



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ZUARI AGRO CHEMICALS LIMITED (AGRICULTURAL DEVELOPMENT LABORATORY), NO 45, 2ND FLOOR, CNR ARCADE, VINAYAKA BADAVANE, BENGALURU, BENGALURE URBAN, KARNATAKA , INDIA

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-7058 Page No. : 1 / 4

Validity 22/03/2018 to 21/03/2020 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
Permanent Facility					
1	CHEMICAL-FERTILIZERS	Organic Fertilizer	Carbon : Nitrogen ratio (C: N Ratio)	ZACL/SOP/14: 2017	1 : to 50
2	CHEMICAL-FERTILIZERS	Organic Fertilizer	Conductivity	ZACL/SOP/16: 2017	0.1 to 100 dS/m
3	CHEMICAL-FERTILIZERS	Organic Fertilizer	Copper as Cu	ZACL/SOP/17: 2017	5 to 1000 mg/Kg
4	CHEMICAL-FERTILIZERS	Organic Fertilizer	Iron as Fe	ZACL/SOP/17: 2017	50 to 25000 mg/Kg
5	CHEMICAL-FERTILIZERS	Organic Fertilizer	Manganese as Mn	ZACL/SOP/17: 2017	10 to 1000 mg/Kg
6	CHEMICAL-FERTILIZERS	Organic Fertilizer	pH	ZACL/SOP/15: 2017	3.0 to 12.0
7	CHEMICAL-FERTILIZERS	Organic Fertilizer	Potassium as K	ZACL/SOP/13: 2017	0.1 to 2 % / W
8	CHEMICAL-FERTILIZERS	Organic Fertilizer	Total Nitrogen as N	ZACL/SOP/11: 2017	0.1 to 2 % / W
9	CHEMICAL-FERTILIZERS	Organic Fertilizer	Total organic Carbon	ZACL/SOP/10: 2017	0.1 to 30 % / W
10	CHEMICAL-FERTILIZERS	Organic Fertilizer	Total Phosphorous as P	ZACL/SOP/12: 2017	0.1 to 3 % / W
11	CHEMICAL-FERTILIZERS	Organic Fertilizer	Zinc as Zn	ZACL/SOP/17: 2017	5 to 1000 mg/Kg
12	CHEMICAL- SOIL AND ROCK	Soil	Available Boron as B	ZACL/SOP/18: 2017	0.01 mg/kg to 30 mg/kg
13	CHEMICAL- SOIL AND ROCK	Soil	Available Calcium as Ca	ZACL/SOP/09: 2017	0.1 mg/kg to 10000 mg/kg



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14	CHEMICAL- SOIL AND ROCK	Soil	Available Copper as Cu	ZACL/SOP/08: 2017	0.1 mg/kg to 100 mg/kg
15	CHEMICAL- SOIL AND ROCK	Soil	Available Iron as Fe	ZACL/SOP/08: 2017	0.1 mg/Kg to 1000 mg/Kg
16	CHEMICAL- SOIL AND ROCK	Soil	Available Magnesium as Mg	ZACL/SOP/09: 2017	0.1 mg/kg to 10000 mg/kg
17	CHEMICAL- SOIL AND ROCK	Soil	Available Manganese as Mn	ZACL/SOP/08: 2017	0.1 mg/kg to 1000 mg/kg
18	CHEMICAL- SOIL AND ROCK	Soil	Available Molybdenum as Mo	ZACL/SOP/18: 2017	0.01 mg/kg to 30 mg/kg
19	CHEMICAL- SOIL AND ROCK	Soil	Available Phosphorous as P ₂ O ₅	ZACL/SOP/05: 2017	1 Kg/acre to 1000 Kg/acre
20	CHEMICAL- SOIL AND ROCK	Soil	Available Potassium as K ₂ O	ZACL/SOP/06: 2017	2 Kg/acre to 1500 Kg/acre
21	CHEMICAL- SOIL AND ROCK	Soil	Available Sulphur as S	ZACL/SOP/07: 2017	0.1 mg/Kg to 1000 mg/Kg
22	CHEMICAL- SOIL AND ROCK	Soil	Available Zinc as Zn	ZACL/SOP/08: 2017	0.1 mg/Kg to 100 mg/Kg
23	CHEMICAL- SOIL AND ROCK	Soil	Electrical Conductivity	IS 14767 : 2000: 2016	0.1 dS/m to 50.0 dS/m
24	CHEMICAL- SOIL AND ROCK	Soil	Organic Carbon(%)	ZACL/SOP/03: 2017	0.1 % to 10 %
25	CHEMICAL- SOIL AND ROCK	Soil	Organic Matter	ZACL/SOP/03: 2017	0.1 % to 20 %
26	CHEMICAL- SOIL AND ROCK	soil	pH	IS 2720 (Part 26): 2016	4.0 to 11.0



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27	CHEMICAL- WATER	Irrigation Water	Bicarbonate Alkalinity as HCO ₃	IS:3025 (Part 23) : 1986 (Reaffirmed 2014) Indicator Method: 2014	2 to 1000 mg/L
28	CHEMICAL- WATER	Irrigation Water	Calcium as Ca	IS:3025 (Part 40) - 1991(Reaffirmed 2014) EDTA Titrimetric Method: 2014	2 to 1000 mg/L
29	CHEMICAL- WATER	Irrigation Water	Carbonate Alkalinity as CO ₃	IS: 3025 (Part 23) : 1986 (Reaffirmed 2014) Indicator Method: 2014	2 to 1000 mg/L
30	CHEMICAL- WATER	Irrigation Water	Chloride as Cl	IS: 3025 (Part 32) - 1988(Reaffirmed 2014) Argentometric Method: 2014	5 mg/L to 1000 mg/L
31	CHEMICAL- WATER	Irrigation water	Conductivity	IS:3025 (Part 14) : 2013: 2013	10 µS/cm to 25000 µS/cm
32	CHEMICAL- WATER	Irrigation Water	Magnesium as Mg	IS:3025 (Part 46) - 1991 (Reaffirmed 2014) EDTA Titrimetric Method: 2014	2 to 1000 mg/L
33	CHEMICAL- WATER	Irrigation water	pH	IS 3025 (Part 11) :1983 Electrometric Method: 2014	4.0 to 12.0
34	CHEMICAL- WATER	Irrigation Water	Potassium as K	IS : 3025 (Part 45) : 1993 (Reaffirmed 2014) Flame Photometric Method: 2014	2 to 500 mg/L



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35	CHEMICAL- WATER	Irrigation Water	Residual Sodium Carbonate	ZACL/SOP/02 By Calculation Method: 2017	0.1 to 100 meq/L
36	CHEMICAL- WATER	Irrigation Water	Sodium Adsorption Ratio	ZACL/SOP/01 By Calculation Method: 2017	0.1 to 100
37	CHEMICAL- WATER	Irrigation Water	Sodium as Na	IS : 3025 (Part 45) : 1993 (Reaffirmed 2014) Flame Photometric Method: 2014	2 to 500 mg/L
38	CHEMICAL- WATER	Irrigation Water	Total Hardness as CaCO ₃	IS:3025 (Part 21) ; 2009 EDTA Titrimetric Method: 2009	2 to 1000 mg/L