

Laboratory Fertilizer Control Laboratory, Tapovan Road, Amravati, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Discipline Chemical Testing **Issue Date** 24.05.2014

Certificate Number T-2132 **Valid Until** 23.05.2016

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I. FERTILIZERS				
1	Ammonium Sulphate (20.6%)	Moisture	FCO: 1985 Sch. II-B (Amended version 2011)	0.1 - 2 %
		Ammoniacal Nitrogen	FCO: 1985 Sch. II-B (Amended version 2011)	0.1-21 %
		Sulphur (as S)	FCO: 1985 Sch. II-B (Amended version 2011)	0.1-25%
		Free Acidity	FCO: 1985 Sch. II-B (Amended version 2011)	0.001-5%
		Arsenic as As ₂ O ₃	FCO: 1985 Sch. II-B (Amended version 2011)	0.0001-5%
2	Urea (46%N)	Moisture	FCO: 1985 Sch. II-B (Amended version 2011)	0.1 – 2%
		Total Nitrogen	FCO: 1985 Sch. II-B (Amended version 2011)	0.1- 46.65%
		Particle Size 2.8mm & 1.0mm	FCO: 1985 Sch. II-B (Amended version 2011)	0-100%
		Benzene soluble content	FCO: 1985 Sch. II-B (Amended version 2011)	0-001-5%
		Particle Size 4.0 mm & 2.0 mm	FCO: 1985 Sch. II-B (Amended version 2011)	0-100%

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Specific gravity	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-5%
		Zinc as Zn	FCO: 1985 Sch. II-B (Amended version 2011)	0-5%
3	Calcium Ammonium Nitrate (25%N)	Moisture	FCO: 1985 Sch. II-B (Amended version 2011)	0.1- 2%
		Total Ammonical & Nitrate Nnitrogen	FCO: 1985 Sch. II-B (Amended version 2011)	0.1- 27%
		Ammoniacal Nitrogen	FCO: 1985 Sch. II-B (Amended version 2011)	0.1 -15%
		Particle Size 4.0 mm & 1.0 mm	FCO: 1985 Sch. II-B (Amended version 2011)	0-100%
		Calcium nitrate	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-10%
4	Single Superphosphate (16%P₂O₅ Powdered)	Moisture	FCO: 1985 Sch. II-B (Amended version 2011)	0.1-15%
		Free phosphoric acid (as P ₂ O ₅)	FCO: 1985 Sch. II-B (Amended version 2011)	0.1-5%
		Water soluble P ₂ O ₅	FCO: 1985 Sch. II-B (Amended version 2011)	0.1-17%

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		Sulphur (as S)	FCO: 1985 Sch. II-B (Amended version 2011)	0.1-13%
		Neutral ammonium citrate soluble P ₂ O ₅	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-70%
5	Single Superphosphate (16% P₂O₅ Granulated)	Moisture	FCO: 1985 Sch. II-B (Amended version 2011)	0.1- 8%
		Free phosphoric acid	FCO: 1985 Sch. II-B (Amended version 2011)	0.1-5%
		Water soluble P ₂ O ₅	FCO: 1985 Sch. II-B (Amended version 2011)	0.1-17%
		Particle Size 4.0mm & 1.0mm	FCO: 1985 Sch. II-B (Amended version 2011)	0-100%
		Neutral ammonium citrate soluble P ₂ O ₅	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-70%
		Sulphur (as S)	FCO: 1985 Sch. II-B (Amended version 2011)	0.1-13%
6	Triple Superphosphate	Moisture	FCO: 1985 Sch. II-B (Amended version 2011)	0.1-15%
		Free phosphoric acid (as P ₂ O ₅)	FCO: 1985 Sch. II-B (Amended version 2011)	0.1-5%

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		Water soluble P ₂ O ₅	FCO: 1985 Sch. II-B (Amended version 2011)	0.1-70%
		Total P ₂ O ₅	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-70 %
7	Rock phosphate	Particle Size 0.15mm & 0.25mm	FCO: 1985 Sch. II-B (Amended version 2011)	0-100%
		Total P ₂ O ₅	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-70 %
8	Potassium Chloride (Muriate of Potash) 60.0%	Moisture	FCO: 1985 Sch. II-B (Amended version 2011)	0.1-6%
		Water soluble potash (as K ₂ O)	FCO: 1985 Sch. II-B (Amended version 2011)	0.1-62%
		Sodium as NaCL	FCO: 1985 Sch. II-B (Amended version 2011)	0.1-5%
		Particle Size 1.7 mm & 0.25 mm	FCO: 1985 Sch. II-B (Amended version 2011)	0-100%
9	Potassium Sulphate 50.0%	Moisture	FCO: 1985 Sch. II-B (Amended version 2011)	0.1-2%
		Potash (as K ₂ O)	FCO: 1985 Sch. II-B (Amended version 2011)	0.1-51%
		Sulphur (as S)	FCO: 1985 Sch. II-B (Amended version 2011)	0.1-20%

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		Sodium as NaCL	FCO: 1985 Sch. II-B (Amended version 2011)	0.1-5%
		Total Chloride	FCO: 1985 Sch. II-B (Amended version 2011)	0.1-5%
10	Potassium Chloride (Muriate of Potash) Gr.	Moisture	FCO: 1985 Sch. II-B (Amended version 2011)	0.1-6%
		Water soluble potash (as K ₂ O)	FCO: 1985 Sch. II-B (Amended version 2011)	0.1-62%
		Sodium as NaCL	FCO: 1985 Sch. II-B (Amended version 2011)	0.1-5%
		Particle Size 3.35 mm & 1mm	FCO: 1985 Sch. II-B (Amended version 2011)	0-100%
		Magnesium as MgCl ₂	FCO: 1985 Sch. IIB (Amended version 2011)	0.01-7 %
11	Sulphur Fertilizer	Moisture	FCO: 1985 Sch. II-B (Amended version 2011)	0.1-6%
		Sulphur (as S)	FCO: 1985 Sch. II-B (Amended version 2011)	0.1-100%
		Particle Size 4.0 mm & 1.0 mm	FCO: 1985 Sch. II-B (Amended version 2011)	0-100%

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12	NP Complex Fertilizers	Moisture	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-5%
		Total Nitrogen	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-50%
		Ammoniacal nitrogen	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-40%
		Nitrate Nitrogen	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-30 %
		Urea Nitrogen	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-25 %
		Total P ₂ O ₅	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-70 %
		Neutral ammonium citrate soluble P ₂ O ₅	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-70%
		Water soluble P ₂ O ₅	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-70%
		Polyphosphate (as P ₂ O ₅)	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-60 %
		Particle Size 4.0mm & 1.0mm	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-.100%

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		Total Sulphur (as S)	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-30 %
		Sulphate Sulphur	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-30 %
		Calcium Nitrate	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-10 %
		Magnesium (as MgO)	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-10 %
		pH	FCO: 1985 Sch. II-B (Amended version 2011)	1-14
		Specific gravity	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-5
13	NPK Complex Fertilisers	Moisture	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-5 %
		Total Nitrogen	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-50 %
		Ammonical Nitrogen	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-35 %
		Nitrate Nitrogen	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-25 %

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Neutral ammonium citrate soluble P ₂ O ₅	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-65%
		Water soluble P ₂ O ₅	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-65%
		Water soluble P ₂ O ₅	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-50%
		Particle Size 4.0mm & 1.0mm	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-100%
		Urea Nitrogen	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-30 %
		Magnesium (as MgO)	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-10 %
		Total P ₂ O ₅	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-65 %
		Calcium Nitrate	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-10 %
		Sulphur as S	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-30 %
		Total Chloride	FCO: 1985 Sch. II-B (Amended version 2011)	0.1-5%

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		Boron as B	FCO: 1985 Sch. II-B (Amended version 2011)	0.0001-5 %
		Zinc as Zn	FCO: 1985 Sch. II-B (Amended version 2011)	0.0001-5 %
14	Zinc Sulphate Heptahydrate (ZnSO ₄ 7H ₂ O)	Zinc as Zn	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-26 %
		Copper as Cu	FCO: 1985 Sch. II-B (Amended version 2011)	0.001-1 %
		Magnesium as Mg	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-2 %
		pH	FCO: 1985 Sch. II-B (Amended version 2011)	1-14
		Sulphur as S	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-15 %
		Matter insoluble in water	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-10 %
		Lead as Pb	FCO: 1985 Sch. II-B (Amended version 2011)	0.0001-5 %
		Cadmium as Cd	FCO: 1985 Sch. II-B (Amended version 2011)	0.0001-5 %
		Arsenic as As	FCO: 1985 Sch. II-B (Amended version 2011)	0.0001-5 %

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15	Manganese Sulphate	Manganese as Mn	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-35 %
		Copper as Cu	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-5 %
		Magnesium as Mg	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-7 %
		pH	F FCO: 1985 Sch. II-B (Amended version 2011)	1-14
		Sulphur as S	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-25 %
		Matter insoluble in water	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-5 %
		Lead as Pb	FCO: 1985 Sch. II-B (Amended version 2011)	0.0001-5 %
16	Borax (Sodium Tetraborate) (Na₂B₄O₇, 10H₂O)	Boron as Cu	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-15 %
		pH	FCO: 1985 Sch. II-B (Amended version 2011)	1-14
		Matter insoluble in water	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-5 %
		Lead as Pb	FCO: 1985 Sch. II-B (Amended version 2011)	0.0001-5 %

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17	Copper Sulphate (CuSO ₄ ,5H ₂ O)	Copper as Cu	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-30 %
		pH	FCO: 1985 Sch. II-B (Amended version 2011)	1-14
		Sulphur as S	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-18 %
		Matter insoluble in water	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-5 %
		Soluble iron & Aluminium Compounds expressed as Fe	FCO: 1985 Sch. II-B (Amended version 2011)	0.001-5 %
		Lead as Pb	FCO: 1985 Sch. II-B (Amended version 2011)	0.0001-5 %
18	Ferrous sulphate (FeSo ₄ ,7H ₂ O)	Ferrous iron as Fe	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-25 %
		pH	FCO: 1985 Sch. II-B (Amended version 2011)	1-14
		Sulphur as S	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-15 %
		Matter insoluble in water	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-5 %

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		Free acid as H ₂ SO ₄	FCO: 1985 Sch. II-B (Amended version 2011)	0.001-5 %
		Ferric iron as Fe	FCO: 1985 Sch. II-B (Amended version 2011)	0.001-5 %
		Lead as Pb	FCO: 1985 Sch. II-B (Amended version 2011)	0.0001-5 %
19	Chelated Zinc as Zn-EDTA	Zinc as Zn in the form of Zn-EDTA	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-18 %
		pH	FCO: 1985 Sch. II-B (Amended version 2011)	1-14
		Lead as Pb	FCO: 1985 Sch. II-B (Amended version 2011)	0.0001-5 %
20	Chelated Iron as Fe-EDTA	Iron as Fe in the form of Fe-EDTA	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-18 %
		pH	FCO: 1985 Sch. II-B (Amended version 2011)	1-14
		Lead as Pb	FCO: 1985 Sch. II-B (Amended version 2011)	0.0001-5 %

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21	Zinc Sulphate Monohydrate (ZnSO ₄ ,H ₂ O)	Zinc as Zn	F FCO: 1985 Sch. II-B (Amended version 2011)	0.01-38 %
		Copper as Cu	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-2 %
		Magnesium as Mg	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-2 %
		Iron as Fe	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-4 %
		pH	FCO: 1985 Sch. II-B (Amended version 2011)	1-14
		Sulphur as S	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-20 %
		Matter insoluble in water	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-5 %
		Lead as Pb	FCO: 1985 Sch. II-B (Amended version 2011)	0.0001-5 %
		Cadmium as Cd	FCO: 1985 Sch. II-B (Amended version 2011)	0.0001-5 %
	Arsenic as As	FCO: 1985 Sch. II-B (Amended version 2011)	0.0001-5 %	

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22	Magnesium Sulphate	Magnesium as Mg	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-15 %
		pH	FCO: 1985 Sch. II-B (Amended version 2011)	1-14
		Sulphur as S	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-18 %
		Matter insoluble in water	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-5 %
		Lead as Pb	FCO: 1985 Sch. II-B (Amended version 2011)	0.0001-5 %
23	Boric Acid (H₃BO₃)	Boron as B	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-22 %
		Matter insoluble in water	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-5 %
		Lead as Pb	FCO: 1985 Sch. II-B (Amended version 2011)	0.0001-5 %
24	Di-Sodium Octa Borate tetra Hydrate Na₂B₈O₁₃.4H₂O	Boron as B	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-25 %
		Matter insoluble in water	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-5 %
		Lead as Pb	FCO: 1985 Sch. II-B (Amended version 2011)	0.0001-5 %

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25	Boronated Single Superphosphate (16% P₂O₅ Pow-Dered)	Moisture	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-18 %
		Free phpsphoric acid as P2O5	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-10 %
		Water Soluble P2O5	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-21 %
		Boron as B	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-2 %
26	100% Water Soluble complex fertiliser	Moisture	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-5 %
		Nitrate Nitrogen	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-20 %
		Water soluble K2O	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-50 %
		Matter insoluble in water	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-5 %
		Total Nitrogen	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-40 %
		Ammonical nitrogen	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-30 %
		Urea Nitrogen	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-30 %

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		Water soluble P ₂ O ₅	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-65 %
		Sodium (as NaCl)	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-5 %
		Total Chloride (as Cl)	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-5 %
		Magnesium as MgO	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-25 %
		Sulphur	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-25 %
27	NPK Fertilizers Granulated mixtures	Total Nitrogen	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-30 %
		Total P ₂ O ₅	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-30 %
		Neutral ammonium citrate soluble P ₂ O ₅	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-30 %
		Water soluble P ₂ O ₅	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-30 %
		Water soluble K ₂ O	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-30 %
		Particle size 5.5 & 1.0 mm sieve	FCO: 1985 Sch. II-B (Amended version 2011)	1-100%

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28	Mixtures of Micronutrient fertilizers	Copper as Cu	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-5 %
		Iron as Fe	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-7%
		Manganese as Mn	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-5 %
		Zinc as Zn	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-10 %
		Boran as B	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-5 %
		Molybdenum as Mo	FCO: 1985 Sch. II-B (Amended version 2011)	0.01-3 %

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