

## ARASMETA LIMESTON MINE OF M/S LAFARGE INDIA LTD

INDIA

VILLAGE ARASMETA, DISTT. JANJGIR - CHAMPA, CHHATTISGARH

Environment clearance

Letter No. J11015/64/2003- IA, II (M) GOI, and MoEF dated 18/7/2005 for production of 2.7 MTPA for Arasmeta Limestone mine.

CONSENT TO OPERATE

Air Consent Letter NO. 1004/TS/CECB/2016 Date 17/05/2016 for 2.7 MTPA

Water Consent Letter NO. 1002/TS/CECB/2016 Date 17/05/2016 for 2.7 MTPA

**Monitoring Data for the Month Jan` 2017**

KEY PARAMETERS									
<b>A ) STATIC INFORMATION</b>									
1	MINE LEASE AREA	:	499.987 Hect.						
2	PRODUCTION	:	2.7 MTPA						
3	LEASE DURATION	:	2019						
4	DATE OF COMMENCEMENT OF WORK	:	Mines operated since 1982						
<b>B) DYNAMIC PARAMETERS</b>									
<b>(i) Ambient Air Quality</b>									
		Ambient Air Quality Monitoring Station							
Parameters		Pit Boundary (East)		Mines office (West)		Colony (North)		Arasmeta village (South)	
		I	II	I	II	I	II	I	II
PM10	( $\mu\text{g}/\text{m}^3$ )	54	52	63	58	46	49	57	61
PM2.5	( $\mu\text{g}/\text{m}^3$ )	29	28	33	34	27	25	32	34
Sulphur Dioxide SO <sub>2</sub>	( $\mu\text{g}/\text{m}^3$ )	7.2	7.1	8.3	8.3	6.9	7.5	8.0	8.3
Nitrogen Dioxide NO <sub>2</sub>	( $\mu\text{g}/\text{m}^3$ )	8.3	8.2	10.5	9.4	8.5	8.8	11.4	9.5
Carbon Monoxide CO	(mg/m <sup>3</sup> )	0.14	0.14	0.16	0.16	0.14	0.14	0.18	0.15
BDL - Below Detection Limit-									
<b>(ii)</b>	<b>Vibration (PPV)</b>	2.53 mm / Sec at the distance of 300 meter from blast site. -							
<b>(iii)</b>	<b>Quality of Discharge Water:-</b> Zero Discharge Water From Mines								
1	Total Dissolved Solid (TDS)	:	-						
2	Dissolved Oxygen(DO)	:	-						
3	PH	:	-						
4	Total Suspended solids (TSS)	:	-						
<b>(iv) Greenbelt/Plantation</b>									
1	Nos of Trees planted till date -	1005783 Around Plant, Colony & Included Arasmeta Mines							
2	Calendar year wise (progressive)	2015				2016			
		7108				12000			

 For Lafarge India Limited,  
 (Arasmeta Cement Plant)

  
 (Ramesh Chandra Pathak)  
 Vice President

**KIRARI LIMESTONE MINE OF M/S LAFARGE INDIA LTD.**  
**VILLAGE KIRARI - CHORBHATTI**  
**DISTT. JANJGIR - CHAMPA, CHHATTISGARH**

INDIA

Environment clearance

Environment clearance. Letter No. J11015/23/2002- IA, II (M) GOI, and MoEF dated 9/12/2003 for production of 0.36 MTPA for Kirari Limestone mine.

CONSENT TO OPERATE

Air Consent Letter NO. 481/RO/TS/CECB/2016 Date 23/06/2016 for 0.36 MTPA  
 Water Consent Letter NO. 480/RO/TS/CECB/2016 Date 23/06/2016 for 0.36 MTPA

**Monitoring Data For the Month of Jan` 2017**

**KEY PARAMETERS**

**A ) STATIC INFORMATION**

1	MINE LEASE AREA	:	167.048 Hect.
2	PRODUCTION	:	0.36 MTPA
3	LEASE DURATION	:	2020
4	DATE OF COMMENCEMENT OF WORK	:	Mines operated since 2006

**B) DYNAMIC PARAMETERS**

**(i) Ambient Air Quality**

Parameters	Ambient Air Quality Monitoring Station							
	Chorbatti (East)		Banhil (West)		Mines office (North)		Kirari (South)	
	I	II	I	II	I	II	I	II
PM10 (µg/m3)	47	48	63	66	56	55	53	51
PM2.5 (µg/m3)	27	28	38	37	31	30	30	29
Sulphur Dioxide SO2 (µg/m3)	7.0	7.0	8.4	8.4	7.4	7.6	7.8	7.5
Nitrogen Dioxide NO2 (µg/m3)	8.5	8.3	9.6	10.6	8.8	8.2	9.4	9.2
Carbon Monoxide CO (mg/m3)	0.13	0.14	0.18	0.19	0.15	0.16	0.14	0.14

**(ii) Vibration (PPV)** 2.36 mm / Sec at the distance of 200 meter from blast site. -

**(iii) Quality of Discharge Water :-** Zero Discharge Water From Mines

1	Total Dissolved Solid (TDS)	:	-
2	Dissolved Oxygen(DO)	:	-
3	PH	:	-
4	Total Suspended solids (TSS)	:	-

**(iv) Greenbelt/Plantation**

1	Nos of Trees planted till date -	40275 nos. Plantation at Kirari Mines	
2	Calendar year wise (progressive)	2015	
		6000 Nos.	2016 6000 Nos.

For Lafarge India Limited,  
 Arasmeta Cement Plant,

  
 (Ramesh Chandra Pathak)  
 Vice President