

ENVIRO-TECH SERVICES

An Environmental Analytical Laboratory

Environmental Monitoring, Testing and Services

(An ISO 9001:2008, 14001:2004 and OHSAS 18001:2007 Certified Company)
Recognised by MoEF (Govt. of India), Accredited by IS/ISO/IEC-17025:2005 (NABL)
G-232, M.G. Road Industrial Area, Hapur Ph. : 9911516076, 9811736063

Email : etslab2012@gmail.com | Website : www.etslab.asia



NABL Accredited Lab
Cert. No. T-3594

TEST REPORT

TEST REPORT NO : ETS/HAL-138/11/2017

DATE OF REPORT : 17-11-2017

WATER SAMPLE ANALYSIS REPORT

(AS PER IS:10500-2012)

Name And Address Of Customer : N.S. CORPORATION, KIRAULI SOAPSTONE MINE,
MOTA HALDU NEAR GAS PLANT, BAREILY ROAD, HALDWANI-263139,
NAINITAL, UTTRA KHAND, INDIA

Date of Sampling : 10-11-2017
Analysis Start Date : 13-11-2017
Analysis End Date : 17-11-2017
Sampling ID No. : 138/11
Sampling Done By : ETS LAB
Sampling Description : GROUND WATER
Sampling Location : VILLAGE REEMA BHARAT HOUSE
Sampling Method : ETS/STP/WATER-02
Sampling Quantity : TWO Lt
Packing Condition : Sealed
Packed In : PVC CANE

S.No.	Parameter	Unit	Result	Drinking Water Standards / Limit (IS :10500-2012)		Test Method
				Desirable Limit	Permissible Limit	
1	Colour	Hazen	< 5	5 max	15 max	APHA-2120 (C)
2	pH	-	7.06	6.5-8.5	No Relaxation	APHA-4500(H+B)/IS:3025 (P-11)-1983
3	Total Hardness	mg/L	40.0	200 max.	600 max.	APHA-2340 (C)/IS:3025(P-21)-1983, REAFF.:2009
4	Iron (Fe)	mg/L	ABSENT	0.3 max.	No Relaxation	APHA-3111 (B)
5	Chloride (Cl)	mg/L	9.0	250 max.	1000 max.	APHA-4500 (B)/IS:3025(P-32)-1988
6	Residual, Free Chlorine	mg/L	ABSENT	0.2 min.	1.0 min.	APHA-4500 (B)
	Total Dissolved Solids (TDS)	mg/L	61.2	500 max.	2000 max.	APHA-2540 (C)
8	Calcium (Ca)	mg/L	8.0	75 max.	200 max.	APHA-3500 (B)/IS:3025(P-40)-1991, REAFF.:2003
9	Magnesium (Mg)	mg/L	2.3	30 max.	100 max.	APHA-3500- Mg (B)/IS:3025(P-45)-1994, REAFF.:2003
10	Sulphate (SO ₄)	mg/L	6.5	200 max.	400 max.	APHA-4500 (C)/IS:3025(P-24)-1986, REAFF.:2009
11	Nitrate (NO ₃)	mg/L	ABSENT	45 max.	No Relaxation	APHA-4500 (NO3)/IS:3025(P-34)-1988
12	Fluoride (F)	mg/L	0.05	1.0 max.	1.5 max.	APHA-4500 (D)
13	Chromium (Cr+6)	mg/L	ABSENT	0.05 max.	No Relaxation	APHA-3500 Cr-B
14	Total Alkalinity	mg/L	5.2	200 max.	600 max.	APHA-2320 (B)/IS:3025(P-23)-1986, REAFF.:2009
15	Oil & Grease	mg/L	ABSENT	0.5	No Relaxation	APHA-5520

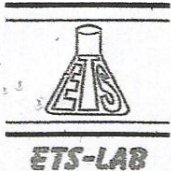
FOR ENVIRO-TECH SERVICES

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AUTHORIZED SIGNATORY
M.D. Hummal
Dy. Quality manager



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DATE OF REPORT : 17-11-2017

WATER SAMPLE ANALYSIS REPORT

(AS PER IS:10500-2012)

Name And Address Of Customer : N.S. CORPORATION, KIRAULI SOAPSTONE MINE,
 MOTA HALDU NEAR GAS PLANT, BAREILY ROAD, HALDWANI-263139,
 NAINITAL, UTTRA KHAND, INDIA

Date of Sampling : 10-11-2017
Analysis Start Date : 13-11-2017
Analysis End Date : 17-11-2017
Sampling ID No. : 139/11
Sampling Done By : ETS LAB
Sampling Description : GROUND WATER
Sampling Location : N.S.CORPORATION, VILLAGE- KIRAULI
Sampling Method : ETS/STP/WATER-02
Sampling Quantity : TWO Lt
Packing Condition : Sealed
Packed In : PVC CANE

S.No.	Parameter	Unit	Result	Drinking Water Standards / Limit (IS :10500-2012)		Test Method
				Desirable Limit	Permissible Limit	
1	Colour	Hazen	< 5	5 max	15 max	APHA-2120 (C)
2	pH	-	7.35	6.5-8.5	No Relaxation	APHA-4500(H+B)/IS:3025 (P-11)-1983
3	Total Hardness	mg/L	190	200 max.	600 max.	APHA-2340 (C)/IS:3025(P-21)-1983, REAFF..200
4	Iron (Fe)	mg/L	0.24	0.3 max.	No Relaxation	APHA-3111 (B)
5	Chloride (Cl)	mg/L	28.0	250 max.	1000 max.	APHA-4500 (B)/IS:3025(P-32)-1988
6	Residual, Free Chlorine	mg/L	ABSENT	0.2 min.	1.0 min.	APHA-4500 (B)
7	Total Dissolved Solids (TDS)	mg/L	254.6	500 max.	2000 max.	APHA-2540 (C)
8	Calcium (Ca)	mg/L	13.8	75 max.	200 max.	APHA-3500 (B)/IS:3025(P-40)-1991, REAFF..200
9	Magnesium (Mg)	mg/L	4.3	30 max.	100 max.	APHA-3500- Mg (B)/IS:3025(P-45)-1994, REAFF..2
10	Sulphate (SO ₄)	mg/L	15.6	200 max.	400 max.	APHA-4500 (C)/IS:3025(P-24)-1986, REAFF..200
11	Nitrate (NO ₃)	mg/L	1.86	45 max.	No Relaxation	APHA-4500 (NO3)/IS:3025(P-34)-1988
12	Fluoride (F)	mg/L	0.31	1.0 max.	1.5 max.	APHA-4500 (D)
13	Chromium (Cr+6)	mg/L	ABSENT	0.05 max.	No Relaxation	APHA-3500 Cr-B
14	Total Alkalinity	mg/L	155	200 max.	600 max.	APHA-2320 (B)/IS:3025(P-23)-1986, REAFF..200
15	Oil & Grease	mg/L	ABSENT	0.5	No Relaxation	APHA-5520

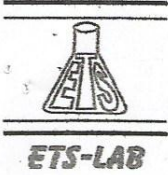
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AUTHORIZED SIGNATORY
 Dy. Quality manager



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TEST REPORT

TEST REPORT NO : ETS/HAL-140/11/2017

DATE OF REPORT : 17-11-2017

WATER SAMPLE ANALYSIS REPORT

(AS PER IS:10500-2012)

Name And Address Of Customer : N.S. CORPORATION, KIRALI SOAPSTONE MINE,
MOTA HALDU NEAR GAS PLANT, BAREILY ROAD, HALDWANI-263139,
NAINITAL, UTTRA KHAND, INDIA

Date of Sampling : 10-11-2017
Analysis Start Date : 13-11-2017
Analysis End Date : 17-11-2017
Sampling ID No. : 140/11
Sampling Done By : ETS LAB
Sampling Description : GROUND WATER
Sampling Location : VILLAGE- REEMA
Sampling Method : ETS/STP/WATER-02
Sampling Quantity : TWO Lt
Packing Condition : Sealed
Packed In : PVC CANE

S.No.	Parameter	Unit	Result	Drinking Water Standards / Limit (IS :10500-2012)		Test Method
				Desirable Limit	Permissible Limit	
1	Colour	Hazen	< 5	5 max	15 max	APHA-2120 (C)
2	pH	-	7.18	6.5-8.5	No Relaxation	APHA-4500(H+B)/IS:3025 (P-11)-1983
3	Total Hardness	mg/L	52.0	200 max.	600 max.	APHA-2340 (C)/IS:3025(P-21)-1983, REAFF..20
4	Iron (Fe)	mg/L	0.25	0.3 max.	No Relaxation	APHA-3111 (B)
5	Chloride (Cl)	mg/L	11.1	250 max.	1000 max.	APHA-4500 (B)/IS:3025(P-32)-1988
6	Residual, Free Chlorine	mg/L	ABSENT	0.2 min.	1.0 min.	APHA-4500 (B)
7	Total Dissolved Solids (TDS)	mg/L	136.4	500 max.	2000 max.	APHA-2540 (C)
8	Calcium (Ca)	mg/L	12.0	75 max.	200 max.	APHA-3500 (B)/IS:3025(P-40)-1991, REAFF..20
9	Magnesium (Mg)	mg/L	3.2	30 max.	100 max.	APHA-3500- Mg (B)/IS:3025(P-45)-1994, REAFF..20
10	Sulphate (SO ₄)	mg/L	12.0	200 max.	400 max.	APHA-4500 (C)/IS:3025(P-24)-1986, REAFF..20
11	Nitrate (NO ₃)	mg/L	1.06	45 max.	No Relaxation	APHA-4500 (NO3)/IS:3025(P-34)-1988
12	Fluoride (F)	mg/L	0.32	1.0 max.	1.5 max.	APHA-4500 (D)
13	Chromium (Cr+6)	mg/L	ABSENT	0.05 max.	No Relaxation	APHA-3500 Cr-B
14	Total Alkalinity	mg/L	76.0	200 max.	600 max.	APHA-2320 (B)/IS:3025(P-23)-1986, REAFF..20
15	Oil & Grease	mg/L	ABSENT	0.5	No Relaxation	APHA-5520

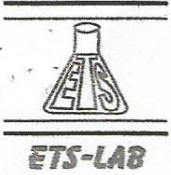
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By. Quality manager



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TEST REPORT

TEST REPORT NO : ETS/HAL-126/11/2017

DATE OF REPORT : 17-11-2017

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address Of Customer

: N.S. CORPORATION, KIRALI SOAPSTONE MINE,
MOTA HALDU NEAR GAS PLANT, BAREILY ROAD, HALDWANI-263139
NAINITAL, UTTRA KHAND, INDIA

Date Of Sampling

: 10-11-2017

Analysis Start Date

: 13-11-2017

Analysis End Date

: 17-11-2017

Duration Of Sampling

: 10-11-2017 To 10-11-2017 8 HRS

Sample ID No

: 126/11

Sampling Done By

: ETS LAB

Sampling Location

: NEAR KAFLI VILLAGE AREA

Sampling Method

: ETS/STP/AIR-01

Sampling Machine Placed At Height

: 2.0 mtr (From Ground)

Weather Condition

: clear

Ambient Temperature : 12°C

S.No.	Parameter	Unit	Result	Specification/ Limit (As Per CPCB)	Test Method
1	Particulate Matters (Size Less Than 10µm) (PM ₁₀)	µg/m ³	40.6	For 24 Hrs=100	IS:5182 (Part 23)
2	Sulphur Dioxide (SO ₂)	µg/m ³	6.89	For 24 hrs= 80	IS:5182 (Part 2)
3	Nitrogen Dioxide (NO ₂)	µg/m ³	8.45	For 24 Hrs=80	IS:5182 (Part 6)
4	Relative Humidity	%	71	Not Specified	Hygrometer
5	Wind Speed	kg/hr	8	Not Specified	Anomometer

WIND DIRECTION - N-E,

**** End Of Report****

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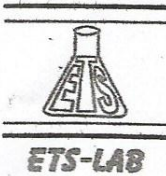
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Dy. Quality manager

Format no ETS/LAB/TR-01 Issue No 04 dt 01/06/2016 Rev No 03 dt 01/06/2016



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Cert. No. T-351

TEST REPORT

TEST REPORT NO : ETS/HAL-127/11/2017

DATE OF REPORT : 17-11-2017

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address Of Customer

: N.S. CORPORATION, KIRAULI SOAPSTONE MINE,
MOTA HALDU NEAR GAS PLANT, BAREILY ROAD, HALDWANI-2631
NAINITAL, UTTRA KHAND, INDIA

Date Of Sampling

: 10-11-2017

Analysis Start Date

: 13-11-2017

Analysis End Date

: 17-11-2017

Duration Of Sampling

: 10-11-2017 To 10-11-2017 8 HRS

Sample ID No

: 127/11

Sampling Done By

: ETS LAB

Sampling Location

: NEAR KIRAULI VILLAGE AREA

Sampling Method

: ETS/STP/AIR-01

Sampling Machine Placed At Height

: 2.0 mtr (From Ground)

Weather Condition

: clear

Ambient Temperature : 12°C

S.No.	Parameter	Unit	Result	Specification/ Limit (As Per CPCB)	Test Method
1	Particulate Matters (Size Less Than 10µm) (PM ₁₀)	µg/m ³	44.3	For 24 Hrs=100	IS:5182 (Part 23)
2	Sulphur Dioxide (SO ₂)	µg/m ³	5.48	For 24 hrs= 80	IS:5182 (Part 2)
3	Nitrogen Dioxide (NO ₂)	µg/m ³	7.69	For 24 Hrs=80	IS:5182 (Part 6)
4	Relative Humidity	%	72	Not Specified	Hygrometer
5	Wind Speed	Km/Hr	6	Not Specified	Anemometer

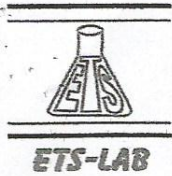
WIND DIRECTION - N-E,

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Dy. Quality manager



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TEST REPORT

TEST REPORT NO : ETS/HAL-128/11/2017

DATE OF REPORT : 17-11-2017

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address Of Customer

: N.S. CORPORATION, KIRALI SOAPSTONE MINE,
MOTA HALDU NEAR GAS PLANT, BAREILY ROAD, HALDWANI-263139
NAINITAL, UTTRA KHAND, INDIA

Date Of Sampling : 10-11-2017
Analysis Start Date : 13-11-2017
Analysis End Date : 17-11-2017
Duration Of Sampling : 10-11-2017 To 10-11-2017 8 HRS
Sample ID No : 128/11
Sampling Done By : ETS LAB
Sampling Location : NEAR SURKHALI VILLAGE AREA

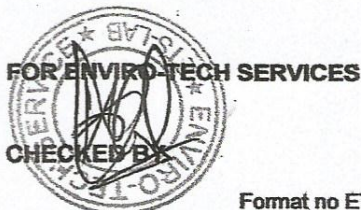
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 2.0 mtr (From Ground)

Weather Condition : clear Ambient Temperature : 12°C

S.No.	Parameter	Unit	Result	Specification/ Limit (As Per CPCB)	Test Method
1	Particulate Matters (Size Less Than 10µm) (PM ₁₀)	µg/m ³	39.7	For 24 Hrs=100	IS:5182 (Part 23)
2	Sulphur Dioxide (SO ₂)	µg/m ³	6.12	For 24 hrs= 80	IS:5182 (Part 2)
3	Nitrogen Dioxide (NO ₂)	µg/m ³	7.85	For 24 Hrs=80	IS:5182 (Part 6)
4	Relative Humidity	%	72	Not Specified	Hygrometer
5	Wind Speed	Km/Hr	10	Not Specified	Anomometer

WIND DIRECTION - N-E,

**** End Of Report****

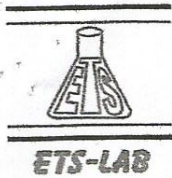


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Dy. Quality manager

Format no ETS/LAB/TR-01 Issue No 04 dt 01/06/2016 Rev No 03 dt 01/06/2016



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TEST REPORT

TEST REPORT NO : ETS/HAL-132/11/2017

DATE OF REPORT : 17-11-2017

NOISE MONITORING REPORT

Name And Address Of Customer : N.S. CORPORATION, KIRAULI SOAPSTONE MINE,
 MOTA HALDU NEAR GAS PLANT, BAREILY ROAD, HALDWANI-263139,
 NAINITAL, UTTRA KHAND, INDIA

Date of Monitoring : 10-11-2017
 Monitoring Start Date : 10-11-2017
 Monitoring End Date : 11-11-2017
 Monitoring Done By : ETS LAB
 Monitoring Duration : 24 HRS
 Place Of Monitoring : NEAR KAFLI VILLAGE AREA.
 Category Of Area : INDUSTRIAL AREA
 Sampling Method : ETS/STP/NOISE-01

Observation No.	1	2	3	4	5	6	7	8
Reading dB(A)	41.60	38.90	43.80	45.10	38.70	36.40	40.30	42.10
	9	10	11	12	13	14	15	16
	41.80	37.90	39.80	42.10	39.70	38.70	39.30	40.30
	17	18	19	20	21	22	23	24
	38.40	32.60	37.10	40.20	31.90	32.40	31.40	32.10

S.No.	Description Noise Level dB(A)	Result		Ambient Noise Standards/ Specification (CPCB/Factories Act) Leq dB(A)	
		Day Time	Night Time	Day Time	Night Time
		1	Average	40.41	34.51
2	Maximum	45.10	40.20		
3	Minimum	36.40	31.40		
4	Leq dB(A)	40.61	34.71	75/90	70.00

Remark : Day time is reckoned in between 06:00 A.M. and 10:00 P.M.

Night time is reckoned in between 10:00 P.M. and 06:00 A.M.

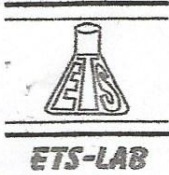
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M. Humrai
 AUTHORIZED SIGNATOR
 Dy. Quality manager



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TEST REPORT

TEST REPORT NO : ETS/HAL-133/11/2017

DATE OF REPORT : 17-11-2017

NOISE MONITORING REPORT

Name And Address Of Customer : N.S. CORPORATION, KIRAULI SOAPSTONE MINE,
 MOTA HALDU NEAR GAS PLANT, BAREILY ROAD, HALDWANI-263139,
 NAINITAL, UTTRA KHAND, INDIA

Date of Monitoring : 10-11-2017
 Monitoring Start Date : 10-11-2017
 Monitoring End Date : 11-11-2017
 Monitoring Done By : ETS LAB
 Monitoring Duration : 24 HRS
 Place Of Monitoring : NEAR KIRAULI VILLAGE AREA
 Category Of Area : INDUSTRIAL AREA
 Sampling Method : ETS/STP/NOISE-01

Observation No.	1	2	3	4	5	6	7	8
Reading dB(A)	43.80	42.10	47.60	45.30	40.90	38.70	39.80	42.60
	9	10	11	12	13	14	15	16
	41.30	43.40	44.50	40.50	38.70	39.50	43.10	41.80
	17	18	19	20	21	22	23	24
	37.60	39.40	38.20	40.60	41.90	39.20	37.90	30.40

S.No.	Description Noise Level dB(A)	Result		Ambient Noise Standards/ Specification (CPCB/Factories Act) Leq dB(A)	
		Day Time	Night Time	Day Time	Night Time
		1	Average	42.10	38.15
2	Maximum	47.60	41.90		
3	Minimum	38.70	30.40		
4	Leq dB(A)	42.30	38.35	75/90	70.00

Remark : Day time is reckoned in between 06:00 A.M. and 10:00 P.M.

Night time is reckoned in between 10:00 P.M. and 06:00 A.M.

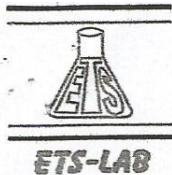
**** End Of Report****

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For Enviro-Tech Services

AUTHORIZED SIGNATOR
 Dy. Quality manager



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TEST REPORT

TEST REPORT NO : ETS/HAL-134/11/2017

DATE OF REPORT : 17-11-2017

NOISE MONITORING REPORT

Name And Address Of Customer : N.S. CORPORATION, KIRAULI SOAPSTONE MINE,
MOTA HALDU NEAR GAS PLANT, BAREILY ROAD, HALDWANI-263139,
NAINITAL, UTTRA KHAND, INDIA

Date of Monitoring : 10-11-2017
Monitoring Start Date : 10-11-2017
Monitoring End Date : 11-11-2017
Monitoring Done By : ETS LAB
Monitoring Duration : 24 HRS
Place Of Monitoring : NEAR SURKHALI VILLAGE AREA
Category Of Area : INDUSTRIAL AREA
Sampling Method : ETS/STP/NOISE-01

Observation No.	1	2	3	4	5	6	7	8
Reading dB(A)	39.70	42.10	44.60	43.50	42.10	40.60	38.70	39.50
	9	10	11	12	13	14	15	16
	39.20	42.10	43.80	42.10	40.50	39.50	41.30	42.50
	17	18	19	20	21	22	23	24
	39.40	32.10	34.80	35.70	36.20	32.40	31.80	31.90

S.No.	Description Noise Level dB(A)	Result		Ambient Noise Standards/ Specification (CPCB/Factories Act) Leq dB(A)	
		Day Time	Night Time	Day Time	Night Time
		1	Average	41.36	34.29
2	Maximum	44.60	39.40		
3	Minimum	38.70	31.80		
4	Leq dB(A)	41.56	34.49	75/90	70.00

Remark : Day time is reckoned in between 06:00 A.M. and 10:00 P.M.

Night time is reckoned in between 10:00 P.M. and 06:00 A.M.

**** End Of Report****

FOR ENVIRO-TECH SERVICES

CHECKED BY



For Enviro-Tech Services

AUTHORIZED SIGNATORY

Dy. Quality manager

Format no ETS/LAB/TR-02 Issue No 04 dt 01/06/2016 . Rev No 03 dt 01/06/2016



ETS-LAB

ENVIRO-TECH SERVICES

An Environmental Analytical Laboratory

Environmental Monitoring, Testing and Services

(An ISO 9001:2008, 14001:2004 and OHSAS 18001:2007 Certified Company)

Recognised by MoEF (Govt. of India), Accredited by IS/ISO/IEC-17025:2005 (NABL)

G-232, M.G. Road Industrial Area, Hapur Ph. : 9911516076, 9811736063

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TEST REPORT

TEST REPORT NO : ETS/HAL-144/11/2017

DATE OF REPORT : 17-11-2017

SOIL SAMPLE ANALYSIS REPORT

Name And Address Of Customer : N.S. CORPORATION, KIRALI SOAPSTONE MINE,
MOTA HALDU NEAR GAS PLANT, BAREILY ROAD, HALDWANI-263139,
NAINITAL, UTTRA KHAND, INDIA

Date of Sampling : 11-11-2017
Analysis Start Date : 13-11-2017
Analysis End Date : 17-11-2017
Sample ID No : 144/11
Sampling Done By : ETS LAB
Sampling & Testing Method : BIS & APHA Test Methods
Sampling Description : SOIL SAMPLE FROM VILLAGE REEMA
Sample Quantity : 500 GM
Packing Condition : Sealed
Packed In : PVC BAG

S.No.	Parameter	Unit	Result
1	pH (10% Aq. Solution)	-	6.58
2	Moisture	%	21.6
3	Colour	-	BROWN
4	Calcium (as CaCO ₃)	mg/Kg	628.4
5	Potassium (K)	mg/Kg	21.3
6	Sodium (Na)	mg/Kg	42.9
7	Electrical Conductivity	mhos/cm	385.6
8	Organic Carbon (LOI)	%	1.89
9	Sp. Gravity	-	1.86
10	Nitrogen (N)	mg/Kg	1.56
11	Available Phosphorous as PO ₄	%	1.89
12	Porosity	%	39.7

ALL PARAMETERS ANALYSED ON DRY BASIS EXCEPT MOISTURE. ALL ABOVE PARAMETERS ARE NOT NABL ACCREDITATED

**** End Of Report****



Page 1 Of 1

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Md. Humayun
AUTHORIZED SIGNATURE