

## IHS Laboratory: Catalogue of Water Quality Tests, Effective from 25 Apr 2022:

### Test Packages

Sl	SvCd	Test Package	Physical & Sensory	Chemical	Microbial	Sample	Rs
1	BCT	Bacteria-Coliform Tests			MPN (Total coliforms), TTC & E.coli.	250 ml SBT	700
2	BPT	Basic Potability Tests	Appearance, True Color, Odour, pH Turbidity & TDSE.	Total Hardness, Calcium, Magnesium; Ammonia, Nitrites, Nitrates; & Fluoride.	MPN (Total coliforms), TTC & E.coli.	1 Ltr (CBWS) + 250 ml (SBT)	1,100
3	CPT	Complete Potability Tests	Appearance, True Color, Odour, pH Turbidity, EC & TDSG.	Alkalinity: P-Alk, T-Alk, CO <sub>3</sub> , HCO <sub>3</sub> & OH; Hardness: Total, Ca, Mg, CO <sub>3</sub> hardness, Non-CO <sub>3</sub> hardness; Ammonia, NO <sub>2</sub> & NO <sub>3</sub> ; Chloride; Fluoride; & Sulfate.	MPN (Total coliforms), TTC & E.coli.	1 Ltr (CBWS)+ 250 ml (SBT)	1,500
4	GPT	Groundwater Potability Tests	Appearance, True Color, Odour, pH, Turbidity, EC & TDSG.	Alkalinity: P-Alk, T-Alk, CO <sub>3</sub> , HCO <sub>3</sub> & OH; Hardness: Total, Ca, Mg, CO <sub>3</sub> hardness, Non-CO <sub>3</sub> hardness; Nitrogen: Ammonia, NO <sub>2</sub> & NO <sub>3</sub> ; Chloride; Fluoride; Sulfate; Iron & Mn.	MPN (Total coliforms), TTC & E.coli.	1 Ltr (CBWS)+ 250 ml (SBT)	1,800
5	BWP	Bottled Water Potability	Appearance, True Color, Odour, pH, Turbidity, EC & TDSE.	Total Alkalinity, Total Hardness, Calcium, Magnesium, Nitrite, Nitrate, Chloride, Fluoride, Sulfate, Iron, Manganese, Sodium & Potassium.	MPN (Total coliforms), TTC, & E.coli	1 Ltr (CBWS)+ 250 ml (SBT)	1,600
6	ROP	RO product water Profile	Appearance, True Color, Odour, pH, Turbidity, EC & TDSE.	Total Alkalinity, Total Hardness, Calcium, Magnesium, Nitrite, Nitrate, Chloride, Fluoride, Sulfate, Iron, Manganese, Sodium & Potassium.	MPN (Total coliforms), TTC, E.coli, & AMC.	1 Ltr (CBWS) + 250 ml (SBT)	1,800

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7	SBP	Surface water Basic Profile	Appearance, True Color, Odour, pH, Turbidity, TSS, EC & TDSG.	Hardness, Ca & Mg; Nitrogen: Ammonia, NO <sub>2</sub> & NO <sub>3</sub> , Chloride; Sulfate, Phosphates, Sodium, Potassium; Oil & grease; Sodium Adsorption Ratio (SAR)	MPN (Tot coliforms), TTC & E.coli.	2x1 Ltrs (CBWS) + 250 ml (SBT)	2,100
8	SOD	Surface water Oxygen Demand		DO, COD, BOD	None	2x300 ml (BODB) + 500 ml (CBWM)	1,000
9	BQT	Basic Quality Tests	Appearance, True Color, Odour, pH, Turbidity & TDSE.	Hardness: Total, Calcium & Magnesium; Nutrients: Ammonia, Nitrites & Nitrates; Fluoride.	None	1 Ltr (CBWS)	800
10	TQT	Tapwater Quality Tests	Appearance, True Color, Odour, pH, Turbidity & TDSG.	Alkalinity: P-Alk, T-Alk, CO <sub>3</sub> , HCO <sub>3</sub> & OH; Hardness: Total, Ca & Mg; Ammonia, NO <sub>2</sub> & NO <sub>3</sub> ; CLD; FLD & Sulfate(SO <sub>4</sub> ).	None	1 Ltr (CBWS)	1,200
11	GQT	Groundwater chemical Quality Tests	Appearance, True Color, Odour, pH, Turbidity, EC & TDSG	Alkalinity: P-Alk, T-Alk, CO <sub>3</sub> , HCO <sub>3</sub> & OH; Hardness: Total, Ca&Mg; Ammonia, NO <sub>2</sub> & NO <sub>3</sub> ; CLD; FLD; SO <sub>4</sub> ; Iron & Mn.	None	1 Ltr (CBWS)	1,500
12	SQT	Surfacewater chemical Quality Tests	Appearance, True Color, Odour, pH, Turbidity, TSS, EC & TDSG.	Hardness, Ca & Mg; Nitrogen: Ammonia, NO <sub>2</sub> & NO <sub>3</sub> , Chloride; Sulfate, Phosphates, Sodium, Potassium; Oil & grease; Sodium Adsorption Ratio (SAR)	None	2x1L (CBWS)	1,800

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13 BSV	Basic System Vulnerability paired sample tests.	Appearance, True Color, Odour, pH, Turbidity & TDSG.	Ammonia, Nitrites & Nitrates; Chlorides.	MPN (Total coliforms), TTC & E.coli.	1 Ltr (CBWS) + 250ml (SBT) for each sample - A & B	2,000 / Both samples
14 DRF	Dialysis-medical RO - Feed water	Appearance, True Color, Odor, pH, Turbidity, EC & TDSG.	Total Chlorine; Hardness: Total, Ca & Mg; Sodium, Potassium; NO <sub>3</sub> -N, Fluoride, Sulfates, & Iron (Fe).	MPN (Total coliforms), TTC & E.coli.	1 Ltr (CBWS) + 250ml (SBT)	1,500
15 DLB	DiaLysis water Basics	Appearance, True Color, Odor, pH, Turbidity, EC & TDSE.	Total Chlorine; Hardness: Total, Ca & Mg; Sodium, Potassium; NO <sub>3</sub> -N, Fluoride & Sulfate.	Total Viable Count (TVC)	1L (CBWS)+ 250ml (SBT)	1,600
16 DLC	Dialysis water chemical Contaminants	None	Aluminium, Copper, Lead & Zinc.	None	1x1L (CBWS)	3,000
17 BET	Bacterial Endotoxin Test	None	None	Bacteriological Endotoxin (LAL) Assay	14 ml in NPT.	5,000
18 PST	Swimming Poolside Tests	pH, Water Temp. & Clarity.	Free, Combined & Total Chlorine	Core city (Hyd District)* GHMC area*		1,200 1,500

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19 PWC	Pool Water Chemistry	Color & Odour, Turbidity; pH & Elec. Conductivity & TDSG.	Chloramines (Combined Chlorine), Alkalinity: P-Alk, T-Alk, CO <sub>3</sub> , HCO <sub>3</sub> & OH; Hardness: Total, Ca & Mg; Nutrients: Ammonia, NO <sub>2</sub> & NO <sub>3</sub> , Phosphates; Cu, Fe & Mn.	None	2x1L (ABWS)	2,000
20 PWB	Pool Water Bacteriological Analysis for Coliforms			MPN (Total coliforms), TTC & E.coli.	250 ml (SBTE)	700
21 STE	Sewage Treatment plant Effluent	Color, Odor, pH, TSS, TDSG, Total Solids.	BOD, COD, Phosphates, Total Oil & Grease	MPN(TC), TTC, Ecoli	2x1L (CBWS) + 300 ml (BODB) + 250 ml (SBT)	2,250
22 ETB	Effluent Tests - Basic	pH, & TDSG.	BOD, COD, Total Oil & Grease	None	2x1L (CBWS) + 300 ml (BODB)	1,600
23 EWT	Effluent Water Tests	Color, Odor, TSS, pH & TDSG.	BOD, COD, Phosphates, Sulfates, Total Oil & Grease	None	2x1L (CBWS) + 300 ml (BODB)	2,000
24 WBC	Water for Building & Construction	TSS, pH, EC, TDSG	Acidity, Alkalinity, Chlorides, Sulphates	None	1L (CBWS)	1,000
25 WCT	Water Corrosivity Tests	pH, EC & TDSG.	Alkalinity: P-Alk, T-Alk, CO <sub>3</sub> , HCO <sub>3</sub> & OH; Hardness, Total & Calcium; Chloride & Sulfate; Langelier Index, Potential to Promote Galvanic Corrosion (PPGC) Ratio & Larson Ratio.	None	1 L (CBWS)	900

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### Single Or Limited Parameter Tests

Sl	SvCd	Test Service	General	Chemical	Microbial	Sample	Rs
26	ATC	Appearance & True Colour		None	None	0.5L (CBWM)	100
27	ODR	Odour	Smell		None	0.5L (CBWM)	50
28	NTU	Turbidity	Turbidity	None	None	0.5L (CBWM)	100
29	TSS	TSS	Total suspended solids	None	None	0.5L (CBWM)	200
30	POH	pH	pH Value	None	None	0.5L (CBWM)	60
31	ECH	EC & pH	Electrical Conductivity (Salinity) & pH Or TDS-Est & pH		None	0.5L (CBWM)	100
32	TDSE	TDS Estimate	Electrical conductivity (EC) or EC based estimate of TDS range.		None	0.5L (CBWM)	60
33	TDSG	TDS Quantitative	Gravimetry based quantity of Total Dissolved Solids (TDS)		None	0.5L (CBWM)	200
34	TSW	Total solids in water	TSS + TDSG	None	None	0.5L (CBWM)	400
35	ACD	Acidity	None	Acidity	None	0.5L (CBWM)	300
36	ALK	Alkalinity	None	Alkalinity	None	0.5L (CBWM)	300
37	THW	Tot Hardness	None	Total Water Hardness (TWH)	None	0.5L (CBWM)	250
38	THM	TH,Ca & Mg	None	TWH & hardness minerals (Calcium, Magnesium)	None	0.5L (CBWM)	450
39	THC	Total Hardness & Components	None	Total Hardness, Carbonate & Non-carbonate Hardness	None	0.5L (CBWM)	550
40	NH3	Ammonia	None	Ammonia as NH <sub>3</sub> /4-N	None	0.5L (CBWM)	350
41	NO2	Nitrites	None	Nitrites as NO <sub>2</sub> -N	None	0.5L (CBWM)	250

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42	NO3	Nitrates	None	Nitrates as NO <sub>3</sub> & NO <sub>3</sub> -N	None	0.5L (CBWM)	250
43	NNW	Nitrite & Nitrate in Water		Nitrite as NO <sub>2</sub> -N and Nitrates as NO <sub>2</sub> -N and Nitrates as NO <sub>3</sub> & NO <sub>3</sub> -N	None	0.5L (CBWM)	400
44	ANN	NH <sub>3</sub> ,NO <sub>2</sub> ,NO <sub>3</sub>		Ammonia as NH <sub>3/4</sub> -N, Nitrite as NO <sub>2</sub> -N and Nitrates as NO <sub>2</sub> -N and Nitrates as NO <sub>3</sub> & NO <sub>3</sub> -N	None	0.5L (CBWM)	600
45	CLD	Chloride	None	Chloride - Argentometric Method	None	0.5L (CBWM)	250
46	FLDQ	Fluoride - Quantitative	None	Quantitative spectrophotometry for Fluorides.	None	0.5L (CBWM)	300
47	IRN	Iron	None	Quantitative spectrophotometry for Iron (Fe)	None	0.5L (CBWM)	250
48	MNG	Manganese	None	Quantitative spectrophotometry Manganese	none	0.5L (CBWM)	250
49	IMN	Iron & Mn	None	Quantitative spectrophotometry, Fe & Manganese	None	0.5L (CBWM)	400
50	PO4	Phosphates	None	Phosphates	None	0.5L (CBWM)	300
51	SO4	Sulfates	None	Sulfates	None	0.5L (CBWM)	200
52	SIW	Silica in Water	None	Silica in water	None	0.5L (CBWM)	250
53	NAT	Sodium	None	Sodium (Na)	None	0.5L (CBWM)	200
54	KAL	Potassium	None	Potassium (K)	None	0.5L (CBWM)	200
55	NAK	Na + K	None	Sodium ( <b>Na</b> ) and Potassium (K)	None	0.5L (CBWM)	300
56	ARS	Arsenic	None	Semiquantitative analytical kit photometric estimate of Arsenic	None	0.5L (CBWM)	500

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57	DOT	Dissolved O2	None	Dissolved Oxygen by Titration (Winkler) method.	None	300 ml BOD bottle	250
58	COD	COD	None	Chemical Oxygen Demand	None	2x1L (CBWS)	400
59	BOD	BOD	None	Biochemical Oxygen Demand	None	300 ml BODB	500
60	TOG	Oil & Grease	None	Total Oil & Grease	None	0.5L (CBWM)	300
61	SPC	Standard Plate Count		Using Nutrient Agar & 24h incubation at 37°C (IS1622).		250 ml (SBT)	300
62	AMC	Aerobic Microbial Count		Using Plate count agar & 24h incubation at 37°C (IS14543)		250 ml (SBT)	300
63	HPC	Hetrotrophic Plate Count		Using Plate count agar & 72h incubation at 30°C (IS5402).		250 ml (SBT)	400
64	TVC	Total Viable Count		Using Tryptic soy agar & 48h incubation at 35-37°C (ISO23500-3).		250 ml (SBT)	400
65	<sup>MPNTC</sup>	MPN(TC)	None	Most Probable Number (Total coliforms)		250 ml (CSB/SBT)	500
66	<sup>MPNTTC</sup>	MPN(TTC)	None	Most Probable Number (Thermotolerant coliforms)		250 ml (CSB/SBT)	500
67	<sup>MPNEC</sup>	MPN( <i>E. coli</i> )	None	Most Probable Number ( <i>E. coli</i> )		250 ml (CSB/SBT)	500

### Water Sample-Collection Bottles (Prepared Bottles for Collection of Water Samples)

Sl	SBCd	Bottle Name	Details	Volume	Rs
68	CSB	Clean Sterile Bottle	Clean sterile rigid polypropylene bottle without any additive.	250 ml	50
69	SBT	Sterile Bottle with Thiosulfate	Sterile rigid polypropylene bottle with sodium thiosulfate to neutralise chlorine, for bacteriological analysis (coliform test) of water.	250 ml	50
70	SBTE	Sterile Bottle with Extra Thiosulfate	Sterile polypropylene bottle with extra sodium thiosulfate to neutralise excess chlorine, for bacteriological analysis of pool water.	250 ml	50



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Sl SBCd	Bottle Name	Details	Volume	Rs
71 NPT	Non Pyrogenic Tube	Non-pyrogenic glass tube to collect water sample for bacterial endotoxin test (BET) i.e. LAL assay.	14 ml	100
72 CBWS	Clear Bottle for Water sample - standard volume, 1000ml (1L)	Clean and dry clear polypropylene bottle to collect water sample for physical and chemical analysis, 1 litre	1 L	100
73 CBWM	Clear Bottle for Water sample - Medium volume, 500 ml	Clean and dry clear polypropylene bottle to collect water sample for physical and chemical analysis, ½ litre	0.5L	100
74 ABWS	Amber Bottle for Water sample - standard volume, 1L	Amber colour, clean & dry polypropylene bottle to collect water sample for chemical analysis, 1000 ml (1L).	1 L	150
75 BODB	BOD Bottle	Clean and dry stoppered glass bottle to collect water sample for testing dissolved oxygen and oxygen demand.	300 ml	500

Bottle deposits will be adjusted towards test service charges. No separate charge for bottles, if concerned test charges are paid in advance while collecting the bottle.

### Onsite Sample Collection

Sl SvCd	Collection Service Name	Details	1 <sup>st</sup> Sample	2 <sup>nd</sup> & 3 <sup>rd</sup> Samples
76 CSC	Core city Sample Collection	Within Hyderabad District Limits.	300	100
77 GSC	Greater Hyd. Sample Collection	Outside Hyderabad District but within GHMC Limits*	500	100
78 OSC	Other Area Sample Collection	Outside GHMC limits	Special Estimate	

For 4 or more samples from the same site, each block of up to 3 samples is treated as separate for computation of sample collection charge. Swimming pool samples for PWC and PWB ordered along with Poolside test (PST) are treated as 2<sup>nd</sup> and 3<sup>rd</sup> sample.

Date: 25-04-2022



*U. Srinivas*  
Director 25/4/2022

