



NOIDA TESTING LABORATORIES

(A Government of India Approved Testing Laboratory)

(An ISO : 9001 : 2015, ISO 45001 : 2018 (OH&S) Certified & NABL Accredited Laboratory)

MoEF & CC (Ministry of Environment, Forest & Climate Change), UPPCB Recognized Laboratory

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Analyzing for an Assured Future

TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Ambient Air Quality Analysis	AAQ-090523-01	15/05/2023

Issued To: M/s S.N.S. (Minerals) Pvt. Ltd.
 Name of Mine: Tamoriya Limestone & Dolomite Mine, Area- 42.567 Hect.,
 Location: Village-Tamoriya, Tehsil- Maihar, District- Satna (M.P.)

Sampling & Analysis Data

Sample Drawn On : 08/05/2023
 Sample Drawn By : NTL Representative
 Sampling Location : Core Zone
 Sampling Plan & Procedure : SOP-AAQ/08
 Analysis Duration : 09/05/2023 to 15/05/2023
 Sampling Instrument Used : RDS Sampler, FPS Sampler
 Weather Condition : Clear

TEST RESULT

S.No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM ₁₀)	IS:5182 Part-XXIII	58.40	µg /m ³	100.0
2.	Particulate Matter (PM _{2.5})	IS:5182 Part-XXIV	23.16	µg /m ³	60.0
3.	Sulphur Dioxide	IS:5182 Part-II	9.54	µg /m ³	80.0
4.	Nitrogen Dioxide	IS:5182 Part-VI	18.89	µg /m ³	80.0

Notes: -

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4. The test samples will be disposed off after two weeks from the date of issue of test report, unless until specified by the customer.

[Signature]
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[Signature]
 AUTHORIZED SIGNATORY



Laboratory : GT-20, Sector-117, NOIDA, Gautam Budh Nagar - 201301

Branch Office :

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Ambient Air Quality Analysis	AAQ-090523-02	15/05/2023

Issued To: M/s S.N.S. (Minerals) Pvt. Ltd.
 Name of Mine: Tamoriya Limestone & Dolomite Mine, Area- 42.567 Hect.,
 Location: Village-Tamoriya, Tehsil- Maihar, District- Satna (M.P.)

Sampling & Analysis Data

Sample Drawn On : 08/05/2023
 Sample Drawn By : NTL Representative
 Sampling Location : Anehta
 Sampling Plan & Procedure : SOP-AAQ/08
 Analysis Duration : 09/05/2023 to 15/05/2023
 Sampling Instrument Used : RDS Sampler, FPS Sampler
 Weather Condition : Clear

TEST RESULT

S.No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM ₁₀)	IS:5182 Part-XXIII	57.26	µg /m ³	100.0
2.	Particulate Matter (PM _{2.5})	IS:5182 Part-XXIV	21.08	µg /m ³	60.0
3.	Sulphur Dioxide	IS:5182 Part-II	9.96	µg /m ³	80.0
4.	Nitrogen Dioxide	IS:5182 Part-VI	18.50	µg /m ³	80.0

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Ajalei
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Ashkar
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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Ambient Air Quality Analysis	AAQ-090523-03	15/05/2023

Issued To: M/s S.N.S. (Minerals) Pvt. Ltd.
Name of Mine: Tamoriya Limestone & Dolomite Mine, Area- 42.567 Hect.,
Location: Village-Tamoriya, Tehsil- Maihar, District- Satna (M.P.)

Sampling & Analysis Data

Sample Drawn On : 08/05/2023
Sample Drawn By : NTL Representative
Sampling Location : Bathia village
Sampling Plan & Procedure : SOP-AAQ/08
Analysis Duration : 09/05/2023 to 15/05/2023
Sampling Instrument Used : RDS Sampler, FPS Sampler
Weather Condition : Clear

TEST RESULT

S.No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM ₁₀)	IS:5182 Part-XXIII	55.10	µg /m ³	100.0
2.	Particulate Matter (PM _{2.5})	IS:5182 Part-XXIV	20.37	µg /m ³	60.0
3.	Sulphur Dioxide	IS:5182 Part-II	9.89	µg /m ³	80.0
4.	Nitrogen Dioxide	IS:5182 Part-VI	18.40	µg /m ³	80.0

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CHECKED BY

Authorized Signatory
AUTHORIZED SIGNATORY

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Ambient Air Quality Analysis	AAQ-090523-04	15/05/2023

Issued To: M/s S.N.S. (Minerals) Pvt. Ltd.
Name of Mine: Tamoriya Limestone & Dolomite Mine, Area- 42.567 Hect.,
Location: Village-Tamoriya, Tehsil- Maihar, District- Satna (M.P.)

Sampling & Analysis Data

Sample Drawn On : 08/05/2023
Sample Drawn By : NTL Representative
Sampling Location : Karaundi Village
Sampling Plan & Procedure : SOP-AAQ/08
Analysis Duration : 09/05/2023 to 15/05/2023
Sampling Instrument Used : RDS Sampler, FPS Sampler
Weather Condition : Clear

TEST RESULT

S.No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM ₁₀)	IS:5182 Part-XXIII	52.40	µg /m ³	100.0
2.	Particulate Matter (PM _{2.5})	IS:5182 Part-XXIV	17.86	µg /m ³	60.0
3.	Sulphur Dioxide	IS:5182 Part-II	9.72	µg /m ³	80.0
4.	Nitrogen Dioxide	IS:5182 Part-VI	18.50	µg /m ³	80.0

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Ashwini
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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Ambient Air Quality Analysis	AAQ-090523-05	15/05/2023

Issued To: M/s S.N.S. (Minerals) Pvt. Ltd.
Name of Mine: Tamoriya Limestone & Dolomite Mine, Area- 42.567 Hect.,
Location: Village-Tamoriya, Tehsil- Maihar, District- Satna (M.P.)

Sampling & Analysis Data

Sample Drawn On : 08/05/2023
Sample Drawn By : NTL Representative
Sampling Location : **Nadan village**
Sampling Plan & Procedure : SOP-AAQ/08
Analysis Duration : 09/05/2023 to 15/05/2023
Sampling Instrument Used : RDS Sampler, FPS Sampler
Weather Condition : Clear

TEST RESULT

S.No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM ₁₀)	IS:5182 Part-XXIII	66.81	µg /m ³	100.0
2.	Particulate Matter (PM _{2.5})	IS:5182 Part-XXIV	30.25	µg /m ³	60.0
3.	Sulphur Dioxide	IS:5182 Part-II	10.06	µg /m ³	80.0
4.	Nitrogen Dioxide	IS:5182 Part-VI	21.50	µg /m ³	80.0

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Ajitha
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Abhijit
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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Ambient Air Quality Analysis	AAQ-090523-06	15/05/2023

Issued To: M/s S.N.S. (Minerals) Pvt. Ltd.
 Name of Mine: Tamoriya Limestone & Dolomite Mine, Area- 42.567 Hect.,
 Location: Village-Tamoriya, Tehsil- Maihar, District- Satna (M.P.)

Sampling & Analysis Data

Sample Drawn On : 08/05/2023
 Sample Drawn By : NTL Representative
 Sampling Location : Kanchanpur village
 Sampling Plan & Procedure : SOP-AAQ/08
 Analysis Duration : 09/05/2023 to 15/05/2023
 Sampling Instrument Used : RDS Sampler, FPS Sampler
 Weather Condition : Clear

TEST RESULT

S.No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM ₁₀)	IS:5182 Part-XXIII	62.80	µg /m ³	100.0
2.	Particulate Matter (PM _{2.5})	IS:5182 Part-XXIV	24.60	µg /m ³	60.0
3.	Sulphur Dioxide	IS:5182 Part-II	10.58	µg /m ³	80.0
4.	Nitrogen Dioxide	IS:5182 Part-VI	21.60	µg /m ³	80.0

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Ambient Noise	AN-090523-07	15/05/2023

Issued To: M/s S.N.S. (Minerals) Pvt. Ltd.
 Name of Mine: Tamoriya Limestone & Dolomite Mine, Area- 42.567 Hect.,
 Location: Village-Tamoriya, Tehsil- Maihar, District- Satna (M.P.)

SAMPLING & ANALYSIS DATA

Sample Drawn On : 08/05/2023
 Sample Drawn By : NTL Representative
 Sample Received On : 09/05/2023
 Sampling Location : Near Mine Site

RESULTS

S. No	Test Parameters	Results	Units	Requirement (as per CPCB Guidelines Limits in dB (A) Leq		
				Category of Area/ Zone	Day Time	Night Time
1.	L _{day} (6.0 AM TO 10.0 PM)	64.5	dB(A)	Industrial Area	75	70
				Commercial Area	65	55
2.	L _{night} (10.0 PM TO 6.0 AM)	41.9	dB(A)	Residential Area	55	45
				Silence Zone	50	40

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Checked By

Ashu Kumar
AUTHORIZED SIGNATORY

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Water	W-090523-09	15/05/2023

Issued To: M/s S.N.S. (Minerals) Pvt. Ltd.
 Name of Mine: Tamoriya Limestone & Dolomite Mine, Area- 42.567 Hect.,
 Location: Village-Tamoriya, Tehsil- Maihar, District- Satna (M.P.)

Sampling & Analysis Data

Sample Drawn By : NTL Representative
 Sample Drawn On : 08/05/2023
 Sample Received On : 09/05/2023
 Sample Quantity : 2.0 Lt.
 Analysis Duration : 09/05/2023 to 15/05/2023
 Coordinates : 24.303151 N, 80.897482 E
 Sampling Location : Bore well
 Sample Description : Water Sample Collected from Bore well

RESULTS Essential test as per IS:10500-2012

S.No.	Parameter	Test Method	Results	Units	Desirable Limit	Extended Limit
1.	pH	IS:3025(Part-11)	7.236	-	6.5 – 8.5	-
2.	Colour	IS:3025(Part-4)	<5.00	Hazen	5	15
3.	Odour	IS:3025(Part-5)	Agreeable	-	Agreeable	Agreeable
4.	Taste	IS:3025(Part-8)	Agreeable	-	Agreeable	-
5.	Turbidity	IS:3025(Part-10)	<1.00	NTU	1	5
6.	Total Hardness (as CaCO ₃)	IS:3025(Part-21)	187.50	mg/l	200	600
7.	Chloride (as Cl)	IS:3025(Part-32)	64.12	mg/l	250	1000
8.	Calcium (as Ca)	IS: 3025 (P- 40)	41.60	mg/l	75	200
9.	Iron (as Fe)	IS:3025(Part-52)	<0.05	mg/l	1	No Relaxation
10.	Nitrate (as NO ₃)	IS: 3025 (P- 34)	2.41	mg/l	45	No Relaxation
11.	Total Dissolved Solid	IS:3025(Part-16)	486.0	mg/l	500	2000
12.	Alkalinity (as Ca CO ₃)	IS: 3025 (P- 23)	157.20	mg/l	200	600
13.	Total Suspended Solid	IS:3025(Part-17)	<1.00	mg/l	-	-
14.	Sulphate (as SO ₄)	IS: 3025 (P- 24)	32.40	mg/l	200	400

MICROBIOLOGICAL REQUIREMENT

S.No.	Parameter	Test Method	Results	Required as per IS-10500:2012
1.	<i>Escherichia coli</i>	IS-15185	Absent	Absent/100ml
2.	<i>Coliform Bacteria</i>	IS-15185	Absent	Absent/100ml

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Checked BY

A. Kumar
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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Soil Quality	SQ-090523-09	15/05/2023

Issued To: M/s S.N.S. (Minerals) Pvt. Ltd.
Name of Mine: Tamoriya Limestone & Dolomite Mine, Area- 42.567 Hect.,
Location: Village-Tamoriya, Tehsil- Maihar, District- Satna (M.P.)

Sampling & Analysis Data

Sample Drawn On : 08/05/2023
Sample Description : Soil Sample
Sample Received On : 09/05/2023
Sample Quantity : 2.0 Kg
Weather Conditions : Normal
Analysis Duration : 09/05/2023 to 15/05/2023

RESULTS

S.No.	PARAMETERTS	TEST METHOD	RESULT	UNIT
1.	pH (1:10 suspension)	IS:2720(Part-26)	7.78	-
2.	Electrical Conductivity mS/cm	IS:2720(Part-21)	496.0	mS/cm
3.	Water holding Capacity	STP/SOIL	25.20	% by mass
4.	Porosity	STP/SOIL	26.70	% by mass
5.	Sand	STP/SOIL	58.00	% by mass
6.	Clay	STP/SOIL	19.00	% by mass
7.	Silt	STP/SOIL	23.00	% by mass
8.	Bulk Density	STP/SOIL	1.26	mg /m ³
9.	Moisture Content	STP/SOIL	24.80	% by mass
10.	Calcium (as Ca)	STP/SOIL	489.0	mg/kg
11.	Magnesium (as Mg)	STP/SOIL	195.0	mg/kg
12.	Sodium (as Na)	STP/SOIL	186.2	mg/kg
13.	Potassium (as K)	STP/SOIL	45.5	mg/kg
14.	Cation Exchange Capacity	STP/SOIL	9.26	Meq/100gm
15.	Sodium Absorption Ratio	STP/SOIL	0.45	-
16.	Nitrogen	STP/SOIL	0.052	% by mass
17.	Phosphorus(P ₂ O ₅)	STP/SOIL	8.60	mg/kg
18.	Zinc (Zn)	STP/SOIL	19.50	mg/kg
19.	Organic Matter	STP/SOIL	0.28	% by mass

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Ashika
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