



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name NEWCON CONSULTANTS AND LABORATORIES, 8TH KM STONE, MEERUT ROAD, MORTA, GHAZIABAD, UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5526 Page No. : 1 / 39

Validity 26/07/2019 to 25/07/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
Permanent Facility					
1	BIOLOGICAL- WATER	Distilled / Demineralised Water	Coliform Count	IS 1622 1981 (MPN Method): 2009	02 MPN/100mL to 1600 MPN/100mL
2	BIOLOGICAL- WATER	Distilled / Demineralised Water	E. coli	IS 1622 1981 (MPN Method): 2009	Qualitative(Absent / Present per 100 mL)
3	BIOLOGICAL- WATER	Distilled / Demineralised Water	Standard Plate Count	IS 5402 2002 (Pour Plate Method): 2007	1 cfu/mL to 100000000 cfu/mL
4	BIOLOGICAL- WATER	Distilled / Demineralised Water	Yeast & Mould Count	IS 5403 1999 (Pour Plate Method): 2009	1 cfu/mL to 1000000 cfu/mL
5	BIOLOGICAL- WATER	Drinking Water	Coliform Count	IS 1622 1981 (MPN Method): 2009	02 MPN/100 mL to 1600 MPN/100 mL
6	BIOLOGICAL- WATER	Drinking Water	E.coli	IS 1622 1981 (MPN Method): 2009	Qualitative(Absent/Present per 100 mL)
7	BIOLOGICAL- WATER	Drinking Water	Standard Plate Count	IS 5402 2002 (Pour Plate Method): 2007	01 cfu/mL to 100000000 cfu/mL
8	BIOLOGICAL- WATER	Drinking Water	Yeast & Mould Count	IS 5403 1999 (Pour Plate Method): 2009	1 cfu/mL to 1000000 cfu/mL
9	BIOLOGICAL- WATER	Ground water / Surface Water	Yeast & Mould Count	IS 5403 1999 (Pour Plate Method): 2009	1 cfu/mL to 1000000 cfu/mL
10	BIOLOGICAL- WATER	Ground water / Surface Water	Coliform Count	IS 1622 1981 (MPN Method): 2009	02 MPN/100mL to 1600 MPN/100mL
11	BIOLOGICAL- WATER	Ground water / Surface Water	E. coli	IS 1622 1981 (MPN Method): 2009	Qualitative(Absent / Present per 100 mL)
12	BIOLOGICAL- WATER	Ground water / Surface Water	Standard Plate Count	IS 5402 2002 (Pour Plate Method): 2007	1 cfu/mL to 100000000 cfu/mL
13	BIOLOGICAL- WATER	Package Natural Mineral Water	Yeast & Mould Count	IS 5403 1999 (Pour Plate Method): 2009	1 cfu/mL to 1000000 cfu/mL



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Certificate Number TC-5526 Page No. : 2 / 39

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14	BIOLOGICAL- WATER	Packaged Drinking Water	Coliform Count	IS 1622 1981 (MPN Method): 2009	02 MPN/100mL to 1600 MPN/100mL
15	BIOLOGICAL- WATER	Packaged Drinking Water	E. coli	IS 1622 1981 (MPN Method): 2009	Qualitative(Absent/Present per 100 mL)
16	BIOLOGICAL- WATER	Packaged Drinking Water	Standard Plate Count	IS 5402 2002 (Pour Plate Method): 2007	1 cfu/mL to 100000000 cfu/mL
17	BIOLOGICAL- WATER	Packaged Drinking Water	Yeast & Mould Count	IS 5403 1999 (Pour Plate Method): 2009	1 cfu/mL to 1000000 cfu/mL
18	BIOLOGICAL- WATER	Packaged Natural Mineral Water	Coliform Count	IS 1622 1981 (MPN Method): 2009	02 MPN/100mL to 1600 MPN/100mL
19	BIOLOGICAL- WATER	Packaged Natural Mineral Water	E. coli	IS 1622 1981 (MPN Method): 2009	Qualitative(Absent/Present per 100 mL)
20	BIOLOGICAL- WATER	Packaged Natural Mineral Water	Standard Plate Count	IS 5402 2002 (Pour Plate Method): 2007	1 cfu/mL to 100000000 cfu/mL
21	BIOLOGICAL- WATER	Water for Industrial purpose	Yeast & Mould Count	IS 5403 1999 (Pour Plate Method): 2009	1 cfu/mL to 1000000 cfu/mL
22	BIOLOGICAL- WATER	Water for Industrial purpose	Coliform Count	IS 1622 1981 (MPN Method): 2009	02 MPN/100mL to 1600 MPN/100mL
23	BIOLOGICAL- WATER	Water for Industrial purpose	E. coli	IS 1622 1981 (MPN Method): 2009	Qualitative(Absent / Present per 100 mL)
24	BIOLOGICAL- WATER	Water for Industrial purpose	Standard Plate Count	IS 5402 2002 (Pour Plate Method): 2007	1 cfu/mL to 100000000 cfu/mL
25	BIOLOGICAL- WATER	Water for swimming pool and spas	Coliform Count	IS 1622 1981 (MPN Method): 2009	02 MPN/100 mL to 1600 MPN/100 mL
26	BIOLOGICAL- WATER	Water for swimming pool and spas	E. coli	IS 1622 1981 (MPN Method): 2009	Qualitative(Absent / Present per 100 mL)
27	BIOLOGICAL- WATER	Water for swimming pool and spas	Standard Plate Count	IS 5402 2002 (Pour Plate Method): 2007	1 cfu/mL to 100000000 cfu/mL



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Certificate Number TC-5526 Page No. : 3 / 39

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28	BIOLOGICAL- WATER	Water for swimming pool and spas	Yeast & Mould Count	IS 5403 1999 (Pour Plate Method): 2009	1 cfu/mL to 1000000 cfu/mL
29	CHEMICAL- ATMOSPHERIC POLLUTION	(Source monitoring)Stack Emissions	Oxides of Nitrogen (NOx)	IS 11255 (PART-7) : 2012	5.0 mg/Nm ³ to 500 mg/Nm ³
30	CHEMICAL- ATMOSPHERIC POLLUTION	(Source monitoring)Stack Emissions	Carbon Dioxide (CO ₂)	IS: 13270 Orsat Gas Apparatus: 2012	0.2 % by Vol. to 15 % by Vol.
31	CHEMICAL- ATMOSPHERIC POLLUTION	(Source monitoring)Stack Emissions	Carbon Mono-oxide (CO)	IS: 13270 Orsat Gas Apparatus: 2012	0.2 % by Vol. to 5 % by Vol.
32	CHEMICAL- ATMOSPHERIC POLLUTION	(Source monitoring)Stack Emissions	Oxygen (O ₂)	IS: 13270 Orsat Gas Apparatus: 2012	0.2 % by Vol. to 22 % by Vol.
33	CHEMICAL- ATMOSPHERIC POLLUTION	(Source Monitoring) Stack Emissions	Particulate Matters	IS 11255 (Part 1): 2009	1 mg/Nm ³ to 5000 mg/Nm ³
34	CHEMICAL- ATMOSPHERIC POLLUTION	(Source Monitoring) Stack Emissions	Sulphur Dioxide (SO ₂)	IS 11255 (Part 2) : 2009	3.4 mg/Nm ³ to 5000 mg/Nm ³
35	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Ammonia	NCL/AIR/STP-13 02 January ,Indophenol Blue Method): 2016	20 µg/m ³ to 500 µg/m ³
36	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Arsenic (As)	NCL/AIR/STP-19 02 January: 2016	1.0 ng/m ³ to 100 ng/m ³
37	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Benzene (C ₆ H ₆)	IS 5182 (PART 11) GC Method: 2006	1.0 µg/m ³ to 100 µg/m ³



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Certificate Number TC-5526 Page No. : 4 / 39

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38	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient air	Lead (Pb)	IS 5182 (PART 22) AAS Method: 2009	0.05 µg/m ³ to 100 µg/m ³
39	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air	Nickel (Ni)	NCL/AIR/STP-17 02 January: 2016	5.0 ng/m ³ to 100 ng/m ³
40	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air	Nitrogen Dioxide (NO ₂)	IS 5182 (PART 6): 2006	7 µg/m ³ to 250 µg/m ³
41	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air	Ozone (O ₃)	IS 5182 (PART 9): 2009	20 µg/m ³ to 500 µg/m ³
42	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air	Particulate Matter (Size Less than 10 µm) or PM-10	IS 5182 (PART 23): 2006	5 µg/m ³ to 1500 µg/m ³
43	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air	Particulate Matter (Size Less than 2.5 µm) or PM-2.5	NCL/AIR/STP-09 02 January : 2016	10 µg/m ³ to 500 µg/m ³
44	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air	Sulphur Dioxide (SO ₂)	IS 5182 (PART 2): 2001	7 µg/m ³ to 250 µg/m ³
45	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	pH	APHA – 4500 H+ B ELECTROMETRIC METHOD 23rd Edition Page No:4-92 to 4-95: 2017	2 to 12
46	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Suspended Solids (TSS)	APHA – 2540 (D) GRAVIMETRIC METHOD 23rd Edition Page No. 2-70 : 2017	10 mg/L to 1000 mg/L



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Certificate Number TC-5526 Page No. : 5 / 39

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47	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, (Effluents /Sewage)	Calcium	APHA 3500 (Ca) – B EDTA Titrimetric Methods 23rd Edition Page No: 3-69: 2017	5 mg/L to 1000 mg/L
48	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, (Effluents /Sewage)	Lead	APHA – 3111 (B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No:3-20 to 3-22: 2017	0.05 mg/L to 100 mg/L
49	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, (Effluents /Sewage)	Chromium (Cr+6)	APHA – 3500 – Cr-B Colorometric Method 23rd Edition Page No:3-70 to 3-72: 2017	0.05 mg/L to 1.0 mg/L
50	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, (Effluents /Sewage)	Colour (For Treated Waste water Only)	APHA 2120 (B) Visual Comparison Methods 23rd Edition Page No:2-6: 2017	5 Hzn to 1000 Hzn
51	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, (Effluents /Sewage)	Magnesium	APHA 3500 (Mg) – B Calculation Methods 23rd Edition Page No: 3-86: 2017	2 mg/L to 1000 mg/L
52	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, (Effluents /Sewage)	Phosphate	APHA 4500 (D) PO4 Staneous Chloride Method 23rd Edition Page No:4-163: 2017	0.05 mg/L to 100 mg/L
53	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, (Effluents /Sewage)	Surfactant	APHA – 5540 (C) Anionic Surfactant (M.B.A.S) 23rd Edition Page No: 5-53 to 5-57: 2017	0.5 mg/L to 100 mg/L



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Certificate Number TC-5526 Page No. : 6 / 39

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54	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water,(Effluents /Sewage)	Ammonia	APHA – 4500 NH3 (B- C) TITRIMETRIC METHOD 23rd Edition Page No:4-114 to 4- 116: 2017	0.5 mg/L to 1000 mg/L
55	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water,(Effluents /Sewage)	Ammonical Nitrogen	APHA – 4500 (B-C) TITRIMETRIC METHOD 23rd Edition Page No:4-114 to 4- 116: 2017	1 mg/L to 1000 mg/L
56	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water,(Effluents /Sewage)	Boron	APHA 4500 (B) By Curcumin Method 23rd Edition Page No:4-27 to 4-28: 2017	0.5 mg/L to 1000 mg/L
57	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water,(Effluents /Sewage)	Conductivity	APHA – 2510 (B) CONDUCTIVITY METERIC METHOD 23rd Edition Page No:2-56 to 2-59: 2017	1 μ S/cm to 1000 mS/cm
58	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water,(Effluents /Sewage)	Copper	APHA – 3111(B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No: 3-21: 2017	0.05 mg/L to 100 mg/L
59	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water,(Effluents /Sewage)	Dissolved Oxygen	APHA – 4500 (O) - C AZIDE MODIFICATION METHOD 23rd Edition Page No:4-146: 2017	1 mg/L to 10 mg/L
60	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water,(Effluents /Sewage)	Manganese	APHA – 3111 (B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No:3-21: 2017	0.1 mg/L to 100 mg/L



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Certificate Number TC-5526 Page No. : 7 / 39

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61	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water,(Effluents /Sewage)	Nickel	APHA – 3111 (B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No:3-21: 2017	0.1 mg/L to 100 mg/L
62	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water,(Effluents /Sewage)	Phenol	APHA – 5530 (C) Chloroform Extraction Method 23rd Edition Page No:5-49 to 5-51: 2017	0.001 mg/L to 100 mg/L
63	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water,(Effluents /Sewage)	Residual Chlorine	APHA – 4500 (B) IODOMETRIC METHOD 23rd Edition Page No:4-61 to 4-64: 2017	1.0 mg/L to 5.0 mg/L
64	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water,(Effluents /Sewage)	Total Chromium	APHA – 3111(B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No:3-21: 2017	0.05 mg/L to 200 mg/L
65	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water,(Effluents /Sewage)	Total Dissolved Solids (TDS)	APHA – 2540 (C) GRAVIMETRIC METHOD 23rd Edition Page No:2-69: 2017	10.0 mg/L to 20000 mg/L
66	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water,(Effluents /Sewage)	Total Kjeldhal Nitrogen (TKN)	APHA – 4500 (B) N-org TITRIMETRIC METHOD 23rd Edition Page No: 4-139 to 4-140: 2017	0.1 mg/L to 1000 mg/L
67	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water,(Effluents /Sewage)	Zinc	APHA – 3111 (B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No:3-21: 2017	0.5 mg/L to 100 mg/L



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Certificate Number TC-5526 Page No. : 8 / 39

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68	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water,(Effluents /Sewage)	Bio-Chemical Oxygen Demand (BOD for 3 days at 27 degree C)	APHA – 5210 (B) VOLUMETRIC METHOD 23rd Edition Page No:5-17 to 5-20: 2017	2.0 mg/L to 1200 mg/L
69	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water,(Effluents /Sewage)	Chemical Oxygen Demand (COD)	APHA – 5220 (B) VOLUMETRIC METHOD (CLOSED REFLUX METHOD) 23rd Edition Page No: 5-17 to 05-20: 2017	10.0 mg/L to 10000 mg/L
70	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water,(Effluents /Sewage)	Fluoride	APHA – 4500 F-B,D Spadn's Method 23rd Edition Page No:4-87 to 4-91: 2017	0.1 mg/L to 10 mg/L
71	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water,(Effluents /Sewage)	Iron	APHA – 3111 (B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No:3-80 to 3-81: 2017	0.1 mg/L to 100 mg/L
72	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water,(Effluents /Sewage)	Oil and Grease (O&G)	APHA – 5520 (B) GRAVIMETRIC METHOD 23rd Edition Page No:5-41 to 5-43: 2017	5.0 mg/L to 400 mg/L
73	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water,(Effluents /Sewage)	Potassium	APHA 3500 K – (B) Flame Emission Photometric 23rd Edition Page:3-89: 2017	1 mg/L to 1000 mg/L



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Certificate Number TC-5526 Page No. : 9 / 39

Validity 26/07/2019 to 25/07/2021 Last Amended on -

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74	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water,(Effluents /Sewage)	Nitrate	IS 3025 (Part 34) 1988 Chromotropic Acid RA: 2009	0.2 mg/L to 1000 mg/L
75	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water,(Effluents /Sewage)	Silica	APHA 4500 - SiO ₂ (C) Molybdosilicate Method 23rd Edition Page No 4-174 to 4-176: 2017	1 mg/L to 1000 mg/L
76	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water,(Effluents /Sewage)	Sodium	APHA 3500 Na – (B) Flame Emission Photometric 23rd Edition Page No:3-99 to 3-100: 2017	10 mg/L to 1000 mg/L
77	CHEMICAL- WATER	Drinking Water	Alkalinity	APHA – 2320 (B) TITRIMETRIC METHOD 23rd Edition Page No 2-36 to 2-38: 2017	5 mg/L to 750 mg/L
78	CHEMICAL- WATER	Drinking Water	Aluminium	APHA 3500 (Al) – B Erichrom Cyanine-R Methods 23rd Edition Page No:3-63 to 3-65: 2017	0.03 mg/L to 100 mg/L
79	CHEMICAL- WATER	Drinking Water	Boron	APHA 4500 (B) By Curcumin Method 23rd Edition Page No: 4-27 to 4-28: 2017	0.5 mg/L to 100 mg/L
80	CHEMICAL- WATER	Drinking Water	Calcium	APHA 3500 (Ca) – B EDTA Titrimetric Methods 23rd Edition Page No: 3-69: 2017	5 mg/L to 1000 mg/L



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Certificate Number TC-5526 Page No. : 10 / 39

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81	CHEMICAL- WATER	Drinking Water	Chloride	APHA – 4500 (B) ARGENTOMETRIC TITRATION METHOD 23rd Edition Page No:4-75: 2017	1.0 mg/L to 400 mg/L
82	CHEMICAL- WATER	Drinking Water	Chromium (Cr+6)	APHA – 3500 – Cr Di Phenyl Carbazide (DPC) Method 23rd Edition Page No: 3-70 to 3-72: 2017	0.01 mg/L to 1.0 mg/L
83	CHEMICAL- WATER	Drinking Water	Colour	APHA 2120 (B) Visual Comparison Methods 23rd Edition Page No. 2-6: 2017	5 Hzn to 1000 Hzn
84	CHEMICAL- WATER	Drinking Water	Conductivity	APHA – 2510 (B) CONDUCTIVITY METERIC METHOD 23rd Edition Page No: 2-56 to 2-59: 2017	1.0 µS/cm. to 1000 mS/cm.
85	CHEMICAL- WATER	Drinking Water	Copper	APHA – 3111 (B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No: 3-21: 2017	0.05 mg/L to 100 mg/L
86	CHEMICAL- WATER	Drinking Water	Fluoride	APHA – 4500 F-B,D Spadn's Method 23rd Edition Page No: 4-87 to 4-91: 2017	0.1 mg/L to 10 mg/L
87	CHEMICAL- WATER	Drinking Water	Free Residual Chlorine	APHA – 4500 (B) IODOMETRIC METHOD 23rd Edition Page No: 4-61 to 4-64: 2017	0.2 mg/L to 5 mg/L



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Certificate Number TC-5526 Page No. : 11 / 39

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88	CHEMICAL- WATER	Drinking Water	Hardness	APHA – 2340 (C) EDTA TITRIMETRIC METHOD 23rd Edition Page No:2-48 to 2-50: 2017	5 mg/L to 1200 mg/L
89	CHEMICAL- WATER	Drinking Water	Iron	APHA – 3111 (B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No: 3-80 to 3-81: 2017	0.1 mg/L to 100 mg/L
90	CHEMICAL- WATER	Drinking water	Lead	APHA – 3111 (B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No:3-20 to 3-22: 2017	0.05 mg/L to 100 mg/L
91	CHEMICAL- WATER	Drinking Water	Magnesium	APHA 3500 (Mg) – B EDTA Calculation Method 23rd Edition Page No: 3-86: 2017	2 mg/L to 1000 mg/L
92	CHEMICAL- WATER	Drinking Water	Manganese	APHA – 3111 (B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No: 3-21: 2017	0.1 mg/L to 4.0 mg/L
93	CHEMICAL- WATER	Drinking Water	Nickel	APHA – 3111 (B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No:3-21: 2017	0.1 mg/L to 100 mg/L
94	CHEMICAL- WATER	Drinking Water	Nitrate	IS 3025(P-34)-1988 RA-2009 Chromotropic Acid: 2009	0.2 mg/L to 1000 mg/L



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Certificate Number TC-5526 Page No. : 12 / 39

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95	CHEMICAL- WATER	Drinking Water	pH	APHA – 4500 H+B ELECTROMETRIC METHOD 23rd Edition Page No:4-92 to 4-95: 2017	2 to 12
96	CHEMICAL- WATER	Drinking Water	Phosphate	APHA 4500 (P-D) PO4 Staneous Chloride Method 23rd Edition Page No:4-163: 2017	0.05 mg/L to 100 mg/L
97	CHEMICAL- WATER	Drinking Water	Potassium	APHA 3500 K – (B) Flame Emission Photometric 23rd Edition Page No:3-89: 2017	1 mg/L to 1000 mg/L
98	CHEMICAL- WATER	Drinking Water	Silica	APHA 4500 - SiO ₂ (C) Molybdosilicate Method 23rd Edition Page No 4-174 to 4-176: 2017	1.0 mg/L to 1000 mg/L
99	CHEMICAL- WATER	Drinking water	Sodium	APHA 3500 Na – (B) Flame Emission Photometric 23rd Edition Page No:3-99 to 3-100: 2017	10 mg/L to 1000 mg/L
100	CHEMICAL- WATER	Drinking Water	Sulphate	APHA – 4500 (E) TURBIDIMETRIC METHOD 23rd Edition Page No:4-191 to 4-200: 2017	10 mg/L to 400 mg/L



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name NEWCON CONSULTANTS AND LABORATORIES, 8TH KM STONE, MEERUT ROAD, MORTA, GHAZIABAD, UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5526 Page No. : 13 / 39

Validity 26/07/2019 to 25/07/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
101	CHEMICAL- WATER	Drinking Water	Surfactant	APHA – 5540 (C) Anionic Surfactant (M.B.A.S) 23rd Edition Page No: 5-53 to 5-57: 2017	0.5 mg/L to 100 mg/L
102	CHEMICAL- WATER	Drinking Water	Total Chromium	APHA – 3111 (B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No: 3-21: 2017	0.05 mg/l to 200 mg/l
103	CHEMICAL- WATER	Drinking Water	Total Dissolved Solids (TDS)	APHA – 2540 (C) GRAVIMETRIC METHOD 23rd Edition Page No : 2-69: 2017	10.0 mg/L to 10000 mg/L
104	CHEMICAL- WATER	Drinking Water	Turbidity	APHA – 2130 (B) Nephelometric Method 23rd Edition Page No:2-12 to 2-13: 2017	1.0 NTU to 100 NTU
105	CHEMICAL- WATER	Drinking Water	Zinc	APHA – 3111 (B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No: 3-21: 2017	0.05 mg/L to 10 mg/L
106	CHEMICAL- WATER	Ground Water	Alkalinity	APHA – 2320 (B) TITRIMETRIC METHOD 23rd Edition Page No2-36 to 2-38: 2017	5.0 mg/L to 750 mg/L
107	CHEMICAL- WATER	Ground water	Aluminium	APHA 3500 (Al) – B Erichrom Cyanine-R Methods 23rd Edition Page No:3-63 to 3-65: 2017	0.3 mg/L to 100 mg/L



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name NEWCON CONSULTANTS AND LABORATORIES, 8TH KM STONE, MEERUT ROAD, MORTA, GHAZIABAD, UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5526 Page No. : 14 / 39

Validity 26/07/2019 to 25/07/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
108	CHEMICAL- WATER	Ground Water	Boron	APHA 4500 (B) By Curcumin Method 23rd Edition Page No: 4-27 to 4-28: 2017	0.5 mg/L to 100 mg/L
109	CHEMICAL- WATER	Ground Water	Calcium	APHA 3500 (Ca) – B EDTA Titrimetric Methods 23rd Edition Page No: 3-69: 2017	5 mg/L to 1000 mg/L
110	CHEMICAL- WATER	Ground Water	Chloride	APHA – 4500 (B) ARGENTOMETRIC TITRATION METHOD 23rd Edition Page No:4-75: 2017	1.0 mg/L to 400 mg/L
111	CHEMICAL- WATER	Ground Water	Chromium (Cr+6)	APHA – 3500 – (B) Cr Di Phenyl Carbazide (DPC) Method 23rd Edition Page Page No: 3-70 to 3-72: 2017	0.01 mg/L to 1.0 mg/L
112	CHEMICAL- WATER	Ground Water	Colour	APHA 2120 (B) Visual Comparison Methods 23rd Edition Page No: 2-6: 2017	5 Hzn to 1000 Hzn
113	CHEMICAL- WATER	Ground Water	Conductivity	APHA – 2510 (B) CONDUCTIVITY METERIC METHOD 23rd Edition Page No: 2-56 to 2-59: 2017	1.0 µS/cm. to 1000 mS/cm.
114	CHEMICAL- WATER	Ground water	Copper	APHA – 3111 (B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No: 3-21: 2017	0.05 mg/L to 100 mg/L



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name NEWCON CONSULTANTS AND LABORATORIES, 8TH KM STONE, MEERUT ROAD, MORTA, GHAZIABAD, UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5526 Page No. : 15 / 39

Validity 26/07/2019 to 25/07/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
115	CHEMICAL- WATER	Ground water	Fluoride	APHA – 4500 F-B,D Spadn's Method 23rd Edition Page No: 4-87 to 4-91: 2017	0.1 mg/L to 10 mg/L
116	CHEMICAL- WATER	Ground Water	Free Residual Chlorine	APHA – 4500 (B) IODOMETRIC METHOD 23rd Edition Page No: 4-61 to 4-64: 2017	0.2 mg/L to 5.0 mg/L
117	CHEMICAL- WATER	Ground Water	Hardness	APHA – 2340 (C) EDTA TITRIMETRIC METHOD 23rd Edition Page No:2-48 to 2-50: 2017	5 mg/L to 1200 mg/L
118	CHEMICAL- WATER	Ground Water	Iron	APHA – 3111 (B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No: 3-80 to 3-81: 2017	0.1 mg/L to 100 mg/L
119	CHEMICAL- WATER	Ground Water	Lead	APHA – 3111 (B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No:3-20 to 3-22: 2017	0.05 mg/L to 100 mg/L
120	CHEMICAL- WATER	Ground Water	Magnesium	APHA 3500 (Mg) – B EDTA Calculation Methods 23rd Edition Page No: 3-86: 2017	2 mg/L to 1000 mg/L
121	CHEMICAL- WATER	Ground Water	Manganese	APHA – 3111 (B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No: 3-21: 2017	0.1 mg/L to 4.0 mg/L



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name NEWCON CONSULTANTS AND LABORATORIES, 8TH KM STONE, MEERUT ROAD, MORTA, GHAZIABAD, UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5526 Page No. : 16 / 39

Validity 26/07/2019 to 25/07/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
122	CHEMICAL- WATER	Ground Water	Nickel	APHA – 3111 (B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No:3-21: 2017	0.1 mg/L to 100 mg/L
123	CHEMICAL- WATER	Ground Water	Nitrate	IS 3025(P-34)-1988 , Chromotropic Acid: 2009	0.2 mg/L to 1000 mg/L
124	CHEMICAL- WATER	Ground Water	pH	APHA – 4500 H+B ELECTROMETRIC METHOD 23rd Edition Page No:4-92 to 4-95: 2017	2 to 12
125	CHEMICAL- WATER	Ground water	Phosphate	APHA 4500 (P-D) PO4 Staneous Chloride Method 23rd Edition Page No:4-163: 2017	0.05 mg/L to 100 mg/L
126	CHEMICAL- WATER	Ground Water	Potassium	APHA 3500 K – (B) Flame Emission Photometric 23rd Edition Page No:3-89: 2017	1.0 mg/L to 1000 mg/L
127	CHEMICAL- WATER	Ground water	Silica	APHA 4500 - SiO ₂ (C) Molybdosilicate Method 23rd Edition Page No 4-174 to 4-176: 2017	1.0 mg/L to 1000 mg/L
128	CHEMICAL- WATER	Ground water	Sodium	APHA 3500 Na – (B) Flame Emission Photometric 23rd Edition Page No:3-99 to 3-100: 2017	10 mg/L to 1000 mg/L



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name NEWCON CONSULTANTS AND LABORATORIES, 8TH KM STONE, MEERUT ROAD, MORTA, GHAZIABAD, UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5526 Page No. : 17 / 39

Validity 26/07/2019 to 25/07/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
129	CHEMICAL- WATER	Ground Water	Sulphate	APHA – 4500 (E) TURBIDIMETRIC METHOD 23rd Edition Page No:4-191 to 4-200: 2017	10 mg/L to 400 mg/L
130	CHEMICAL- WATER	Ground Water	Total Chromium	APHA – 3111 (B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No: 3-21: 2017	0.05 mg/L to 200 mg/L
131	CHEMICAL- WATER	Ground Water	Total Dissolved Solids (TDS)	APHA – 2540 (C) GRAVIMETRIC METHOD 23rd Edition Page No : 2-69: 2017	10 mg/L to 10000 mg/L
132	CHEMICAL- WATER	Ground Water	Turbidity	APHA – 2130 (B) Nephelometric Method 23rd Edition Page No:2-12 to 2-13: 2017	1.0 NTU to 100 NTU
133	CHEMICAL- WATER	Ground Water	Zinc	APHA – 3111 (B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No: 3-21: 2017	0.05 mg/L to 10 mg/L
134	CHEMICAL- WATER	Industrial Water	Alkalinity	APHA – 2320 (B) TITRIMETRIC METHOD 23rd Edition Page No 2-36 to 2-38: 2017	5.0 mg/L to 750 mg/L
135	CHEMICAL- WATER	Industrial Water	Boron	APHA 4500 (B) By Curcumin Method 23rd Edition Page No: 4-27 to 4-28: 2017	0.5 mg/L to 100 mg/L



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name NEWCON CONSULTANTS AND LABORATORIES, 8TH KM STONE, MEERUT ROAD, MORTA, GHAZIABAD, UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5526 Page No. : 18 / 39

Validity 26/07/2019 to 25/07/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
136	CHEMICAL- WATER	Industrial Water	Calcium	APHA 3500 (Ca) – B EDTA Titrimetric Methods 23rd Edition Page No: 3-69: 2017	5 mg/L to 1000 mg/L
137	CHEMICAL- WATER	Industrial Water	Chloride	APHA – 4500 (B) ARGENTOMETRIC TITRATION METHOD 23rd Edition Page No:4-75: 2017	1.0 mg/L to 400 mg/L
138	CHEMICAL- WATER	Industrial Water	Chromium(Cr+6)	APHA – 3500 – Cr Di Phenyl Carbazide (DPC) Method 23rd Edition Page No: 3-70 to 3-72: 2017	0.01 mg/L to 1.0 mg/L
139	CHEMICAL- WATER	Industrial Water	Colour	APHA 2120 (B) Visual Comparison Methods 23rd Edition Page No: 2-6: 2017	5 Hzn to 1000 Hzn
140	CHEMICAL- WATER	Industrial water	Conductivity	APHA – 2510 (B) CONDUCTIVITY METERIC METHOD 23rd Edition Page No: 2-56 to 2-59: 2017	1.0 µS/cm. to 1000 mS/cm.
141	CHEMICAL- WATER	Industrial Water	Copper	APHA – 3111 (B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No: 3-21: 2017	0.05 mg/L to 100 mg/L
142	CHEMICAL- WATER	Industrial Water	Fluoride	APHA – 4500 F-B,D Spadn's Method 23rd Edition Page No: 4-87 to 4-91: 2017	0.1 mg/L to 10 mg/L



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name NEWCON CONSULTANTS AND LABORATORIES, 8TH KM STONE, MEERUT ROAD, MORTA, GHAZIABAD, UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5526 Page No. : 19 / 39

Validity 26/07/2019 to 25/07/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
143	CHEMICAL- WATER	Industrial Water	Free Residual Chlorine	APHA – 4500 (B) IODOMETRIC METHOD 23rd Edition Page No: 4-61 to 4-64: 2017	0.2 mg/L to 5.0 mg/L
144	CHEMICAL- WATER	Industrial Water	Hardness	APHA – 2340 (C) EDTA TITRIMETRIC METHOD 23rd Edition Page No:2-48 to 2-50: 2017	5 mg/L to 1200 mg/L
145	CHEMICAL- WATER	Industrial Water	Iron	APHA – 3111 (B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No: 3-80 to 3-81: 2017	0.1 mg/L to 100 mg/L
146	CHEMICAL- WATER	Industrial Water	Lead	APHA – 3111 (B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No:3-20 to 3-22: 2017	0.05 mg/L to 100 mg/L
147	CHEMICAL- WATER	Industrial water	Magnesium	APHA 3500 (Mg) – B EDTA Calculation Method 23rd Edition Page No: 3-86: 2017	2 mg/L to 1000 mg/L
148	CHEMICAL- WATER	Industrial Water	Manganese	APHA – 3111 (B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No: 3-21: 2017	0.1 mg/L to 4.0 mg/L
149	CHEMICAL- WATER	Industrial Water	Nickel	APHA – 3111 (B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No:3-21: 2017	0.1 mg/L to 100 mg/L



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name NEWCON CONSULTANTS AND LABORATORIES, 8TH KM STONE, MEERUT ROAD, MORTA, GHAZIABAD, UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5526 Page No. : 20 / 39

Validity 26/07/2019 to 25/07/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
150	CHEMICAL- WATER	Industrial Water	Nitrate	IS 3025 (Part 34) 1988 Chromotropic Acid, RA: 2009	0.2 mg/L to 1000 mg/L
151	CHEMICAL- WATER	Industrial Water	pH	APHA – 4500 H+B ELECTROMETRIC METHOD 23rd Edition Page No:4-92 to 4-95: 2017	2 to 12
152	CHEMICAL- WATER	Industrial Water	Phosphate	APHA 4500 (P-D) PO4 Staneous Chloride Method 23rd Edition Page No:4-163: 2017	0.05 mg/L to 100 mg/L
153	CHEMICAL- WATER	Industrial Water	Potassium	APHA 3500 K – (B) Flame Emission Photometric 23rd Edition Page No:3-89: 2017	1 mg/L to 1000 mg/L
154	CHEMICAL- WATER	Industrial Water	Silica	APHA 4500 - SiO2 (C) Molybdosilicate Method 23rd Edition Page No 4-174 to 4-176: 2017	1.0 mg/L to 1000 mg/L
155	CHEMICAL- WATER	Industrial Water	Sodium	APHA 3500 Na – (B) Flame Emission Photometric 23rd Edition Page No:3-99 to 3-100: 2017	10 mg/L to 1000 mg/L
156	CHEMICAL- WATER	Industrial Water	Sulphate	APHA – 4500 (E) TURBIDIMETRIC METHOD 23rd Edition Page No:4-191 to 4-200: 2017	10.0 mg/L to 400 mg/L



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name NEWCON CONSULTANTS AND LABORATORIES, 8TH KM STONE, MEERUT ROAD, MORTA, GHAZIABAD, UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5526 Page No. : 21 / 39

Validity 26/07/2019 to 25/07/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
157	CHEMICAL- WATER	Industrial Water	Surfactant	APHA – 5540 (C) Anionic Surfactant (M.B.A.S) 23rd Edition Page No: 5-53 to 5-57: 2017	0.5 mg/L to 100 mg/L
158	CHEMICAL- WATER	Industrial Water	Total Chromium	APHA – 3111 (B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No: 3-21: 2017	0.05 mg/L to 200 mg/L
159	CHEMICAL- WATER	Industrial Water	Total Dissolved Solids (TDS)	APHA – 2540 (C) GRAVIMETRIC METHOD 23rd Edition Page No : 2-69: 2017	10.0 mg/L to 10000 mg/L
160	CHEMICAL- WATER	Industrial Water	Turbidity	APHA – 2130 (B) Nephelometric Method 23rd Edition Page No:2-12 to 2-13: 2017	1.0 NTU to 100 NTU
161	CHEMICAL- WATER	Industrial Water	Zinc	APHA – 3111 (B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No: 3-21: 2017	0.05 mg/L to 10 mg/L
162	CHEMICAL- WATER	Irrigation Water	Alkalinity	APHA – 2320 (B) TITRIMETRIC METHOD 23rd Edition Page No 2-36 to 2-38: 2017	5 mg/L to 750 mg/L
163	CHEMICAL- WATER	Irrigation water	Aluminium	APHA 3500 (Al) – B Erichrom Cyanine-R Methods 23rd Edition Page No:3-63 to 3-65: 2017	0.03 mg/L to 100 mg/L



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name NEWCON CONSULTANTS AND LABORATORIES, 8TH KM STONE, MEERUT ROAD, MORTA, GHAZIABAD, UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5526 Page No. : 22 / 39

Validity 26/07/2019 to 25/07/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
164	CHEMICAL- WATER	Irrigation water	Boron	APHA 4500 (B) By Curcumin Method 23rd Edition Page No: 4-27 to 4-28: 2017	0.5 mg/L to 100 mg/L
165	CHEMICAL- WATER	Irrigation water	Calcium (Ca)	APHA 3500 (Ca) – B EDTA Titrimetric Methods 23rd Edition Page No: 3-69: 2017	5 mg/l to 1000 mg/L
166	CHEMICAL- WATER	Irrigation water	Chloride	APHA – 4500 (B) ARGENTOMETRIC TITRATION METHOD 23rd Edition Page No:4-75: 2017	1.0 mg/L to 400 mg/L
167	CHEMICAL- WATER	Irrigation water	Chromium (Cr+6)	APHA – 3500 – Cr Di Phenyl Carbazide (DPC) Method 23rd Edition Page No: 3-70 to 3-72: 2017	0.01 mg/L to 1.0 mg/L
168	CHEMICAL- WATER	Irrigation water	Colour	APHA 2120 (B) Visual Comparison Methods 23rd Edition Page No: 2-6: 2017	5 Hzn to 1000 Hzn
169	CHEMICAL- WATER	Irrigation water	Conductivity	APHA – 2510 (B) CONDUCTIVITY METERIC METHOD 23rd Edition Page No: 2-56 to 2-59: 2017	1.0 µS/cm. to 1000 mS/cm.
170	CHEMICAL- WATER	irrigation water	Copper	APHA – 3111 (B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No: 3-21: 2017	0.05 mg/L to 100 mg/L



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name NEWCON CONSULTANTS AND LABORATORIES, 8TH KM STONE, MEERUT ROAD, MORTA, GHAZIABAD, UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5526 Page No. : 23 / 39

Validity 26/07/2019 to 25/07/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
171	CHEMICAL- WATER	Irrigation water	Fluoride	APHA – 4500 F-B,D Spadn's Method 23rd Edition Page No: 4-87 to 4-91: 2017	0.1 mg/L to 10 mg/L
172	CHEMICAL- WATER	Irrigation water	Free Residual Chlorine	APHA – 4500 (B) IODOMETRIC METHOD 23rd Edition Page No: 4-61 to 4-64: 2017	0.2 mg/L to 5.0 mg/L
173	CHEMICAL- WATER	Irrigation water	Hardness	APHA – 2340 (C) EDTA TITRIMETRIC METHOD 23rd Edition Page No:2-48 to 2-50: 2017	5 mg/L to 1200 mg/L
174	CHEMICAL- WATER	Irrigation water	Iron	APHA – 3111 (B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No: 3-80 to 3-81: 2017	0.1 mg/L to 100 mg/L
175	CHEMICAL- WATER	Irrigation water	Lead	APHA – 3111 (B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No:3-20 to 3-22: 2017	0.05 mg/L to 100 mg/L
176	CHEMICAL- WATER	irrigation water	Magnesium	APHA 3500 (Mg) – B EDTA Calculation Method 23rd Edition Page No: 3-86: 2017	2 mg/L to 1000 mg/L
177	CHEMICAL- WATER	Irrigation water	Manganese	APHA – 3111 (B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No: 3-21: 2017	0.1 mg/L to 4.0 mg/L



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name NEWCON CONSULTANTS AND LABORATORIES, 8TH KM STONE, MEERUT ROAD, MORTA, GHAZIABAD, UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5526 Page No. : 24 / 39

Validity 26/07/2019 to 25/07/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
178	CHEMICAL- WATER	Irrigation water	Nickel	APHA – 3111 (B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No:3-21: 2017	0.1 mg/L to 100 mg/L
179	CHEMICAL- WATER	Irrigation water	Nitrate	IS 3025(P-34) 1988 chromotropic Acid, RA: 2009	0.2 mg/L to 1000 mg/L
180	CHEMICAL- WATER	Irrigation water	pH	APHA – 4500 H+B ELECTROMETRIC METHOD 23rd Edition Page No:4-92 to 4-95: 2017	2 to 12
181	CHEMICAL- WATER	Irrigation water	Phosphate	APHA 4500 (P-D) PO4 Staneous Chloride Method 23rd Edition Page No:4-163: 2017	0.05 mg/L to 100 mg/L
182	CHEMICAL- WATER	Irrigation water	Potassium	APHA 3500 K – (B) Flame Emission Photometric 23rd Edition Page No:3-89: 2017	1 mg/L to 1000 mg/L
183	CHEMICAL- WATER	Irrigation water	Silica	APHA 4500 - SiO ₂ (C) Molybdosilicate Method 23rd Edition Page No 4-174 to 4-176: 2017	1 mg/L to 1000 mg/L
184	CHEMICAL- WATER	Irrigation water	Sodium	APHA 3500 Na – (B) Flame Emission Photometric 23rd Edition Page No:3-99 to 3-100: 2017	10 mg/L to 1000 mg/L



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name NEWCON CONSULTANTS AND LABORATORIES, 8TH KM STONE, MEERUT ROAD, MORTA, GHAZIABAD, UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5526 Page No. : 25 / 39

Validity 26/07/2019 to 25/07/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
185	CHEMICAL- WATER	Irrigation water	Sulphate	APHA – 4500 (E) TURBIDIMETRIC METHOD 23rd Edition Page No:4-191 to 4-200: 2017	10 mg/L to 400 mg/L
186	CHEMICAL- WATER	Irrigation water	Surfactant	APHA – 5540 (C) Anionic Surfactant (M.B.A.S) 23rd Edition Page No: 5-53 to 5-57: 2017	0.5 mg/L to 100 mg/L
187	CHEMICAL- WATER	Irrigation water	Total Chromium	APHA – 3111 (B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No: 3-21: 2017	0.05 mg/L to 200 mg/L
188	CHEMICAL- WATER	Irrigation water	Total Dissolved Solids (TDS)	APHA – 2540 (C) GRAVIMETRIC METHOD 23rd Edition Page No : 2-69: 2017	10 mg/L to 10000 mg/L
189	CHEMICAL- WATER	Irrigation water	Turbidity	APHA – 2130 (B) Nephelometric Method 23rd Edition Page No:2-12 to 2-13: 2017	1.0 NTU to 100 NTU
190	CHEMICAL- WATER	Irrigation water	Zinc	APHA – 3111 (B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No: 3-21: 2017	0.05 mg/L to 10 mg/L
191	CHEMICAL- WATER	Package Drinking Water	Aluminium	APHA 3500 (Al) – B Erchrom Cyanine-R Methods 23rd Edition Page No:3-63 to 3-65: 2017	0.03 mg/L to 100 mg/L



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name NEWCON CONSULTANTS AND LABORATORIES, 8TH KM STONE, MEERUT ROAD, MORTA, GHAZIABAD, UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5526 Page No. : 26 / 39

Validity 26/07/2019 to 25/07/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
192	CHEMICAL- WATER	Package Drinking Water	Boron	APHA 4500 (B) By Curcumin Method 23rd Edition Page No: 4-27 to 4-28: 2017	0.5 mg/L to 100 mg/L
193	CHEMICAL- WATER	Package Drinking Water	Calcium	APHA 3500 (Ca) – B EDTA Titrimetric Methods 23rd Edition Page No: 3-69: 2017	5 mg/L to 1000 mg/L
194	CHEMICAL- WATER	Package Drinking Water	Colour	APHA 2120 (B) Visual Comparison Methods 23rd Edition Page No: 2-6: 2017	5 Hzn to 1000 Hzn
195	CHEMICAL- WATER	Package Drinking Water	Copper	APHA – 3111 (B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No: 3-21: 2017	0.05 mg/L to 100 mg/L
196	CHEMICAL- WATER	Package Drinking Water	Hardness	APHA – 2340 (C) EDTA TITRIMETRIC METHOD 23rd Edition Page No:2-48 to 2-50: 2017	5 mg/L to 1200 mg/L
197	CHEMICAL- WATER	Package Drinking Water	Iron	APHA – 3111 (B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No: 3-80 to 3-81: 2017	0.1 mg/L to 100 mg/L
198	CHEMICAL- WATER	Package drinking water	Lead	APHA – 3111 (B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No:3-20 to 3-22: 2017	0.05 mg/L to 100 mg/L



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name NEWCON CONSULTANTS AND LABORATORIES, 8TH KM STONE, MEERUT ROAD, MORTA, GHAZIABAD, UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5526 Page No. : 27 / 39

Validity 26/07/2019 to 25/07/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
199	CHEMICAL- WATER	Package Drinking Water	Magnesium	APHA 3500 (Mg) – B EDTA Calculation Method 23rd Edition Page No: 3-86: 2017	2 mg/L to 1000 mg/L
200	CHEMICAL- WATER	Package Drinking Water	Manganese	APHA – 3111 (B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No: 3-21: 2017	0.1 mg/L to 4.0 mg/L
201	CHEMICAL- WATER	Package Drinking Water	Nickel	APHA – 3111 (B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No:3-21: 2017	0.1 mg/L to 100 mg/L
202	CHEMICAL- WATER	Package Drinking Water	pH	APHA – 4500 H+B ELECTROMETRIC METHOD 23rd Edition Page No:4-92 to 4-95: 2017	2 to 12
203	CHEMICAL- WATER	Package Drinking Water	Phosphate	APHA 4500 (P-D) PO4 Staneous Chloride Method 23rd Edition Page No:4-163: 2017	0.05 mg/L to 100 mg/L
204	CHEMICAL- WATER	Package Drinking Water	Potassium	APHA 3500 K – (B) Flame Emission Photometric 23rd Edition Page No:3-89: 2017	1 mg/L to 1000 mg/L
205	CHEMICAL- WATER	Package Drinking Water	Silica	APHA 4500 - SiO2 (C) Molybdosilicate Method 23rd Edition Page No 4-174 to 4-176: 2017	1 mg/L to 1000 mg/L



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name NEWCON CONSULTANTS AND LABORATORIES, 8TH KM STONE, MEERUT ROAD, MORTA, GHAZIABAD, UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5526 Page No. : 28 / 39

Validity 26/07/2019 to 25/07/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
206	CHEMICAL- WATER	Package Drinking Water	Sodium	APHA 3500 Na – (B) Flame Emission Photometric 23rd Edition Page No:3-99 to 3-100: 2017	1.0 mg/L to 1000 mg/L
207	CHEMICAL- WATER	Package Drinking Water	Surfactant	APHA – 5540 (C) Anionic Surfactant (M.B.A.S) 23rd Edition Page No: 5-53 to 5-57: 2017	0.5 mg/L to 100 mg/L
208	CHEMICAL- WATER	Package Drinking Water	Total Chromium	APHA – 3111 (B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No: 3-21: 2017	0.05 mg/L to 20 mg/L
209	CHEMICAL- WATER	Package Drinking Water	Total Dissolved Solids (TDS)	APHA – 2540 (C) GRAVIMETRIC METHOD 23rd Edition Page No : 2-69: 2017	10 mg/L to 1000 mg/L
210	CHEMICAL- WATER	Package Drinking Water	Turbidity	APHA – 2130 (B) Nephelometric Method 23rd Edition Page No:2-12 to 2-13: 2017	1 NTU to 100 NTU
211	CHEMICAL- WATER	Package Drinking Water	Zinc	APHA – 3111 (B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No: 3-21: 2017	0.05 mg/L to 10 mg/L
212	CHEMICAL- WATER	Packaged Drinking Water	Alkalinity	APHA – 2320 (B) TITRIMETRIC METHOD 23rd Edition Page No 2-36 to 2-38: 2017	5 mg/L to 750 mg/L



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name NEWCON CONSULTANTS AND LABORATORIES, 8TH KM STONE, MEERUT ROAD, MORTA, GHAZIABAD, UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5526 Page No. : 29 / 39

Validity 26/07/2019 to 25/07/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
213	CHEMICAL- WATER	Packaged Drinking Water	Chloride	APHA – 4500 (B) ARGENTOMETRIC TITRATION METHOD 23rd Edition Page No:4-75: 2017	1 mg/L to 400 mg/L
214	CHEMICAL- WATER	Packaged Drinking Water	Conductivity	APHA – 2510 (B) CONDUCTIVITY METERIC METHOD 23rd Edition Page No: 2-56 to 2-59: 2017	1.0 μ S/cm. to 1000 mS/cm.
215	CHEMICAL- WATER	Packaged Drinking Water	Fluoride	APHA – 4500 F-B,D Spadn's Method 23rd Edition Page No: 4-87 to 4-91: 2017	0.1 mg/L to 10 mg/L
216	CHEMICAL- WATER	Packaged Drinking Water	Free Residual Chlorine	APHA – 4500 (B) IODOMETRIC METHOD 23rd Edition Page No: 4-61 to 4-64: 2017	0.2 mg/L to 5.0 mg/L
217	CHEMICAL- WATER	Packaged Drinking Water	Nitrate	IS 3025(P-34) 1988 RA 2009 Chromotropic Acid: 2009	0.2 mg/L to 1000 mg/L
218	CHEMICAL- WATER	Packaged Drinking Water	Sulphate	APHA – 4500 (E) TURBIDIMETRIC METHOD 23rd Edition Page No:4-191 to 4-200: 2017	10.0 mg/L to 400 mg/L
219	CHEMICAL- WATER	Surface Water	Alkalinity	APHA – 2320 (B) TITRIMETRIC METHOD 23rd Edition Page No 2-36 to 2-38: 2017	5.0 mg/L to 750 mg/L



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name NEWCON CONSULTANTS AND LABORATORIES, 8TH KM STONE, MEERUT ROAD, MORTA, GHAZIABAD, UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5526 Page No. : 30 / 39

Validity 26/07/2019 to 25/07/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
220	CHEMICAL- WATER	Surface Water	Aluminium	APHA 3500 (Al) – B Erichrom Cyanine-R Methods 23rd Edition Page No:3-63 to 3-65: 2017	0.03 mg/L to 100 mg/L
221	CHEMICAL- WATER	Surface Water	Boron	APHA 4500 (B) By Curcumin Method 23rd Edition Page No: 4-27 to 4-28: 2017	0.5 mg/L to 100 mg/L
222	CHEMICAL- WATER	Surface Water	Calcium	APHA 3500 (Ca) – B EDTA Titrimetric Methods 23rd Edition Page No: 3-69: 2017	5 mg/L to 1000 mg/L
223	CHEMICAL- WATER	Surface Water	Chloride	APHA – 4500 (B) ARGENTOMETRIC TITRATION METHOD 23rd Edition Page No:4-75: 2017	1.0 mg/L to 400 mg/L
224	CHEMICAL- WATER	Surface Water	Chromium(Cr+6)	APHA – 3500 – Cr Di Phenyl Carbazide (DPC) Method 23rd Edition Page No: 3-70 to 3-72: 2017	0.01 mg/L to 1.0 mg/L
225	CHEMICAL- WATER	Surface Water	Colour	APHA 2120 (B) Visual Comparison Methods 23rd Edition Page No: 2-6: 2017	5 Hzn to 1000 Hzn
226	CHEMICAL- WATER	Surface Water	Conductivity	APHA – 2510 (B) CONDUCTIVITY METERIC METHOD 23rd Edition Page No: 2-56 to 2-59: 2017	1.0 μ S/cm. to 1000 mS/cm.



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name NEWCON CONSULTANTS AND LABORATORIES, 8TH KM STONE, MEERUT ROAD, MORTA, GHAZIABAD, UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5526 Page No. : 31 / 39

Validity 26/07/2019 to 25/07/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
227	CHEMICAL- WATER	Surface Water	Copper	APHA – 3111 (B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No: 3-21: 2017	0.05 mg/L to 100 mg/L
228	CHEMICAL- WATER	Surface water	Fluoride	APHA – 4500 F-B,D Spadn's Method 23rd Edition Page No: 4-87 to 4-91: 2017	0.1 to 10
229	CHEMICAL- WATER	Surface Water	Free Residual Chlorine	APHA – 4500 (B) IODOMETRIC METHOD 23rd Edition Page No: 4-61 to 4-64: 2017	0.2 mg/L to 5.0 mg/L
230	CHEMICAL- WATER	Surface Water	Hardness	APHA – 2340 (C) EDTA TITRIMETRIC METHOD 23rd Edition Page No: 2-48 to 2-50: 2017	5 mg/L to 1200 mg/L
231	CHEMICAL- WATER	Surface Water	Iron	APHA – 3111 (B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No: 3-80 to 3-81: 2017	0.1 mg/L to 100 mg/L
232	CHEMICAL- WATER	Surface Water	Lead	APHA – 3111 (B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No:3-20 to 3-22: 2017	0.05 mg/L to 100 mg/L
233	CHEMICAL- WATER	Surface Water	Magnesium	APHA 3500 (Mg) – B EDTA Calculation Method 23rd Edition Page No: 3-86: 2017	2 mg/L to 1000 mg/L



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name NEWCON CONSULTANTS AND LABORATORIES, 8TH KM STONE, MEERUT ROAD, MORTA, GHAZIABAD, UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5526 Page No. : 32 / 39

Validity 26/07/2019 to 25/07/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
234	CHEMICAL- WATER	Surface Water	Manganese	APHA – 3111 (B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No: 3-21: 2017	0.1 mg/L to 4.0 mg/L
235	CHEMICAL- WATER	Surface Water	Nickel	APHA – 3111 (B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No:3-21: 2017	0.1 mg/L to 100 mg/L
236	CHEMICAL- WATER	Surface water	Nitrate	IS 3025 (P-34) 1988 RA-2009 Chromotropic Acid: 2009	0.2 mg/L to 1000 mg/L
237	CHEMICAL- WATER	Surface Water	pH	APHA – 4500 H+B ELECTROMETRIC METHOD 23rd Edition Page No:4-92 to 4-95: 2017	2 to 12
238	CHEMICAL- WATER	Surface Water	Phosphate	APHA 4500 (P-D) PO4 Staneous Chloride Method 23rd Edition Page No:4-163: 2017	0.05 mg/L to 100 mg/L
239	CHEMICAL- WATER	Surface Water	Potassium	APHA 3500 K – (B) Flame Emission Photometric 23rd Edition Page No:3-89: 2017	1 mg/L to 1000 mg/L
240	CHEMICAL- WATER	Surface Water	Silica	APHA 4500 - SiO2 (C) Molybdosilicate Method 23rd Edition Page No 4-174 to 4-176: 2017	1.0 mg/L to 1000 mg/L



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name NEWCON CONSULTANTS AND LABORATORIES, 8TH KM STONE, MEERUT ROAD, MORTA, GHAZIABAD, UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5526 Page No. : 33 / 39

Validity 26/07/2019 to 25/07/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
241	CHEMICAL- WATER	Surface Water	Sodium	APHA 3500 Na – (B) Flame Emission Photometric 23rd Edition Page No:3-99 to 3-100: 2017	10 mg/L to 1000 mg/L
242	CHEMICAL- WATER	Surface Water	Sulphate	APHA – 4500 (E) TURBIDIMETRIC METHOD 23rd Edition Page No:4-191 to 4-200: 2017	10.0 mg/L to 400 mg/L
243	CHEMICAL- WATER	Surface water	Surfactant	APHA – 5540 (C) Anionic Surfactant (M.B.A.S) 23rd Edition Page No: 5-53 to 5-57: 2017	0.5 mg/L to 100 mg/L
244	CHEMICAL- WATER	Surface Water	Total Chromium	APHA – 3111 (B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No: 3-21: 2017	0.05 mg/L to 200 mg/L
245	CHEMICAL- WATER	Surface Water	Total Dissolved Solids (TDS)	APHA – 2540 (C) GRAVIMETRIC METHOD 23rd Edition Page No : 2-69: 2017	10.0 mg/L to 10000 mg/L
246	CHEMICAL- WATER	Surface Water	Turbidity	APHA – 2130 (B) Nephelometric Method 23rd Edition Page No:2-12 to 2-13: 2017	1.0 NTU to 100 NTU
247	CHEMICAL- WATER	Surface Water	Zinc	APHA – 3111 (B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No: 3-21: 2017	0.05 mg/L to 10 mg/L



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name NEWCON CONSULTANTS AND LABORATORIES, 8TH KM STONE, MEERUT ROAD, MORTA, GHAZIABAD, UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5526 Page No. : 34 / 39

Validity 26/07/2019 to 25/07/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
248	CHEMICAL- WATER	Swimming Pool Water	Alkalinity	APHA – 2320 (B) TITRIMETRIC METHOD 23rd Edition Page No 2-36 to 2-38: 2017	5.0 mg/L to 750 mg/L
249	CHEMICAL- WATER	Swimming Pool Water	Aluminium	APHA 3500 (Al) – B Erchrom Cyanine-R Methods 23rd Edition Page No:3-63 to 3-65: 2017	0.03 mg/L to 100 mg/L
250	CHEMICAL- WATER	Swimming Pool water	Boron	APHA 4500 (B) By Curcumin Method 23rd Edition Page No: 4-27 to 4-28: 2017	0.5 mg/L to 100 mg/L
251	CHEMICAL- WATER	Swimming Pool Water	Calcium	APHA 3500 (Ca) – B EDTA Titrimetric Methods 23rd Edition Page No: 3-69: 2017	5 mg/L to 1000 mg/L
252	CHEMICAL- WATER	Swimming Pool Water	Chloride	APHA – 4500 (B) ARGENTOMETRIC TITRATION METHOD 23rd Edition Page No:4-75: 2017	1.0 mg/L to 400 mg/L
253	CHEMICAL- WATER	Swimming Pool Water	Chromium (Cr+6)	APHA – 3500 – Cr Di Phenyl Carbazide (DPC) Method 23rd Edition Page No: 3-70 to 3-72: 2017	0.01 mg/L to 1.0 mg/L
254	CHEMICAL- WATER	Swimming Pool Water	Colour	APHA 2120 (B) Visual Comparison Methods 23rd Edition Page No: 2-6: 2017	5 Hzn to 1000 Hzn



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name NEWCON CONSULTANTS AND LABORATORIES, 8TH KM STONE, MEERUT ROAD, MORTA, GHAZIABAD, UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5526 Page No. : 35 / 39

Validity 26/07/2019 to 25/07/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
255	CHEMICAL- WATER	Swimming Pool water	Conductivity	APHA – 2510 (B) CONDUCTIVITY METERIC METHOD 23rd Edition Page No: 2-56 to 2-59: 2017	1.0 μ S/cm. to 1000 mS/cm.
256	CHEMICAL- WATER	Swimming Pool water	Copper	APHA – 3111 (B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No: 3-21: 2017	0.05 mg/L to 100 mg/L
257	CHEMICAL- WATER	Swimming Pool Water	Fluoride	APHA – 4500 F-B,D Spadn's Method 23rd Edition Page No: 4-87 to 4-91: 2017	0.1 mg/L to 10 mg/L
258	CHEMICAL- WATER	Swimming Pool water	Free Residual Chlorine	APHA – 4500 (B) IODOMETRIC METHOD 23rd Edition Page No: 4-61 to 4-64: 2017	0.2 mg/L to 5.0 mg/L
259	CHEMICAL- WATER	Swimming Pool Water	Hardness	APHA – 2340 (C) EDTA TITRIMETRIC METHOD 23rd Edition Page No:2-48 to 2-50: 2017	5 mg/L to 1200 mg/L
260	CHEMICAL- WATER	Swimming Pool water	Iron	APHA – 3111 (B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No: 3-80 to 3-81: 2017	0.1 mg/L to 100 mg/L



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name NEWCON CONSULTANTS AND LABORATORIES, 8TH KM STONE, MEERUT ROAD, MORTA, GHAZIABAD, UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5526 Page No. : 36 / 39

Validity 26/07/2019 to 25/07/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
261	CHEMICAL- WATER	Swimming Pool water	Lead	APHA – 3111 (B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No:3-20 to 3-22: 2017	0.05 mg/L to 100 mg/L
262	CHEMICAL- WATER	Swimming Pool water	Magnesium	APHA 3500 (Mg) – B EDTA Calculation Method 23rd Edition Page No: 3-86: 2017	2 mg/L to 1000 mg/L
263	CHEMICAL- WATER	Swimming pool water	Manganese	APHA – 3111 (B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No: 3-21: 2017	0.1 mg/L to 4.0 mg/L
264	CHEMICAL- WATER	Swimming Pool water	Nickel	APHA – 3111 (B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No:3-21: 2017	0.1 mg/L to 100 mg/L
265	CHEMICAL- WATER	Swimming Pool water	Nitrate	IS 3025(Part 34) 1988 Chromotropic Acid, RA: 2009	0.2 mg/L to 1000 mg/L
266	CHEMICAL- WATER	Swimming Pool Water	pH	APHA – 4500 H+B ELECTROMETRIC METHOD 23rd Edition Page No:4-92 to 4-95: 2017	2 to 12
267	CHEMICAL- WATER	Swimming Pool water	Phosphate	APHA 4500 (P-D) PO4 Staneous Chloride Method 23rd Edition Page No:4-163: 2017	0.05 mg/L to 100 mg/L



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name NEWCON CONSULTANTS AND LABORATORIES, 8TH KM STONE, MEERUT ROAD, MORTA, GHAZIABAD, UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5526 Page No. : 37 / 39

Validity 26/07/2019 to 25/07/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
268	CHEMICAL- WATER	Swimming Pool water	Potassium	APHA 3500 K – (B) Flame Emission Photometric 23rd Edition Page No:3-89: 2017	1 mg/L to 1000 mg/L
269	CHEMICAL- WATER	Swimming Pool Water	Silica	APHA 4500 - SiO ₂ (C) Molybdosilicate Method 23rd Edition Page No 4-174 to 4-176: 2017	1.0 mg/L to 1000 mg/L
270	CHEMICAL- WATER	Swimming Pool water	Sodium	APHA 3500 Na – (B) Flame Emission Photometric 23rd Edition Page No:3-99 to 3-100: 2017	10 mg/L to 1000 mg/L
271	CHEMICAL- WATER	Swimming Pool water	Sulphate	APHA – 4500 (E) TURBIDIMETRIC METHOD 23rd Edition Page No:4-191 to 4- 200: 2017	10 mg/L to 400 mg/L
272	CHEMICAL- WATER	Swimming Pool Water	Surfactant	APHA – 5540 (C) Anionic Surfactant (M.B.A.S) 23rd Edition Page No: 5-53 to 5-57: 2017	0.5 mg/L to 100 mg/L
273	CHEMICAL- WATER	Swimming Pool Water	Total Chromium	APHA – 3111 (B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No: 3-21: 2017	0.05 mg/L to 200 mg/L
274	CHEMICAL- WATER	Swimming Pool water	Total Dissolved Solids (TDS)	APHA – 2540 (C) GRAVIMETRIC METHOD 23rd Edition Page No : 2-69: 2017	10.0 mg/L to 10000 mg/L



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name NEWCON CONSULTANTS AND LABORATORIES, 8TH KM STONE, MEERUT ROAD, MORTA, GHAZIABAD, UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5526 Page No. : 38 / 39

Validity 26/07/2019 to 25/07/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
275	CHEMICAL- WATER	Swimming Pool water	Turbidity	APHA – 2130 (B) Nephelometric Method 23rd Edition Page No:2-12 to 2-13: 2017	5.0 NTU to 100 NTU
276	CHEMICAL- WATER	Swimming Pool water	Zinc	APHA – 3111 (B) Direct – Air – Acetylene Flame Methods 23rd Edition Page No: 3-21: 2017	0.05 mg/L to 10 mg/L



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name NEWCON CONSULTANTS AND LABORATORIES, 8TH KM STONE, MEERUT ROAD, MORTA, GHAZIABAD, UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5526 Page No. : 39 / 39

Validity 26/07/2019 to 25/07/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
Site Facility					
1	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Noise Level (Excluding Vibration)	Ambient Noise Testing (Leq)	NCL/AIR/STP 20 02 January -Based on CPCB Guideline: 2016	30 dB (A) Leq to 130 dB (A) Leq
2	CHEMICAL-ATMOSPHERIC POLLUTION	DG Noise	Source Noise Testing dB(A)	IS 8528 P 10 1998: 2012	30 dB (A) to 130 dB (A)

'NOTE- The Laboratory has demonstrated competence for the stated scope for WATER. This however does not fully cover the specification requirements of BIS for the Packaged Drinking Water as per IS 14543 and the Packaged Natural Mineral Water IS 13428.'