

Issued to :

M/s. LEMS Academy Pvt. Ltd.,
LMES Foundation,
Survey No.113/1, Door No.3, Block B1,
200 ft Radial Road, Zamin Pallavaram,
Chennai - 600 117.

(An ISO : 9001, ISO : 14001, OHSAS : 18001 & ISO : 22000 Certified Company)

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TEST REPORT

SAMPLE DETAILS:

SAMPLE SUBMITTED BY CUSTOMER

Page 1 of 2

Report Number	ABCTL/20180421/W/6129		
Customer Reference	As per TRF		
Sample Description	GW - I	Date of Receipt	21-04-2018
Appearance	Yellow Colour with Turbid	Date of Analysis	21-04-2018
Sample Condition	Good	Analysis Completed On	28-04-2018
Type of Container, Quantity	Plastic Bottle- 2 Litre	Report Date	28-04-2018

S.No.	PARAMETER	UNIT	RESULTS	TEST PROCEDURE	ACCEPTABLE LIMIT AS PER IS 10500 : 2012
1	Colour	Hazen	50	APHA 22 nd EDITION	5
2	Appearance	-	Turbid	Visual	Clear and Colourless
3	Odour	-	No Odour Observed	APHA 22 nd EDITION	Agreeable
4	Turbidity	NTU	47	IS : 3025 Part 10-1984 (Reaff: 2002)	1
5	pH at 25 °C	-	6.94	IS : 3025 Part 11- 1983 (Reaff: 2002)	6.5-8.5
6	Conductivity at 25 °C	µS/cm	16900	IS : 3025 Part 14- 1984 (Reaff: 2013)	Not Specified
7	Total dissolved solids	mg/l	10678	IS : 3025 Part 16-1984 (Reaff: 2003)	500
8	Total Alkalinity as CaCO ₃	mg/l	390	IS : 3025 Part 23- 1986(Reaff:2003)	200
9	P- Alkalinity as CaCO ₃	mg/l	Nil	IS : 3025 Part 23- 1986(Reaff:2003)	Not Specified
10	Total Hardness as CaCO ₃	mg/l	2800	IS : 3025 Part 21-2009	200
11	Calcium as Ca	mg/l	640	IS : 3025 Part 40-1991 (Reaff:2003)	75
12	Magnesium as Mg	mg/l	480	APHA 22 nd EDN-3500 Mg B	30
13	Chloride as Cl ⁻	mg/l	3033	IS : 3025 Part 32-1988 (Reaff: 2003)	250
14	Sulphate as SO ₄	mg/l	3250	APHA 22 nd EDN-4500- SO ₄ ²⁻ E	200
15	Nitrate as NO ₃	mg/l	70.21	APHA 22 nd EDN -4500- NO ₃ ⁻ B	45
16	Iron as Fe	mg/l	0.61	IS : 3025 Part 53-2003	0.30
17	Manganese as Mn	mg/l	0.052	APHA 22 nd EDN -3500-Mn D	0.10

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TEST REPORT

Report Number : ABCTL/20180421/W/6129
Sample Description : GW - I
Report Date : 28-04-2018

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S.NO.	PARAMETER	UNIT	RESULTS	TEST PROCEDURE	ACCEPTABLE LIMIT AS PER IS 10500 : 2012
18	Copper as Cu	mg/l	0.078	APHA 22 nd EDN -3111 B	0.05
19	Fluoride as F	mg/l	0.67	APHA 22 nd EDN -4500-F B&D	1.00
20	Residual Chlorine	mg/l	BDL (<0.1)	APHA 22 nd EDN -4500-Cl B	0.20
21	Ammonia as N-NH ₃	mg/l	BDL(<0.05)	APHA 22 nd EDI-4500- NH ₃ B&C	0.5
22	Biochemical Oxygen Demand at 27° C for 3days	mg/l	11	IS:3025:Part-44:1993 (Reaff:2003)	Not Specified
23	Chemical Oxygen Demand	mg/l	36	IS:3025:Part-58:2006	Not Specified
24	Coliform	NA	Absent	IS 15185 - 2016	Absent /100ml
25	E.coli	NA	Absent	IS 15185 - 2016	Absent /100ml

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TEST REPORT

SAMPLE DETAILS:

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Report Number	ABCTL/20180421/W/6130		
Customer Reference	As per TRF		
Sample Description	GW - II	Date of Receipt	21-04-2018
Appearance	Clear	Date of Analysis	21-04-2018
Sample Condition	Good	Analysis Completed On	28-04-2018
Type of Container, Quantity	Plastic Bottle- 2 Litre	Report Date	28-04-2018

S.No.	PARAMETER	UNIT	RESULTS	TEST PROCEDURE	ACCEPTABLE LIMIT AS PER IS 10500 : 2012
1	Colour	Hazen	BDL(<2)	APHA 22 nd EDITION	5
2	Appearance	-	Clear and Colourless	Visual	Clear and Colourless
3	Odour	-	No Odour Observed	APHA 22 nd EDITION	Agreeable
4	Turbidity	NTU	0.5	IS : 3025 Part 10-1984 (Reaff: 2002)	1
5	pH at 25 °C	-	7.15	IS : 3025 Part 11- 1983 (Reaff: 2002)	6.5-8.5
6	Conductivity at 25 °C	µS/cm	8900	IS : 3025 Part 14- 1984 (Reaff: 2013)	Not Specified
7	Total dissolved solids	mg/l	5934	IS : 3025 Part 16-1984 (Reaff: 2003)	500
8	Total Alkalinity as CaCO ₃	mg/l	380	IS : 3025 Part 23- 1986(Reaff:2003)	200
9	P- Alkalinity as CaCO ₃	mg/l	Nil	IS : 3025 Part 23- 1986(Reaff:2003)	Not Specified
10	Total Hardness as CaCO ₃	mg/l	2100	IS : 3025 Part 21-2009	200
11	Calcium as Ca	mg/l	340	IS : 3025 Part 40-1991 (Reaff:2003)	75
12	Magnesium as Mg	mg/l	170	APHA 22 nd EDN-3500 Mg B	30
13	Chloride as Cl ⁻	mg/l	1370	IS : 3025 Part 32-1988 (Reaff: 2003)	250
14	Sulphate as SO ₄	mg/l	2409	APHA 22 nd EDN-4500- SO ₄ ²⁻ E	200
15	Nitrate as NO ₃	mg/l	63.75	APHA 22 nd EDN -4500- NO ₃ ⁻ B	45
16	Iron as Fe	mg/l	BDL (<0.05)	IS : 3025 Part 53-2003	0.30
17	Manganese as Mn	mg/l	0.022	APHA 22 nd EDN -3500-Mn D	0.10

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Report Number : ABCTL/20180421/W/6130

Sample Description : GW - II

Report Date : 28-04-2018

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S.NO.	PARAMETER	UNIT	RESULTS	TEST PROCEDURE	ACCEPTABLE LIMIT AS PER IS 10500 : 2012
18	Copper as Cu	mg/l	0.018	APHA 22 nd EDN -3111 B	0.05
19	Fluoride as F	mg/l	1.03	APHA 22 nd EDN -4500-F B&D	1.00
20	Residual Chlorine	mg/l	BDL (<0.1)	APHA 22 nd EDN -4500-Cl B	0.20
21	Ammonia as N-NH ₃	mg/l	2.59	APHA 22 nd EDI-4500- NH ₃ B&C	0.5
22	Biochemical Oxygen Demand at 27° C for 3days	mg/l	1.1	IS:3025:Part-44:1993 (Reaff:2003)	Not Specified
23	Chemical Oxygen Demand	mg/l	15	IS:3025:Part-58:2006	Not Specified
24	Coliform	NA	Absent	IS 15185 - 2016	Absent /100ml
25	E.coli	NA	Absent	IS 15185 - 2016	Absent /100ml

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SAMPLE DETAILS:

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Page 1 of 2

Report Number	ABCTL/20180421/W/6131		
Customer Reference	As per TRF		
Sample Description	GW - III	Date of Receipt	21-04-2018
Appearance	Brown Colour with Turbid	Date of Analysis	21-04-2018
Sample Condition	Good	Analysis Completed On	28-04-2018
Type of Container, Quantity	Plastic Bottle- 2 Litre	Report Date	28-04-2018

S.No.	PARAMETER	UNIT	RESULTS	TEST PROCEDURE	ACCEPTABLE LIMIT AS PER IS 10500 : 2012
1	Colour	Hazen	25	APHA 22 nd EDITION	5
2	Appearance	-	Turbid	Visual	Clear and Colourless
3	Odour	-	No Odour Observed	APHA 22 nd EDITION	Agreeable
4	Turbidity	NTU	60	IS : 3025 Part 10-1984 (Reaff: 2002)	1
5	pH at 25 °C	-	7.11	IS : 3025 Part 11- 1983 (Reaff: 2002)	6.5-8.5
6	Conductivity at 25 °C	µS/cm	6800	IS : 3025 Part 14- 1984 (Reaff: 2013)	Not Specified
7	Total dissolved solids	mg/l	4164	IS : 3025 Part 16-1984 (Reaff: 2003)	500
8	Total Alkalinity as CaCO ₃	mg/l	280	IS : 3025 Part 23- 1986(Reaff:2003)	200
9	P- Alkalinity as CaCO ₃	mg/l	Nil	IS : 3025 Part 23- 1986(Reaff:2003)	Not Specified
10	Total Hardness as CaCO ₃	mg/l	1040	IS : 3025 Part 21-2009	200
11	Calcium as Ca	mg/l	224	IS : 3025 Part 40-1991 (Reaff:2003)	75
12	Magnesium as Mg	mg/l	115	APHA 22 nd EDN-3500 Mg B	30
13	Chloride as Cl ⁻	mg/l	181	IS : 3025 Part 32-1988 (Reaff: 2003)	250
14	Sulphate as SO ₄	mg/l	2543	APHA 22 nd EDN-4500- SO ₄ ²⁻ E	200
15	Nitrate as NO ₃	mg/l	117	APHA 22 nd EDN -4500- NO ₃ ⁻ B	45
16	Iron as Fe	mg/l	2.98	IS : 3025 Part 53-2003	0.30
17	Manganese as Mn	mg/l	0.059	APHA 22 nd EDN -3500-Mn D	0.10

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Report Number : ABCTL/20180421/W/6131
Sample Description : GW - III
Report Date : 28-04-2018

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S.NO.	PARAMETER	UNIT	RESULTS	TEST PROCEDURE	ACCEPTABLE LIMIT AS PER IS 10500 : 2012
18	Copper as Cu	mg/l	0.038	APHA 22 nd EDN -3111 B	0.05
19	Fluoride as F	mg/l	0.53	APHA 22 nd EDN -4500-F B&D	1.00
20	Residual Chlorine	mg/l	BDL (<0.1)	APHA 22 nd EDN -4500-CI B	0.20
21	Ammonia as N-NH ₃	mg/l	0.71	APHA 22 nd EDI-4500- NH ₃ B&C	0.5
22	Biochemical Oxygen Demand at 27° C for 3days	mg/l	1.6	IS:3025:Part-44:1993 (Reaff:2003)	Not Specified
23	Chemical Oxygen Demand	mg/l	12	IS:3025:Part-58:2006	Not Specified
24	Coliform	NA	Present	IS 15185 - 2016	Absent /100ml
25	E.coli	NA	Absent	IS 15185 - 2016	Absent /100ml

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TEST REPORT

SAMPLE DETAILS:

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Page 1 of 2

Report Number	ABCTL/20180421/W/6132		
Customer Reference	As per TRF		
Sample Description	GW - IV	Date of Receipt	21-04-2018
Appearance	Pale grey colour with Turbid	Date of Analysis	21-04-2018
Sample Condition	Good	Analysis Completed On	28-04-2018
Type of Container, Quantity	Plastic Bottle- 2 Litre	Report Date	28-04-2018

S.No.	PARAMETER	UNIT	RESULTS	TEST PROCEDURE	ACCEPTABLE LIMIT AS PER IS 10500 : 2012
1	Colour	Hazen	20	APHA 22 nd EDITION	5
2	Appearance	-	Turbid	Visual	Clear and Colourless
3	Odour	-	No Odour Observed	APHA 22 nd EDITION	Agreeable
4	Turbidity	NTU	9.2	IS : 3025 Part 10-1984 (Reaff: 2002)	1
5	pH at 25 °C	-	7.29	IS : 3025 Part 11- 1983 (Reaff: 2002)	6.5-8.5
6	Conductivity at 25 °C	µS/cm	4800	IS : 3025 Part 14- 1984 (Reaff: 2013)	Not Specified
7	Total dissolved solids	mg/l	2938	IS : 3025 Part 16-1984 (Reaff: 2003)	500
8	Total Alkalinity as CaCO ₃	mg/l	350	IS : 3025 Part 23- 1986(Reaff:2003)	200
9	P- Alkalinity as CaCO ₃	mg/l	Nil	IS : 3025 Part 23- 1986(Reaff:2003)	Not Specified
10	Total Hardness as CaCO ₃	mg/l	1210	IS : 3025 Part 21-2009	200
11	Calcium as Ca	mg/l	176	IS : 3025 Part 40-1991 (Reaff:2003)	75
12	Magnesium as Mg	mg/l	185	APHA 22 nd EDN-3500 Mg B	30
13	Chloride as Cl ⁻	mg/l	523	IS : 3025 Part 32-1988 (Reaff: 2003)	250
14	Sulphate as SO ₄	mg/l	892	APHA 22 nd EDN-4500- SO ₄ ²⁻ E	200
15	Nitrate as NO ₃	mg/l	246	APHA 22 nd EDN -4500- NO ₃ ⁻ B	45
16	Iron as Fe	mg/l	BDL (<0.05)	IS : 3025 Part 53-2003	0.30
17	Manganese as Mn	mg/l	0.034	APHA 22 nd EDN -3500-Mn D	0.10

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TEST REPORT

Report Number : ABCTL/20180421/W/6132
Sample Description : GW - IV
Report Date : 28-04-2018

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S.NO.	PARAMETER	UNIT	RESULTS	TEST PROCEDURE	ACCEPTABLE LIMIT AS PER IS 10500 : 2012
18	Copper as Cu	mg/l	0.018	APHA 22 nd EDN -3111 B	0.05
19	Fluoride as F	mg/l	0.03	APHA 22 nd EDN -4500-F B&D	1.00
20	Residual Chlorine	mg/l	BDL (<0.1)	APHA 22 nd EDN -4500-Cl B	0.20
21	Ammonia as N-NH ₃	mg/l	0.52	APHA 22 nd EDI-4500- NH ₃ B&C	0.5
22	Biochemical Oxygen Demand at 27° C for 3days	mg/l	4.9	IS:3025:Part-44:1993 (Reaff:2003)	Not Specified
23	Chemical Oxygen Demand	mg/l	36	IS:3025:Part-58:2006	Not Specified
24	Coliform	NA	Present	IS 15185 - 2016	Absent /100ml
25	E.coli	NA	Present	IS 15185 - 2016	Absent /100ml

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SAMPLE DETAILS:

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Page 1 of 2

Report Number	ABCTL/20180421/W/6133		
Customer Reference	As per TRF		
Sample Description	GW - V	Date of Receipt	21-04-2018
Appearance	Pale Yellow colour with Turbid	Date of Analysis	21-04-2018
Sample Condition	Good	Analysis Completed On	28-04-2018
Type of Container, Quantity	Plastic Bottle- 2 Litre	Report Date	28-04-2018

S.No.	PARAMETER	UNIT	RESULTS	TEST PROCEDURE	ACCEPTABLE LIMIT AS PER IS 10500 : 2012
1	Colour	Hazen	5	APHA 22 nd EDITION	5
2	Appearance	-	Turbid	Visual	Clear and Colourless
3	Odour	-	No Odour Observed	APHA 22 nd EDITION	Agreeable
4	Turbidity	NTU	15	IS : 3025 Part 10-1984 (Reaff: 2002)	1
5	pH at 25 °C	-	6.98	IS : 3025 Part 11- 1983 (Reaff: 2002)	6.5-8.5
6	Conductivity at 25 °C	µS/cm	9100	IS : 3025 Part 14- 1984 (Reaff: 2013)	Not Specified
7	Total dissolved solids	mg/l	5847	IS : 3025 Part 16-1984 (Reaff: 2003)	500
8	Total Alkalinity as CaCO ₃	mg/l	340	IS : 3025 Part 23- 1986(Reaff:2003)	200
9	P- Alkalinity as CaCO ₃	mg/l	Nil	IS : 3025 Part 23- 1986(Reaff:2003)	Not Specified
10	Total Hardness as CaCO ₃	mg/l	2490	IS : 3025 Part 21-2009	200
11	Calcium as Ca	mg/l	700	IS : 3025 Part 40-1991 (Reaff:2003)	75
12	Magnesium as Mg	mg/l	178	APHA 22 nd EDN-3500 Mg B	30
13	Chloride as Cl ⁻	mg/l	166	IS : 3025 Part 32-1988 (Reaff: 2003)	250
14	Sulphate as SO ₄	mg/l	2283	APHA 22 nd EDN-4500- SO ₄ ²⁻ E	200
15	Nitrate as NO ₃	mg/l	420	APHA 22 nd EDN -4500- NO ₃ ⁻ B	45
16	Iron as Fe	mg/l	BDL(<0.05)	IS : 3025 Part 53-2003	0.30
17	Manganese as Mn	mg/l	0.016	APHA 22 nd EDN -3500-Mn D	0.10

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Report Number : ABCTL/20180421/W/6133
Sample Description : GW - V
Report Date : 28-04-2018

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S.NO.	PARAMETER	UNIT	RESULTS	TEST PROCEDURE	ACCEPTABLE LIMIT AS PER IS 10500 : 2012
18	Copper as Cu	mg/l	0.027	APHA 22 nd EDN -3111 B	0.05
19	Fluoride as F	mg/l	0.24	APHA 22 nd EDN -4500-F B&D	1.00
20	Residual Chlorine	mg/l	BDL (<0.1)	APHA 22 nd EDN -4500-Cl B	0.20
21	Ammonia as N-NH ₃	mg/l	BDL(<0.05)	APHA 22 nd EDI-4500- NH ₃ B&C	0.5
22	Biochemical Oxygen Demand at 27° C for 3days	mg/l	BDL (<1)	IS:3025:Part-44:1993 (Reaff:2003)	Not Specified
23	Chemical Oxygen Demand	mg/l	57	IS:3025:Part-58:2006	Not Specified
24	Coliform	NA	Present	IS 15185 - 2016	Absent /100ml
25	E.coli	NA	Absent	IS 15185 - 2016	Absent /100ml

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Report Number	ABCTL/20180421/W/6134		
Customer Reference	As per TRF		
Sample Description	GW - VI	Date of Receipt	21-04-2018
Appearance	Turbid	Date of Analysis	21-04-2018
Sample Condition	Good	Analysis Completed On	28-04-2018
Type of Container, Quantity	Plastic Bottle- 2 Litre	Report Date	28-04-2018

S.No.	PARAMETER	UNIT	RESULTS	TEST PROCEDURE	ACCEPTABLE LIMIT AS PER IS 10500 : 2012
1	Colour	Hazen	15	APHA 22 nd EDITION	5
2	Appearance	-	Turbid	Visual	Clear and Colourless
3	Odour	-	No Odour Observed	APHA 22 nd EDITION	Agreeable
4	Turbidity	NTU	15	IS : 3025 Part 10-1984 (Reaff: 2002)	1
5	pH at 25 °C	-	7.02	IS : 3025 Part 11- 1983 (Reaff: 2002)	6.5-8.5
6	Conductivity at 25 °C	µS/cm	8860	IS : 3025 Part 14- 1984 (Reaff: 2013)	Not Specified
7	Total dissolved solids	mg/l	5408	IS : 3025 Part 16-1984 (Reaff: 2003)	500
8	Total Alkalinity as CaCO ₃	mg/l	370	IS : 3025 Part 23- 1986(Reaff:2003)	200
9	P- Alkalinity as CaCO ₃	mg/l	Nil	IS : 3025 Part 23- 1986(Reaff:2003)	Not Specified
10	Total Hardness as CaCO ₃	mg/l	2590	IS : 3025 Part 21-2009	200
11	Calcium as Ca	mg/l	788	IS : 3025 Part 40-1991 (Reaff:2003)	75
12	Magnesium as Mg	mg/l	149	APHA 22 nd EDN-3500 Mg B	30
13	Chloride as Cl ⁻	mg/l	181	IS : 3025 Part 32-1988 (Reaff: 2003)	250
14	Sulphate as SO ₄	mg/l	2102	APHA 22 nd EDN-4500- SO ₄ ²⁻ E	200
15	Nitrate as NO ₃	mg/l	410	APHA 22 nd EDN -4500- NO ₃ ⁻ B	45
16	Iron as Fe	mg/l	0.24	IS : 3025 Part 53-2003	0.30
17	Manganese as Mn	mg/l	0.029	APHA 22 nd EDN -3500-Mn D	0.10

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TEST REPORT

Report Number : ABCTL/20180421/W/6134
Sample Description : GW - VI
Report Date : 28-04-2018

Page 2 of 2

S.NO.	PARAMETER	UNIT	RESULTS	TEST PROCEDURE	ACCEPTABLE LIMIT AS PER IS 10500 : 2012
18	Copper as Cu	mg/l	0.103	APHA 22 nd EDN -3111 B	0.05
19	Fluoride as F	mg/l	0.43	APHA 22 nd EDN -4500-F B&D	1.00
20	Residual Chlorine	mg/l	BDL (<0.1)	APHA 22 nd EDN -4500-Cl B	0.20
21	Ammonia as N-NH ₃	mg/l	BDL(<0.05)	APHA 22 nd EDI-4500- NH ₃ B&C	0.5
22	Biochemical Oxygen Demand at 27° C for 3days	mg/l	BDL (<1)	IS:3025:Part-44:1993 (Reaff:2003)	Not Specified
23	Chemical Oxygen Demand	mg/l	14	IS:3025:Part-58:2006	Not Specified
24	Coliform	NA	Present	IS 15185 - 2016	Absent /100ml
25	E.coli	NA	Present	IS 15185 - 2016	Absent /100ml

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TEST REPORT

SAMPLE DETAILS:

SAMPLE SUBMITTED BY CUSTOMER

Page 1 of 2

Report Number	ABCTL/20180421/W/6135		
Customer Reference	As per TRF		
Sample Description	GW - VII	Date of Receipt	21-04-2018
Appearance	Clear	Date of Analysis	21-04-2018
Sample Condition	Good	Analysis Completed On	28-04-2018
Type of Container, Quantity	Plastic Bottle- 2 Litre	Report Date	28-04-2018

S.No.	PARAMETER	UNIT	RESULTS	TEST PROCEDURE	ACCEPTABLE LIMIT AS PER IS 10500 : 2012
1	Colour	Hazen	2	APHA 22 nd EDITION	5
2	Appearance	-	Clear and Colourless	Visual	Clear and Colourless
3	Odour	-	No Odour Observed	APHA 22 nd EDITION	Agreeable
4	Turbidity	NTU	1.1	IS : 3025 Part 10-1984 (Reaff: 2002)	1
5	pH at 25 °C	-	7.35	IS : 3025 Part 11- 1983 (Reaff: 2002)	6.5-8.5
6	Conductivity at 25 °C	µS/cm	2240	IS : 3025 Part 14- 1984 (Reaff: 2013)	Not Specified
7	Total dissolved solids	mg/l	1298	IS : 3025 Part 16-1984 (Reaff: 2003)	500
8	Total Alkalinity as CaCO ₃	mg/l	525	IS : 3025 Part 23- 1986(Reaff:2003)	200
9	P- Alkalinity as CaCO ₃	mg/l	Nil	IS : 3025 Part 23- 1986(Reaff:2003)	Not Specified
10	Total Hardness as CaCO ₃	mg/l	435	IS : 3025 Part 21-2009	200
11	Calcium as Ca	mg/l	64	IS : 3025 Part 40-1991 (Reaff:2003)	75
12	Magnesium as Mg	mg/l	66	APHA 22 nd EDN-3500 Mg B	30
13	Chloride as Cl ⁻	mg/l	173	IS : 3025 Part 32-1988 (Reaff: 2003)	250
14	Sulphate as SO ₄	mg/l	275	APHA 22 nd EDN-4500- SO ₄ ²⁻ E	200
15	Nitrate as NO ₃	mg/l	37.6	APHA 22 nd EDN -4500- NO ₃ ⁻ B	45
16	Iron as Fe	mg/l	BDL(<0.05)	IS : 3025 Part 53-2003	0.30
17	Manganese as Mn	mg/l	0.008	APHA 22 nd EDN -3500-Mn D	0.10

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TEST REPORT

Report Number : ABCTL/20180421/W/6135
Sample Description : GW - VII
Report Date : 28-04-2018

Page 2 of 2

S.NO.	PARAMETER	UNIT	RESULTS	TEST PROCEDURE	ACCEPTABLE LIMIT AS PER IS 10500 : 2012
18	Copper as Cu	mg/l	0.014	APHA 22 nd EDN -3111 B	0.05
19	Fluoride as F	mg/l	1.82	APHA 22 nd EDN -4500-F B&D	1.00
20	Residual Chlorine	mg/l	BDL (<0.1)	APHA 22 nd EDN -4500-Cl B	0.20
21	Ammonia as N-NH ₃	mg/l	0.56	APHA 22 nd EDI-4500- NH ₃ B&C	0.5
22	Biochemical Oxygen Demand at 27° C for 3days	mg/l	BDL (<1)	IS:3025:Part-44:1993 (Reaff:2003)	Not Specified
23	Chemical Oxygen Demand	mg/l	BDL (<4)	IS:3025:Part-58:2006	Not Specified
24	Coliform	NA	Present	IS 15185 - 2016	Absent /100ml
25	E.coli	NA	Absent	IS 15185 - 2016	Absent /100ml

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TEST REPORT

SAMPLE DETAILS:

SAMPLE SUBMITTED BY CUSTOMER

Page 1 of 1

Report Number	ABCTL/20180421/WW/6136		
Customer Reference	As per TRF		
Sample Description	SW - I	Date of Receipt	21-04-2018
Appearance	Brown Colour with Turbid	Date of Analysis	21-04-2018
Sample Condition	Good	Analysis Completed On	28-04-2018
Type of Container, Quantity	Plastic Bottle- 2 Litre	Report Date	28-04-2018

S. No.	PARAMETER	UNIT	RESULTS	TEST PROCEDURE
1	pH at 25 °C	-	7.19	IS : 3025 Part 11- 1983 (Reaff: 2002)
2	Total Dissolved Solids	mg/l	2990	IS : 3025 Part 15-1984 (Reaff: 2003)
3	Total Suspended Solids	mg/l	193	IS : 3025 Part 17-1984 (Reaff: 2002)
4	Biochemical Oxygen Demand at 27° C for 3 days	mg/l	16	IS:3025:Part-44:1993 (Reaff:2003)
5	Chemical Oxygen Demand	mg/l	100	IS:3025:Part-58:2006
6	Oil & Grease	mg/l	BDL(<4)	IS:3025:Part-39:1991(Reaff:2003)
7	Chloride as Cl ⁻	mg/l	905	IS : 3025 Part 32-1988 (Reaff: 2003)
8	Sulphate as SO ₄	mg/l	642	APHA 22 ND EDI-4500- SO ₄ ²⁻ E

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TEST REPORT

SAMPLE DETAILS:

SAMPLE SUBMITTED BY CUSTOMER

Page 1 of 1

Report Number	ABCTL/20180421/WW/6137		
Customer Reference	As per TRF		
Sample Description	SW - II	Date of Receipt	21-04-2018
Appearance	Brown Colour with Turbid	Date of Analysis	21-04-2018
Sample Condition	Good	Analysis Completed On	28-04-2018
Type of Container, Quantity	Plastic Bottle- 2 Litre	Report Date	28-04-2018

S. No.	PARAMETER	UNIT	RESULTS	TEST PROCEDURE
1	pH at 25 °C	-	6.92	IS : 3025 Part 11- 1983 (Reaff: 2002)
2	Total Dissolved Solids	mg/l	5898	IS : 3025 Part 15-1984 (Reaff: 2003)
3	Total Suspended Solids	mg/l	75	IS : 3025 Part 17-1984 (Reaff: 2002)
4	Biochemical Oxygen Demand at 27° C for 3 days	mg/l	12	IS:3025:Part-44:1993 (Reaff:2003)
5	Chemical Oxygen Demand	mg/l	71	IS:3025:Part-58:2006
6	Oil & Grease	mg/l	BDL(<4)	IS:3025:Part-39:1991(Reaff:2003)
7	Chloride as Cl ⁻	mg/l	607	IS : 3025 Part 32-1988 (Reaff: 2003)
8	Sulphate as SO ₄	mg/l	3184	APHA 22 ND EDI-4500- SO ₄ ²⁻ E

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TEST REPORT

SAMPLE DETAILS:

SAMPLE SUBMITTED BY CUSTOMER

Page 1 of 2

Report Number	ABCTL/20180421/WW/6138		
Customer Reference	As per TRF		
Sample Description	Industrial Waste	Date of Receipt	21-04-2018
Appearance	SW-III	Date of Analysis	21-04-2018
Sample Condition	Good	Analysis Completed On	28-04-2018
Type Of Container, Quantity	Plastic Bottle - 2 Lits	Report Date	28-04-2018

S. No.	PARAMETER	UNIT	RESULTS	TEST PROCEDURE
1	Colour	Pt-Co	Nil	APHA 22 nd Edition
2	Odour	-	Acid Odour Observed	APHA 22 nd Edition
3	Temperature	°C	25.0	APHA 22 nd Edition
4	pH at 25 °C	-	1.75	IS : 3025 Part 11- 1983 (Reaff:2002)
5	Total dissolved solids	mg/l	170865	IS : 3025 Part 15-1984 (Reaff: 2003)
6	Total suspended solids	mg/l	6332	IS : 3025 Part 17-1984 (Reaff: 2002)
7	Particle Size of Suspended Solids	-	Not Passes the Test	Pass 850 micron I.S. Sieve
8	Chloride as Cl ⁻	mg/l	978	IS : 3025 Part 32-1988 (Reaff: 2003)
9	Sulphate as SO ₄	mg/l	105311	APHA 22 nd EDN-4500- SO ₄ ²⁻ E
10	Biochemical Oxygen Demand at 27°C for 3 days	mg/l	910	IS:3025:Part-44:1993 (Reaff:2003)
11	Chemical Oxygen Demand	mg/l	3483	IS:3025:Part-58:2006
12	Oil & Grease	mg/l	BDL(<4)	IS:3025:Part39:1991 (Reaff:2003)
13	Dissolved Phosphate as P	mg/l	186	IS : 3025 Part 31-1988 (Reaff:2002)
14	Flouride as F	mg/l	189	APHA 22 nd EDN-4500-F B&D
15	Sulphide as S ²⁻	mg/l	BDL (<1)	APHA 22 nd EDN-4500- S ²⁻
16	Copper as Cu	mg/l	4.05	IS:3025 Part 42 (Reaff:2003)

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TEST REPORT

REPORT NUMBER : ABCTL/20180421/WW/6138
SAMPLE DESCRIPTION : SW-III
REPORT DATE : 28-04-2018

Page 2 of 2

S. No.	PARAMETER	UNIT	RESULTS	TEST PROCEDURE
17	Boron as B	mg/l	20.11	IS:13428-2005 (Annex- H)
18	Phenolic Compound as C ₆ H ₅ OH	mg/l	BDL (<0.01)	APHA 22 nd EDN 5530 B,C,D
19	Cadmium as Cd	mg/l	0.24	APHA 22 nd EDN-3111 B
20	Zinc as Zn	mg/l	28.35	IS:3025 Pt:49 (Reaff:2003)
21	Nickel as Ni	mg/l	8.30	APHA 22 nd EDN-3111 B
22	Cyanide as CN	mg/l	BDL (<0.05)	APHA 22 nd EDN-4500-CN E
23	Total Chromium as Cr	mg/l	38.5	APHA 22 nd EDN 3111 B
24	Hexavalent Chromium as Cr ⁶⁺	mg/l	BDL (<0.03)	APHA 22 nd EDN-3500-Cr B
25	Lead as Pb	mg/l	3.36	IS:3025 Part 47 (Reaff:2003)
26	Selenium as Se	mg/l	BDL(<0.01)	APHA 22 nd EDN 3114 B&C
27	Arsenic as As	mg/l	0.12	IS:3025 Part 37 (Reaf:2003)
28	Mercury as Hg	mg/l	BDL (<0.001)	IS:3025 Part 48 (Reaff:2003)
29	Total Residual Chlorine as Cl ₂	mg/l	BDL (<0.1)	APHA 22 nd EDN-4500-Cl B
30	Free Ammonia as NH ₃	mg/l	11.09	APHA 22 nd EDN-4500- NH ₃ B&C
31	Ammonical Nitrogen as N	mg/l	19.4	APHA 22 nd EDN-4500-NH ₃ B&C
32	Total Kjeldahl Nitrogen as N	mg/l	85	APHA 22 nd EDN, 4500- Norg
33	Percent Sodium	-	49	By Calculation Method
34	Residual Sodium Carbonate	meq/l	Nil	By Calculation Method

BDL- Below Detection Limit

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TEST REPORT

SAMPLE DETAILS:

SAMPLE SUBMITTED BY CUSTOMER

Page 1 of 2

Report Number	ABCTL/20180502/W/6311		
Customer Reference	As per TRF		
Sample Description	SW - IV	Date of Receipt	02-05-2018
Appearance	-	Date of Analysis	21-05-2018
Sample Condition	Good	Analysis Completed On	11-05-2018
Type of Container, Quantity	Plastic Bottle- 2 Litre	Report Date	15-05-2018

S.No.	PARAMETER	UNIT	RESULTS	TEST PROCEDURE
1	Colour	Hazen	20	APHA 22 nd EDITION
2	Appearance	-	Turbid	Visual
3	Odour	-	Odour Observed	APHA 22 nd EDITION
4	Turbidity	NTU	90	IS : 3025 Part 10-1984 (Reaff: 2002)
5	pH at 25 °C	-	7.76	IS : 3025 Part 11- 1983 (Reaff: 2002)
6	Conductivity at 25 °C	µS/cm	461	IS : 3025 Part 14- 1984 (Reaff: 2013)
7	Total dissolved solids	mg/l	262	IS : 3025 Part 16-1984 (Reaff: 2003)
8	Total Suspended Solids	mg/l	26	IS : 3025 Part 17-1984 (Reaff: 2002)
9	Total Alkalinity as CaCO ₃	mg/l	88	IS : 3025 Part 23- 1986(Reaff:2003)
10	P- Alkalinity as CaCO ₃	mg/l	Nil	IS : 3025 Part 23- 1986(Reaff:2003)
11	Total Hardness as CaCO ₃	mg/l	118	IS : 3025 Part 21-2009
12	Calcium as Ca	mg/l	29	IS : 3025 Part 40-1991 (Reaff:2003)
13	Magnesium as Mg	mg/l	11	APHA 22 nd EDN-3500 Mg B
14	Chloride as Cl ⁻	mg/l	32	IS : 3025 Part 32-1988 (Reaff: 2003)
15	Sulphate as SO ₄	mg/l	87	APHA 22 nd EDN-4500- SO ₄ ²⁻ E
16	Nitrate as NO ₃	mg/l	1	APHA 22 nd EDN -4500- NO ₃ ⁻ B
17	Iron as Fe	mg/l	BDL (<0.05)	IS : 3025 Part 53-2003

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TEST REPORT

Report Number : ABCTL/20180421/W/6311
Sample Description : SW - IV
Report Date : 15-05-2018

Page 2 of 2

S.NO.	PARAMETER	UNIT	RESULTS	TEST PROCEDURE
18	Manganese as Mn	mg/l	0.1	APHA 22 nd EDN -3500-Mn D
19	Copper as Cu	mg/l	0.027	APHA 22 nd EDN -3111 B
20	Fluoride as F	mg/l	1.32	APHA 22 nd EDN -4500-F B&D
21	Residual Chlorine	mg/l	BDL (<0.1)	APHA 22 nd EDN -4500-Cl B
22	Ammonia as N-NH ₃	mg/l	BDL(<0.05)	APHA 22 nd EDI-4500- NH ₃ B&C
23	Biochemical Oxygen Demand at 27° C for 3days	mg/l	4.2	IS:3025:Part-44:1993 (Reaff:2003)
24	Chemical Oxygen Demand	mg/l	20	IS:3025:Part-58:2006
25	Coliform	NA	Present	IS 1622 - 1981 RA - 2016
26	E.coli	NA	Absent	IS 15185 - 2016

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TEST REPORT

SAMPLE DETAILS:

SAMPLE SUBMITTED BY CUSTOMER

Page 1 of 2

Report Number	ABCTL/20180502/W/6312		
Customer Reference	As per TRF		
Sample Description	SW - V	Date of Receipt	02-05-2018
Appearance	Yellow Colour with Turbid	Date of Analysis	02-05-2018
Sample Condition	Good	Analysis Completed On	09-05-2018
Type of Container, Quantity	Plastic Bottle- 2 Litre	Report Date	15-05-2018

S.No.	PARAMETER	UNIT	RESULTS	TEST PROCEDURE
1	Colour	Hazen	200	APHA 22 nd EDITION
2	Appearance	-	Yellowish	Visual
3	Odour	-	Odour Observed	APHA 22 nd EDITION
4	Turbidity	NTU	25.6	IS : 3025 Part 10-1984 (Reaff: 2002)
5	pH at 25 °C	-	7.37	IS : 3025 Part 11- 1983 (Reaff: 2002)
6	Conductivity at 25 °C	µS/cm	98350	IS : 3025 Part 14- 1984 (Reaff: 2013)
7	Total dissolved solids	mg/l	49934	IS : 3025 Part 16-1984 (Reaff: 2003)
8	Total Alkalinity as CaCO ₃	mg/l	340	IS : 3025 Part 23- 1986(Reaff:2003)
9	P- Alkalinity as CaCO ₃	mg/l	Nil	IS : 3025 Part 23- 1986(Reaff:2003)
10	Total Hardness as CaCO ₃	mg/l	3600	IS : 3025 Part 21-2009
11	Calcium as Ca	mg/l	1440	IS : 3025 Part 40-1991 (Reaff:2003)
12	Magnesium as Mg	mg/l	1008	APHA 22 nd EDN-3500 Mg B
13	Chloride as Cl ⁻	mg/l	26841	IS : 3025 Part 32-1988 (Reaff: 2003)
14	Sulphate as SO ₄	mg/l	4807	APHA 22 nd EDN-4500- SO ₄ ²⁻ E
15	Nitrate as NO ₃	mg/l	675	APHA 22 nd EDN -4500- NO ₃ ⁻ B
16	Iron as Fe	mg/l	2.6	IS : 3025 Part 53-2003
17	Manganese as Mn	mg/l	1	APHA 22 nd EDN -3500-Mn D

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TEST REPORT

Report Number : ABCTL/20180502/W/6312
Sample Description : SW - V
Report Date : 15-05-2018

Page 2 of 2

S.NO.	PARAMETER	UNIT	RESULTS	TEST PROCEDURE
18	Copper as Cu	mg/l	0.02	APHA 22 nd EDN -3111 B
19	Fluoride as F	mg/l	7.94	APHA 22 nd EDN -4500-F B&D
20	Residual Chlorine	mg/l	BDL (<0.1)	APHA 22 nd EDN -4500-Cl B
21	Ammonia as N-NH ₃	mg/l	121	APHA 22 nd EDI-4500- NH ₃ B&C
22	Biochemical Oxygen Demand at 27° C for 3days	mg/l	340	IS:3025:Part-44:1993 (Reaff:2003)
23	Chemical Oxygen Demand	mg/l	1378	IS:3025:Part-58:2006
24	Coliform	NA	Absent	IS 1622 - 1981 RA - 2016
25	E.coli	NA	Absent	IS 15185 - 2016

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TEST REPORT

SAMPLE DETAILS:

SAMPLE SUBMITTED BY CUSTOMER

Page 1 of 2

Report Number	ABCTL/20180502/W/6313		
Customer Reference	As per TRF		
Sample Description	SW - VI	Date of Receipt	02-05-2018
Appearance	-	Date of Analysis	02-05-2018
Sample Condition	Good	Analysis Completed On	09-05-2018
Type of Container, Quantity	Plastic Bottle- 2 Litre	Report Date	15-05-2018

S.No.	PARAMETER	UNIT	RESULTS	TEST PROCEDURE
1	Colour	Hazen	40	APHA 22 nd EDITION
2	Appearance	-	Turbid	Visual
3	Odour	-	Odour Observed	APHA 22 nd EDITION
4	Turbidity	NTU	37	IS : 3025 Part 10-1984 (Reaff: 2002)
5	pH at 25 °C	-	7.59	IS : 3025 Part 11- 1983 (Reaff: 2002)
6	Conductivity at 25 °C	µS/cm	2732	IS : 3025 Part 14- 1984 (Reaff: 2013)
7	Total dissolved solids	mg/l	1620	IS : 3025 Part 16-1984 (Reaff: 2003)
8	Total Alkalinity as CaCO ₃	mg/l	150	IS : 3025 Part 23- 1986(Reaff:2003)
9	P- Alkalinity as CaCO ₃	mg/l	Nil	IS : 3025 Part 23- 1986(Reaff:2003)
10	Total Hardness as CaCO ₃	mg/l	700	IS : 3025 Part 21-2009
11	Calcium as Ca	mg/l	218	IS : 3025 Part 40-1991 (Reaff:2003)
12	Magnesium as Mg	mg/l	38	APHA 22 nd EDN-3500 Mg B
13	Chloride as Cl ⁻	mg/l	564	IS : 3025 Part 32-1988 (Reaff: 2003)
14	Sulphate as SO ₄	mg/l	221	APHA 22 nd EDN-4500- SO ₄ ²⁻ E
15	Nitrate as NO ₃	mg/l	68	APHA 22 nd EDN -4500- NO ₃ ⁻ B
16	Iron as Fe	mg/l	1.2	IS : 3025 Part 53-2003
17	Manganese as Mn	mg/l	BDL (<0.02)	APHA 22 nd EDN -3500-Mn D

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M/s. LEMS Academy Pvt. Ltd.,
LMES Foundation,
Survey No.113/1, Door No.3, Block B1,
200 ft Radial Road, Zamin Pallavaram,
Chennai - 600 117.

(An ISO : 9001, ISO : 14001, OHSAS : 18001 & ISO : 22000 Certified Company)

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TEST REPORT

Report Number : ABCTL/20180502/W/6313
Sample Description : SW - VI
Report Date : 15-05-2018

Page 2 of 2

S.NO.	PARAMETER	UNIT	RESULTS	TEST PROCEDURE
18	Copper as Cu	mg/l	BDL (<0.03)	APHA 22 nd EDN -3111 B
19	Fluoride as F	mg/l	0.63	APHA 22 nd EDN -4500-F B&D
20	Residual Chlorine	mg/l	BDL (<0.1)	APHA 22 nd EDN -4500-CI B
21	Ammonia as N-NH ₃	mg/l	43	APHA 22 nd EDI-4500- NH ₃ B&C
22	Biochemical Oxygen Demand at 27° C for 3days	mg/l	9.1	IS:3025:Part-44:1993 (Reaff:2003)
23	Chemical Oxygen Demand	mg/l	65	IS:3025:Part-58:2006
24	Coliform	NA	Present	IS 1622 - 1981 RA - 2016
25	E.coli	NA	Present	IS 15185 - 2016

.....END OF REPORT.....

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TEST REPORT

SAMPLE DETAILS:

Page 1 of 1

Report Number	ABCTL/20180502/W/6314		
Customer Reference	As per TRF		
Sample Description	S - I	Date of Receipt	02-05-2018
Appearance	Brown Solid	Date of Analysis	02-05-2018
Sample Condition	Good	Analysis Completed On	09-05-2018
Type of Container, Quantity	Plastic Bag - 1 kg	Report Date	15-05-2018

S. No.	PARAMETER	UNIT	RESULTS	TEST PROCEDURE
1	Potassium as K	mg/kg	5344	EPA 3050 B
2	Sodium as Na	mg/kg	5120	EPA3050 B
3	Calcium as Ca	mg/kg	3751	EPA3050 B
4	Magnesium as Mg	mg/kg	6685	EPA3050 B
5	Iron as Fe	mg/kg	26722	EPA3050 B
6	Lead as Pb	mg/kg	991	EPA3050 B
7	Zinc as Zn	mg/kg	5150	EPA3050 B
8	Cadmium as Cd	mg/kg	7.5	EPA3050 B
9	Copper as Cu	mg/kg	4023	EPA3050 B
10	Manganese as Mn	mg/kg	85	EPA3050 B
11	Chromium as Cr	mg/kg	16	EPA3050 B
12	Nickel as Ni	mg/kg	25	EPA3050 B
13	Mercury as Hg	mg/kg	BDL(<0.1)	EPA 7471A
14	Arsenic as As	mg/kg	BDL(<2)	EPA3050 B
15	Tin as Sn	mg/kg	66	EPA3050 B
16	Titanium as Ti	mg/kg	852	EPA3050 B
17	Molybdenum as Mo	mg/kg	1195	EPA3050 B
18	Aluminum as Al	mg/kg	10134	EPA3050 B

BDL-Below Detection Limit, Note: Results are on dry weight basis.

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