has issued a circular on "Ban of Single Use Plastics" in Plant and Colony premises. We have conducted awareness programs on ban of single use plastics to colony residents, workers and "No to single use plastic" display boards have been installed in plant and colony.



Display Boards at Plant & colony

### Environmental Awareness drives on premises at various locations.



Awareness to Workers at Canteen and Guesthouse workers for Ban Single Use Plastics as a part of awareness drive.



Awareness to Colony residents for Ban Single Use Plastics & Distributed cloth bags



JKCW, Muddapur has celebrated Plastic awareness program on 11<sup>th</sup> November-2021 at City municipal council Hall Bagalkot during Azadi ka Amrut Mahatsov celebrations on behalf of Environment Department. As a sustainable Initiative we have distributed cloth bags to Public and corporation officials to create awareness about “no to single use plastics” In presence of Eminent Personalities I.e., Additional district Judge, Bagalkot & E.O-KSPCB, Bagalkot & City Municipal Corporation officials have attended.”

