National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : MULTIPLEX BIO-TECH PVT LTD., CENTRAL LABORATORY, NO 1,TECHNO INDUSTRIAL COMPLEX, PEENYA 1ST STAGE,PEENYA, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6285 **Page No** 1 of 6

Validity 14/02/2023 to 13/02/2025 **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- FERTILIZERS	N:P:K	Total Nitrogen(as N)	FCO 1985, Schedule II,Part B,3 (iv),(v),(vii),Page No 78-82
2	CHEMICAL- FERTILIZERS	Fertilizer Finished material(Mixture of Micro nutrients)	Boron as B	FCO 1985, Schedule II,Part B.23.(Titration),Page No 176-177
3	CHEMICAL- FERTILIZERS	Fertilizer Finished material(Mixture of Micro nutrients)	Copper as Cu	FCO 1985, Schedule II, a) Micro nutrient-Part B.22A Page No 174-175
4	CHEMICAL- FERTILIZERS	Fertilizer Finished material(Mixture of Micro nutrients)	Iron as Fe	FCO 1985, Schedule II, a) Micro nutrient-Part B.22A Page No 174-175
5	CHEMICAL- FERTILIZERS	Fertilizer Finished material(Mixture of Micro nutrients)	Magnesium as Mg	FCO 1985, Schedule II, a) Micro nutrient-Part B.22A Page No 174-175
6	CHEMICAL- FERTILIZERS	Fertilizer Finished material(Mixture of Micro nutrients)	Manganese as Mn	FCO 1985, Schedule II, a) Micro nutrient-Part B.22A Page No 174-175
7	CHEMICAL- FERTILIZERS	Fertilizer Finished material(Mixture of Micro nutrients)	Zinc as Zn	FCO 1985, Schedule II, a) Micro nutrient-Part B.22A Page No 174-175
8	CHEMICAL- FERTILIZERS	Fertilizer Raw materials	Boron as B(Borax, Boric acid, Sodium Borate)	FCO 1985, Schedule II,a) Raw materials (Titration), Part B.11 B, Page No 141-142
9	CHEMICAL- FERTILIZERS	Fertilizer Raw materials	Cadmium as Cd	FCO 1985, Schedule II,Part B.7(x),Page No 124-125
10	CHEMICAL- FERTILIZERS	Fertilizer Raw materials	Copper as Cu(Copper sulphate, Copper EDTA)	FCO 1985, Schedule II,a) Raw material Part B.12.(B), Page No 142-143 b) Micro nutrient-Part B.22A Page No 174-175
11	CHEMICAL- FERTILIZERS	Fertilizer Raw materials	Iron as Fe(Ferrous Sulphate, Ferrous EDTA)	FCO 1985, Schedule II,a) Raw material Part B.13(ii & iii) (Titration) Page No 146-148 and Part B.13 (B) (AAS) Page No 149-150 b) Chelated (EDTA)-Part B.16, Page No159-161 c) Micro nutrient-Part B.22A Page No 174-175
12	CHEMICAL- FERTILIZERS	Fertilizer Raw materials	Lead as Pb	FCO 1985, Schedule II,Part B,8(v) Page No 131-132

SCOPE OF ACCREDITATION

Laboratory Name : MULTIPLEX BIO-TECH PVT LTD., CENTRAL LABORATORY, NO 1,TECHNO INDUSTRIAL COMPLEX, PEENYA 1ST STAGE,PEENYA, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6285 **Page No** 2 of 6

Validity 14/02/2023 to 13/02/2025 **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
13	CHEMICAL- FERTILIZERS	Fertilizer Raw materials	Magnesium as Mg(Magnesium sulphate, Magnesium EDTA,Potassium Magnesium sulphate)	FCO 1985, Schedule II,a) Raw material Part B.19. B. (Titration), Page No 165-167 and Part B.7.vi.Page No 121-122
14	CHEMICAL- FERTILIZERS	Fertilizer Raw materials	Manganese as Mn(Manganese sulphate, Manganese EDTA)	FCO 1985, Schedule II,a) Raw material Part B.9,10, Page No 135-139 b) Micro nutrients-Part B.22A Page No 174-175
15	CHEMICAL- FERTILIZERS	Fertilizer Raw materials	Matter insoluble in water	FCO 1985, Schedule II,Part B,11(iii) Page No 142
16	CHEMICAL- FERTILIZERS	Fertilizer Raw materials	Moisture Content	FCO 1985, Schedule II,Part B,2, Page No 75-76
17	CHEMICAL- FERTILIZERS	Fertilizer Raw materials	pH	FCO 1985, Schedule II,Part B.7(VII), Page No 122
18	CHEMICAL- FERTILIZERS	Fertilizer Raw materials	Sodium as Na(Potassium Chloride and Potassium sulphate)	FCO 1985, Schedule II, Part B.17, Page No 161-162 (Flame photometer method)
19	CHEMICAL- FERTILIZERS	Fertilizer Raw materials	Sulphur (as S)	FCO 1985, Schedule II,Part B.24.(A) & (B), Page No 177-180
20	CHEMICAL- FERTILIZERS	Fertilizer Raw materials	Zinc as Zn(Zinc Sulphate monohydrate, Zinc-EDTA, Zinc ash, Zinc heptahydrate)	FCO 1985, Schedule II,a) Part B.7, Page No 114-115 b) Chelated (EDTA)-Part B.15, Page No 156-159 c) Micro nutrient-Part B.22A Page No 174-175
21	CHEMICAL- FERTILIZERS	N:P:K	Total Phosphorus(as P2O5)	FCO 1985, Schedule II,Part B.4, Page No 95-106 (Gravimetric quinoline Molybdate method for the total & water soluble Phosphorus)
22	CHEMICAL- FERTILIZERS	N:P:K	Total Potassium(as K2O)	FCO 1985, Schedule II,Part B,5, Page No 107-109
23	CHEMICAL- FERTILIZERS	Organic Feritlizer (Manure/Compost/Biofertilizer/De-Oiled Cake)	Total Boron(as B)	FAO of the United Nations,Chapter-4, Page 81 and Chapter-3,Page 70-71
24	CHEMICAL- FERTILIZERS	Organic Feritlizer (Manure/Compost/Biofertilizer/De-Oiled Cake)	Total Calcium(as Ca)	FAO of the United Nations Rome,Chapter-4,Page 81 and Chapter-3 Page 57-59

SCOPE OF ACCREDITATION

Laboratory Name : MULTIPLEX BIO-TECH PVT LTD., CENTRAL LABORATORY, NO 1,TECHNO INDUSTRIAL COMPLEX, PEENYA 1ST STAGE,PEENYA, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6285 **Page No** 3 of 6

Validity 14/02/2023 to 13/02/2025 **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
25	CHEMICAL- FERTILIZERS	Organic Feritlizer (Manure/Compost/Biofertilizer/De-Oiled Cake)	Total Magnesium(as Mg)	FAO of the united Nations Rome,Chapter-4,Page 81 and Chapter-3 Page 57-59
26	CHEMICAL- FERTILIZERS	Organic Feritlizer (Manure/Compost/Biofertilizer/De-Oiled Cake)	Total Sulphur(as S)	FAO of the United Nations Chapter-4,Page 85(Turbidimetric Method)
27	CHEMICAL- FERTILIZERS	Organic Fertilizer(Manure/Compost/Biofertilizer/De-Oiled Cake)	Total Chromium(as Cr)	FCO 1985, Schedule IV,Part D,10,Page 244-245
28	CHEMICAL- FERTILIZERS	Organic Fertilizer(Manure/Compost/Biofertilizer/De-Oiled Cake)	Boron as (B)	FAO of the United Nations,Chapter-4,Page 81 and Chapter-3,Page 70-71
29	CHEMICAL- FERTILIZERS	Organic Fertilizer(Manure/Compost/Biofertilizer/De-Oiled Cake)	Electrical De-conductivity	FCO 1985, Schedule 1V,Part –D, 4, Page No 241
30	CHEMICAL- FERTILIZERS	Organic Fertilizer(Manure/Compost/Biofertilizer/De-Oiled Cake)	Moisture	FCO 1985, Schedule 1V,Part –D, 2, Page No 240
31	CHEMICAL- FERTILIZERS	Organic Fertilizer(Manure/Compost/Biofertilizer/De-Oiled Cake)	Organic Carbon	FCO 1985, Schedule -1V,Part-D,5,Page : 241-242
32	CHEMICAL- FERTILIZERS	Organic Fertilizer(Manure/Compost/Biofertilizer/De-Oiled Cake)	pH	FCO 1985, Schedule -1V,Part-D,1, Page : 240
33	CHEMICAL- FERTILIZERS	Organic Fertilizer(Manure/Compost/Biofertilizer/De-Oiled Cake)	Total Cadmium(as Cd)	FCO 1985, Schedule -1V,Part-D,10,Page 244-245
34	CHEMICAL- FERTILIZERS	Organic Fertilizer(Manure/Compost/Biofertilizer/De-Oiled Cake)	Total Calcium(as Ca)	FAO of the United Nations Rome,2008,Chapter-4,Page 81 and Chapter-3,Page 57-59
35	CHEMICAL- FERTILIZERS	Organic Fertilizer(Manure/Compost/Biofertilizer/De-Oiled Cake)	Total Copper(as Cu)	FCO 1985, Schedule IV,Part D,10,Page 244-245
36	CHEMICAL- FERTILIZERS	Organic Fertilizer(Manure/Compost/Biofertilizer/De-Oiled Cake)	Total Iron(as Fe)	FCO 1985, Schedule IV,Part D,10,Page 244-245
37	CHEMICAL- FERTILIZERS	Organic Fertilizer(Manure/Compost/Biofertilizer/De-Oiled Cake)	Total Lead(as Pb)	FCO 1985, Schedule IV,Part D,10,Page 244-245
38	CHEMICAL- FERTILIZERS	Organic Fertilizer(Manure/Compost/Biofertilizer/De-Oiled Cake)	Total Magnesium (as Mg)	FAO of the United Nations Rome,2008,Chapter-4,Page 81 and Chapter-3,Page 57-59
39	CHEMICAL- FERTILIZERS	Organic Fertilizer(Manure/Compost/Biofertilizer/De-Oiled Cake)	Total Nickel(as Ni)	FCO 1985, Schedule IV,Part D,10,Page 244-245
40	CHEMICAL- FERTILIZERS	Organic Fertilizer(Manure/Compost/Biofertilizer/De-Oiled Cake)	Total Nitrogen(as N)	FCO, Schedule- II,Part B.3(v) Page 77-80 b) FCO 1985, Schedule -V,Part-D,6,Page 252-254

SCOPE OF ACCREDITATION

Laboratory Name : MULTIPLEX BIO-TECH PVT LTD., CENTRAL LABORATORY, NO 1,TECHNO INDUSTRIAL COMPLEX, PEENYA 1ST STAGE,PEENYA, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6285 **Page No** 4 of 6

Validity 14/02/2023 to 13/02/2025 **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
41	CHEMICAL- FERTILIZERS	Organic Fertilizer(Manure/Compost/Biofertilizer/De-Oiled Cake)	Total Phosphorus(as P2O5)	FCO 1985, Schedule -1V,Part-D,8, Page : 242
42	CHEMICAL- FERTILIZERS	Organic Fertilizer(Manure/Compost/Biofertilizer/De-Oiled Cake)	Total Sulphur (as S)	FAO of the United Nations,Chapter-4,Page 85(Turbidimetric Method)
43	CHEMICAL- FERTILIZERS	Organic Fertilizer(Manure/Compost/Biofertilizer/De-Oiled Cake)	Total Zinc(as Zn)	FCO , Schedule IV,Part D,10,Page 244-245
44	CHEMICAL- FERTILIZERS	Organic Fertilizer(Manure/Compost/Biofertilizer/De-Oiled Cake)	Total,Potassium(as K2O)	FCO 1985, Schedule -1V,Part-D,8, Page : 243
45	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Plant Raw materials(Leaves, Steams,Fruits,Grains,Flowers, Roots,Husk,Seeds)	Total Nitrogen(as N)	FAO of the United Nations Rome,Chapter-4,Page 82 (Kjeldhal Method)
46	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Plant Raw materials(Leaves, Steams,Fruits,Grains,Flowers,Roots,Husk,Seeds)	Total Phosphorus(as P2O5)	FAO of the United Nations Rome,Chapter-4,Page 81 , (Sodium Phosphomolybdate Method)
47	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Plant Raw materials(Leaves,Stems,Fruits,Grains,Flowers,Roots,Husk,Seeds)	Total Boron(as B)	FAO of the United Nations, Chapter-4,Page 81 and Chapter-3,Page 70-71
48	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Plant Raw materials(Leaves,Stems,Fruits,Grains,Flowers,Roots,Husk,Seeds)	Total Calcium(as Ca)	FAO of the United Nations Chapter-4,Page 81 and Chapter-3,Page 57-59
49	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Plant Raw materials(Leaves,Stems,Fruits,Grains,Flowers,Roots,Husk,Seeds)	Total Copper(as Cu)	FAO of the United Nations Chapter-4,Page 88-89
50	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Plant Raw materials(Leaves,Stems,Fruits,Grains,Flowers,Roots,Husk,Seeds)	Total Iron(as Fe)	FAO of the united Nations, Chapter-4,Page 88-89
51	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Plant Raw materials(Leaves,Stems,Fruits,Grains,Flowers,Roots,Husk,Seeds)	Total Magnesium (as Mg)	FAO of the united Nations, Chapter-4, Page 81 & Chapter-3 Page 57-59
52	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Plant Raw materials(Leaves,Stems,Fruits,Grains,Flowers,Roots,Husk,Seeds)	Total Manganese(as Mn)	FAO of the United Nations,Chapter-4,Page 88-89
53	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Plant Raw materials(Leaves,Stems,Fruits,Grains,Flowers,Roots,Husk,Seeds)	Total Potassium(as K2O)	FAO of the United Nations Rome,Chapter-4,Page 84
54	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Plant Raw materials(Leaves,Stems,Fruits,Grains,Flowers,Roots,Husk,Seeds)	Total Sulphur (as S)	FAO of the United Nations,Chapter-4,Page 85(Turbidimetric Method)

SCOPE OF ACCREDITATION

Laboratory Name : MULTIPLEX BIO-TECH PVT LTD., CENTRAL LABORATORY, NO 1,TECHNO INDUSTRIAL COMPLEX, PEENYA 1ST STAGE,PEENYA, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6285 **Page No** 5 of 6

Validity 14/02/2023 to 13/02/2025 **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
55	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Plant Raw materials(Leaves,Stems,Fruits,Grains,Flowers,Roots,Husk,Seeds)	Total Zinc(as Zn)	FAO of the United Nations,Chapter-4,Page 88-89
56	CHEMICAL- SOIL AND ROCK	Soils	pH	FAO of the united Nations,Rome,Chapter-3,Page-32
57	CHEMICAL- SOIL AND ROCK	Soils	Available Boron(as B)	FAO of the United Nations Rome,Chapter-3,Page 69(Azomethine-H method using Spectrophotometer
58	CHEMICAL- SOIL AND ROCK	Soils	Available Copper (as Cu)	FAO of the United Nations Rome,Chapter-3,Page 64(DTPA & AAS Method)
59	CHEMICAL- SOIL AND ROCK	Soils	Available Iron(as Fe)	FAO of the United Nations Rome,Chapter-3,Page 65(DTPA & AAS Method)
60	CHEMICAL- SOIL AND ROCK	Soils	Available Manganese(as Mn)	FAO of the United Nations Rome,Chapter-3,Page 66 (DTPA & AAS Method)
61	CHEMICAL- SOIL AND ROCK	Soils	Available Nitrogen(as N)	FAO of the United Nations Rome,Chapter-3,Page 42
62	CHEMICAL- SOIL AND ROCK	Soils	Available Phosphorus(as P2O5)	FAO of the United Nations Rome,Chapter-3,Page 50,(Bray's and Olsen's Method)
63	CHEMICAL- SOIL AND ROCK	Soils	Available Potassium(as K2O)	FAO of the United Nations Rome,Chapter-3,Page 53 (Ammonium acetate & Flame photometric method)
64	CHEMICAL- SOIL AND ROCK	Soils	Available Silicon(as Si)	MBTPL/SOP/5.4/02/I/13,Issue No 02,September
65	CHEMICAL- SOIL AND ROCK	Soils	Available Sulphur (as S)	FAO of the United Nations Rome,Chapter-3,Page 55 (Turbidimetric & Spectrophotometric Method)
66	CHEMICAL- SOIL AND ROCK	Soils	Available Zinc(as Zn)	FAO of the United Nations Rome,Chapter-3,Page 63 (DTPA & AAS Method)
67	CHEMICAL- SOIL AND ROCK	Soils	EC	FAO of the united Nations Rome,Chapter-3,Page 36

SCOPE OF ACCREDITATION

Laboratory Name : MULTIPLEX BIO-TECH PVT LTD., CENTRAL LABORATORY, NO 1,TECHNO INDUSTRIAL COMPLEX, PEENYA 1ST STAGE,PEENYA, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6285 **Page No** 6 of 6

Validity 14/02/2023 to 13/02/2025 **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
68	CHEMICAL- SOIL AND ROCK	Soils	Exchangeable Calcium(as Ca)	FAO of the United Nations Rome,Chapter-3,Page 56 (Volumetric Method using EDTA)
69	CHEMICAL- SOIL AND ROCK	Soils	Exchangeable Magnesium(as Mg)	FAO of the United Nations Rome,Chapter-3,Page 56 (Volumetric Method using EDTA)
70	CHEMICAL- SOIL AND ROCK	Soils	Organic Carbon	FAO of the United Nations Rome,Chapter-3,Page 38 (Walkley and Black's Rapid Titration method)
71	CHEMICAL- SOIL AND ROCK	Soils	Total Cadmium(as Cd)	MBTPL/SOP/5.4/02/I/12,Issue No 02,September
72	CHEMICAL- SOIL AND ROCK	Soils	Total Chromium (as Cr)	MBTPL/SOP/5.4/02/I/12,Issue No 02, september
73	CHEMICAL- SOIL AND ROCK	Soils	Total Lead(as Pb)	MBTPL/SOP/5.4/02/I/12,Issue No 02,September
74	CHEMICAL- SOIL AND ROCK	Soils	Total Nickel(as Ni)	MBTPL/SOP/5.4/02/I/12,Issue No 02,September
75	CHEMICAL- WATER	Ground water, Surface water, Irrigation water	Electrical Conductivity	IS 3025(Part 14):1983:2019
76	CHEMICAL- WATER	Ground water, Surface water, Irrigation water	Bicarbonates(HCO3)	IS 3025(Part 51):1983
77	CHEMICAL- WATER	Ground water, Surface water, Irrigation water	Calcium(as Ca)	IS 3025(Part 40):1983
78	CHEMICAL- WATER	Ground water, Surface water, Irrigation water	Carbonates(as CO3)	IS 3025(Part 51):1983
79	CHEMICAL- WATER	Ground water, Surface water, Irrigation water	Chlorides(as Cl)	IS 3025(Part 26):1988
80	CHEMICAL- WATER	Ground water, Surface water, Irrigation water	Magnesium (as Mg)	IS 3025(Part 46):1994: 2019
81	CHEMICAL- WATER	Ground water, Surface water, Irrigation water	pH	IS 3025(Part 11):1983
82	CHEMICAL- WATER	Ground water, Surface water, Irrigation water	Potassium(as K)	IS 3025(Part 45):1993: 2019
83	CHEMICAL- WATER	Ground water, Surface water, Irrigation water	Sodium (as Na)	IS 3025(Part 45):1993:2019