

**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. 3825/TS/CECB/2015 Date 10/11/2015 for 0.36 MTPA

Water Consent Letter NO. 3823/TS/CECB/2015 Date 10/11/2015 for 0.36 MTPA

Monitoring Data For the Month of July` 2016

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									
Ambient Air Quality Monitoring Station									
Parameters		Chorbatti (East)		Banhil (West)		Mines office (North)		Kirari (South)	
		I	II	I	II	I	II	I	II
PM10 (µg/m3)		37	38	48	51	44	46	42	43
PM2.5 (µg/m3)		26	24	30	30	27	29	26	27
Sulphur Dioxide SO2 (µg/m3)		5.2	5.0	6.2	7.1	5.7	6.3	5.3	5.7
Nitrogen Dioxide NO2 (µg/m3)		6.4	6.4	8.8	8.8	6.8	8.2	6.9	7.2
Carbon Monoxide CO (mg/m3)		0.14	0.13	0.17	0.19	0.15	0.15	0.14	0.14
(ii)	Vibration (PPV)	2.31 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 -	36275 nos. Plantation at Kirari Mines							
2	Calendar year wise (progressive)	2015				2016			
		6000 Nos.				2000 Nos.			

For Lafarge India Limited,
Arasmeta Cement Plant,


(Ramesh Chandra Pathak)
Vice President

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 July` 2016

KEY PARAMETERS									
A) STATIC INFORMATION									
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) DYNAMIC PARAMETERS									
(i) Ambient Air Quality									
		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	(µg/m3)	41	38	45	42	40	39	47	44
PM2.5	(µg/m3)	24	21	27	24	24	20	29	26
Sulphur Dioxide SO2	(µg/m3)	5.5	5.4	6.6	6.5	5.2	5.4	5.6	6.4
Nitrogen Dioxide NO2	(µg/m3)	6.7	7.1	8.4	7.3	6.3	6.1	7.1	7.5
Carbon Monoxide CO	(mg/m3)	0.14	0.14	0.16	0.15	0.14	0.12	0.15	0.15
BDL - Below Detection Limit-									
(ii)	Vibration (PPV)	2.11 mm / Sec at the distance of 300 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 -	9,93983 Around Plant, Colony & Included Arasmeta Mines							
2	Calendar year wise (progressive)	2014				2015			
		5075				7108			

For Lafarge India Limited,
(Arasmeta Cement Plant)


(Ramesh Chandra Pathak)
Vice President