

Test Report

Sample Number:	VEL/MSK/AA/01	Report No.:	VEL/AA/2303/14/001
Issue to :	M/s MSK (JV) S-571, Greater Kailash Part- II, New Delhi-110048	Format No.:	7.8 F-03
Name & address of Project:	Stone Mine of AtelaKalan , Village- AtelaKalan, Tehsil- Charkhi Dadri, District- Bhiwani (HR).	Party Reference No.:	NIL
Sample Description :	Ambient Air Quality Monitoring	Reporting Date:	18/03/2023
		Period of Analysis:	14/03/2023 to 18/03/2023
		Receipt Date:	14/03/2023

General Information:-

Sample collected by	:	Vardan Enviro Lab Representative
Sampling Location	:	Near Mine Site
Instrument Used	:	RDS and FPS
Instrument Code	:	VEL/RDS/FPS/05
Instrument Calibration Status	:	Calibrated
Meteorological condition during monitoring	:	Clear Sky
Date of Monitoring	:	13/03/2023 to 14/03/2023
Time of Monitoring	:	09:30 AM to 09:30 AM
Ambient Temperature (°C)	:	Min.18.0°C, Max. 30.0°C
Surrounding Activity	:	Human & Vehicular Activities
Scope of Monitoring	:	Regulatory Requirement
Control measure if Any	:	IS: 5182 and CPCB Guidelines
Sampling & Analysis Protocol	:	As per Work Order

TEST RESULTS

S. No.	Parameter	Test Method	Result	Unit	NAAQS*
1.	Particulate Matter (PM _{2.5})	IS 5182 (P-24), Gravimetric Method	63.07	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS 5182 (P-23), Gravimetric Method	128.05	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS 5182 (P-6), Jacob & Hochheiser	20.15	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS 5182 (P-2), Modified West and Geake	11.75	µg/m ³	80
5.	Carbon Monoxide (CO)	IS 5182 (P-10), NDIR Method	0.81	mg/m ³	4

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

*Limit of CO for one hour monitoring.



Test Report

Sample Number:	VEL/MSK/AA/02	Report No.:	VEL/AA/2303/14/002
Issue to :	M/s MSK (JV) S-571, Greater Kailash Part- II, New Delhi-110048	Format No.:	7.8 F-03
Name & address of Project:	Stone Mine of AtelaKalan , Village- AtelaKalan, Tehsil- Charkhi Dadri, District- Bhiwani (HR).	Party Reference No.:	NIL
Sample Description :	Ambient Air Quality Monitoring	Reporting Date:	18/03/2023
		Period of Analysis:	14/03/2023 to 18/03/2023
		Receipt Date:	14/03/2023

General Information:-

Sample collected by	:	Vardan Enviro Lab Representative
Sampling Location	:	Loading Area
Instrument Used	:	RDS and FPS
Instrument Code	:	VEL/RDS/FPS/04
Instrument Calibration Status	:	Calibrated
Meteorological condition during monitoring	:	Clear Sky
Date of Monitoring	:	13/03/2023 to 14/03/2023
Time of Monitoring	:	09:30 AM to 09:30 AM
Ambient Temperature (°C)	:	Min.18.0°C, Max. 30.0°C
Surrounding Activity	:	Human & Vehicular Activities
Scope of Monitoring	:	Regulatory Requirement
Control measure if Any	:	IS: 5182 and CPCB Guidelines
Sampling & Analysis Protocol	:	As per Work Order

TEST RESULTS

S. No.	Parameter	Test Method	Result	Unit	NAAQS*
1.	Particulate Matter (PM _{2.5})	IS 5182 (P-24), Gravimetric Method	70.60	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS 5182 (P-23), Gravimetric Method	136.19	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS 5182 (P-6), Jacob & Hochheiser	24.80	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS 5182 (P-2), Modified West and Geake	10.16	µg/m ³	80
5.	Carbon Monoxide (CO)	IS 5182 (P-10), NDIR Method	0.82	mg/m ³	4

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

*Limit of CO for one hour monitoring.



Test Report

Sample Number: VEL/MSK/AA/03 Report No.: VEL/AA/2303/14/003
Issue to : M/s MSK (JV) Format No.: 7.8 F-03
S-571, Greater Kailash Part- II, Party Reference No.: NIL
New Delhi-110048
Name & address of Project: Stone Mine of AtelaKalan , Village- AtelaKalan, Reporting Date: 18/03/2023
Tehsil- Charkhi Dadri, District- Bhiwani (HR). Period of Analysis: 14/03/2023 to 18/03/2023
Receipt Date: 14/03/2023
Sample Description : Ambient Air Quality Monitoring

General Information:-

Sample collected by : Vardan Enviro Lab Representative
Sampling Location : 100 mtr from mine site
Instrument Used : RDS and FPS
Instrument Code : VEL/RDS/FPS/02
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 13/03/2023 to 14/03/2023
Time of Monitoring : 09:30 AM to 09:30 AM
Ambient Temperature (°C) : Min.18.0°C, Max. 30.0°C
Surrounding Activity : Human & Vehicular Activities
Scope of Monitoring : Regulatory Requirement
Control measure if Any : IS: 5182 and CPCB Guidelines
Sampling & Analysis Protocol : As per Work Order

TEST RESULTS

S. No.	Parameter	Test Method	Result	Unit	NAAQS*
1.	Particulate Matter (PM _{2.5})	IS 5182 (P-24), Gravimetric Method	63.06	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS 5182 (P-23), Gravimetric Method	121.85	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS 5182 (P-6), Jacob & Hochheiser	17.36	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS 5182 (P-2), Modified West and Geake	10.96	µg/m ³	80
5.	Carbon Monoxide (CO)	IS 5182 (P-10), NDIR Method	0.71	mg/m ³	4

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

*Limit of CO for one hour monitoring.



Test Report

Sample Number:	VEL/MSK/AA/04	Report No.:	VEL/AA/2303/14/004
Issue to :	M/s MSK (JV) S-571, Greater Kailash Part- II, New Delhi-110048	Format No.:	7.8 F-03
Name & address of Project:	Stone Mine of AtelaKalan , Village- AtelaKalan, Tehsil- Charkhi Dadri, District- Bhiwani (HR).	Party Reference No.:	NIL
Sample Description :	Ambient Air Quality Monitoring	Reporting Date:	18/03/2023
		Period of Analysis:	14/03/2023 to 18/03/2023
		Receipt Date:	14/03/2023

General Information:-

Sample collected by	:	Vardan Enviro Lab Representative
Sampling Location	:	100 mtr from mine site
Instrument Used	:	RDS and FPS
Instrument Code	:	VEL/RDS/FPS/03
Instrument Calibration Status	:	Calibrated
Meteorological condition during monitoring	:	Clear Sky
Date of Monitoring	:	13/03/2023 to 14/03/2023
Time of Monitoring	:	09:30 AM to 09:30 AM
Ambient Temperature (°C)	:	Min.18.0°C, Max. 30.0°C
Surrounding Activity	:	Human & Vehicular Activities
Scope of Monitoring	:	Regulatory Requirement
Control measure if Any	:	IS: 5182 and CPCB Guidelines
Sampling & Analysis Protocol	:	As per Work Order

TEST RESULTS

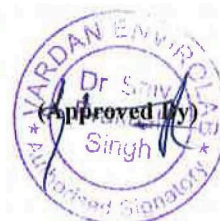
S. No.	Parameter	Test Method	Result	Unit	NAAQS*
1.	Particulate Matter (PM _{2.5})	IS 5182 (P-24), Gravimetric Method	58.01	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS 5182 (P-23), Gravimetric Method	117.20	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS 5182 (P-6), Jacob & Hochheiser	21.85	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS 5182 (P-2), Modified West and Geake	9.10	µg/m ³	80
5.	Carbon Monoxide (CO)	IS 5182 (P-10), NDIR Method	0.74	mg/m ³	4

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

*Limit of CO for one hour monitoring.

(Checked By)

(Approved By)



Test Report

Sample Number: VEL/MSK/AA/05 Report No.: VEL/AA/2303/14/005
Issue to : M/s MSK (JV) Format No.: 7.8 F-03
S-571, Greater Kailash Part- II, Party Reference No.: NIL
New Delhi-110048
Name & address of Project: Stone Mine of AtelaKalan , Village- AtelaKalan, Reporting Date: 18/03/2023
Tehsil- Charkhi Dadri, District- Bhiwani (HR). Period of Analysis: 14/03/2023 to 18/03/2023
Receipt Date: 14/03/2023
Sample Description : Ambient Air Quality Monitoring

General Information:-

Sample collected by : Vardan Enviro Lab Representative
Sampling Location : Village- Atela Kalan
Instrument Used : RDS and FPS
Instrument Code : VEL/RDS/FPS/06
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 13/03/2023 to 14/03/2023
Time of Monitoring : 09:30 AM to 09:30 AM
Ambient Temperature (°C) : Min.18.0°C, Max. 30.0°C
Surrounding Activity : Human & Vehicular Activities
Scope of Monitoring : Regulatory Requirement
Control measure if Any : IS: 5182 and CPCB Guidelines
Sampling & Analysis Protocol : As per Work Order

TEST RESULTS

S. No.	Parameter	Test Method	Result	Unit	NAAQS*
1.	Particulate Matter (PM _{2.5})	IS 5182 (P-24), Gravimetric Method	52.09	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS 5182 (P-23), Gravimetric Method	110.85	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS 5182 (P-6), Jacob & Hochheiser	22.47	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS 5182 (P-2), Modified West and Geake	9.07	µg/m ³	80
5.	Carbon Monoxide (CO)	IS 5182 (P-10), NDIR Method	0.60	mg/m ³	4

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

*Limit of CO for one hour monitoring.



Test Report

Sample Number:	VEL/MSK/AA/06	Report No.:	VEL/AA/2303/14/006
Issue to :	M/s MSK (JV) S-571, Greater Kailash Part- II, New Delhi-110048	Format No.:	7.8 F-03
Name & address of Project:	Stone Mine of AtelaKalan , Village- AtelaKalan, Tehsil- Charkhi Dadri, District- Bhiwani (HR).	Party Reference No.:	NIL
Sample Description :	Ambient Air Quality Monitoring	Reporting Date:	18/03/2023
		Period of Analysis:	14/03/2023 to 18/03/2023
		Receipt Date:	14/03/2023

General Information:-

Sample collected by	:	Vardan Enviro Lab Representative
Sampling Location	:	Village-Bilawal
Instrument Used	:	RDS and FPS
Instrument Code	:	VEL/RDS/FPS/07
Instrument Calibration Status	:	Calibrated
Meteorological condition during monitoring	:	Clear Sky
Date of Monitoring	:	13/03/2023 to 14/03/2023
Time of Monitoring	:	09:30 AM to 09:30 AM
Ambient Temperature (°C)	:	Min.18.0°C, Max. 30.0°C
Surrounding Activity	:	Human & Vehicular Activities
Scope of Monitoring	:	Regulatory Requirement
Control measure if Any	:	IS: 5182 and CPCB Guidelines
Sampling & Analysis Protocol	:	As per Work Order

TEST RESULTS

S. No.	Parameter	Test Method	Result	Unit	NAAQS*
1.	Particulate Matter (PM _{2.5})	IS 5182 (P-24), Gravimetric Method	54.90	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS 5182 (P-23), Gravimetric Method	114.53	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS 5182 (P-6), Jacob & Hochheiser	17.47	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS 5182 (P-2), Modified West and Geake	6.81	µg/m ³	80
5.	Carbon Monoxide (CO)	IS 5182 (P-10), NDIR Method	0.48	mg/m ³	4

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

*Limit of CO for one hour monitoring.



Test Report

Sample Number:	VEL/MSK/AA/07	Report No.:	VEL/AA/2303/14/007
Issue to :	M/s MSK (JV) S-571, Greater Kailash Part- II, New Delhi-110048	Format No.:	7.8 F-03
Name & address of Project:	Stone Mine of AtelaKalan , Village- AtelaKalan, Tehsil- Charkhi Dadri, District- Bhiwani (HR).	Party Reference No.:	NIL
Sample Description :	Ambient Air Quality Monitoring	Reporting Date:	18/03/2023
		Period of Analysis:	14/03/2023 to 18/03/2023
		Receipt Date:	14/03/2023

General Information:-

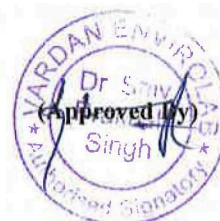
Sample collected by	:	Vardan Enviro Lab Representative
Sampling Location	:	Village-Atela Khurd
Instrument Used	:	RDS and FPS
Instrument Code	:	VEL/RDS/FPS/09
Instrument Calibration Status	:	Calibrated
Meteorological condition during monitoring	:	Clear Sky
Date of Monitoring	:	13/03/2023 to 14/03/2023
Time of Monitoring	:	09:30 AM to 09:30 AM
Ambient Temperature (°C)	:	Min.18.0°C, Max. 30.0°C
Surrounding Activity	:	Human & Vehicular Activities
Scope of Monitoring	:	Regulatory Requirement
Control measure if Any	:	IS: 5182 and CPCB Guidelines
Sampling & Analysis Protocol	:	As per Work Order

TEST RESULTS

S. No.	Parameter	Test Method	Result	Unit	NAAQS*
1.	Particulate Matter (PM _{2.5})	IS 5182 (P-24), Gravimetric Method	52.08	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS 5182 (P-23), Gravimetric Method	116.43	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS 5182 (P-6), Jacob & Hochheiser	19.84	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS 5182 (P-2), Modified West and Geake	8.72	µg/m ³	80
5.	Carbon Monoxide (CO)	IS 5182 (P-10), NDIR Method	0.51	mg/m ³	4

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

*Limit of CO for one hour monitoring.



Test Report

Sample Number:	VEL/MSK/AA/08	Report No.:	VEL/AA/2303/14/008
Issue to :	M/s MSK (JV) S-571, Greater Kailash Part- II, New Delhi-110048	Format No.:	7.8 F-03
Name & address of Project:	Stone Mine of AtelaKalan , Village- AtelaKalan, Tehsil- Charkhi Dadri, District- Bhiwani (HR).	Party Reference No.:	NIL
Sample Description :	Ambient Air Quality Monitoring	Reporting Date:	18/03/2023
		Period of Analysis:	14/03/2023 to 18/03/2023
		Receipt Date:	14/03/2023

General Information:-

Sample collected by	:	Vardan Enviro Lab Representative
Sampling Location	:	Village-Dohka Moji
Instrument Used	:	RDS and FPS
Instrument Code	:	VEL/RDS/FPS/10
Instrument Calibration Status	:	Calibrated
Meteorological condition during monitoring	:	Clear Sky
Date of Monitoring	:	13/03/2023 to 14/03/2023
Time of Monitoring	:	09:30 AM to 09:30 AM
Ambient Temperature (°C)	:	Min.18.0°C, Max. 30.0°C
Surrounding Activity	:	Human & Vehicular Activities
Scope of Monitoring	:	Regulatory Requirement
Control measure if Any	:	IS: 5182 and CPCB Guidelines
Sampling & Analysis Protocol	:	As per Work Order

TEST RESULTS

S. No.	Parameter	Test Method	Result	Unit	NAAQS*
1.	Particulate Matter (PM _{2.5})	IS 5182 (P-24), Gravimetric Method	49.36	µg/m ³	60
2.	Particulate Matter (PM ₁₀)	IS 5182 (P-23), Gravimetric Method	105.14	µg/m ³	100
3.	Nitrogen Dioxide (NO ₂)	IS 5182 (P-6), Jacob & Hochheiser	19.39	µg/m ³	80
4.	Sulphur Dioxide (SO ₂)	IS 5182 (P-2), Modified West and Geake	7.11	µg/m ³	80
5.	Carbon Monoxide (CO)	IS 5182 (P-10), NDIR Method	0.56	mg/m ³	4

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

*Limit of CO for one hour monitoring.



Test Report

Sample Number:	VEL/MSK/AN/01	Report No.:	VEL/AN/2303/14/001
Issue to :	M/s MSK (JV)	Format No.:	7.8 F-03
	S-571, Greater Kailash Part- II, New Delhi-110048.	Party Reference No.:	NIL
	Stone Mine of AtelaKalan , Village- AtelaKalan, Tehsil- Charkhi Dadri, District- Bhiwani (HR).	Reporting Date:	18/03/2023
Name & Address of Project:		Receipt Date:	14/03/2023
Sample Description:	Ambient Noise Level Monitoring		

General Information:-

Sample Collected By	: Vardan EnviroLab Representative
Sampling Location	: Near Mine Site
Sampling Instrument Used	: Sound Level Meter
Instrument Code	: VEL/SLM/03
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 13/03/2023 to 14/03/2023
Time of Monitoring	: 06:00 AM to 06:00 AM
Surrounding Activity	: Human & Vehicular Activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: No any
Sampling & Analysis Protocol	: IS-9989
Sampling Duration	: 24.0 Hours
Parameter Required	: As per Work Order

TEST RESULTS

S. No.	Parameters	Test Method	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	72.6	64.1	dB(A)
2.	L _{Min}	IS 9989	55.8	42.6	dB(A)
3.	L _{eq}	IS 9989	71.05	56.80	dB(A)
4.	#DGMS Limits in dB(*A) Leq (Mining Area)	-	75.0	70.0	dB(A)

Note: *A "decibel" is a unit in which noise is measured.

End of Report



Test Report

Sample Number: VEL/MSK/AN/02 **Report No.:** VEL/AN/2303/14/002
Issue to : M/s MSK (JV) **Format No.:** 7.8 F-03
S-571, Greater Kailash Part- II, New **Party Reference No.:** NIL
Delhi-110048. **Reporting Date:** 18/03/2023
Name & Address of Project: Stone Mine of AtelaKalan , Village- **Receipt Date:** 14/03/2023
AtelaKalan, Tehsil- Charkhi Dadri,
District- Bhiwani (HR).

Sample Description: Ambient Noise Level Monitoring

General Information:-

Sample Collected By : Vardan EnviroLab Representative
Sampling Location : **Loading Area**
Sampling Instrument Used : Sound Level Meter
Instrument Code : VEL/SLM/01
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : **13/03/2023 to 14/03/2023**
Time of Monitoring : 06:00 AM to 06:00 AM
Surrounding Activity : Human & Vehicular Activities
Scope of Monitoring : Regulatory Requirement
Control measure if Any : No any
Sampling & Analysis Protocol : IS-9989
Sampling Duration : 24.0 Hours
Parameter Required : As per Work Order

TEST RESULTS

S. No.	Parameters	Test Method	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	78.1	62.4	dB(A)
2.	L _{Min}	IS 9989	54.9	41.8	dB(A)
3.	L _{eq}	IS 9989	72.60	56.17	dB(A)
4.	#DGMS Limits in dB(*A) Leq (Mining Area)	-	75.0	70.0	dB(A)

Note *A "decibel" is a unit in which noise is measured.

End of Report





Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
ISO 9001 | ISO 14001 | ISO 45001

Test Report

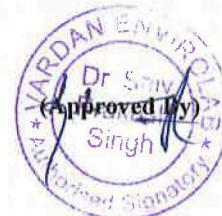
Sample Number: VEL/MSK/AN/03 **Report No.:** VEL/AN/2303/14/003
Issue to : M/s MSK (JV) **Format No.:** 7.8 F-03
Name & Address of Project: S-571, Greater Kailash Part- II, New Delhi-110048. **Party Reference No.:** NIL
Sample Description: Stone Mine of AtelaKalan , Village-AtelaKalan, Tehsil- Charkhi Dadri, District- Bhiwani (HR). **Reporting Date:** 18/03/2023
General Information:- **Receipt Date:** 14/03/2023
Sample Collected By : Vardan EnviroLab Representative
Sampling Location : 100 mtr from mine site
Sampling Instrument Used : Sound Level Meter
Instrument Code : VEL/SLM/05
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : 13/03/2023 to 14/03/2023
Time of Monitoring : 06:00 AM to 06:00 AM
Surrounding Activity : Human & Vehicular Activities
Scope of Monitoring : Regulatory Requirement
Control measure if Any : No any
Sampling & Analysis Protocol : IS-9989
Sampling Duration : 24.0 Hours
Parameter Required : As per Work Order

TEST RESULTS

S. No.	Parameters	Test Method	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	74.8	64.2	dB(A)
2.	L _{Min}	IS 9989	53.6	41.8	dB(A)
3.	L _{eq}	IS 9989	66.01	54.04	dB(A)
4.	#DGMS Limits in dB(*A) Leq (Mining Area)	-	75.0	70.0	dB(A)

Note *A "decibel" is a unit in which noise is measured.

End of Report



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Test Report

Sample Number:	VEL/MSK/AN/04	Report No.:	VEL/AN/2303/14/004
Issue to :	M/s MSK (JV) S-571, Greater Kailash Part- II, New Delhi-110048.	Format No.:	7.8 F-03
Name & Address of Project:	Stone Mine of AtelaKalan , Village- AtelaKalan, Tehsil- Charkhi Dadri, District- Bhiwani (HR).	Party Reference No.:	NIL
Sample Description:	Ambient Noise Level Monitoring	Reporting Date:	18/03/2023
		Receipt Date:	14/03/2023

General Information:-

Sample Collected By	: Vardan EnviroLab Representative
Sampling Location	: Haul Road
Sampling Instrument Used	: Sound Level Meter
Instrument Code	: VEL/SLM/03
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 13/03/2023 to 14/03/2023
Time of Monitoring	: 06:00 AM to 06:00 AM
Surrounding Activity	: Human & Vehicular Activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: No any
Sampling & Analysis Protocol	: IS-9989
Sampling Duration	: 24.0 Hours
Parameter Required	: As per Work Order

TEST RESULTS

S. No.	Parameters	Test Method	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	72.7	62.7	dB(A)
2.	L _{Min}	IS 9989	43.8	41.6	dB(A)
3.	L _{eq}	IS 9989	69.10	54.27	dB(A)
4.	#DGMS Limits in dB(*A) Leq (Mining Area)	-	75.0	70.0	dB(A)

Note *A "decibel" is a unit in which noise is measured.

End of Report



Test Report

Sample Number:	VEL/MSK/AN/05	Report No.:	VEL/AN/2303/14/005
Issue to :	M/s MSK (JV)	Format No.:	7.8 F-03
	S-571, Greater Kailash Part- II, New Delhi-110048.	Party Reference No.:	NIL
	Stone Mine of AtelaKalan , Village-AtelaKalan, Tehsil- Charkhi Dadri, District- Bhiwani (HR).	Reporting Date:	18/03/2023
Name & Address of Project:		Receipt Date:	14/03/2023
Sample Description:	Ambient Noise Level Monitoring		

General Information:-

Sample Collected By	: Vardan EnviroLab Representative
Sampling Location	: Village-Atela Kalan
Sampling Instrument Used	: Sound Level Meter
Instrument Code	: VEL/SLM/03
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 13/03/2023 to 14/03/2023
Time of Monitoring	: 06:00 AM to 06:00 AM
Surrounding Activity	: Human & Vehicular Activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: No any
Sampling & Analysis Protocol	: IS-9989
Sampling Duration	: 24.0 Hours
Parameter Required	: As per Work Order

TEST RESULTS

S. No.	Parameters	Test Method	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	62.8	51.5	dB(A)
2.	L _{Min}	IS 9989	43.7	36.2	dB(A)
3.	L _{eq}	IS 9989	51.06	43.16	dB(A)
4.	#DGMS Limits in dB(*A) Leq (Mining Area)	-	75.0	70.0	dB(A)

Note: *A "decibel" is a unit in which noise is measured.

End of Report



Test Report

Sample Number:	VEL/MSK/AN/06	Report No.:	VEL/AN/2303/14/006
Issue to :	M/s MSK (JV) S-571, Greater Kailash Part- II, New Delhi-110048.	Format No.:	7.8 F-03
Name & Address of Project:	Stone Mine of AtelaKalan , Village- AtelaKalan, Tehsil- Charkhi Dadri, District- Bhiwani (HR).	Party Reference No.:	NIL
Sample Description:	Ambient Noise Level Monitoring	Reporting Date:	18/03/2023
		Receipt Date:	14/03/2023

General Information:-

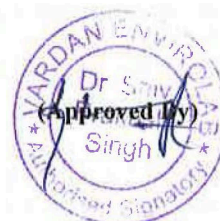
Sample Collected By	: Vardan EnviroLab Representative
Sampling Location	: Village-Bilawal
Sampling Instrument Used	: Sound Level Meter
Instrument Code	: VEL/SLM/06
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 13/03/2023 to 14/03/2023
Time of Monitoring	: 06:00 AM to 06:00 AM
Surrounding Activity	: Human & Vehicular Activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: No any
Sampling & Analysis Protocol	: IS-9989
Sampling Duration	: 24.0 Hours
Parameter Required	: As per Work Order

TEST RESULTS

S. No.	Parameters	Test Method	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	64.6	52.8	dB(A)
2.	L _{Min}	IS 9989	42.1	33.7	dB(A)
3.	L _{eq}	IS 9989	56.82	45.01	dB(A)
4.	#DGMS Limits in dB(*A) Leq (Mining Area)	-	75.0	70.0	dB(A)

Note *A "decibel" is a unit in which noise is measured.

End of Report



Test Report

Sample Number:	VEL/MSK/AN/07	Report No.:	VEL/AN/2303/14/007
Issue to :	M/s MSK (JV)	Format No.:	7.8 F-03
	S-571, Greater Kailash Part- II, New Delhi-110048.	Party Reference No.:	NIL
	Stone Mine of AtelaKalan , Village- AtelaKalan, Tehsil- Charkhi Dadri, District- Bhiwani (HR).	Reporting Date:	18/03/2023
Name & Address of Project:		Receipt Date:	14/03/2023
Sample Description:	Ambient Noise Level Monitoring		

General Information:-

Sample Collected By	: Vardan EnviroLab Representative
Sampling Location	: Village- Atela Khurd
Sampling Instrument Used	: Sound Level Meter
Instrument Code	: VEL/SLM/08
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 13/03/2023 to 14/03/2023
Time of Monitoring	: 06:00 AM to 06:00 AM
Surrounding Activity	: Human & Vehicular Activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: No any
Sampling & Analysis Protocol	: IS-9989
Sampling Duration	: 24.0 Hours
Parameter Required	: As per Work Order

TEST RESULTS

S. No.	Parameters	Test Method	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	65.8	51.7	dB(A)
2.	L _{Min}	IS 9989	41.7	35.1	dB(A)
3.	L _{eq}	IS 9989	54.82	42.94	dB(A)
4.	#DGMS Limits in dB(*A) Leq (Mining Area)	-	75.0	70.0	dB(A)

Note *A "decibel" is a unit in which noise is measured.

End of Report





Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number: VEL/MSK/AN/08 **Report No.:** VEL/AN/2303/14/008
Issue to : M/s MSK (JV) **Format No.:** 7.8 F-03
S-571, Greater Kailash Part- II, New Delhi-110048. **Party Reference No.:** NIL
Reporting Date: 18/03/2023
Receipt Date: 14/03/2023

Name & Address of Project: Stone Mine of AtelaKalan , Village- AtelaKalan, Tehsil- Charkhi Dadri, District- Bhiwani (HR).

Sample Description: Ambient Noise Level Monitoring

General Information:-

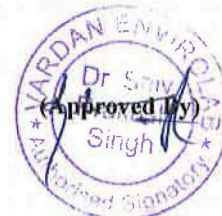
Sample Collected By : Vardan EnviroLab Representative
Sampling Location : **Village- Dohka Moji**
Sampling Instrument Used : Sound Level Meter
Instrument Code : VEL/SLM/08
Instrument Calibration Status : Calibrated
Meteorological condition during monitoring : Clear Sky
Date of Monitoring : **13/03/2023 to 14/03/2023**
Time of Monitoring : 06:00 AM to 06:00 AM
Surrounding Activity : Human & Vehicular Activities
Scope of Monitoring : Regulatory Requirement
Control measure if Any : No any
Sampling & Analysis Protocol : IS-9989
Sampling Duration : 24.0 Hours
Parameter Required : As per Work Order

TEST RESULTS

S. No.	Parameters	Test Method	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	66.9	58.1	dB(A)
2.	L _{Min}	IS 9989	43.3	34.9	dB(A)
3.	L _{eq}	IS 9989	57.81	48.02	dB(A)
4.	#DGMS Limits in dB(*A) Leq (Mining Area)	-	75.0	70.0	dB(A)

Note *A "decibel" is a unit in which noise is measured.

End of Report



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Test Report

Sample Number:	VEL/MSK/W/01	Report No.:	VEL/W/2211/17/001
Name & Address of the Project:	M/s MSK (JV) S-571, Greater Kailash Part- II, New Delhi-110048	Format No.:	7.8 F-03
		Party Reference No.:	NIL
		Reporting Date:	21/11/2022
		Period of Analysis:	17/11/2022 to 21/11/2022
Name & Address of Project	Stone Mine of Atela Kalan ,Village-AtelaKalan, Tehsil- Charkhi Dadri, District-Bhiwani (HR).	Recept Date:	17/11/2022
Sample Description:	Ground Water	Sampling Date:	16/11/2022
Sample Location:	Near Mine site	Sampling Quantity:	5.0 Liter + 250 ml
Sample Collected by:	Vardan EnviroLab Representative	Sampling Type:	Grab
Preservation:	Ice Box	Parameter Required:	As per work order
Sampling and Analysis Protocol:	APHA 23 rd Edition 2017 & IS 3025		

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
1.	pH (at 25 °C)	IS3025 (P-11)	7.60	--	6.5 to 8.5	No Relaxation
2.	Colour	IS3025 (P-4)	BLQ(LOQ-1.0)	Hazen	5	15
3.	Turbidity	IS3025 (P-10)	BLQ(LOQ-1.0)	NTU	1	5
4.	Odour	IS3025 (P-5)	Agreeable	--	Agreeable	Agreeable
5.	Taste	IS3025 (P-8)	Agreeable	--	Agreeable	Agreeable
6.	Total Hardness (as CaCO ₃)	IS3025 (P-21)	213.07	mg/l	200	600
7.	Calcium (as Ca)	IS3025 (P-40)	58.26	mg/l	75	200
8.	Alkalinity (as CaCO ₃)	IS3025 (P-23)	176.18	mg/l	200	600
9.	Chloride (as Cl)	IS 3025 (P-32)	58.47	mg/l	250	1000
10.	Cyanide (as CN)	IS 3025 (P-27)	BLQ(LOQ-0.02)	mg/l	0.05	No Relaxation
11.	Magnesium (as Mg)	IS3025 (P-46)	16.45	mg/l	30	100
12.	Total Dissolved Solids	IS3025 (P-16)	378.00	mg/l	500	2000
13.	Sulphate(as SO ₄)	IS3025 (P-24)	32.85	mg/l	200	400
14.	Fluoride (as F)	IS 3025 (P-60)	0.38	mg/l	1.0	1.5
15.	Nitrate (as NO ₃)	IS3025 (P-34)	10.13	mg/l	45	No Relaxation
16.	Iron (as Fe)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	0.39	mg/l	1.0	No relaxation
17.	Aluminum (as Al)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.002)	mg/l	0.03	0.2
18.	Boron	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.01)	mg/l	0.5	2.4
19.	Total Chromium (as Cr)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.01)	mg/l	0.05	No Relaxation



Test Report

Sample No.: VEL/MSK/W/01			Report No: VEL/W/2211/17/001			
S. No	Parameter	Test-Method	Result	Unit	Limits of IS:10500-2012	
					Requirement (Acceptable) Limit	Permissible limit in the Absence of Alternate Source
20.	Phenolic Compounds	IS3025 (P-43)	BLQ(LOQ-0.0005)	mg/l	0.001	0.002
21.	Mineral Oil	IS 3025 (P-39)	BLQ(LOQ-0.1)	mg/l	1.0	No Relaxation
22.	Anionic Detergents (as MBAS)	IS3025 (P-68)	BLQ(LOQ-0.05)	mg/l	0.2	1.0
23.	Zinc (as Zn)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	1.14	mg/l	5	15
24.	Copper (as Cu)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	0.08	mg/l	0.05	1.5
25.	Manganese (as Mn)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.01)	mg/l	0.1	0.3
26.	Cadmium (as Cd)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.002)	mg/l	0.003	No Relaxation
27.	Lead (as Pb)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.002)	mg/l	0.01	No Relaxation
28.	Selenium (as Se)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.001)	mg/l	0.01	No Relaxation
29.	Arsenic (as As)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.005)	mg/l	0.01	No Relaxation
30.	Mercury (as Hg)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.0005)	mg/l	0.001	No Relaxation
31.	Total Coliform	IS 15185	Absent	/100ml	Shall not be detectable in any 100 ml sample	
32.	E. coli	IS 15185	Absent	/ 100ml	Shall not be detectable in any 100 ml sample	

Note:-This Report Complies as per IS: 10500:2012 (RA: 2018)

*BLQ-Below Limit of Quantification, **LOQ- Limit of Quantification.

©Amendment No.1 in June 2015 (Limits of Iron & Arsenic) and Amendment No.2 in Sept. 2018 (Limit of Boron & IS method of Total Coliform & E.Coli) & Amendment No.3 in Feb. 2021 (Limit of Mineral Oil).

End of Report





Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number: VEL/MSK/W/02
Name & Address of the Project: M/s MSK (JV)
S-571, Greater Kailash Part- II, New Delhi-110048

Report No.: VEL/W/2211/17/002
Format No.: 7.8 F-03
Party Reference No.: NIL
Reporting Date: 21/11/2022
Period of Analysis: 17/11/2022 to 21/11/2022
Receipt Date: 17/11/2022

Name & Address of Project: Stone Mine of Atela Kalan ,Village-AtelaKalan, Tehsil- Charkhi Dadri, District-Bhiwani (HR).

Sample Description: Ground Water
Sample Location: Village -Bilawal
Sample Collected by: Vardan EnviroLab Representative
Preservation: Ice Box
Sampling and Analysis Protocol: APHA 23rd Edition 2017 & IS 3025

Sampling Date: 16/11/2022
Sampling Quantity: 5.0 Liter + 250 ml
Sampling Type: Grab
Parameter Required: As per work order

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
1.	pH (at 25 °C)	IS3025 (P-11)	7.51	--	6.5 to 8.5	No Relaxation
2.	Colour	IS3025 (P-4)	BLQ(LOQ-1.0)	Hazen	5	15
3.	Turbidity	IS3025 (P-10)	BLQ(LOQ-1.0)	NTU	1	5
4.	Odour	IS3025 (P-5)	Agreeable	--	Agreeable	Agreeable
5.	Taste	IS3025 (P-8)	Agreeable	--	Agreeable	Agreeable
6.	Total Hardness (as CaCO ₃)	IS3025 (P-21)	269.02	mg/l	200	600
7.	Calcium (as Ca)	IS3025 (P-40)	84.14	mg/l	75	200
8.	Alkalinity (as CaCO ₃)	IS3025 (P-23)	242.73	mg/l	200	600
9.	Chloride (as Cl)	IS 3025 (P-32)	76.91	mg/l	250	1000
10.	Cyanide (as CN)	IS 3025 (P-27)	BLQ(LOQ-0.02)	mg/l	0.05	No Relaxation
11.	Magnesium (as Mg)	IS3025 (P-46)	14.36	mg/l	30	100
12.	Total Dissolved Solids	IS3025 (P-16)	478.00	mg/l	500	2000
13.	Sulphate(as SO ₄)	IS3025 (P-24)	40.15	mg/l	200	400
14.	Fluoride (as F)	IS 3025 (P-60)	0.43	mg/l	1.0	1.5
15.	Nitrate (as NO ₃)	IS3025 (P-34)	15.90	mg/l	45	No Relaxation
16.	Iron (as Fe)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	0.22	mg/l	1.0	No relaxation
17.	Aluminum (as Al)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.002)	mg/l	0.03	0.2
18.	Boron	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.01)	mg/l	0.5	2.4
19.	Total Chromium (as Cr)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.01)	mg/l	0.05	No Relaxation



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Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
ISO 9001 | ISO 14001 | ISO 45001

Test Report

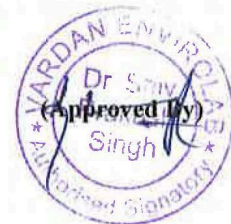
Sample No.: VEL/MSK/W/02			Report No: VEL/W/2211/17/002			
S. No	Parameter	Test-Method	Result	Unit	Limits of IS:10500-2012	
					Requirement (Acceptable) Limit	Permissible limit in the Absence of Alternate Source
20.	Phenolic Compounds	IS3025 (P-43)	BLQ(LOQ-0.0005)	mg/l	0.001	0.002
21.	Mineral Oil	IS 3025 (P-39)	BLQ(LOQ-0.1)	mg/l	1.0	No Relaxation
22.	Anionic Detergents (as MBAS)	IS3025 (P-68)	BLQ(LOQ-0.05)	mg/l	0.2	1.0
23.	Zinc (as Zn)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	1.24	mg/l	5	15
24.	Copper (as Cu)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	0.15	mg/l	0.05	1.5
25.	Manganese (as Mn)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.01)	mg/l	0.1	0.3
26.	Cadmium (as Cd)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.002)	mg/l	0.003	No Relaxation
27.	Lead (as Pb)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.002)	mg/l	0.01	No Relaxation
28.	Selenium (as Se)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.001)	mg/l	0.01	No Relaxation
29.	Arsenic (as As)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.005)	mg/l	0.01	No Relaxation
30.	Mercury (as Hg)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.0005)	mg/l	0.001	No Relaxation
31.	Total Coliform	IS 15185	Absent	/100ml	Shall not be detectable in any 100 ml sample	
32.	E. coli	IS 15185	Absent	/ 100ml	Shall not be detectable in any 100 ml sample	

Note:-This Report Complies as per IS: 10500:2012 (RA: 2018)

*BLQ-Below Limit of Quantification, **LOQ- Limit of Quantification.

©Amendment No.1 in June 2015 (Limits of Iron & Arsenic) and Amendment No.2 in Sept. 2018 (Limit of Boron & IS method of Total Coliform & E.Coli) & Amendment No.3 in Feb. 2021 (Limit of Mineral Oil).

End of Report





Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051 (Haryana)
ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Number: VEL/MSK/W/01
Name & Address of the Project: M/s MSK (JV)
S-571, Greater Kailash Part- II, New Delhi-110048

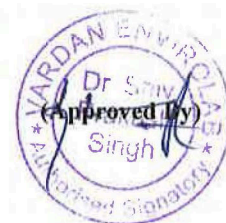
Report No.: VEL/W/2301/20/001
Format No.: 7.8 F-03
Party Reference No.: NIL
Reporting Date: 24/01/2023
Period of Analysis: 20/01/2023-24/01/2023
Receipt Date: 20/01/2023

Name & Address of Project: Stone Mine of Atela Kalan , Village-AtelaKalan, Tehsil- Charkhi Dadri, District-Bhiwani (HR)

Sample Description: Ground Water
Sample Location: Near Mine site
Sample Collected by: Vardan EnviroLab Representative
Preservation: Ice Box
Sampling and Analysis Protocol: APHA 23rd Edition 2017 & IS 3025

Sampling Date: 19/01/2023
Sampling Quantity: 5.0 Liter + 250 ml
Sampling Type: Grab
Parameter Required: As per work order

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
1.	pH (at 25 °C)	IS3025 (P-11)	7.54	--	6.5 to 8.5	No Relaxation
2.	Colour	IS3025 (P-4)	BLQ(LOQ-1.0)	Hazen	5	15
3.	Turbidity	IS3025 (P-10)	BLQ(LOQ-1.0)	NTU	1	5
4.	Odour	IS3025 (P-5)	Agreeable	--	Agreeable	Agreeable
5.	Taste	IS3025 (P-8)	Agreeable	--	Agreeable	Agreeable
6.	Total Hardness (as CaCO ₃)	IS3025 (P-21)	232.06	mg/l	200	600
7.	Calcium (as Ca)	IS3025 (P-40)	75.10	mg/l	75	200
8.	Alkalinity (as CaCO ₃)	IS3025 (P-23)	194.06	mg/l	200	600
9.	Chloride (as Cl)	IS 3025 (P-32)	61.59	mg/l	250	1000
10.	Cyanide (as CN)	IS 3025 (P-27)	BLQ(LOQ-0.02)	mg/l	0.05	No Relaxation
11.	Magnesium (as Mg)	IS3025 (P-46)	10.86	mg/l	30	100
12.	Total Dissolved Solids	IS3025 (P-16)	402.00	mg/l	500	2000
13.	Sulphate(as SO ₄)	IS3025 (P-24)	33.08	mg/l	200	400
14.	Fluoride (as F)	IS 3025 (P-60)	0.40	mg/l	1.0	1.5
15.	Nitrate (as NO ₃)	IS3025 (P-34)	11.60	mg/l	45	No Relaxation
16.	Iron (as Fe)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	0.24	mg/l	1.0	No relaxation
17.	Aluminum (as Al)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.002)	mg/l	0.03	0.2
18.	Boron	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.01)	mg/l	0.5	2.4
19.	Total Chromium (as Cr)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.01)	mg/l	0.05	No Relaxation



Test Report

Sample No.: VEL/MSK/W/01					Report No: VEL/W/2301/20/001	
S. No	Parameter	Test-Method	Result	Unit	Limits of IS:10500-2012	
					Requirement (Acceptable) Limit	Permissible limit in the Absence of Alternate Source
20.	Phenolic Compounds	IS3025 (P-43)	BLQ(LOQ-0.0005)	mg/l	0.001	0.002
21.	Mineral Oil	IS 3025 (P-39)	BLQ(LOQ-0.1)	mg/l	1.0	No Relaxation
22.	Anionic Detergents (as MBAS)	IS3025 (P-68)	BLQ(LOQ-0.05)	mg/l	0.2	1.0
23.	Zinc (as Zn)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	0.44	mg/l	5	15
24.	Copper (as Cu)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	0.11	mg/l	0.05	1.5
25.	Manganese (as Mn)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.01)	mg/l	0.1	0.3
26.	Cadmium (as Cd)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.002)	mg/l	0.003	No Relaxation
27.	Lead (as Pb)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.002)	mg/l	0.01	No Relaxation
28.	Selenium (as Se)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.001)	mg/l	0.01	No Relaxation
29.	Arsenic (as As)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.005)	mg/l	0.01	No Relaxation
30.	Mercury (as Hg)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.0005)	mg/l	0.001	No Relaxation
31.	Total Coliform	IS 15185	Absent	/100ml	Shall not be detectable in any 100 ml sample	
32.	E. coli	IS 15185	Absent	/ 100ml	Shall not be detectable in any 100 ml sample	

Note:-This Report Complies as per IS: 10500:2012 (RA: 2018)

*BLQ-Below Limit of Quantification, **LOQ- Limit of Quantification.

®Amendment No.1 in June 2015 (Limits of Iron & Arsenic) and Amendment No.2 in Sept. 2018 (Limit of Boron & IS method of Total Coliform & E.Coli) & Amendment No.3 in Feb. 2021 (Limit of Mineral Oil).

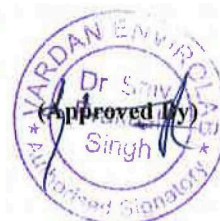
End of Report



Test Report

Sample Number:	VEL/MSK/W/02	Report No.:	VEL/W/2301/20/002
Name & Address of the Project:	M/s MSK (JV) S-571, Greater Kailash Part- II, New Delhi-110048	Format No.:	7.8 F-03
		Party Reference No.:	NIL
		Reporting Date:	24/01/2023
		Period of Analysis:	20/01/2023-24/01/2023
Name & Address of Project	Stone Mine of Atela Kalan , Village-AtelaKalan, Tehsil- Charkhi Dadri, District-Bhiwani (HR)	Receipt Date:	20/01/2023
Sample Description:	Ground Water	Sampling Date:	19/01/2023
Sample Location:	Village -Bilawal	Sampling Quantity:	5.0 Liter + 250 ml
Sample Collected by:	Vardan EnviroLab Representative	Sampling Type:	Grab
Preservation:	Ice Box	Parameter Required:	As per work order
Sampling and Analysis Protocol:	APHA 23 rd Edition 2017 & IS 3025		

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
1.	pH (at 25 °C)	IS3025 (P-11)	7.63	--	6.5 to 8.5	No Relaxation
2.	Colour	IS3025 (P-4)	BLQ(LOQ-1.0)	Hazen	5	15
3.	Turbidity	IS3025 (P-10)	BLQ(LOQ-1.0)	NTU	1	5
4.	Odour	IS3025 (P-5)	Agreeable	--	Agreeable	Agreeable
5.	Taste	IS3025 (P-8)	Agreeable	--	Agreeable	Agreeable
6.	Total Hardness (as CaCO ₃)	IS3025 (P-21)	226.05	mg/l	200	600
7.	Calcium (as Ca)	IS3025 (P-40)	61.84	mg/l	75	200
8.	Alkalinity (as CaCO ₃)	IS3025 (P-23)	158.18	mg/l	200	600
9.	Chloride (as Cl)	IS 3025 (P-32)	52.74	mg/l	250	1000
10.	Cyanide (as CN)	IS 3025 (P-27)	BLQ(LOQ-0.02)	mg/l	0.05	No Relaxation
11.	Magnesium (as Mg)	IS3025 (P-46)	17.44	mg/l	30	100
12.	Total Dissolved Solids	IS3025 (P-16)	486.00	mg/l	500	2000
13.	Sulphate(as SO ₄)	IS3025 (P-24)	31.07	mg/l	200	400
14.	Fluoride (as F)	IS 3025 (P-60)	0.30	mg/l	1.0	1.5
15.	Nitrate (as NO ₃)	IS3025 (P-34)	9.80	mg/l	45	No Relaxation
16.	Iron (as Fe)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	0.22	mg/l	1.0	No relaxation
17.	Aluminum (as Al)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.002)	mg/l	0.03	0.2
18.	Boron	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.01)	mg/l	0.5	2.4
19.	Total Chromium (as Cr)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.01)	mg/l	0.05	No Relaxation



Test Report

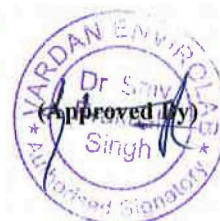
Sample No.: VEL/MSK/W/02				Report No: VEL/W/2301/20/002		
S. No	Parameter	Test-Method	Result	Unit	Limits of IS:10500-2012	
					Requirement (Acceptable) Limit	Permissible limit in the Absence of Alternate Source
20.	Phenolic Compounds	IS3025 (P-43)	BLQ(LOQ-0.0005)	mg/l	0.001	0.002
21.	Mineral Oil	IS 3025 (P-39)	BLQ(LOQ-0.1)	mg/l	1.0	No Relaxation
22.	Anionic Detergents (as MBAS)	IS3025 (P-68)	BLQ(LOQ-0.05)	mg/l	0.2	1.0
23.	Zinc (as Zn)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	0.84	mg/l	5	15
24.	Copper (as Cu)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	0.14	mg/l	0.05	1.5
25.	Manganese (as Mn)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.01)	mg/l	0.1	0.3
26.	Cadmium (as Cd)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.002)	mg/l	0.003	No Relaxation
27.	Lead (as Pb)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.002)	mg/l	0.01	No Relaxation
28.	Selenium (as Se)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.001)	mg/l	0.01	No Relaxation
29.	Arsenic (as As)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.005)	mg/l	0.01	No Relaxation
30.	Mercury (as Hg)	VEL/STP/ICP/W-01, Issue No.-01, 01/11/21	BLQ(LOQ-0.0005)	mg/l	0.001	No Relaxation
31.	Total Coliform	IS 15185	Absent	/100ml	Shall not be detectable in any 100 ml sample	
32.	E. coli	IS 15185	Absent	/ 100ml	Shall not be detectable in any 100 ml sample	

Note:-This Report Complies as per IS: 10500:2012 (RA: 2018)

*BLQ-Below Limit of Quantification, **LOQ- Limit of Quantification.

©Amendment No.1 in June 2015 (Limits of Iron & Arsenic) and Amendment No.2 in Sept. 2018 (Limit of Boron & IS method of Total Coliform & E.Coli) & Amendment No.3 in Feb. 2021 (Limit of Mineral Oil).

End of Report

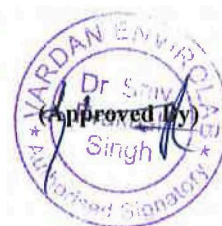


Test Report

Sample Number:	VEL/MSK/S/01	Report No.:	VEL/S/2303/14/001
Issued To:	M/s MSK (JV) S-571, Greater Kailash Part- II, New Delhi-110048	Format No.:	7.8 F-03
Name & Address of Project:	Stone Mine of AtelaKalan , Village- AtelaKalan, Tehsil- Charkhi Dadri, District- Bhiwani (HR).	Party Reference No.:	NIL
Sample Description:	SOIL SAMPLE	Reporting Date:	18/03/2023
Sample Location:	Near Mine Site	Period of Analysis:	14/03/2023 to 18/03/2023
Sample Collected by:	Vardan EnviroLab Representative	Receipt Date:	14/03/2023
Sampling and Analysis Protocol:	IS 2720 & STP	Sampling Date:	13/03/2023
Parameter Required:	As per work order	Packing Status:	Temp Sealed
		Sampling Quantity:	2.0 Kg
		Sampling Type:	Composite

S. No.	Parameter	Test-Method	Result	Unit
1.	pH (at 25 °C)	IS : 2720 (P-26)	7.51	--
2.	Conductivity	IS:14767	0.259	mS/cm
3.	Soil Texture	VEL/STP/EN/64, Issue No.- 01, 01/11/2021	Sandy Loam	--
4.	Color	VEL/STP/EN/67, Issue No.- 01, 01/11/2021	Yellowish Brown	--
5.	Water holding capacity	VEL/STP/EN/86, Issue No.- 01, 01/11/2021	31.85	%
6.	Bulk density	VEL/STP/EN/59, Issue No.- 01, 01/11/2021	1.50	gm/cc
7.	Chloride as Cl	VEL/STP/EN/69, Issue No.- 01, 01/11/2021	34.16	mg/100kg
8.	Calcium as Ca	VEL/STP/EN/72, Issue No.- 01, 01/11/2021	21.03	mg/100kg
9.	Sodium as Na	VEL/STP/EN/62, Issue No.- 01, 01/11/2021	38.84	mg/kg
10.	Potassium as K	VEL/STP/EN/61, Issue No.- 01, 01/11/2021	110.94	kg./hec.
11.	Organic Matter	IS 2720 (P-22), Titrimetric Method	0.30	%
12.	Magnesium as Mg	VEL/STP/EN/72, Issue No. 01, 01/11/2021	10.48	mg/100kg
13.	Available Nitrogen as N	IS:14684 Distillation Method	119.17	kg./hec.
14.	Available Phosphorus	VEL/STP/EN/73, Issue No.- 01, 01/11/2021	16.85	kg./hec.
15.	Zinc (as Zn)	STP NO. VEL/STP/EN/165, Issue No.- 01, 20/06/22	0.99	mg/kg
16.	Manganese (as Mn)	STP NO. VEL/STP/EN/165, Issue No.- 01, 20/06/22	1.32	mg/kg
17.	Lead (as Pb)	STP NO. VEL/STP/EN/165, Issue No.- 01, 20/06/22	0.39	mg/kg
18.	Cadmium as Cd	STP NO. VEL/STP/EN/165, Issue No.- 01, 20/06/22	0.44	mg/kg
19.	Chromium (as Cr)	STP NO. VEL/STP/EN/165, Issue No.- 01, 20/06/22	0.32	mg/kg
20.	Copper (as Cu)	STP NO. VEL/STP/EN/165, Issue No.- 01, 20/06/22	0.75	mg/kg

Note- STP- Standard Testing Procedure.



Test Report

Sample Number:	VEL/MSK/S/02	Report No.:	VEL/S/2303/14/002
Issued To:	M/s MSK (JV) S-571, Greater Kailash Part- II, New Delhi-110048	Format No.:	7.8 F-03
Name & Address of Project:	Stone Mine of AtelaKalan , Village- AtelaKalan, Tehsil- Charkhi Dadri, District- Bhiwani (HR).	Party Reference No.:	NIL
Sample Description:	SOIL SAMPLE	Reporting Date:	18/03/2023
Sample Location:	Village -Bilawal	Period of Analysis:	14/03/2023 to 18/03/2023
Sample Collected by:	Vardan EnviroLab Representative	Receipt Date:	14/03/2023
Sampling and Analysis Protocol:	IS 2720 & STP	Sampling Date:	13/03/2023
Parameter Required:	As per work order	Packing Status:	Temp Sealed
		Sampling Quantity:	2.0 Kg
		Sampling Type:	Composite

S. No.	Parameter	Test-Method	Result	Unit
1.	pH (at 25 °C)	IS : 2720 (P-26)	7.61	--
2.	Conductivity	IS:14767	0.276	mS/cm
3.	Soil Texture	VEL/STP/EN/64, Issue No.- 01, 01/11/2021	Sandy Loam	--
4.	Color	VEL/STP/EN/67, Issue No.- 01, 01/11/2021	Yellowish Brown	--
5.	Water holding capacity	VEL/STP/EN/86, Issue No.- 01, 01/11/2021	33.08	%
6.	Bulk density	VEL/STP/EN/59, Issue No.- 01, 01/11/2021	1.44	gm/cc
7.	Chloride as Cl	VEL/STP/EN/69, Issue No.- 01, 01/11/2021	42.81	mg/100kg
8.	Calcium as Ca	VEL/STP/EN/72, Issue No.- 01, 01/11/2021	28.05	mg/100kg
9.	Sodium as Na	VEL/STP/EN/62, Issue No.- 01, 01/11/2021	36.10	mg/kg
10.	Potassium as K	VEL/STP/EN/61, Issue No.- 01, 01/11/2021	119.27	kg./hec.
11.	Organic Matter	IS 2720 (P-22), Titrimetric Method	0.39	%
12.	Magnesium as Mg	VEL/STP/EN/72, Issue No. 01, 01/11/2021	10.62	mg/100kg
13.	Available Nitrogen as N	IS:14684 Distillation Method	146.84	kg./hec.
14.	Available Phosphorus	VEL/STP/EN/73, Issue No.- 01, 01/11/2021	20.15	kg./hec.
15.	Zinc (as Zn)	STP NO. VEL/STP/EN/165, Issue No.- 01, 20/06/22	0.95	mg/kg
16.	Manganese (as Mn)	STP NO. VEL/STP/EN/165, Issue No.- 01, 20/06/22	1.40	mg/kg
17.	Lead (as Pb)	STP NO. VEL/STP/EN/165, Issue No.- 01, 20/06/22	0.42	mg/kg
18.	Cadmium as Cd	STP NO. VEL/STP/EN/165, Issue No.- 01, 20/06/22	0.50	mg/kg
19.	Chromium (as Cr)	STP NO. VEL/STP/EN/165, Issue No.- 01, 20/06/22	0.28	mg/kg
20.	Copper (as Cu)	STP NO. VEL/STP/EN/165, Issue No.- 01, 20/06/22	0.82	mg/kg

Note- STP- Standard Testing Procedure.

