



**TEAM Institute of Science and Technology (P) Ltd.**  
(Unit - TEAM Test House)

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Off. - E-65, Chitrangan Marg, C-Scheme, Jaipur-302001 Rajasthan (India)  
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Ph.: 0141-2173533, 2771865  
94602-22039, 94602-22049

**Ambient Air Quality Monitoring Results of Core Zone & Buffer Zone,**  
Aditya Limestone Mines, Aditya Cement  
Sawa-Shambhupura Road, Chittorgarh, Rajasthan  
for the Quarter Apr. - Jun, 2011

S. No.	Monitoring Period / Date	Location	Result (microgram/m <sup>3</sup> )				
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO
<b>A. Core Zone</b>							
1	Apr. - Jun, 2011	Mines Office	84.75	30.57	8.52	13.62	182
2		Near Crusher Plant	70.91	32.67	8.24	13.77	131
3		At View Point	74.76	30.23	8.86	13.98	140
4		In JSKK Village	51.96	19.31	7.65	12.22	127
<b>B. Buffer Zone</b>							
1	Apr - Jun, 2011	Sawa Village	51.22	22.10	7.64	12.82	132
2		Kannauj Village	47.81	24.54	8.68	13.54	134
3		Shambhupura Village	48.45	25.53	8.58	13.68	132
4		Mangrol Village	52.04	28.42	7.77	13.4	143

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**Ambient Air Quality Monitoring Results of Core Zone & Buffer Zone,**

Aditya Limestone Mines, Aditya Cement  
Sawa-Shambhupura Road, Chittorgarh, Rajasthan  
for the Quarter Apr - Jun, 2011

S. N.	Monitoring Period / Date	Location	Result (microgram/m <sup>3</sup> )				
			TSPM	RPM	SO <sub>2</sub>	NO <sub>x</sub>	CO
<b>A. Core Zone</b>							
1	Apr - Jun, 2011	Mines Office	207.55	84.75	8.52	13.62	182
2		Near Crusher Plant	231.17	70.91	8.24	13.77	131
3		At View Point	219.90	74.76	8.86	13.98	140
4		In JSKK Village	124.60	51.96	7.65	12.22	127
<b>B. Buffer Zone</b>							
1	Apr - Jun, 2011	Sawa Village	115.14	51.22	7.64	12.82	132
2		Kannauj Village	127.43	47.81	8.68	13.54	134
3		Shambhupura Village	130.22	48.45	8.58	13.68	132
4		Mangrol Village	127.54	52.04	7.77	13.40	143

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**Fugitive Emission Monitoring Results**  
Aditya Limestone Mines, Aditya Cement  
Sawa-Shambhupura Road, Chittorgarh, Rajasthan  
for the Quarter Apr. - Jun, 2011

S. N.	Monitoring Period / Date	Location	Result (microgram/m <sup>3</sup> )				
			TSPM	RPM	SO <sub>2</sub>	NO <sub>x</sub>	CO
1	Apr.- Jun, 2011	Drilling site	282.28	83.20	8.61	14.38	138
2		Loading site	259.27	89.23	8.04	14.84	138
3		Transportation site	292.02	87.08	8.76	15.33	139
4		Blasting site	272.49	86.07	8.79	13.94	140

  
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**Noise Level Monitoring Results**

Aditya Limestone Mines, Aditya Cement Works  
Sawa-Shambhupura Road, Chittorgarh, Rajasthan  
for the Quarter Apr. - Jun, 2011

S. N.	Monitoring Period / Date	Location	Noise Level (avg.) in Leq		CPCB specifications	
			Day Time (6:00 AM to 09:00 PM)	Night Time (09:00 PM to 6:00 AM)		
<b>A. Core Zone</b>						
1	Apr. -Jun, 2011	Mines Office	66.5	59.4	Mentioned below	
2		Near Crusher Plant	71.4	61.8		
3		At View Point	65.8	58.9		
4		In JSKK Village	49.3	41.2		
<b>B. Buffer Zone</b>						
1	Apr. - Jun, 2011	Sawa	50.6	42.1		
2		Kannauj Village	52.3	42.8		
3		Shambhupura Village	52.6	43.5		
4		Mangrol Village	53.1	42.7		

**CPCB NOISE STANDARDS**

Area code	Category of area	Limits in Leq dB (A)	
		Day Time (6:00 AM to 09:00 PM)	Night Time (09:00 PM to 6:00 AM)
A	Industrial area	75	70
B	Commercial area	65	55
C	Residential area	55	45
D	Silence zone	50	40

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**Ground Water Level & Quality Monitoring Results**  
Aditya Limestone Mines, Aditya Cement  
Sawa-Shambhupura Road, Chittorgarh, Rajasthan  
for Pre-Monsoon (Summer)Season,2011-2012

Season / Well no. Date	Reduced level of ground (m)	Water level (m) (Below ground level)	Water Quality														
			PH	Colour	Turbidity	Chlorides (as Cl)	Nitrates (as NO <sub>3</sub> )	Fluoride (as F)	TDS	Total Hardness (as CaCO <sub>3</sub> )	Iron (as Fe)	Total Solids	Total Alkalinity	Sulphates (as SO <sub>4</sub> )	Coliform Organism		
	Unit		6.5 - 8.5	Hazen	NTU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
	Permissible limit as per IS 10500:1991		5 - 25	5 - 10	250 - 1000	45 - 100	1.0 - 1.5	500 - 2000	300 - 600	0.3 - 1.0	-	200 - 600	200 - 400	Absent			
PW1	433	52.20	7.82	2	4	74.5	1.05	614	315.5	0.04	16	350.4	15.2	Absent			
PW2	437	54.37	7.17	2	1	61.98	1.35	590	301.04	0.095	14	401.58	48.5	Absent			
PW3	440	36.35	6.88	5	6	25.99	0.992	459	305.28	0.03	15	347.76	11.5	Absent			
PW4	436	34.26	7.17	2	6	23.99	0.945	497	371.00	0.057	7	343.62	16.5	Absent			

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**Ambient Air Quality Monitoring Results of Core Zone & Buffer Zone,**

Aditya Limestone Mines, Aditya Cement  
Sawa-Shambhupura Road, Chittorgarh, Rajasthan  
for the Quarter Jul. - Sep., 2011

S. N.	Monitoring Period / Date	Location	Result (microgram/m <sup>3</sup> )				
			PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO
<b>A. Core Zone</b>							
1	Jul. - Sep., 2011	Mines Office	49.50	25.59	9.02	13.58	139
2		Near Crusher Plant	52.57	28.09	8.57	12.13	137
3		At View Point	51.53	22.66	10.24	13.89	143
4		In JSKK Village	39.73	17.81	8.91	13.04	138
<b>B. Buffer Zone</b>							
1	Jul. - Sep., 2011	Sawa Village	38.86	19.95	8.76	12.77	145
2		Kannauj Village	40.06	19.02	8.01	12.35	133
3		Shambhupura Village	41.39	18.53	8.75	14.45	153
4		Mangrol Village	41.25	21.35	9.75	12.6	125

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**Ambient Air Quality Monitoring Results of Core Zone & Buffer Zone,**  
Aditya Limestone Mines, Aditya Cement  
Sawa-Shambhupura Road, Chittorgarh, Rajasthan  
for the Quarter Jul. - Sep., 2011

S. N.	Monitoring Period / Date	Location	Result (microgram/m <sup>3</sup> )				
			TSPM	RPM	SO <sub>2</sub>	NO <sub>x</sub>	CO
<b>A. Core Zone</b>							
1	Jul. - Sep., 2011	Mines Office	151.75	49.50	9.02	13.58	139
2		Near Crusher Plant	187.86	52.57	8.57	12.13	137
3		At View Point	165.46	51.53	10.24	13.89	143
4		In JSKK Village	112.29	39.73	8.91	13.04	138
<b>B. Buffer Zone</b>							
1	Jul. - Sep., 2011	Sawa Village	105.44	38.86	8.76	12.77	145
2		Kannauj Village	113.74	40.06	8.01	12.35	133
3		Shambhupura Village	123.4	41.39	8.75	14.45	153
4		Mangrol Village	104.95	41.25	9.75	12.60	125

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**Fugitive Emission Monitoring Results**  
Aditya Limestone Mines, Aditya Cement  
Sawa-Shambhupura Road, Chittorgarh, Rajasthan  
for the Quarter Jul. - Sep., 2011

S. N.	Monitoring Period / Date	Location	Result (microgram/m <sup>3</sup> )				
			TSPM	RPM	SO <sub>2</sub>	NO <sub>x</sub>	CO
1	Jul. - Sep., 2011	Drilling site	272.25	82.45	8.36	12.85	132
2		Loading site	268.05	77.93	8.35	13.34	131
3		Transportation site	294.56	91.00	8.83	13.02	129
4		Blasting site	267.34	82.22	9.11	14.99	129

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**Noise Level Monitoring Results**

Aditya Limestone Mines, Aditya Cement Works  
Sawa-Shambhupura Road, Chittorgarh, Rajasthan  
for the Quarter Jul. - Sep., 2011

S. N.	Monitoring Period / Date	Location	Noise Level (avg.) in		CPCB specifications	
			Day Time (6:00 AM to 09:00 PM)	Night Time (09:00 PM to 6:00 AM)		
<b>A. Core Zone</b>						
1	Jul. - Sep., 2011	Mines Office	71.2	62.5	Mentioned below	
2		Near Crusher Plant	73.8	66.8		
3		At View Point	69.2	60.4		
4		In JSKK Village	48.3	41.2		
<b>B. Buffer Zone</b>						
1	Jul. - Sep., 2011	Sawa	49.2	43.1		
2		Kannauj Village	51.6	42.5		
3		Shambhupura Village	52.1	43.4		
4		Mangrol Village	50.7	42.9		

**CPCB NOISE STANDARDS**

Area	Category of area	Limits in Leq dB (A)	
		Day Time (6:00 AM to 09:00 PM)	Night Time (09:00 PM to 6:00 AM)
A	Industrial area	75	70
B	Commercial area	65	55
C	Residential area	55	45
D	Silence zone	50	40

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**Ground Water Level & Quality Monitoring Results**  
Aditya Limestone Mines, Aditya Cement  
Sawa-Shambhupura Road, Chittorgarh, Rajasthan  
for Monsoon (Rainy) season, 2011-2012

Season / Date	Well no.	Reduced level of ground (m)	Water level (m) (Below ground level)	Water Quality										Coliform organism		
				PH	Colour Hazen	Turbidity NTU	Chlorides (as Cl) mg/l	Nitrates (as NO <sub>3</sub> ) mg/l	Fluoride (as F) mg/l	TDS mg/l	Total Hardness (as CaCO <sub>3</sub> ) mg/l	Iron (as Fe) mg/l	Total Suspended Solids mg/l		Total Alkalinity mg/l	Sulphates (as SO <sub>4</sub> ) mg/l
Permissible limit as per IS 10500:1991				6.5 - 8.5	5 - 25	5 - 10	250 - 1000	45 - 100	1.0 - 1.5	500 - 2000	300 - 600	0.3 - 1.0	-	200 - 600	200 - 400	Absent
Rainy Season (22.08.11)	PW1 (Near Pit-1)	433	21.40	7.12	1	5	61.30	8.1	0.98	575	298.10	0.03	12	315.10	12.40	Absent
	PW2 (Near Pit-1)	437	26.00	6.94	2	7	118.90	7.5	0.83	634	118.80	0.11	18	362.25	98.50	Absent
	PW3 (Near Pit-2)	440	20.80	7.17	5	16	25.99	33	0.82	272	151.20	0.10	14	231.00	16.40	Absent
	PW4 (Near Pit-2)	436	9.80	7.07	1	3	30.99	35	0.98	416	270.00	0.02	12	288.75	17.30	Absent

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