

Laboratory **Regional Advance Water Testing Laboratory, Department of Water Supply and Sanitation, Water Works Complex, Phase-2, SAS Nagar, Punjab**

Accreditation Standard **ISO/IEC 17025: 2005**

Certificate Number **TC-6388**

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Validity **12.08.2018 to 11.08.2020**

Last Amended on --

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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**CHEMICAL TESTING**

I.	RESIDUES IN WATER		
1.	Water	<b>Trace Metal Elements</b>	
		Aluminium (Al)	APHA 23 <sup>rd</sup> Edition (2017)-3125 B by ICP-MS 10 µg/l to 10000 µg/l
		Arsenic (As)	APHA 23 <sup>rd</sup> Edition (2017)-3125 B by ICP-MS 5 µg/l to 10000 µg/l
		Barium (Ba)	APHA 23 <sup>rd</sup> Edition (2017)-3125 B by ICP-MS 10 µg/l to 10000 µg/l
		Cadmium Cd)	APHA 23 <sup>rd</sup> Edition (2017)-3125 B by ICP-MS 1.0 µg/l to 10000 µg/l
		Chromium (Cr)	APHA 23 <sup>rd</sup> Edition (2017)-3125 B by ICP-MS 5.0 µg/l to 10000 µg/l
		Copper (Cu)	APHA 23 <sup>rd</sup> Edition (2017)-3125 B by ICP-MS 10 µg/l to 10000 µg/l
		Cobalt (Co)	APHA 23 <sup>rd</sup> Edition (2017)-3125 B by ICP-MS 5 µg/l to 10000 µg/l
		Iron (Fe)	APHA 23 <sup>rd</sup> Edition (2017)-3125 B by ICP-MS 5 µg/l to 100000 µg/l
		Lead (Pb)	APHA 23 <sup>rd</sup> Edition (2017)-3125 B by ICP-MS 5 µg/l to 10000 µg/l
		Mercury (Hg)	APHA 23 <sup>rd</sup> Edition (2017)-3125 B by ICP-MS 0.5 µg/l to 500 µg/l
		Manganese (Mn)	APHA 23 <sup>rd</sup> Edition (2017)-3125 B by ICP-MS 5 µg/l to 5000 µg/l
		Nickel (Ni)	APHA 23 <sup>rd</sup> Edition (2017)-3125 B by ICP-MS 5 µg/l to 50000 µg/l
		Selenium (Se)	APHA 23 <sup>rd</sup> Edition (2017)-3125 B by ICP-MS 5 µg/l to 50000 µg/l

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		Silver (Ag)	APHA 23 <sup>rd</sup> Edition (2017)-3125 B by ICP-MS	10 µg/l to 50000 µg/l
		Zinc (Zn)	APHA 23 <sup>rd</sup> Edition (2017)-3125 B by ICP-MS	10 µg/l to 100000 µg/l
		Uranium (U <sup>238</sup> )	APHA 23 <sup>rd</sup> Edition (2017)-3125 B by ICP-MS	5 µg/l to 10000 µg/l
II.	<b>WATER</b>			
1.	<b>Drinking water, Water from purifiers, Ground water &amp; Surface water</b>	Calcium (Ca)	ISO-14911 : 1998 (E) by IC	1 mg/l to 500 mg/l
		Magnesium (Mg)	ISO-14911 : 1998 (E) by IC	1 mg/l to 10000 mg/l
		Chloride (Cl <sup>-</sup> )	APHA 23 <sup>rd</sup> Edition (2017) 4110 by IC	0.5 mg/l to 1000 mg/l
		Fluoride (F <sup>-</sup> )	APHA 23 <sup>rd</sup> Edition (2017) 4110 by IC	0.1 mg/l to 500 mg/l
		Nitrate (NO <sub>3</sub> <sup>-</sup> )	APHA 23 <sup>rd</sup> Edition (2017) 4110 by IC	0.5 mg/l to 500 mg/l
		Sulphate (SO <sub>4</sub> <sup>2-</sup> )	APHA 23 <sup>rd</sup> Edition (2017) 4110 by IC	0.5 mg/l to 1000 mg/l