



Report No.11/2016/16030

Date: 19.12.2016

## TEST CERTIFICATE

(Soil analysis)

1. **Name of Customer** : M/s N.S Corporation  
Kirauli Soapstone Mine  
Mota Haldu, Near Gas plant, Baraily Road,  
Haldwani-263139 Distt. Nanital India
2. **Purchase order Number** : NSC/HLD/16-17/Dated- 21.06.2016
3. **Date of Sampling** : 21.11.2016
4. **Sample Received On** : 30.11.2016
5. **Period of Analysis** : 30.11.2016 to 12.12.2016
6. **Name of Location** : Top Soil Mine
7. **Method of Sampling** : Handbook by S.K. Maiti

S.No	Parameters	Test Method reference	Unit	Results
1.	pH	IS 2720 (Part 26) 1987	-	7.13
2.	Color	Book Practical agricultural chemistry	-	Brown
3.	Electrical conductivity at 25 °C	IS:14767-2000, Reaff.2006	µs	336.8
4.	Moisture	Hand book of Method in Environmental Studies By S.K Maiti	%	8.3900
5.	Bulk Density	IS:918-1985, Reaff.2006	Gm/cc	1.1764
6.	Specific gravity	Hand book of Method in Environmental Studies By S.K Maiti	Gm/cc	2.3490
7.	Porosity	Hand book of Method in Environmental Studies By S.K Maiti	%	49.92
8.	Calcium Carbonate	IS 2720 (Part 23) 1976, Reaff.2006	%	6.8
9.	Total Nitrogen	IS:14684-1999 ,Reaff. 2008	%	0.0084
10.	Available Phosphorous as P	IS: 10158-1982, Reaff. 2003	%	0.00262
11.	Organic Matter	IS:2720(Pt-22)-1972, Reaff.2006	%	0.779
12.	Potassium as K	IS: 9497-1980 Reaff. 2005 SOP No. 93/100	%	0.00192

Tested By

(G.S. Laxkar)  
Chemist



Authorized Signatory

Dr. S. K. Yadav  
**Chief Manager (Environment)**  
Environmental & Chemical Laboratory  
**Wolkem India Limited**  
E-102, M.I.A., UDAIPUR (Rajasthan)

**Note**

1. The results listed refer only to the tested sample (s) and parameter (s) Endorsement of product is neither inferred nor implied.
2. This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.
3. The samples will be destroyed after 15 days from the date of issue of test certificate unless otherwise specified.
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Page 1 of 1



Certificate No.: 32024-A111



Chemical - T-2016  
Biological - T-3512





Report No.11/2016/16031

Date: 19.12.2016

## TEST CERTIFICATE

(Soil analysis)

1. **Name of Customer** : M/s N.S Corporation  
Kirauli Soapstone Mine  
Mota Haldu, Near Gas plant, Baraily Road,  
Haldwani-263139 Distt. Nanital India
2. **Purchase order Number** : NSC/HLD/16-17/Dated- 21.06.2016
3. **Date of Sampling** : 21.11.2016
4. **Sample Received On** : 30.11.2016
5. **Period of Analysis** : 30.11.2016 to 12.12.2016
6. **Name of Location** : Over Burden Mine
7. **Method of Sampling** : Handbook by S.K. Maiti

S.No	Parameters	Test Method reference	Unit	Results
1.	pH	IS 2720 (Part 26) 1987	-	7.77
2.	Color	Book Practical agricultural chemistry	-	Yellow Brown
3.	Electrical conductivity at 25 °C	IS:14767-2000, Reaff.2006	µs	223.7
4.	Moisture	Hand book of Method in Environmental Studies By S.K Maiti	%	5.002
5.	Bulk Density	IS:918-1985, Reaff.2006	Gm/cc	1.204
6.	Specific gravity	Hand book of Method in Environmental Studies By S.K Maiti	Gm/cc	2.1089
7.	Porosity	Hand book of Method in Environmental Studies By S.K Maiti	%	42.90
8.	Calcium Carbonate	IS 2720 (Part 23) 1976, Reaff.2006	%	3.6
9.	Total Nitrogen	IS: 14684-1999, Reaff. 2008	%	0.0033
10.	Available Phosphorous as P	IS: 10158-1982, Reaff. 2003	%	0.00135
11.	Organic Matter	IS:2720(Pt-22)-1972, Reaff.2006	%	0.146
12.	Potassium as K	IS: 9497-1980 Reaff. 2005 SOP No. 93/100	%	0.00130

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Page 1 of 1



Certificate No.: 32024-A111

Chemical - T-2016  
Biological - T-3512





Report No.11/2016/16032

Date: 19.12.2016

## TEST CERTIFICATE

(Soil analysis)

1. **Name of Customer** : M/s N.S Corporation  
Kirauli Soapstone Mine  
Mota Haldu, Near Gas plant, Baraily Road,  
Haldwani-263139 Distt. Nanital India
2. **Purchase order Number** : NSC/HLD/16-17/Dated- 21.06.2016
3. **Date of Sampling** : 21.11.2016
4. **Sample Received On** : 30.11.2016
5. **Period of Analysis** : 30.11.2016 to 12.12.2016
6. **Name of Location** : Kirauli Village Agriculture land
7. **Method of Sampling** : Handbook by S.K. Maiti

S.No	Parameters	Test Method reference	Unit	Results
1.	pH	IS 2720 (Part 26) 1987	-	6.98
2.	Color	Book Practical agricultural chemistry	-	Brown
3.	Electrical conductivity at 25 °C	IS:14767-2000, Reaff.2006	µs	389.3
4.	Moisture	Hand book of Method in Environmental Studies By S.K Maiti	%	12.526
5.	Bulk Density	IS:918-1985, Reaff.2006	Gm/cc	1.136
6.	Specific gravity	Hand book of Method in Environmental Studies By S.K Maiti	Gm/cc	2.273
7.	Porosity	Hand book of Method in Environmental Studies By S.K Maiti	%	50.02
8.	Calcium Carbonate	IS 2720 (Part 23) 1976, Reaff.2006	%	4.4
9.	Total Nitrogen	IS: 14684-1999, Reaff. 2008	%	0.0044
10.	Available Phosphorous as P	IS: 10158-1982, Reaff. 2003	%	0.0029
11.	Organic Matter	IS:2720(Pt-22)-1972, Reaff.2006	%	0.315
12.	Potassium as K	IS: 9497-1980 Reaff. 2005 SOP No. 93/100	%	0.00215

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Page 1 of 1

IAS-ANZ



Certificate No.: 32024-A111



Chemical - T-2016  
Biological - T-3512





Date: 19.12.2016

## TEST CERTIFICATE (Noise Level Monitoring)

1. **Name of Customer** : M/s N.S Corporation  
Kirauli Soapstone Mine  
Mota Haldu, Near Gas plant, Baraily Road,  
Haldwani-263139 Distt. Nanital India
2. **Purchase order Number** : NSC/HLD/16-17/Dated- 21.06.2016
3. **Date of Monitoring** : 21.11.2016
4. **Test Method Reference** : IS: 9989 – 1981 Reaff. 2008

### Noise Level Monitoring Results

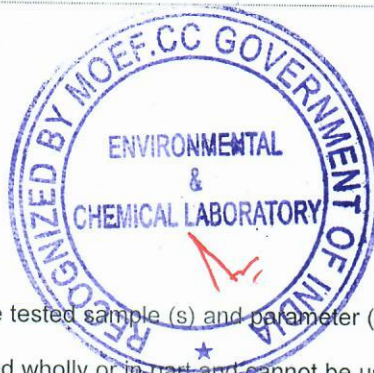
S.No	Station	Location	Sound pressure Level dB		Sound pressure Level dB	
			Day		Night	
			Max	Min	Max	Min
1.	N-1	Mine face area	57.8	52.5	55.1	51.0
2.	N- 2	Kirauli Village	52.4	52.1	60.1	48.6
3.	N-3	Nr. Metal road Kirauli Village	55.7	51.2	50.9	49.1
4.	N- 4	Papoli Village	49.1	47.2	44.3	45.2
5.	N-5	Reema Village	48.6	46.1	44.1	43.1
6.	N-6	Odyar Village	49.3	45.2	44.2	42.2
7.	N-7	Surkhali Village	50.2	48.1	43.1	42.1
8.	N-8	Dayali Village	51.1	47.1	44.0	43.2

### Standards for Noise monitoring

S. No	Category of area	Day Time	Night Time
1	Industrial Area	75.0	70.0
2	Commercial Area	65.0	55.0
3	Residential Area	55.0	45.0

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