National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : VARSHINIS EN-TEST LABORATORIES (P) LTD., OLD NO: 279, NEW NO: 869, II FLOOR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6674 **Page No** 1 of 7

Validity 07/01/2023 to 06/01/2025 **Last Amended on** 28/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Ammonia	IS 5182 (Part 25)
2	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Carbon monoxide	IS 5182 (Part 10) (Indicator tube method)
3	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Lead as Pb	IS 5182 (Part 22)
4	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Oxides of Nitrogen as NOx	IS 5182 (Part 6)
5	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Particulate matter (Particle Size less than 10µm) or PM10	IS 5182 (Part 23)
6	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient air	Sulphur dioxide as SO2	IS 5182 (Part 2)
7	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Noise	Leq	IS 9989
8	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Noise	Source Noise Level (for diesel generator)	VEL/SOP/62, Issue No: 01,Issue Date: 01-02-2019
9	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Carbon dioxide (CO2)	IS 13270
10	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Carbon monoxide (CO)	IS 13270
11	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Oxides of Nitrogen as NOx	IS 11255 (Part 7)
12	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Oxygen(O2)	IS 13270
13	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Particulate matter (PM)	IS 11255 (Part 1)
14	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Stack Temperature	IS 11255 (Part 3)
15	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Stack Velocity	IS 11255 (Part 3)
16	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Sulphur dioxide as SO2	IS 11255 (Part 2)
17	CHEMICAL- ATMOSPHERIC POLLUTION	Stack emission	Volume of flue gas discharge	IS 11255 (Part 3)
18	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Acidity as CaCO3	IS 3025 (Part 22)

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Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-6674	**Page No**	2 of 7
Validity	07/01/2023 to 06/01/2025	**Last Amended on**	28/01/2023

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19	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Ammoniacal -Nitrogen as NH3 - N	IS 3025 (Part 34) (Titrimetric method)
20	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Bicarbonates (as HCO3)	IS 3025 (Part 51) (Calculation Method)
21	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Bio-chemical oxygen demand (3 days at 27°C)	IS 3025 (Part 44)
22	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Boron as B	APHA 23rd Edition 4500 - B / B
23	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Cadmium as Cd	APHA 23rd Edition 3500 - Cd
24	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Calcium as Ca	APHA 23rd Edition 3500-Ca - B
25	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Calcium Hardness as CaCO3	APHA 23rd Edition 3500 - Ca –B
26	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Chemical Oxygen Demand(COD)	APHA 23rd Edition 5220-B
27	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Chloride as Cl	APHA 23rd Edition 4500-Cl- / B
28	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Chlorine Residual as Cl	APHA 23rd Edition 4500 - Cl / B
29	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Color	IS 3025 (Part 4)
30	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Conductivity @ 25°C	IS 3025 (Part 14)
31	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Copper as Cu	APHA 23rd Edition 3500 - Cu / B
32	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Cyanide as CN	IS 3025 (Part 27)
33	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Dissolved Oxygen	IS 3025 (Part 38)
34	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Fixed Solids	IS 3025 (Part 18)
35	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Fluoride as F	APHA 23rd Edition 4500- F /B, D
36	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Free Ammonia as NH3	APHA 23rd Edition ,4500-NH3-F
37	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Hexavalent Chromium (as Cr6+)	IS 3025 (Part 52)

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6674 **Page No** 3 of 7

Validity 07/01/2023 to 06/01/2025 **Last Amended on** 28/01/2023

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38	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Iron as Fe	APHA 23rd Edition 3500 - Fe / B
39	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Lead as Pb	APHA 23rd Edition 3500 - Pb / B (Dithizone method)
40	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Magnesium as Mg	APHA 23rd Edition 3500 - Mg –B
41	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Magnesium Hardness as CaCO3	APHA 23rd Edition 3500 - Mg –B
42	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Mixed Liquor suspended solids(MLSS)	APHA 23rd Edition,2540D
43	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Nickel as Ni	IS 3025 (Part 54)
44	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Nitrates (as NO3)	VEL/SOP/20,Issue No:01,Issue date: 01-02-2019
45	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Nitrites as NO2	IS 3025 (Part 34) (NEDA method)
46	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Odour	IS 3025 (Part 5)
47	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Oil & Grease	IS 3025 (Part 39)
48	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Particle size of suspended solids (using 850 micron sieve)	SOP No 51 Issue No 01 Issue Month February Issue Date 01
49	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Percent Sodium	SOP No 48 Issue No 01 Issue Month February Issue Date 01
50	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	pH @ 25°C	IS 3025 (Part 11)
51	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Phenolic Compounds	APHA 23rd Edition,5530-D
52	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Potassium as K	IS 3025 (Part 45)
53	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Reactive Silica as SiO2	APHA 23rd Edition 4500- SiO2 / C
54	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Residual sodium carbonate	IS 11624
55	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Settleable Solids	APHA 23rd Edition,2540-F (Volumetric method)
56	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Sludge Volume Index (SVI)	APHA 23rd Edition 2710 – D

SCOPE OF ACCREDITATION

Laboratory Name : VARSHINIS EN-TEST LABORATORIES (P) LTD., OLD NO: 279, NEW NO: 869, II FLOOR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6674 **Page No** 4 of 7

Validity 07/01/2023 to 06/01/2025 **Last Amended on** 28/01/2023

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57	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Sodium Adsorption Ratio	IS 11624
58	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Sodium as Na	IS 3025 (Part 45)
59	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Sulphate as SO4	IS 3025 (Part 24/Sec1)
60	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Sulphide	APHA 23rd Edition,4500-S/F
61	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Temperature	IS 3025 (Part 9)
62	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Total Alkalinity as CaCO3	IS 3025 (Part 23)
63	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Total Chromium as Cr	IS 3025 (Part 52)
64	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Total Dissolved Solids	IS 3025 (Part 16)
65	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Total Hardness (EDTA) as CaCO3	APHA 23rd Edition, 2340 – C
66	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Total Kjeldahal Nitrogen as N	APHA 23rd Edition 4500-Norg A,B& 4500 NH3 -B
67	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Total Phosphorus as PO4	APHA 23rd Edition 4500- P / D
68	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Total Solids	IS 3025 (Part 15)
69	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Total Suspended Solids	IS 3025 (Part 17)
70	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Turbidity as NTU	IS 3025 (Part 10)
71	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Volatile Solids	IS 3025 (Part 18)
72	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater	Zinc as Zn	APHA 23rd Edition 3500- Zn / B
73	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (effluents/Sewage)	Total Dissolved Phosphates as P	APHA 23rd Edition,4500-P/ D
74	CHEMICAL- POLLUTION & ENVIRONMENT	Wastwater	Carbonates (as CO3)	IS 3025 (Part 51) (Calculation Mathod)
75	CHEMICAL- POLLUTION & ENVIRONMENT	Wastwater	Manganese as Mn	APHA 23rd Edition 3500 - Mn / B

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Laboratory Name : VARSHINIS EN-TEST LABORATORIES (P) LTD., OLD NO: 279, NEW NO: 869, II FLOOR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6674 **Page No** 5 of 7

Validity 07/01/2023 to 06/01/2025 **Last Amended on** 28/01/2023

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76	CHEMICAL- WATER	Industrial water	Acidity (as CaCO3)	IS 3025 (Part 22)
77	CHEMICAL- WATER	Construction Water	Chloride as Cl	IS 3025 (Part 32)
78	CHEMICAL- WATER	Construction Water	Inorganic Solids	IS 3025 (Part 18)
79	CHEMICAL- WATER	Construction Water	Organic Solids	IS 3025 (Part 18)
80	CHEMICAL- WATER	Construction Water	pH @ 25°C	IS 3025 (Part 11)
81	CHEMICAL- WATER	Construction Water	Sulphate as SO4	IS 3025 (Part 24 Sec/1)
82	CHEMICAL- WATER	Construction Water	Suspended matter	IS 3025 (Part 17)
83	CHEMICAL- WATER	Construction Water	Volume of 0.02 N H2SO4 required to neutralize 100 ml sample using Methyl Orange indicator	IS 3025 (Part 23)
84	CHEMICAL- WATER	Construction Water	Volume of 0.02 N NaOH required to neutralize 100 ml sample using Phenolphthalein indicator	IS 3025 (Part 22)
85	CHEMICAL- WATER	Drinking Water	Calcium as Ca	APHA 23rd Edition, 3500-Ca - B
86	CHEMICAL- WATER	Drinking Water	Calcium Hardness as CaCO3	APHA 23rd Edition, 3500 - Ca –B
87	CHEMICAL- WATER	Drinking Water	Chloride (as Cl)	APHA 23rd Edition, 4500-Cl- / B
88	CHEMICAL- WATER	Drinking Water	Chlorine Residual (as Cl)	APHA 23rd Edition, 4500 - Cl / B
89	CHEMICAL- WATER	Drinking Water	Color	IS 3025 (Part 4)
90	CHEMICAL- WATER	Drinking Water	Conductivity @ 25 °C	IS 3025 (Part 14)
91	CHEMICAL- WATER	Drinking Water	Fluoride (as F)	APHA 23rd Edition, 4500- F / D
92	CHEMICAL- WATER	Drinking Water	Magnesium as Mg	APHA 23rd Edition, 3500-Mg-B
93	CHEMICAL- WATER	Drinking Water	Magnesium Hardness as CaCO3	APHA 23rd Edition, 3500 - Mg –B
94	CHEMICAL- WATER	Drinking Water	Nitrates (as NO3)	VEL/SOP/20, Issue No:01, Issue date: 01-02-2019
95	CHEMICAL- WATER	Drinking Water	Odor	IS 3025 (Part 5)
96	CHEMICAL- WATER	Drinking Water	pH @ 25°C	IS 3025 (Part 11)
97	CHEMICAL- WATER	Drinking Water	Sulphate (as SO4)	IS 3025 (Part 24/Sec1)
98	CHEMICAL- WATER	Drinking Water	Total Alkalinity as CaCO3	IS 3025 (Part 23)
99	CHEMICAL- WATER	Drinking Water	Total Dissolved Solids	IS 3025 (Part 16)

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Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-6674	**Page No**	6 of 7
Validity	07/01/2023 to 06/01/2025	**Last Amended on**	28/01/2023

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100	CHEMICAL- WATER	Drinking Water	Total Hardness (EDTA) as CaCO3	APHA 23rd Edition, 2340-C
101	CHEMICAL- WATER	Drinking Water	Turbidity	IS 3025 (Part 10)
102	CHEMICAL- WATER	Ground Water	Calcium as Ca	APHA 23rd Edition 3500-Ca - B
103	CHEMICAL- WATER	Ground Water	Magnesium as Mg	APHA 23rd Edition 3500 - Mg –B
104	CHEMICAL- WATER	Ground Water	Magnesium Hardness as CaCO3	APHA 23rd Edition 3500 - Mg –B
105	CHEMICAL- WATER	Ground water	Total Hardness (EDTA) (as CaCO3)	APHA 23rd Edition 2340 – C
106	CHEMICAL- WATER	Ground Water	Calcium Hardness as CaCO3	APHA 23rd Edition 3500 - Ca –B
107	CHEMICAL- WATER	Ground Water	Chloride as Cl	APHA 23rd Edition 4500-Cl- / B
108	CHEMICAL- WATER	Ground Water	Chlorine Residual as Cl	APHA 23rd Edition 4500 - Cl / B
109	CHEMICAL- WATER	Ground Water	Color	IS 3025 (Part 4)
110	CHEMICAL- WATER	Ground Water	Conductivity @ 25°C	IS 3025 (Part 14)
111	CHEMICAL- WATER	Ground Water	Fluoride as F	APHA 23rd Edition 4500- F / D
112	CHEMICAL- WATER	Ground Water	pH @ 25 °C	IS 3025 (Part 11)
113	CHEMICAL- WATER	Ground Water	Sulphate as SO4	IS 3025 (Part 24/Sec 1)
114	CHEMICAL- WATER	Ground Water	Total Alkalinity (as CaCO3)	IS 3025 (Part 23)
115	CHEMICAL- WATER	Ground Water	Total Dissolved Solids	IS 3025 (Part 16)
116	CHEMICAL- WATER	Ground Water	Nitrates (NO3)	VEL/SOP/20, Issue No. 01, Issue Date: 01-02-2019
117	CHEMICAL- WATER	Ground Water	Odour	IS 3025 (Part 5)
118	CHEMICAL- WATER	Ground Water	Turbidity	IS 3025 (Part 10)
119	CHEMICAL- WATER	Industrial water	Carbonate Hardness (as CaCO3)	VEL/SOP/16 Issue No. 01, Issue Date: 01-02-2019
120	CHEMICAL- WATER	Industrial water	Non-Carbonate Hardness as CaCO3	VEL/SOP/16, Issue No. 01, Issue Date: 01-02-2019
121	CHEMICAL- WATER	Industrial water	Potassium as K	IS 3025 (Part 45)
122	CHEMICAL- WATER	Industrial water	Reactive Silica as SiO2	APHA 23rd Edition 4500- SiO2 / C
123	CHEMICAL- WATER	Industrial water	Sodium as Na	IS 3025 (Part 45) (Flame Photometry method)
124	CHEMICAL- WATER	Industrial water	Total Solids	IS 3025 (Part 15)

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6674 **Page No** 7 of 7

Validity 07/01/2023 to 06/01/2025 **Last Amended on** 28/01/2023

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125	CHEMICAL- WATER	Industrial Water	Total Suspended Solids	IS 3025 (Part 17)
126	CHEMICAL- WATER	Industrial water	Bicarbonates as HCO3	IS 3025 (Part 51)
127	CHEMICAL- WATER	Industrial water	Carbonates (as CO3)	IS 3025 (Part 51)
128	CHEMICAL- WATER	Industrial water	Methyl orange Alkalinity as CaCO3	IS 3025 (Part 23)
129	CHEMICAL- WATER	Industrial water	Nitrites (as NO2)	IS 3025 (Part 34)
130	CHEMICAL- WATER	Industrial water	Percent sodium	VEL/SOP/48, Issue No. 01, Issue Date: 01.02.2019
131	CHEMICAL- WATER	Industrial Water	pH @ 25°C	IS 3025 (Part 11)
132	CHEMICAL- WATER	Industrial water	Phenolphthalein Alkalinity as CaCO3	IS 3025 (Part 23)
133	CHEMICAL- WATER	Industrial water	Residual Sodium carbonate	IS 11624
134	CHEMICAL- WATER	Industrial water	Sodium Adsorption Ratio (SAR)	IS 11624
135	CHEMICAL- WATER	Industrial Water	Temperature	IS 3025 (Part 9)
136	CHEMICAL- WATER	Industrial Water	Turbidity	IS 3025 (Part 10)
137	CHEMICAL- WATER	Reagent water	Color retention of KMnO4@27 °C	IS 1070 (Annexure A)
138	CHEMICAL- WATER	Reagent water	Conductivity @25°C	IS 3025 (Part 14)
139	CHEMICAL- WATER	Reagent water	pH @25°C	IS 3025 (Part 11)
140	CHEMICAL- WATER	Reagent water	Silica as SiO2	APHA 23rd Edition,4500-SiO2/D
141	CHEMICAL- WATER	Reagent Water	Total Solids	IS 3025 (Part 15)