National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : MAHANADI BASIN RIVERS WATER QUALITY LABORATORY, KENDRIYA JAL AYOG, FIRST FLOOR, KOTA COLONY, PO-R S UNIVERSITY, RAIPUR, CHHATTISGARH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9397 **Page No** 1 of 1

Validity 05/04/2021 to 04/04/2023 **Last Amended on** -

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- WATER	Surface Water	Biochemical Oxygen Demand	APHA 23rd Edition, – 5210-B 5-day BOD Test (@20 deg C)
2	CHEMICAL- WATER	Surface Water	Calcium as Ca2+	APHA 23rd Edition, – 3500-Ca B. EDTA Titrimetric Method
3	CHEMICAL- WATER	Surface Water	Chloride as Cl^-	APHA 23rd Edition, – 4500-Cl^- B. Argentometric Method
4	CHEMICAL- WATER	Surface Water	Dissolved Oxygen	APHA 23rd Edition, – 4500-O C Azide Modification Method
5	CHEMICAL- WATER	Surface Water	Electrical Conductivity at 25 deg C	APHA 23rd Edition, – 2510 B. Laboratory Method
6	CHEMICAL- WATER	Surface Water	Fluoride as F^-	APHA 23rd Edition, – 4500 F^- C. Ion-Selective Electrode Method
7	CHEMICAL- WATER	Surface Water	Magnesium as Mg2+	APHA 23rd Edition, - 3500-Mg B. Calculation Method
8	CHEMICAL- WATER	Surface Water	Nitrate as $NO3^-$	APHA 23rd Edition, – 4500-$NO3^-$ D. Nitrate Electrode Method
9	CHEMICAL- WATER	Surface Water	pH at 25 deg C	APHA 23rd Edition, - 4500 H+ B. Electrometric Method
10	CHEMICAL- WATER	Surface Water	Potassium as K+	APHA 23rd Edition, – 3500-K B. Flame Photometric Method
11	CHEMICAL- WATER	Surface Water	Sodium as Na+	APHA 23rd Edition, – 3500-Na. Flame Emission Photometric Method
12	CHEMICAL- WATER	Surface Water	Sulphate as SO4 2-	APHA 23rd Edition, – 4500- SO4 2- E. Turbidimetric Method
13	CHEMICAL- WATER	Surface Water	Total alkalinity as CaCO3	APHA 23rd Edition, – 2320 B. Titration Method
14	CHEMICAL- WATER	Surface Water	Total Hardness as CaCO3	APHA 23rd Edition, – 2340 C. EDTA Titrimetric Method