

Environ Tech Laboratories

NABL Accredited (ISO/IEC 17025:2017)/ MoEF & CC Recognized
PCPB Approved/ OHSAS 45001:2018

Plot No.62, Janta Industrial Estate,
Airport Road, Sector 82, S.A.S. Nagar
(Mohali)-160062 Punjab
Mob. 9417210081, 9417220081
9464000081, Tel. 9463000081

GSTIN : 03BPEPS9693P1ZV
PAN No. BPEPS9693P

Dispatch No: ETL/DSP/2019/191632

Page 1 of 2
Date: 20/12/2019

TEST REPORT

To
M/s Kuantum Papers Ltd.,
Saila Khurd, Distt Hoshiarpur Punjab

Report No.	ETL/44/2019-20/G/192005AD	Report Date	20.12.2019
Your Ref. No.	NIL	Type of sample	Borewell Water
Sample Code Given by Customer	NIL	Quantity	10 Liter
Sampling Location	Colony	Date of sampling	13.12.2019
Sample Collected By	Lab Person	Date of sample receipt	16.12.2019
Sampling procedure	As per SOP	Sample I.D.	ETL/32/2019-20/G/2005AD
		Date of test	16.12.2019 – 20.12.2019

S. No.	Parameters	Results	Limits of IS: 10500 – 2012		Test method
			Requirement (Acceptable Limit)	Permissible limit in absence of alternate source	
1	pH	7.6	6.5 – 8.5	No relaxation	APHA 23 rd Edition:2017 -4500-H ⁺ B
2	Total Dissolved Solids mg/l Max	348	500	2000	APHA 23 rd Edition:2017 -2540 C
3	Alkalinity (as CaCO ₃) mg/l ,Max	194	200	600	APHA 23 rd Edition:2017-2320 B
4	Chloride (as Cl ₂) mg/l, Max	34	250	1000	APHA 23 rd Edition:2017 -4500-Cl B
5	Sulphate (as SO ₄) mg/l, Max	7.5	200	400	APHA 23 rd Edition 2017-4500 SO ₄ E
6	Calcium (as Ca) mg/l Max	70	75	200	APHA 23 rd Edition:2017 -3500-Ca B
7	Magnesium (as Mg) mg/l, Max	2.5	30	100	APHA 23 rd Edition:2017 -3500-Mg B
8	Total Hardness(as CaCO ₃) mg/l, Max	185	200	600	APHA 23 rd Edition:2017 -2340 C
9	Sodium (as Na) mg/l Max	26	-	-	APHA 23 rd Edition 2017-3500 Na B
10	Potassium (as K) mg/l Max	4.5	-	-	APHA 23 rd Edition 2017-3500 K B
11	Nitrate (as NO ₃) mg/l, Max	4.5	45	No relaxation	APHA 23 rd Edition:2017 -4500-NO ₃ B
12	Fluoride (as F) mg/l Max	0.16	1.0	1.5	APHA 23 rd Edition:2017 -4500-F D
13	Colour, Hazen unit, max	<1	5	25	APHA 23 rd Edition:2017-2120B
14	Odour	Agreeable	Agreeable	-----	APHA 23 rd Edition:2017-2150
15	Turbidity, NTU max	<1	5	10	APHA 23 rd Edition 2017 2130 B
16	Taste	Agreeable	Agreeable	-----	APHA 23 rd Edition:2012-2160
17	Iron (as Fe) mg/l Max	0.12	0.3	No relaxation	APHA 23 rd Edition 2017-3500 Fe B
18	Boron (as B) mg/l Max	ND	0.5	1.0	APHA 23 rd Edition 2017-4500 B B
19	Manganese (as Mn) mg/l Max	ND	0.1	0.3	APHA 23 rd Edition 2017-3111 B
20	Zinc (as Zn) mg/l Max	0.003	5	15	APHA 23 rd Edition 2017-3111 B
21	Copper (as Cu) mg/l Max	ND	0.05	1.5	APHA 23 rd Edition 2017-3111 B
22	Cadmium (as Cd) mg/l Max	ND	0.003	No relaxation	APHA 23 rd Edition 2017-3111 B
23	Lead (as Pb) mg/l Max	0.006	0.01	No relaxation	APHA 23 rd Edition 2017-3111 B
24	Aluminium (as Al) mg/l Max	ND	0.03	0.2	IS: 3025 (Part 31) : 1964 3500 AlB
25	Selenium (as Se) mg/l Max	ND	0.01	No relaxation	APHA 23 rd Edition 2017-3114 B
26	Mercury (as Hg) mg/l Max	ND	0.001	No relaxation	APHA 23 rd Edition 2017-3112 B
27	Arsenic (as As) mg/l	0.005	0.01	0.05	APHA 23 rd Edition 2017-3114 B
28	Chromium (as Cr) mg/l Max	ND	0.05	No relaxation	APHA 23 rd Edition 2017-3111 B
29	Cyanide (as CN) mg/l Max	ND	0.05	No relaxation	IS: 3025(Part -27)2009 / APHA 23 rd Edition 2017
30	Phenolic Compound (as C ₆ H ₅ OH) mg/l Max	ND	0.001	0.002	IS: 3025(Part -43)2009 / APHA 23 rd Edition 2017

Testing of Water, Waste Water, Soil, Food, Ambient Air, Noise Monitoring & Stack Emission

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GSTIN : 03BPEPS9693P1ZV
PAN No. BPEPS9693P

Page 2 of 2

Report No.	ETL/44/2019-20/G/192005AD	Sample I.D.	ETL/32/2019-20/G/2005AD
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31	Ammonia (as total ammonia-N), mg/l, Max	ND	0.5	No relaxation	IS 3025 (Part 34) 2012-4500 C
32	Nickel (as Ni) mg/L, Max	0.007	0.02	No relaxation	APHA 23 rd Edition:2017-3111B
33	Barium (as Ba), mg/l, Max	ND	0.7	No relaxation	Annex F of IS 13428
34	Chloramines (as Cl ₂), mg/l, Max	ND	04	No relaxation	IS 3025 (Part 26)
35	Mineral oil, mg/l, Max	ND	0.5	No relaxation	Clause 6 of IS 3025, (Part 39) Infrared
36	Molybdenum (as Mo), mg/l, Max	ND	0.007	No relaxation	IS 3025 (Part 2)
37	Residual free chlorine, mg/l Min	ND	0.2	1.0	APHA 23 rd Edition 2017-4500 Cl. B
38	Sulphide (as H ₂ S), mg/l, Max	ND	0.05	No relaxation	APHA 23 rd Edition 2017-4500 S ² D
39	Bromoform, mg/l, Max	ND	0.1	No relaxation	APHA 6232
40	Dibromochloromethane, mg/l, Max	ND	0.1	No relaxation	APHA 6232
41	Bromodichloromethane, mg/l, Max	ND	0.06	No relaxation	APHA 6232
42	Chloroform, mg/l, Max	ND	0.2	No relaxation	APHA 6232

PESTICIDE RESIDUE

S. NO	PARAMETERS	Results	Limit (µg/l)	Test method
1	Alachlor	ND	20	USEPA: 525.2,507
2	Atrazine	ND	2	USEPA:525.2, 8141 A
3	Aldrin/ Dieldrin	ND	0.03	USEPA:508
4	Alpha HCH	ND	0.01	USEPA:508
5	Beta HCH	ND	0.04	USEPA:508
6	Butachlor	ND	125	USEPA:525.2, 8141 A
7	Chlorpyrifos	ND	30	USEPA: 525.2, 8141 A
8	Delta HCH	ND	0.04	USEPA:508
9	2,4- Dichlorophenoxyacetic acid	ND	30	USEPA:515.1
10	DDT(o, p and p, p-Isomers of DDT,DDE and DDD)	ND	1	USEPA:508
11	Endosulfan (Alpha, Beta, and sulphate)	ND	0.4	USEPA:508
12	Ethion	ND	3	USEPA:1657 A
13	Gamma-HCH (Lindane)	ND	2	USEPA:508
14	Isoproturon	ND	9	USEPA:532
15	Malathion	ND	190	USEPA:8141 A
16	Methyl parathion	ND	0.3	USEPA:8141 A
17	Monocrotophos	ND	1	USEPA: 8141 A
18	Pharate	ND	2	USEPA: 8141 A

Bacteriological examination:-

S. NO.	PARAMETERS	TEST RESULTS	LIMITS	TEST METHOD
1	E.coli/100ml	ABSENT	ABSENT	IS 15185 2016
2	Coliform /100ml	ABSENT	ABSENT	IS 15185 2016

Note: ND Denotes Not Detectable

- The test report refers only to tested sample and applicable parameters.
- This report can neither be used as evidence in the court of law nor can it be used in part or full in any media without prior permission.
- The sample will be destroyed after thirty days from the date of issue of test report unless otherwise specified.

Checked By

End of Report

Rameshwar Kumar
(Authorized Signatory)
RAMESHWAR KUMAR
Technical Manager
Environ Tech Laboratories

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PAN No. BPEPS9693P1 of 2
Date: 20/12/2019

TEST REPORT

To
M/s Kuantum Papers Ltd.,
Saila Khurd, Distt Hoshiarpur Punjab

Report No.	ETL/44/2019-20/G/192005AC	Report Date	20.12.2019
Your Ref. No.	NIL	Type of sample	Borewell Water
Sample Code Given by Customer	NIL	Quantity	10 Liter
Sampling Location	Reservoir Tank	Date of sampling	13.12.2019
Sample Collected By	Lab Person	Date of sample receipt	16.12.2019
Sampling procedure	As per SOP	Sample I.D.	ETL/32/2019-20/G/2005AC
		Date of test	16.12.2019 – 20.12.2019

S. No.	Parameters	Results	Limits of IS: 10500 – 2012		Test method
			Requirement (Acceptable Limit)	Permissible limit in absence of alternate source	
1	pH	7.9	6.5 – 8.5	No relaxation	APHA 23 rd Edition:2017 -4500-H* B
2	Total Dissolved Solids mg/l Max	360	500	2000	APHA 23 rd Edition:2017 -2540 C
3	Alkalinity (as CaCO ₃) mg/l ,Max	182	200	600	APHA 23 rd Edition:2017-2320 B
4	Chloride (as Cl), mg/l, Max	34	250	1000	APHA 23 rd Edition:2017 -4500-Cl B
5	Sulphate (as SO ₄) mg/l, Max	07	200	400	APHA 23 rd Edition 2017-4500 SO ₄ E
6	Calcium (as Ca) mg/l Max	66	75	200	APHA 23 rd Edition:2017 -3500-Ca B
7	Magnesium (as Mg) mg/l, Max	6.6	30	100	APHA 23 rd Edition:2017 -3500-Mg B
8	Total Hardness(as CaCO ₃) mg/l, Max	192	200	600	APHA 23 rd Edition:2017 -2340 C
9	Sodium (as Na) mg/l Max	22	-	-	APHA 23 rd Edition 2017-3500 Na B
10	Potassium (as K) mg/l Max	4.1	-	-	APHA 23 rd Edition 2017-3500 K B
11	Nitrate (as NO ₃) mg/l, Max	2.0	45	No relaxation	APHA 23 rd Edition:2017 -4500-NO ₃ B
12	Fluoride (as F) mg/l Max	0.18	1.0	1.5	APHA 23 rd Edition:2017 -4500-F D
13	Colour, Hazen unit, max	<1	5	25	APHA 23 rd Edition:2017-2120B
14	Odour	Agreeable	Agreeable	----	APHA 23 rd Edition:2017-2150
15	Turbidity, NTU max	<1	5	10	APHA 23 rd Edition 2017 2130 B
16	Taste	Agreeable	Agreeable	----	APHA 23 rd Edition:2012-2160
17	Iron (as Fe) mg/l Max	0.12	0.3	No relaxation	APHA 23 rd Edition 2017-3500 Fe B
18	Boron (as B) mg/l Max	ND	0.5	1.0	APHA 23 rd Edition 2017-4500 B B
19	Manganese (as Mn) mg/l Max	ND	0.1	0.3	APHA 23 rd Edition 2017-3111 B
20	Zinc (as Zn) mg/l Max	0.002	5	15	APHA 23 rd Edition 2017-3111 B
21	Copper (as Cu) mg/l Max	ND	0.05	1.5	APHA 23 rd Edition 2017-3111 B
22	Cadmium (as Cd) mg/l Max	ND	0.003	No relaxation	APHA 23 rd Edition 2017-3111 B
23	Lead (as Pb) mg/l Max	0.007	0.01	No relaxation	APHA 23 rd Edition 2017-3111 B
24	Aluminium (as Al) mg/l Max	ND	0.03	0.2	IS: 3025 (Part 31) : 1964 3500 Al.B
25	Selenium (as Se) mg/l Max	ND	0.01	No relaxation	APHA 23 rd Edition 2017-3114 B
26	Mercury (as Hg) mg/l Max	ND	0.001	No relaxation	APHA 23 rd Edition 2017-3112 B
27	Arsenic (as As) mg/l	0.006	0.01	0.05	APHA 23 rd Edition 2017-3114 B
28	Chromium (as Cr) mg/l Max	ND	0.05	No relaxation	APHA 23 rd Edition 2017-3111 B
29	Cyanide (as CN) mg/l Max	ND	0.05	No relaxation	IS: 3025(Part -27)2009 / APHA 23 rd Edition 2017
30	Phenolic Compound (as C ₆ H ₅ OH) mg/l Max	ND	0.001	0.002	IS: 3025(Part -43)2009 / APHA 23 rd Edition 2017

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Report No.	ETL/44/2019-20/G/192005AC	Sample I.D.	ETL/32/2019-20/G/2005AC
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31	Ammonia (as total ammonia-N), mg/l, Max	ND	0.5	No relaxation	IS 3025 (Part 34) 2012-4500 C
32	Nickel (as Ni) mg/L, Max	0.008	0.02	No relaxation	APHA 23 rd Edition:2017-3111B
33	Barium (as Ba), mg/l, Max	ND	0.7	No relaxation	Annex F of IS 13428
34	Chloramines (as Cl2), mg/l, Max	ND	04	No relaxation	IS 3025 (Part 26)
35	Mineral oil, mg/l, Max	ND	0.5	No relaxation	Clause 6 of IS 3025, (Part 39) Infrared
36	Molybdenum (as Mo), mg/l, Max	ND	0.007	No relaxation	IS 3025 (Part 2)
37	Residual free chlorine, mg/l Min	ND	0.2	1.0	APHA 23 rd Edition 2017-4500 Cl. B
38	Sulphide (as H2S), mg/l, Max	ND	0.05	No relaxation	APHA 23 rd Edition 2017-4500 S ² D
39	Bromoform, mg/l, Max	ND	0.1	No relaxation	APHA 6232
40	Dibromochloromethane, mg/l, Max	ND	0.1	No relaxation	APHA 6232
41	Bromodichloromethane, mg/l, Max	ND	0.06	No relaxation	APHA 6232
42	Chloroform, mg/l, Max	ND	0.2	No relaxation	APHA 6232

PESTICIDE RESIDUE

S. NO	PARAMETERS	Results	Limit (µg/l)	Test method
1	Alachlor	ND	20	USEPA: 525.2,507
2	Atrazine	ND	2	USEPA:525.2, 8141 A
3	Aldrin/ Dieldrin	ND	0.03	USEPA:508
4	Alpha HCH	ND	0.01	USEPA:508
5	Beta HCH	ND	0.04	USEPA:508
6	Butachlor	ND	125	USEPA:525.2, 8141 A
7	Chlorpyrifos	ND	30	USEPA: 525.2, 8141 A
8	Delta HCH	ND	0.04	USEPA:508
9	2,4- Dichlorophenoxyacetic acid	ND	30	USEPA:515.1
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11	Endosulfan (Alpha, Beta, and sulphate)	ND	0.4	USEPA:508
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16	Methyl parathion	ND	0.3	USEPA:8141 A
17	Monocrotophos	ND	1	USEPA: 8141 A
18	Pharate	ND	2	USEPA: 8141 A

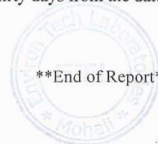
Bacteriological examination:-

S. NO.	PARAMETERS	TEST RESULTS	LIMITS	TEST METHOD
1	E.coli/100ml	ABSENT	ABSENT	IS 15185 2016
2	Coliform /100ml	ABSENT	ABSENT	IS 15185 2016

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Checked By



End of Report

Rameshwar Kumar
(Authorized Signatory)

RAMESHWAR KUMAR
Technical Manager
Environ Tech Laboratories

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Date: 20/12/2019

TEST REPORT

To
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Saila Khurd, Distt Hoshiarpur Punjab

Report No.	ETL/44/2019-20/G/192005AE	Report Date	20.12.2019
Your Ref. No.	NIL	Type of sample	Borewell Water
Sample Code Given by Customer	NIL	Quantity	10 Liter
		Date of sampling	13.12.2019
Sampling Location	Canteen	Date of sample receipt	16.12.2019
Sample Collected By	Lab Person	Sample I.D.	ETL/32/2019-20/G/2005AE
Sampling procedure	As per SOP	Date of test	16.12.2019 – 20.12.2019

S. No.	Parameters	Results	Limits of IS: 10500 – 2012		Test method
			Requirement (Acceptable Limit)	Permissible limit in absence of alternate source	
1	pH	7.6	6.5 – 8.5	No relaxation	APHA 23 rd Edition:2017 -4500-H ⁺ B
2	Total Dissolved Solids mg/l Max	372	500	2000	APHA 23 rd Edition:2017 -2540 C
3	Alkalinity (as CaCO ₃) mg/l ,Max	198	200	600	APHA 23 rd Edition:2017-2320 B
4	Chloride (as Cl) mg/l, Max	44	250	1000	APHA 23 rd Edition:2017 -4500-Cl B
5	Sulphate (as SO ₄) mg/l, Max	7.5	200	400	APHA 23 rd Edition 2017-4500 SO ₄ E
6	Calcium (as Ca) mg/l Max	72	75	200	APHA 23 rd Edition:2017 -3500-Ca B
7	Magnesium (as Mg) mg/l, Max	4.9	30	100	APHA 23 rd Edition:2017 -3500-Mg B
8	Total Hardness(as CaCO ₃) mg/l, Max	200	200	600	APHA 23 rd Edition:2017 -2340 C
9	Sodium (as Na) mg/l Max	30	-	-	APHA 23 rd Edition 2017-3500 Na B
10	Potassium (as K) mg/l Max	3.8	-	-	APHA 23 rd Edition 2017-3500 K B
11	Nitrate (as NO ₃) mg/l, Max	4.8	45	No relaxation	APHA 23 rd Edition:2017 -4500-NO ₃ B
12	Fluoride (as F) mg/l Max	0.18	1.0	1.5	APHA 23 rd Edition:2017 -4500-F D
13	Colour, Hazen unit, max	<1	5	25	APHA 23 rd Edition:2017-2120B
14	Odour	Agreeable	Agreeable	-----	APHA 23 rd Edition:2017-2150
15	Turbidity, NTU max	<1	5	10	APHA 23 rd Edition 2017 2130 B
16	Taste	Agreeable	Agreeable	-----	APHA 23 rd Edition:2012-2160
17	Iron (as Fe) mg/l Max	0.12	0.3	No relaxation	APHA 23 rd Edition 2017-3500 Fe B
18	Boron (as B) mg/l Max	ND	0.5	1.0	APHA 23 rd Edition 2017-4500 B B
19	Manganese (as Mn) mg/l Max	ND	0.1	0.3	APHA 23 rd Edition 2017-3111 B
20	Zinc (as Zn) mg/l Max	0.003	5	15	APHA 23 rd Edition 2017-3111 B
21	Copper (as Cu) mg/l Max	ND	0.05	1.5	APHA 23 rd Edition 2017-3111 B
22	Cadmium (as Cd) mg/l Max	ND	0.003	No relaxation	APHA 23 rd Edition 2017-3111 B
23	Lead (as Pb) mg/l Max	0.006	0.01	No relaxation	APHA 23 rd Edition 2017-3111 B
24	Aluminium (as Al) mg/l Max	ND	0.03	0.2	IS: 3025 (Part 31) : 1964 3500 Al.B
25	Selenium (as Se) mg/l Max	ND	0.01	No relaxation	APHA 23 rd Edition 2017-3114 B
26	Mercury (as Hg) mg/l Max	ND	0.001	No relaxation	APHA 23 rd Edition 2017-3112 B
27	Arsenic (as As) mg/l	0.005	0.01	0.05	APHA 23 rd Edition 2017-3114 B
28	Chromium (as Cr) mg/l Max	ND	0.05	No relaxation	APHA 23 rd Edition 2017-3111 B
29	Cyanide (as CN) mg/l Max	ND	0.05	No relaxation	IS: 3025(Part -27)2009 / APHA 23 rd Edition 2017
30	Phenolic Compound (as C ₆ H ₅ OH) mg/l Max	ND	0.001	0.002	IS: 3025(Part -43)2009 / APHA 23 rd Edition 2017

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31	Ammonia (as total ammonia-N), mg/l, Max	ND	0.5	No relaxation	IS 3025 (Part 34) 2012-4500 C
32	Nickel (as Ni) mg/L, Max	0.007	0.02	No relaxation	APHA 23 rd Edition:2017-3111B
33	Barium (as Ba), mg/l, Max	ND	0.7	No relaxation	Annex F of IS 13428
34	Chloramines (as Cl ₂), mg/l, Max	ND	04	No relaxation	IS 3025 (Part 26)
35	Mineral oil, mg/l, Max	ND	0.5	No relaxation	Clause 6 of IS 3025, (Part 39) Infrared
36	Molybdenum (as Mo), mg/l, Max	ND	0.007	No relaxation	IS 3025 (Part 2)
37	Residual free chlorine, mg/l Min	ND	0.2	1.0	APHA 23 rd Edition 2017-4500 Cl. B
38	Sulphide (as H ₂ S), mg/l, Max	ND	0.05	No relaxation	APHA 23 rd Edition 2017-4500 S ² D
39	Bromoform, mg/l, Max	ND	0.1	No relaxation	APHA 6232
40	Dibromochloromethane, mg/l, Max	ND	0.1	No relaxation	APHA 6232
41	Bromodichloromethane, mg/l, Max	ND	0.06	No relaxation	APHA 6232
42	Chloroform, mg/l, Max	ND	0.2	No relaxation	APHA 6232

PESTICIDE RESIDUE

S. NO	PARAMETERS	Results	Limit (µg/l)	Test method
1	Alachlor	ND	20	USEPA: 525.2,507
2	Atrazine	ND	2	USEPA:525.2, 8141 A
3	Aldrin/ Dieldrin	ND	0.03	USEPA:508
4	Alpha HCH	ND	0.01	USEPA:508
5	Beta HCH	ND	0.04	USEPA:508
6	Butachlor	ND	125	USEPA:525.2, 8141 A
7	Chlorpyrifos	ND	30	USEPA: 525.2, 8141 A
8	Delta HCH	ND	0.04	USEPA:508
9	2,4- Dichlorophenoxyacetic acid	ND	30	USEPA:515.1
10	DDT(o, p and p, p-Isomers of DDT,DDE and DDD)	ND	1	USEPA:508
11	Endosulfan (Alpha, Beta, and sulphate)	ND	0.4	USEPA:508
12	Ethion	ND	3	USEPA:1657 A
13	Gamma -HCH (Lindane)	ND	2	USEPA:508
14	Isoproturon	ND	9	USEPA:532
15	Malathion	ND	190	USEPA:8141 A
16	Methyl parathion	ND	0.3	USEPA:8141 A
17	Monocrotophos	ND	1	USEPA: 8141 A
18	Pharate	ND	2	USEPA: 8141 A

Bacteriological examination:-

S. NO.	PARAMETERS	TEST RESULTS	LIMITS	TEST METHOD
1	E.coli/100ml	ABSENT	ABSENT	IS 15185 2016
2	Coliform /100ml	ABSENT	ABSENT	IS 15185 2016

Note: ND Denotes Not Detectable

1. The test report refers only to tested sample and applicable parameters.

2. This report can neither be used as evidence in the court of law nor can it be used in part or full in any media without prior permission.

3. The sample will be destroyed after thirty days from the date of issue of test report unless otherwise specified.

Checked By



End of Report

Rameshwar Kumar
 (Authorized Signatory)
 RAMESHWAR KUMAR
 Technical Manager
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NOT VALID FOR LEGAL PURPOSES