

JK LAKSHMI CEMENT LTD.

Malpuri Khurd, Khasadih, PO. Ahiwara,

Dist. – Durg, Chhattisgarh

RESULTS OF AMBIENT AIR QUALITY MONITORING – DURG PROJECT

(July-Sept 2014)

Month –July 2014

Parameters ($\mu\text{g}/\text{m}^3$)	Cement plant Site					Mines Area				
	Near Main Gate	Near Equipment Yard	Malpuri School	Girhola	Khasadih	Near Mine Office	Hardi Village	Ghikuria Village	Nandini – Kundini Village	Pitora Village
PM 10	51.3	49.7	43.1	54.6	42.8	49.3	45.1	46.4	51.7	40.2
PM 2.5	19.1	16.8	14.6	20.3	14.9	19.5	16.6	17.3	20.2	16.4
SO ₂	10.7	10.4	8.5	13.2	8.6	13.2	9.9	11.1	15.4	10.3
NO _x	16.1	13.3	14.8	19.1	13.4	16.6	12.7	18.5	22.4	15.3
CO	188	165	141	182	127	144	128	134	229	128

Month – Aug 2014

Parameters ($\mu\text{g}/\text{m}^3$)	Cement plant Site					Mines Area				
	Near Main Gate	Near Equipment Yard	Malpuri School	Girhola	Khasadi h	Near Mine Office	Hardi Village	Ghikuria Village	Nandini – Kundini Village	Pitora Village
PM 10	56.2	55.1	47.8	57.3	46.2	53.5	47.8	48.3	55.2	41.9
PM 2.5	20.3	18.4	16.2	22.7	16.5	21.2	18.3	18.9	21.8	17.1
SO ₂	9.5	9.2	7.6	12.8	7.3	14.5	9.2	9.8	13.3	9.9
NO _x	12.9	10.8	11.7	16.3	11.2	15.2	10.9	15.3	20.7	13.6
CO	179	158	133	175	118	137	123	126	215	122

Month – Sept 2014

Parameters ($\mu\text{g}/\text{m}^3$)	Cement plant Site					Mines Area				
	Near Main Gate	Near Equipment Yard	Malpuri School	Girhola	Khasadi h	Near Mine Office	Hardi Village	Ghikuria Village	Nandini – Kundini Village	Pitora Village
PM 10	54.7	53.2	44.4	56.1	45.3	51.4	46.3	47.6	53.8	40.5
PM 2.5	19.9	17.3	15.1	21.5	15.8	20.7	17.5	18.2	21.1	16.8
SO ₂	9.8	10.1	7.9	11.3	7.6	15.1	10.5	11.7	15.8	10.6
NO _x	14.2	12.5	12.3	17.1	12.9	17.3	13.8	18.9	21.5	14.9
CO	185	164	139	181	123	146	125	138	231	127

NOISE LEVEL (Avg) dB

PROJECT SITE: CEMENT PLANT

Month	Near Main Gate		Near Equipment Yard		Malpuri School		Girhola		Khasadih	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
July 2014	52.8	42.1	54.3	41.7	46.1	40.9	54.7	41.5	46.2	41.4
Aug 2014	52.4	43.2	53.2	42.3	47.6	42.6	56.5	43.4	47.3	42.8
Sept 2014	51.3	42.7	54.8	42.9	45.4	42.2	56.1	42.8	47.7	42.5

PROJECT SITE: MINES AREA

Month	Near Mines office		Hardi Village		Ghikuria		Nandani - Kundini		Pitora	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
July 2014	53.6	41.9	48.3	41.1	46.9	40.8	57.7	42.2	47.1	41.3
Aug 2014	57.1	43.9	48.7	42.3	46.6	41.7	56.5	42.8	46.8	42.1
Sept 2014	54.2	43.5	49.1	41.7	47.4	41.3	57.8	42.4	47.6	41.6