

**Laboratory** Krishna & Godavari River Water Quality Laboratory, Central Water Commission, Ministry Of Water Resources, RD & GR, Krishna Godavari Bhavan, 3<sup>rd</sup> Floor, 11-4-648 AC Guards, Hyderabad, Telangana

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

**Certificate Number** TC-6055

Page 1 of 2

**Validity** 01.08.2017 to 31.07.2019

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
-----	----------------------------	-------------------------	---	--

**CHEMICAL TESTING**

I.	WATER			
1.	Surface Water (River Water)	pH	APHA22 <sup>ND</sup> Edn.2012 -- 4500H <sup>+</sup> B (Electrometric Method)	2 to 12
		Conductivity	APHA22 <sup>ND</sup> Edn.2012 --2510 B (Laboratory Method)	1 µS/cm to 5000 µS/cm
		Total Dissolved solids	APHA22 <sup>ND</sup> Edn.2012 --2540 C (Total Dissolved Solids dried at 180°C)	10 mg/L to 1500 mg/L
		Total Hardness as CaCO <sub>3</sub>	APHA22 <sup>ND</sup> Edn.2012 --2340 C (EDTA Titrimetric Method)	5 mg/L to 1500 mg/L
		Calcium as Ca	APHA22 <sup>ND</sup> Edn.2012 -- 3500Ca - B (EDTA Titrimetric Method)	2 mg/L to 500 mg/L
		Magnesium as Mg	APHA22 <sup>ND</sup> Edn.2012 -- 3500Mg - B (Calculation Method)	2 mg/L to 500 mg/L
		Total alkalinity as CaCO <sub>3</sub>	APHA22 <sup>ND</sup> Edn.2012 --2320 B (Titration Method)	1 mg/L to 1000 mg/L
		Chloride as Cl <sup>-</sup>	APHA22 <sup>ND</sup> Edn.2012 - 4500Cl <sup>-</sup> B (Argentometric Method)	1 mg/L to 2000 mg/L
		Biological Oxygen Demand	APHA22 <sup>ND</sup> Edn.2012 --5210 B (@20°C; 5 day BOD Test Method)	2 mg/L to 500 mg/L

**Anuja Anand**  
Convenor

**N. Venkateswaran**  
Program Director

**Laboratory**

**Krishna & Godavari River Water Quality Laboratory, Central Water Commission, Ministry Of Water Resources, RD & GR, Krishna Godavari Bhavan, 3<sup>rd</sup> Floor, 11-4-648 AC Guards, Hyderabad, Telangana**

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

**Certificate Number TC-6055**

**Page 2 of 2**

**Validity 01.08.2017 to 31.07.2019**

**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
		Dissolved Oxygen	APHA22 <sup>ND</sup> Edn.2012 –4500, O-C (Iodometric Method)	0.2 mg/L to 10 mg/L
		Nitrate as NO <sub>3</sub> <sup>-</sup>	APHA22 <sup>ND</sup> Edn.2012 -- 4500 NO <sub>3</sub> <sup>-</sup> D (Nitrate Electrode Method)	0.20 mg/L to 250 mg/L
		Nitrite as NO <sub>2</sub> <sup>-</sup>	APHA22 <sup>ND</sup> Edn.2012 -- 4500 NO <sub>2</sub> <sup>-</sup> B (Colorimetric Method)	0.01 mg/L to 10 mg/L
		Fluoride as F <sup>-</sup>	APHA22 <sup>ND</sup> Edn.2012 -- 4500 F <sup>-</sup> C (ISE method);	0.1 mg/L to 20 mg/L
		Ortho Phosphate	APHA22 <sup>ND</sup> Edn.2012 -4500 P-E (Ascorbic Acid Method)	0.01 mg/L to 50 mg/L
		Sulphate as SO <sub>4</sub> <sup>2-</sup>	APHA22 <sup>ND</sup> Edn.2012 -4500 SO <sub>4</sub> <sup>2-</sup> E (Turbidimetric Method)	1 mg/L to 1000 mg/L
		Sodium as Na	APHA22 <sup>ND</sup> Edn.2012 –3500 Na-B (Flame Emission Photometric Method)	1 mg/L to 500 mg/L
		Potassium as K	APHA22 <sup>ND</sup> Edn.2012 –3500 K-D (Flame Emission Photometric Method)	1 mg/L to 500 mg/L
		Copper as Cu	APHA22 <sup>ND</sup> Edn.2012 – 3030F & 3113B (AAS Method)	0.01 mg/L to 20 mg/L
		Zinc as Zn	APHA22 <sup>ND</sup> Edn.2012 – 3030F & 3113B (AAS Method)	0.01 mg/L to 20 mg/L
		Iron as Fe	APHA22 <sup>ND</sup> Edn.2012 -- 3030F & 3113B (AAS Method)	0.01 mg/L to 20 mg/L

**Anuja Anand  
Convenor**

**N. Venkateswaran  
Program Director**