



Vardan EnviroLab

Regd. Off: D-142, Sushant Lok-III, Sector-57, Gurgaon - 122003 (Haryana) Tel: 0124-4291036
 Laboratory: Samaspur, Opposite Amity International School, Sector-51, Gurgaon - 122001 (Haryana)
 Branch Off: Plot No. 24 & 25, Narayan Vihar, B-Block, Jaipur - 302035 (Rajasthan) Tel: 0141-2983404
 (ISO 9001|ISO 14001|OHSAS 18001|MoEF & CC Recognized|NABL Accredited|HSPCB & RSPCB Approved)

Test Certificate

Sample Number:	VEL/JKWCW/AA/11	Report No.:	VEL/AA/1806/011
Name & address of the Party:	M/s JK White Cement Works, Gotan (Unit of JK Cement LTD.) Dhanappa Limestone Mines (ML No. 3/93), Vill- Dhanappa, Tehsil- Merta, District- Nagaur, Raj.	Format No.:	5.1F-01
		Party Reference No.:	NIL
		Reporting Date:	27/06/2018
		Period of Analysis:	21/06/18 to 25/06/18
		Receipt Date:	20/06/2018

Sample Description: AMBIENT AIR QUALITY MONITORING

General Information:-

Sample collected by	: Vardan EnviroLab Representative
Client Representative	: Dr. Ranjeet Kumar Bagariya
Sampling Location	: Dhanapa Lime Stone Mine
Latitude & Longitude	: 26°33'40.2" N & 73°46'18.9" E
Instrument Code	: RDS 02 & FPS 02
Instrument Used	: RDS, FPS with attachment
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 17/06/2018 to 18/06/2018
Time of Monitoring	: 24 hours
Ambient Temperature (°C)	: Min. 31 Max. 39
Surrounding Activity	: Human, Vehicular & Lime Stone Mining activities
Scope of Monitoring	: Regulatory Requirement
Sampling & Analysis Protocol	: IS-5182
Parameter Required	: As per Work Order

TEST RESULTS

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	#SOP No. VEL/SOP/01, Section No. SP 63	42.1	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), 2006	83.1	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Reaffirmed-2006	30.4	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Reaffirmed-2012	10.2	µg/m ³	80
5.	Carbon Monoxide (CO)	IS: 5182 (P-10), Reaffirmed-2003	0.62	mg/m ³	4
6.	Ammonia (NH ₃), µg/m ³	IS: 11255(P-6), Reaffirmed-2009	BDL	µg/m ³	400
7.	Lead (Pb), µg/m ³	IS: 5182 (P-22), Reaffirmed-2009	0.11	µg/m ³	1
8.	Benzene(C ₆ H ₆), µg/m ³	IS: 5182 (P-11), 2004	BDL	µg/m ³	05
9.	Benzo(a)pyrene, ng/m ³	IS: 5182 (P-12), 2004	BDL	ng/m ³	01
10.	Ozone (O ₃), µg/m ³	IS: 5182 (P-9), Reaffirmed-2003	14.2	µg/m ³	180
11.	Arsenic As, ng/ m ³	IS: 5182 (P-22), Reaffirmed-2009	BDL	ng/ m ³	6
12.	Nickel Ni, ng/ m ³	IS: 5182 (P-22), Reaffirmed-2009	BDL	ng/ m ³	20

Note: * NAAQS - National Ambient Air Quality Standards, Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)]

SOP - Laboratory Standard Operating Procedure.

(Tested By)

(Checked By)

(Approved By)

NOTE: a) The results listed refer only to the tested samples & applicable parameters
 b) Total liabilities of our lab will be restricted to the invoice amount only
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Test Certificate

Sample Number: **VEL/JKWCW/AA/12**
Name & address of the Party: **M/s JK White Cement Works, Gotan (Unit of JK Cement LTD.) Dhanappa Limestone Mines (ML No. 3/93), Vill- Dhanappa, Tehsil- Merta, District- Nagaur, Raj.**

Report No.: **VEL/AA/1806/012**
Format No.: **5.1F-01**
Party Reference No.: **NIL**
Reporting Date: **27/06/2018**
Period of Analysis: **21/06/18 to 25/06/18**
Receipt Date: **20/06/2018**

Sample Description: **AMBIENT AIR QUALITY MONITORING**

General Information:-

Sample collected by	: Vardan EnviroLab Representative
Client Representative	: Dr. Ranjeet Kumar Bagariya
Sampling Location	: Village- Dhanappa
Latitude & Longitude	: 26°33'58.3" N & 73°46'48.6" E
Instrument Code	: RDS 03 & FPS 03
Instrument Used	: RDS, FPS with attachment
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 17/06/2018 to 18/06/2018
Time of Monitoring	: 24 hours
Ambient Temperature (°C)	: Min. 31 Max. 39
Surrounding Activity	: Human & Vehicular activities
Scope of Monitoring	: Regulatory Requirement
Sampling & Analysis Protocol	: IS-5182
Parameter Required	: As per Work Order

TEST RESULTS

S. No.	Parameter	Protocol	Result	Unit	NAAQS* Limit
1.	Particulate Matter (PM _{2.5})	*SOP No. VEL/SOP/01, Section No. SP 63	33.2	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS: 5182 (P-23), 2006	70.0	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS: 5182 (P-6), Reaffirmed-2006	26.1	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS: 5182 (P-2), Reaffirmed-2012	8.10	µg/m ³	80
5.	Carbon Monoxide (CO)	IS: 5182 (P-10), Reaffirmed-2003	0.58	mg/m ³	4
6.	Ammonia (NH ₃), µg/m ³	IS: 11255(P-6), Reaffirmed-2009	BDL	µg/m ³	400
7.	Lead (Pb), µg/m ³	IS: 5182 (P-22), Reaffirmed-2009	0.07	µg/m ³	1
8.	Benzene (C ₆ H ₆), µg/m ³	IS: 5182 (P-11), 2004	BDL	µg/m ³	05
9.	Benzo(a)pyrene, ng/m ³	IS: 5182 (P-12), 2004	BDL	ng/m ³	01
10.	Ozone (O ₃), µg/m ³	IS: 5182 (P-9), Reaffirmed-2003	10.3	µg/m ³	180
11.	Arsenic As, ng/ m ³	IS: 5182 (P-22), Reaffirmed-2009	BDL	ng/ m ³	6
12.	Nickel Ni, ng/ m ³	IS: 5182 (P-22), Reaffirmed-2009	BDL	ng/ m ³	20

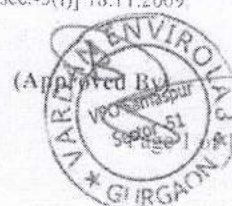
Note: * NAAQS - National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009

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Tested By)

(Checked By)

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Test Certificate

Sample Number: **VEL/JKWCW/AN/09** Report No.: **VEL/AN/1806/009**
 Name & Address of Party: **M/s JK White Cement Works, Gotan (Unit of JK Cement LTD.)** Format No.: **5.10 F-01**
Dhanappa Limestone Mines (ML No. 3/93), Vill- Dhanappa, Tehsil- Merta, District- Nagaur, Raj. Party Reference No.: **NIL**
 Reporting Date: **27/06/2018**
 Receipt Date: **20/06/2018**

Sample Description : **AMBIENT NOISE LEVEL MONITORING**

General Information:-

Sample collected by : Vardan EnviroLab Team
 Sampling Location : Dhanappa Lime Stone Mine
 Latitude & Longitude : 26°33'40.5" N & 73°46'18.2" E
 Instrument Used : Sound Level Meter
 Instrument Calibration Status : Calibrated
 Meteorological condition during monitoring : Clear Sky
 Date of Monitoring : 17/06/2018 to 18/06/2018
 Time of Monitoring : 06:00 AM to 06:00 AM
 Surrounding Activity : Human, Vehicular & Lime Stone Mining activities
 Scope of Monitoring : Regulatory Requirement
 Sampling & Analysis Protocol : IS-5182 & CPCB Guidelines
 Sampling Duration : 24 Hours
 Parameter Required : As per Work Order

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	L_{max}	IS 9989 R-2003	72.1	66.3	dB(A)
2.	L_{min}	IS 9989 R-2003	48.2	42.1	dB(A)
3.	L_{eq}	IS 9989 R-2003	63.22	54.20	dB(A)
4.	CPCB Limits in dB(A) Leq (Industrial Area)*		75.0	70.0	dB(A)

(Signature)
(Tested By)

(Signature)
(Checked By)



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Test Certificate

Sample Number: **VEL/ JKWCW/AN/10** Report No.: **VEL/AN/1806/010**
 Name & Address of Party: **M/s JK White Cement Works, Gotan** Format No.: **5.10 F-01**
(Unit of JK Cement LTD.) Party Reference No.: **NIL**
Dhanappa Limestone Mines (ML No. 3/93), Vill- Reporting Date: **27/06/2018**
Dhanappa, Tehsil- Merta, District- Nagaur, Raj. Receipt Date: **20/06/2018**

Sample Description : **AMBIENT NOISE LEVEL MONITORING**

General Information:-

Sample collected by	: Vardan EnviroLab Team
Sampling Location	: Village- Dhanappa
Latitude & Longitude	: 26°33'58.9" N & 73°46'48.2" E
Instrument Used	: Sound Level Meter
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 17/06/2018 to 18/06/2018
Time of Monitoring	: 06:00 AM to 06:00 AM
Surrounding Activity	: Human & Vehicular activities
Scope of Monitoring	: Regulatory Requirement
Sampling & Analysis Protocol	: IS-5182 & CPCB Guidelines
Sampling Duration	: 24 Hours
Parameter Required	: As per Work Order

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	L _{max}	IS 9989 R-2003	66.2	58.2	dB(A)
2.	L _{min}	IS 9989 R-2003	42.1	38.4	dB(A)
3.	L _{eq}	IS 9989 R-2003	53.26	43.18	dB(A)
4.	CPCB Limits in dB(A) Leq (Residential Area)*	-	55.0	45.0	dB(A)

Shashi
 (Tested By)

Manika
 (Checked By)



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