

REVA
UNIVERSITY

Bengaluru, India

Green Audit Report

Vimta Labs Limited

Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051, Telangana, India
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Date: 13th March, 2023

CERTIFICATE

This is to Certify that Green Audit for REVA University (REVA PO No.: WO/22/1/1411 dated 13th Jun, 2022) has been conducted by our qualified, competent and approved technical Coordinator and team of M/s VIMTA Labs Ltd an QCI - NABET Accredited Consultant Organisation which is registered with World Bank, Asian Development Bank & European Banks.

It is pertinent to note that M/s VIMTA Labs Ltd is also accredited by QCI - NABL & Ministry of Environment, Forests & Climate Change.

With the above accreditation and high technical competence in Green Audits, M/s VIMTA Labs Ltd has conducted Green Audit for REVA University located in Kattigenahalli, Yelahanka, Bengaluru, Karnataka State, India established under the Government of Karnataka Notification Act of 80 of 2012.

Based on the physical inspection, verification of various documents at site, examining the available records of monitoring, Certifications and other documentary evidences submitted by REVA University, it is CERTIFIED that having the Management Performance of 97.33%, Operational Performance of 90.00%, Environmental Performance is 100% and Performance in obtaining Awards and Appreciations is 100%.

The overall Net Sustainable Development Goals (SDG) Compliance is 87.40%.

Based on the above performance indicators including SDG, the REVA CAMPUS can be rated as **"Exemplarily Excellent with Continual Improvement"** with respect to the implementation of Environmental Management Systems and Sustainable Development Goals.

Authorized Signatory


M. Janardhan

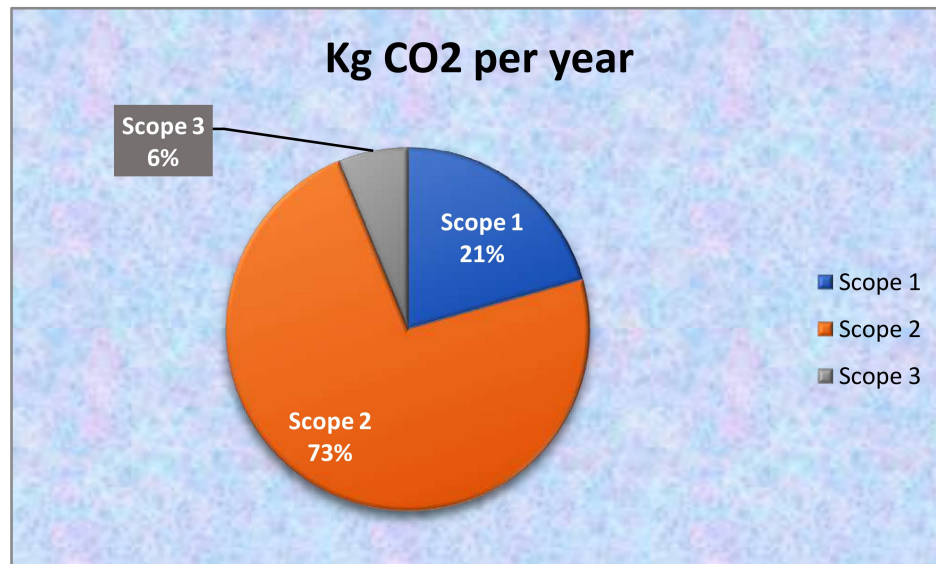
Head & V.P. (Environment)



Carbon footprint conclusion

The net carbon footprint of REVA University can be reported as 1025.3829 tCO₂e, or Carbon intensity as 0.573 tCO₂e per individual, 0.00153 tCO₂e per capita per day and 0.00563 tCO₂e per sq.mt.

Detailed examination shows that 73 % of CF is under scope 2 that is power consumption, followed by Scope 3 contributing 21 %. Actually the scope 1 direct emissions are comparatively negligible contributing only 6%.



The second largest contributor of GHG emission seems to be the scope 3 items. On close examination of these, it is observed that food waste contributes 50 %.

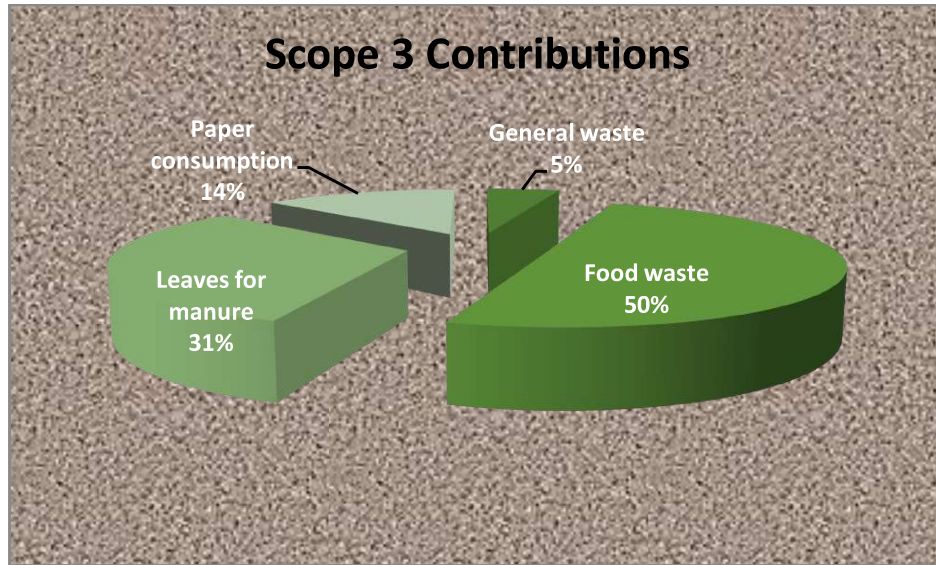
Input value of general waste = 7500 kg x 0.902 = 6765.0 Kg CO₂

Input value of food waste = 74997 kg x 0.902 = 67647.294 Kg CO₂

Input value of manure from leaves etc. = 46800 kg x 0.902 = 42213.6 Kg CO₂

Input value of paper consumption average = 20000 kg x 0.902 = 18040.0 KgCo₂

Item	Contribution of Kg CO2
General waste	6765
Food waste	67647.294
Leaves for manure	42213.6
Paper consumption	18040



Gross Carbon footprint generated	: 2180.15 tCO2
Carbon footprint removal/ CDM	: 1154.7671 tCO2
Net carbon footprint of REVA	: 1025.3829 tCO2
Achievement in carbon reduction/ CDM	: 52.96 %

ANNEXURES

Vimta Labs Limited

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ISSUED TO:

M/s. Reva University,
Rukmini Knowledge Park,
Kattigenahalli, Yelahanka,
Bangalore, Karnataka.

Report Number : VLL/VLS/22/06141/01
Issue Date : 02.08.2022
P.O. Number : WO/22/1/1411
P.O. Date : 13/06/2022

Page No: 01 of 01

Sample Particulars: **Ambient Air Quality Monitoring**
Sample Location: **Near Administrative Building**

Sample Collected on	: 18/07/2022	Samples Registered on	: 20/07/2022
Analysis started on	: 20/07/2022	Analysis Completed on	: 02/08/2022
Test Required	: 12 Parameters as per MoEF & CC GSR 826(E) Notification.		
Samples Collected by Vimta Labs Limited.			

TEST REPORT

Parameters	Test Method	UoM	NAAQ Limits	Results
Sulphur Dioxide (SO ₂)	Improved West and Gaeke Method-	µg/m ³	80	13.3
Nitrogen Dioxide (NO _x)	Modified Jacob & Hochheiser Method	µg/m ³	80	19.6
Particulate Matter (PM10)	Gravimetric Method	µg/m ³	100	41.9
Particulate Matter (PM2.5)	Gravimetric Method	µg/m ³	60	18.1
Ammonia (NH ₃)	Indophenol Blue Method	µg/m ³	400	<0.01
Benzene (C ₆ H ₆)	Solvent Extraction followed by GC analysis	µg/m ³	05	<0.01
Benzo(a) Pyrene in particulate phase	Solvent Extraction followed by GC analysis	ng/m ³	01	<0.01
Arsenic as As	AAS/ICP Method	ng/m ³	06	<0.01
Nickel as Ni	AAS/ICP Method	ng/m ³	20	<0.01
Lead as Pb	AAS/ICP Method	µg/m ³	1.0	<0.01
Carbon Monoxide as CO	NDIR spectroscopy method	µg/m ³	2000	31
Ozone as O ₃	UV photometric method	µg/m ³	100	5.8

Name and Designation of Authorized Signatory

Dr. Subbareddy Mallampati
Dy. Manager - Environment

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Report Number : VLL/VLS/22/06141/02
Issue Date : 02.08.2022
P.O. Number : WO/22/1/1411
P.O. Date : 13/06/2022

Page No: 01 of 01

Sample Particulars : **Ambient Noise Monitoring**

Sample Collected on	: 18/07/2022	Samples Registered on	: 20/07/2022
Analysis started on	: 20/07/2022	Analysis Completed on	: 02/08/2022
Statistical Parameters	: Leq. Noise in d(B)A		
Samples Collected by Vimta Labs Limited.			

TEST REPORT

Sr.No	Location	UoM	Day	Night
			d(B)A	
01	Near Swami Vivekananda Block	d(B)A	40.3	33.7
02	Near Admin Block	d(B)A	44.8	35.9
03	Near CV. Raman Block	d(B)A	41.1	34.1
04	Near Boys Hostel/Food Court	d(B)A	43.7	36.0
05	Near Visvesvaraya Block	d(B)A	42.6	35.3
06	Near Reva Health Center	d(B)A	39.4	27.6
Ambient Noise Standards as per The Noise Pollution (Regulation And Control) Rules, 2000 .S.O. 50 (E)			50	40

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Report Number : VLL/VLS/22/06141/003
Issue Date : 2022.08.02
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PO Date : 2022.06.13

Page 1 of 1

Sample Name : GROUND WATER SAMPLE (SUMP WATER)

Sample Collection Date : 2022.07.18 Sample Registration Date : 2022.07.20
Sample Analysis date : 2022.07.20 Analysis Completion Date : 2022.08.02
Test Required : As Per IS 10500:2012
Method of Testing : As per IS 3025 and APHA 23rd Edition
Sample Collected by Vimta Labs Limited.,

TEST REPORT

Sr.NO	Test Parameters	UOM	Limits as per IS:10500	RESULTS
1	pH	-	6.5 – 8.5 (NR)	7.09
2	Colour	Hazen	5(15)	3
3	Taste	-	Agreeable	Agreeable
4	Odour	-	Agreeable	Agreeable
5	Conductivity	µS/cm	\$	640
6	Turbidity	NTU	1(5)	<1.0
7	Total Dissolved Solids	mg/L	500(2000)	407.3
8	Total Hardness as CaCO ₃	mg/L	200(600)	151.5
9	Total Alkalinity as CaCO ₃	mg/L	200(600)	65
10	Calcium as Ca	mg/L	75(200)	43.34
11	Magnesium as Mg	mg/L	30(100)	10.48
12	Residual Free Chlorine	mg/L	0.2(1)	<0.1
13	Total Boron as B	mg/L	0.5(1)	<0.01
14	Chlorides as Cl	mg/L	250(1000)	113.6
15	Sulphates as SO ₄	mg/l	200(400)	68.5
16	Fluorides as F	mg/l	1.0(1.5)	0.74
17	Nitrates as NO ₃	mg/l	45(NR)	26.77
18	Sodium as Na	mg/L	\$	76.2
19	Potassium as K	mg/L	\$	2.665
20	Phenolic Compounds as C ₆ H ₅ OH	mg/L	0.001 (0.002)	<0.001
21	Cyanides as CN	mg/L	0.05(NR)	<0.02
22	Anionic Detergents as MBAS	mg/L	0.2(1.0)	<0.20
23	Mineral Oil	mg/L	0.5(NR)	<0.01
24	Cadmium as Cd	mg/L	0.003(NR)	<0.003
25	Total Arsenic as As	mg/L	0.01(0.05)	<0.01
26	Copper as Cu	mg/L	0.05(1.5)	<0.01
27	Lead as Pb	mg/L	0.01(NR)	<0.01
28	Manganese as Mn	mg/L	0.1(0.3)	<0.01
29	Iron as Fe	mg/L	0.3(NR)	0.02
30	Total Chromium as Cr ⁶⁺	mg/L	0.05(NR)	<0.01
31	Selenium as Se	mg/L	0.01(NR)	<0.01
32	Zinc as Zn	mg/L	5(15)	0.03
33	Aluminium as Al	mg/L	0.03(0.2)	<0.01
34	Mercury as Hg	mg/L	0.001(NR)	<0.001
35	Pesticides	-	Absent	Absent
36	E-Coli	MPN/100ml	Absent	Absent
37	Total Coliform	MPN/100ml	Absent	Absent

Results relate only to the sample tested.

Remarks: Instrument used: LC-MS/MS, GC-MS/MS & GC-MS with Purge and Trap; BDL: Below Detection limit;

Instrument used: Alpha counting system and Low Background Beta Counting system; BDL: Below Detection limit;

The submitted sample complies to the requirement of IS 10500:2012 with respect to the tested parameters.

- END OF THE REPORT -

Name and Designation of Authorized Signatory

Dr. Subbareddy Mallampati
Dy. Manager-Environment

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Report Number : VLL/VLS/22/06141/004
Issue Date : 2022.08.02
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PO Date : 2022.06.13

Page 1 of 1

Sample Name : DRINKING WATER SAMPLE (RO WATER-GIRLS MESS)

Sample Collection Date : 2022.07.18 Sample Registration Date : 2022.07.20
Sample Analysis date : 2022.07.20 Analysis Completion Date : 2022.08.02
Test Required : As Per IS 10500:2012
Method of Testing : As per IS 3025 and APHA 23rd Edition
Sample Collected by Vimta Labs Limited.,

TEST REPORT

Sr.No	Test Parameters	UOM	Limits as per IS:10500	RESULTS
1	pH	-	6.5 – 8.5 (NR)	7.01
2	Colour	Hazen	5(15)	4
3	Taste	-	Agreeable	Agreeable
4	Odour	-	Agreeable	Agreeable
5	Conductivity	µS/cm	\$	154
6	Turbidity	NTU	1(5)	<1.0
7	Total Dissolved Solids	mg/L	500(2000)	94.7
8	Total Hardness as CaCO ₃	mg/L	200(600)	45.8
9	Total Alkalinity as CaCO ₃	mg/L	200(600)	15
10	Calcium as Ca	mg/L	75(200)	14.03
11	Magnesium as Mg	mg/L	30(100)	2.61
12	Residual Free Chlorine	mg/L	0.2(1)	<0.1
13	Total Boron as B	mg/L	0.5(1)	<0.01
14	Chlorides as Cl	mg/L	250(1000)	33.1
15	Sulphates as SO ₄	mg/l	200(400)	8.6
16	Fluorides as F	mg/l	1.0(1.5)	0.34
17	Nitrates as NO ₃	mg/l	45(NR)	6.452
18	Sodium as Na	mg/L	\$	13.91
19	Potassium as K	mg/L	\$	0.611
20	Phenolic Compounds as C ₆ H ₅ OH	mg/L	0.001 (0.002)	<0.001
21	Cyanides as CN	mg/L	0.05(NR)	<0.02
22	Anionic Detergents as MBAS	mg/L	0.2(1.0)	<0.20
23	Mineral Oil	mg/L	0.5(NR)	<0.01
24	Cadmium as Cd	mg/L	0.003(NR)	<0.003
25	Total Arsenic as As	mg/L	0.01(0.05)	<0.01
26	Copper as Cu	mg/L	0.05(1.5)	0.01
27	Lead as Pb	mg/L	0.01(NR)	<0.01
28	Manganese as Mn	mg/L	0.1(0.3)	<0.01
29	Iron as Fe	mg/L	0.3(NR)	<0.01
30	Total Chromium as Cr ⁶⁺	mg/L	0.05(NR)	<0.01
31	Selenium as Se	mg/L	0.01(NR)	<0.01
32	Zinc as Zn	mg/L	5(15)	0.12
33	Aluminium as Al	mg/L	0.03(0.2)	<0.01
34	Mercury as Hg	mg/L	0.001(NR)	<0.001
35	Pesticides	-	Absent	Absent
36	E-Coli	MPN/100ml	Absent	Absent
37	Total Coliform	MPN/100ml	Absent	Absent

Results relate only to the sample tested.

Remarks: Instrument used: LC-MS/MS, GC-MS/MS & GC-MS with Purge and Trap; BDL: Below Detection limit;

Instrument used: Alpha counting system and Low Background Beta Counting system; BDL: Below Detection limit;

The submitted sample complies to the requirement of IS 10500:2012 with respect to the tested parameters.

- END OF THE REPORT -

Name and Designation of Authorized Signatory

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Report Number : VLL/VLS/22/06141/005
Issue Date : 2022.08.02
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PO Date : 2022.06.13

Page 1 of 1

Sample Name : BORE WELL WATER SAMPLE (NEAR STP)

Sample Collection Date : 2022.07.18 Sample Registration Date : 2022.07.20
Sample Analysis date : 2022.07.20 Analysis Completion Date : 2022.08.02
Test Required : As Per IS 10500:2012
Method of Testing : As per IS 3025 and APHA 23rd Edition
Sample Collected by Vimta Labs Limited.,

TEST REPORT

Sr.No	Test Parameters	UOM	Limits as per IS:10500	RESULTS
1	pH	-	6.5 – 8.5 (NR)	7.13
2	Colour	Hazen	5(15)	4
3	Taste	-	Agreeable	Agreeable
4	Odour	-	Agreeable	Agreeable
5	Conductivity	µS/cm	5	459
6	Turbidity	NTU	1(5)	<1.0
7	Total Dissolved Solids	mg/L	500(2000)	279.7
8	Total Hardness as CaCO ₃	mg/L	200(600)	110.1
9	Total Alkalinity as CaCO ₃	mg/L	200(600)	1.7
10	Calcium as Ca	mg/L	75(200)	36.07
11	Magnesium as Mg	mg/L	30(100)	4.84
12	Residual Free Chlorine	mg/L	0.2(1)	<0.1
13	Total Boron as B	mg/L	0.5(1)	<0.01
14	Chlorides as Cl	mg/L	250(1000)	106.5
15	Sulphates as SO ₄	mg/l	200(400)	56.9
16	Fluorides as F	mg/l	1.0(1.5)	0.65
17	Nitrates as NO ₃	mg/l	45(NR)	2.003
18	Sodium as Na	mg/L	5	54.6
19	Potassium as K	mg/L	5	1.122
20	Phenolic Compounds as C ₆ H ₅ OH	mg/L	0.001 (0.002)	<0.001
21	Cyanides as CN	mg/L	0.05(NR)	<0.02
22	Anionic Detergents as MBAS	mg/L	0.2(1.0)	<0.20
23	Mineral Oil	mg/L	0.5(NR)	<0.01
24	Cadmium as Cd	mg/L	0.003(NR)	<0.003
25	Total Arsenic as As	mg/L	0.01(0.05)	<0.01
26	Copper as Cu	mg/L	0.05(1.5)	<0.01
27	Lead as Pb	mg/L	0.01(NR)	<0.01
28	Manganese as Mn	mg/L	0.1(0.3)	0.17
29	Iron as Fe	mg/L	0.3(NR)	0.01
30	Total Chromium as Cr ⁶⁺	mg/L	0.05(NR)	<0.01
31	Selenium as Se	mg/L	0.01(NR)	<0.01
32	Zinc as Zn	mg/L	5(15)	<0.01
33	Aluminium as Al	mg/L	0.03(0.2)	<0.01
34	Mercury as Hg	mg/L	0.001(NR)	<0.001
35	Pesticides	-	Absent	Absent
36	E-Coli	MPN/100ml	Absent	Absent
37	Total Coliform	MPN/100ml	Absent	Absent

Results relate only to the sample tested.

Remarks: Instrument used: LC-MS/MS, GC-MS/MS & GC-MS with Purge and Trap; BDL: Below Detection limit;

Instrument used: Alpha counting system and Low Background Beta Counting system; BDL: Below Detection limit;

The submitted sample complies to the requirement of IS 10500:2012 with respect to the tested parameters.

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PO Date : 2022.06.13

Page 1 of 1

Sample Name	: DOMESTIC WATER
Sample Collection Date	: 2022.07.18
Sample Analysis date	: 2022.07.20
Test Required	: As Per IS 10500:2012
Method of Testing	: As per IS 3025 and APHA 23 rd Edition
Sample Collected by	Vimta Labs Limited.,
Sample Registration Date	: 2022.07.20
Analysis Completion Date	: 2022.08.02

TEST REPORT

Sr.NO	Test Parameters	UOM	Limits as per IS:10500	RESULTS
1	pH	-	6.5 – 8.5 (NR)	7.15
2	Colour	Hazen	5(15)	5
3	Taste	-	Agreeable	Agreeable
4	Odour	-	Agreeable	Agreeable
5	Conductivity	µS/cm	\$	738
6	Turbidity	NTU	1(5)	<1.0
7	Total Dissolved Solids	mg/L	500(2000)	472.6
8	Total Hardness as CaCO ₃	mg/L	200(800)	185.0
9	Total Alkalinity as CaCO ₃	mg/L	200(800)	120
10	Calcium as Ca	mg/L	75(200)	52.1
11	Magnesium as Mg	mg/L	30(100)	13.3
12	Residual Free Chlorine	mg/L	0.2(1)	<0.1
13	Total Boron as B	mg/L	0.5(1)	<0.01
14	Chlorides as Cl	mg/L	250(1000)	112.9
15	Sulphates as SO ₄	mg/l	200(400)	74.9
16	Fluorides as F	mg/l	1.0(1.5)	0.82
17	Nitrates as NO ₃	mg/l	45(NR)	12.45
18	Sodium as Na	mg/L	\$	83.2
19	Potassium as K	mg/L	\$	2.968
20	Phenolic Compounds as C ₆ H ₅ OH	mg/L	0.001 (0.002)	<0.001
21	Cyanides as CN	mg/L	0.05(NR)	<0.02
22	Anionic Detergents as MBAS	mg/L	0.2(1.0)	<0.20
23	Mineral Oil	mg/L	0.5(NR)	<0.01
24	Cadmium as Cd	mg/L	0.003(NR)	<0.003
25	Total Arsenic as As	mg/L	0.01(0.05)	<0.01
26	Copper as Cu	mg/L	0.05(1.5)	<0.01
27	Lead as Pb	mg/L	0.01(NR)	<0.01
28	Manganese as Mn	mg/L	0.1(0.3)	0.13
29	Iron as Fe	mg/L	0.3(NR)	0.01
30	Total Chromium as Cr ⁶⁺	mg/L	0.05(NR)	<0.01
31	Selenium as Se	mg/L	0.01(NR)	<0.01
32	Zinc as Zn	mg/L	5(15)	<0.01
33	Aluminium as Al	mg/L	0.03(0.2)	<0.01
34	Mercury as Hg	mg/L	0.001(NR)	<0.001
35	Pesticides	-	Absent	Absent
36	E-Coli	MPN/100ml	Absent	Absent
37	Total Coliform	MPN/100ml	Absent	Absent

Results relate only to the sample tested.

Remarks: Instrument used: LC-MS/MS, GC-MS/MS & GC-MS with Purge and Trap; BDL: Below Detection limit;

Instrument used: Alpha counting system and Low Background Beta Counting system; BDL: Below Detection limit;

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Sample Name	: SOIL SAMPLE NEAR LIBRARY		
Sample Collection Date	: 2022.07.18	Sample Registration Date	: 2022.07.20
Sample Analysis date	: 2022.07.20	Analysis Completion Date	: 2022.08.02
Test Required	: Aa per WO		
Method of Testing	: As per ML JACKSON AND SSSA GUIDELINES		
Sample Collected by	Vimta Labs Limited,.		

TEST REPORT

S.No	Parameters	Unit	RESULTS
1	Texture		
a	Sand	%	49
b	Silt	%	23
c	Clay	%	28
2	Textural Class		Sandy Clay
3	Bulk Density	g/cc	1.42
4	pH (1:5 Aq.Extraction)	----	5.98
5	Conductivity (1:5 Aq.Extraction)	µS/cm	194
6	Exchangeable Calcium as Ca	mg/kg	2016.0
7	Exchangeable Magnesium as Mg	mg/kg	525.6
8	Exchangeable Sodium as Na	mg/kg	267.8
9	Sodium Absorption Ratio (SAR)	----	1.37
10	Available Nitrogen as N	Kg/hac	86.9
11	Available Phosphorous as P	Kg/hac	58.9
12	Available Potassium as K	Kg/hac	164.8
13	Organic Carbon	%	0.32
14	Organic Matter	%	0.55
15	Water Soluble Chlorides as Cl	mg/kg	110
16	Water Soluble Sulphates as SO4	mg/kg	48
17	Aluminum	%	6.55
18	Total Iron	%	2.24
19	Manganese	mg/kg	196.43
20	Boron	mg/kg	<0.1
21	Zinc	mg/kg	21.85
22	Total Chromium as Cr	mg/kg	45.61
23	Lead as Pb	mg/kg	21.36
24	Nickel as Ni	mg/kg	22.69
25	Arsenic as As	mg/kg	<0.1
26	Mercury as Hg	mg/kg	<0.1
27	Cadmium as Cd	mg/kg	<0.1
28	Exchangeable Sodium	meq/100g	1.27
29	Exchangeable Potassium	meq/100g	0.65
30	Exchangeable Calcium	meq/100g	11.00
31	Exchangeable Magnesium	meq/100g	4.78
32	Cation Exchange Capacity	meq/100g	17.71

Results relate only to the sample tested.

Remarks: Instrument used: ICP OES ; BDL: Below Detection limit;

- END OF THE REPORT -

Name and Designation of Authorized Signatory

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INDIA

Report Number : VLL/VLS/22/06141/008
Issue Date : 2022.08.02
PO Ref : WO/22/1/1411
PO Date : 2022.06.13

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Sample Name : SOIL SAMPLE NEAR DOWN SLOPE OF STP DISCHAGRE POINT
Sample Collection Date : 2022.07.18 Sample Registration Date : 2022.07.20
Sample Analysis date : 2022.07.20 Analysis Completion Date : 2022.08.02
Test Required : As Per WO
Method of Testing : As per ML JACKSON AND SSSA GUIDELINES
Sample Collected by Vimta Labs Limited.,

TEST REPORT

S.No	Parameters	Unit	RESULTS
1	Texture		
a	Sand	%	46
b	Silt	%	23
c	Clay	%	31
2	Textural Class		Sandy Clay
3	Bulk Density	g/cc	1.36
4	pH (1:5 Aq.Extraction)	----	6.24
5	Conductivity (1:5 Aq.Extraction)	µS/cm	245
6	Exchangeable Calcium as Ca	mg/kg	4762.7
7	Exchangeable Magnesium as Mg	mg/kg	907.2
8	Exchangeable Sodium as Na	mg/kg	253.4
9	Sodium Absorption Ratio (SAR)	----	0.88
10	Available Nitrogen as N	Kg/hac	100.4
11	Available Phosphorous as P	Kg/hac	62.8
12	Available Potassium as K	Kg/hac	188.9
13	Organic Carbon	%	0.38
14	Organic Matter	%	0.66
15	Water Soluble Chlorides as Cl	mg/kg	85
16	Water Soluble Sulphates as SO4	mg/kg	59
17	Aluminum	%	3.73
18	Total Iron	%	1.48
19	Manganese	mg/kg	131.92
20	Boron	mg/kg	<0.1
21	Zinc	mg/kg	29.15
22	Total Chromium as Cr	mg/kg	24.70
23	Lead as Pb	mg/kg	12.13
24	Nickel as Ni	mg/kg	11.36
25	Arsenic as As	mg/kg	<0.1
26	Mercury as Hg	mg/kg	<0.1
27	Cadmium as Cd	mg/kg	<0.1
28	Exchangeable Sodium	meq/100g	1.26
29	Exchangeable Potassium	meq/100g	0.75
30	Exchangeable Calcium	meq/100g	27.14
31	Exchangeable Magnesium	meq/100g	8.62
32	Cation Exchange Capacity	meq/100g	37.76

Results relate only to the sample tested.

Remarks: Instrument used: ICP OES ; BDL: Below Detection limit;

- END OF THE REPORT -

Name and Designation of Authorized Signatory

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Issue Date : 2022.08.02
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PO Date : 2022.06.13

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Sample Name	: SOIL SAMPLE NEAR DOWN SLOPE OF SOLID WASTE MANAGEMENT AREA		
Sample Collection Date	: 2022.07.18	Sample Registration Date	: 2022.07.20
Sample Analysis date	: 2022.07.20	Analysis Completion Date	: 2022.08.02
Test Required	: As Per WO		
Method of Testing	: As per ML JACKSON AND SSSA GUIDELINES		
Sample Collected by Vimta Labs Limited.,			

TEST REPORT

S.No	Parameters	Unit	RESULTS
1	Texture		
a	Sand	%	51
b	Silt	%	23
c	Clay	%	25
2	Textural Class		Sandy Clay
3	Bulk Density	g/cc	1.38
4	pH (1:5 Aq.Extraction)	----	3.48
5	Conductivity (1:5 Aq.Extraction)	µS/cm	179
6	Exchangeable Calcium as Ca	mg/kg	1556.6
7	Exchangeable Magnesium as Mg	mg/kg	354.5
8	Exchangeable Sodium as Na	mg/kg	327.5
9	Sodium Absorption Ratio (SAR)	----	1.95
10	Available Nitrogen as N	Kg/hac	96.8
11	Available Phosphorous as P	Kg/hac	48.8
12	Available Potassium as K	Kg/hac	154.8
13	Organic Carbon	%	0.42
14	Organic Matter	%	0.72
15	Water Soluble Chlorides as Cl	mg/kg	146
16	Water Soluble Sulphates as SO4	mg/kg	72
17	Aluminum	%	5.60
18	Total Iron	%	2.07
19	Manganese	mg/kg	146.01
20	Boron	mg/kg	<0.1
21	Zinc	mg/kg	23.23
22	Total Chromium as Cr	mg/kg	37.19
23	Lead as Pb	mg/kg	16.84
24	Nickel as Ni	mg/kg	16.70
25	Arsenic as As	mg/kg	<0.1
26	Mercury as Hg	mg/kg	<0.1
27	Cadmium as Cd	mg/kg	<0.1
28	Exchangeable Sodium	meq/100g	1.60
29	Exchangeable Potassium	meq/100g	0.62
30	Exchangeable Calcium	meq/100g	8.74
31	Exchangeable Magnesium	meq/100g	3.32
32	Cation Exchange Capacity	meq/100g	14.27

Results relate only to the sample tested.

Remarks: Instrument used: ICP OES ; BDL: Below Detection limit;

- END OF THE REPORT -

Name and Designation of Authorized Signatory

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Sample Name : STP WATER

Sample Collection Date : 2022.07.18 Sample Registration Date : 2022.07.20
Sample Analysis date : 2022.07.20 Analysis Completion Date : 2022.08.02
Test Required : As Per WO
Method of Testing : As per APHA 23rd Edition and IS 3025 Part-44.
Sample Collected by Vimta Labs Limited.,

TEST REPORT

S.No	Parameters	Unit	STP INLET	STP OUTLET	Inland Surface Water Discharge Standards as per Schedule - VI
1	pH @ 25°C	--	6.69	7.27	5.5 – 9.0
2	Total Suspended Solids	mg/l	520	12.4	<100
3	Oil & Grease	mg/l	11.9	<0.1	<10
4	Total Residual Chlorin	mg/l	<0.1	<0.1	<1.0
5	Ammonical Nitrogen as N	mg/l	11.8	<0.1	<50
6	Total Kjeldhal Nitrogen as NH ₃	mg/l	38.6	<0.1	<100
7	Free Ammonia as NH ₃	mg/l	3.86	<0.1	<5.0
8	Biological Oxygen Demand	mg/l	184	<3.0	<30.0
9	Chemical Oxygen Demand	mg/l	530	20	<250
10	Arsenic as As	mg/l	<0.01	<0.01	<0.2
11	Mercury as Hg	mg/l	<0.001	<0.001	<0.01
12	Lead as Pb	mg/l	<0.01	<0.01	<0.1
13	Cadmium as Cd	mg/l	<0.01	<0.01	<2.0
14	Hexavalent Chromium as Cr ⁺⁶	mg/l	<0.05	<0.05	<0.1
15	Total Chromium as Cr	mg/l	<0.01	<0.01	<2.0
16	Copper as Cu	mg/l	<0.01	<0.01	<3.0
17	Zinc as Zn	mg/l	0.49	0.24	<5.0
18	Selenium as Se	mg/l	<0.01	<0.01	<0.05
19	Nickel as Ni	mg/l	<0.01	<0.01	<3.0
20	Cyanide as CN	mg/l	<0.02	<0.02	<0.2
21	Fluoride as F	mg/l	1.22	1.04	<2.0
22	Dissolved Phosphates as P	mg/l	0.72	0.31	<5.0
23	Sulphide as S	mg/l	8.24	0.65	<2.0
24	Phenoile Compounds as C ₆ H ₅ OH	mg/l	<0.002	<0.002	<1.0
25	Manganese as Mn	mg/l	0.11	0.04	<2.0
26	Iron as Fe	mg/l	0.16	0.06	<3.0
27	Vanadium as V	mg/l	<0.01	<0.01	<0.2
28	Nitrate Nitrogen	mg/l	13.48	5.44	<10
29	Residual Sodium Carbonate	me/l	1.065	0.3725	--

Results relate only to the sample tested.

Remarks: Instrument used: ICP OES ; BDL: Below Detection limit;

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Name and Designation of Authorized Signatory

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