

Laboratory Fertiliser Control Laboratory, Tapovan Road, Amravati, Maharashtra
Accreditation Standard ISO/IEC 17025: 2005
Certificate Number TC-7329 (in lieu of T-2132) Page 1 of 7
Validity 24.05.2018 to 23.05.2020 Last Amended on 28.05.2018

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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CHEMICAL TESTING

I. FERTILIZERS				
1.	Ammonium Sulphate (20.6%)	Moisture	FCO: 1985 Sch. II-B (ii)	0.1 %to 10%
		Ammoniacal Nitrogen	FCO: 1985 Sch. II-B 3(vii)	0.1% to 30%
		Sulphur (as S)	FCO: 1985 Sch. II-B 24(a)	0.1% to 28%
2.	Urea (46% N)	Moisture	FCO: 1985 Sch. II-B 2(i)	0.1% to 10%
		Total Nitrogen	FCO: 1985 Sch. II-B 3(iv)	0.1% to 50%
		Particle Size 4.0 & 2.0 mm and 2.8 & 1.0 mm IS Sieve	FCO: 1985 Sch. II-B 20	0.1% to 100%
3.	Calcium Ammonium Nitrate(25%)	Biuret	FCO: 1985 Sch. II-B (xii)	0.1% to 5%
		Moisture	FCO: 1985 Sch. II-B	0.1% to 2 %
		Total Ammonical & nitrate Nitrogen	FCO: 1985 Sch. II-B	0.1% to 27 %
		Ammonical Nitrogen	FCO: 1985 Sch. II-B	0.1% to 15 %
4.	Single Superphosphate (16%P₂O₅ Powdered)	Calcium nitrate	FCO: 1985 Sch. II-B	0 % to 10 %
		Moisture	FCO: 1985 Sch. II-B 2(i)	0.1% to 20%
		Free phosphoric acid (as P ₂ O ₅)	FCO: 1985 Sch. II-B 4(vii)	0.1% to 10%
		Available P ₂ O ₅	FCO: 1985 Sch. II-B 4(v)	0.1% to 25%
5.	Single Superphosphate (16% P₂O₅ Granulated)	Water soluble P ₂ O ₅	FCO: 1985 Sch. II-B 4(iii)	0.1% to 25%
		Sulphur (as S)	FCO: 1985 Sch. II-B 24(b)	0.1% to 20%
		Moisture	FCO: 1985 Sch. II-B (ii)	0.1% to 20%
		Free phosphoric acid	FCO: 1985 Sch. II-B 4(vii)	0.1% to 10%
		Available P ₂ O ₅	FCO: 1985 Sch. II-B 4(v)	0.1% to 25%
		Water soluble P ₂ O ₅	FCO: 1985 Sch. II-B 4(iii)	0.1% to 25%
		Particle Size 4.0& 1.0mm	FCO: 1985 Sch. II-B 20	0.1% to 100%
		Sulphur (as S)	FCO: 1985 Sch. II-B 24(b)	0.1% to 20%

Laboratory **Fertiliser Control Laboratory, Tapovan Road, Amravati, Maharashtra**
 Accreditation Standard **ISO/IEC 17025: 2005**
 Certificate Number **TC-7329 (in lieu of T-2132)** **Page 2 of 7**
 Validity **24.05.2018 to 23.05.2020** **Last Amended on 28.05.2018**

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6.	Triple Super phosphate	Moisture	FCO: 1985 Sch. II-B	0.1% to 15 %
		Free phosphoric acid (as P ₂ O ₅)	FCO: 1985 Sch. II-B	0.1% to 5 %
		Water soluble P ₂ O ₅	FCO: 1985 Sch. II-B	0.1% to 70 %
		Total P ₂ O ₅	FCO: 1985 Sch. II-B	0.01% to 70 %
7.	Rock Phosphate	Particle Size 1.15 mm & 0.25 mm	FCO: 1985 Sch. II-B	0 % to 100 %
		Total P ₂ O ₅	FCO: 1985 Sch. II-B	0.1% to 70 %
8.	Potassium Chloride (MOP)	Moisture	FCO: 1985 Sch. II-B 2(i)	0.1% to 10%
		Water soluble potash as K ₂ O	FCO: 1985 Sch. II-B 5(ii)	0.1% to 65%
		Particle Size 1.75&0.25 mm	FCO: 1985 Sch. II-B 20	0.1% to 100%
9.	Potassium Sulphate (SOP)	Moisture	FCO: 1985 Sch. II-B (ii)	0.1% to 10%
		Water soluble potash as K ₂ O	FCO: 1985 Sch. II-B 5(ii)	0.1% to 60%
		Sulphur (as S)	FCO: 1985 Sch. II-B 24(a)	0.1% to 20%
10.	Potassium Chloride (Murate of Potash) Gr.	Moisture	FCO: 1985 Sch. II-B	0.1% to 6 %
		Water soluble potash as K ₂ O	FCO: 1985 Sch. II-B	0.1% to 62 %
		Sodium as NaCL	FCO: 1985 Sch. II-B	0.1% to 5 %
		Particle Size 3.35 & 1 mm	FCO: 1985 Sch. II-B	0 % to 100 %
11.	Sulphur 90% (Powder)	Moisture	FCO: 1985 Sch. II-B (ii)	0.1% to 10%
		Total Sulphur (as S)	FCO: 1985 Sch. II-B 24	0.1% to 92%
12.	Sulphur 90% (Granular)	Moisture	FCO: 1985 Sch. II-B (ii)	0.1% to 10%
		Total Sulphur (as S)	FCO: 1985 Sch. II-B 24	0.1% to 92%
		Particle Size 4.0 & 1.0 mm	FCO: 1985 Sch. II-B 20	0.1% to 100%
13.	NP Complex Fertilisers	Moisture	FCO: 1985 Sch. II-B 2(ii)	0.1% to 20%
		Total Nitrogen (In nitrate free sample)	FCO: 1985 Sch. II-B 3(iv)	0.1% to 40%
		Total Nitrogen (In nitrate containing sample)	FCO: 1985 Sch. II-B 3(v)	0.1% to 40%

Laboratory Fertiliser Control Laboratory, Tapovan Road, Amravati, Maharashtra
Accreditation Standard ISO/IEC 17025: 2005
Certificate Number TC-7329 (in lieu of T-2132) **Page 3 of 7**
Validity 24.05.2018 to 23.05.2020 **Last Amended on** 28.05.2018

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		Total Nitrogen (Devarda method)	FCO: 1985 Sch. II-B 3(viii)	0.1% to 40%
		Ammoniacal nitrogen	FCO: 1985 Sch. II-B 3(vii)	0.1% to 35%
		Nitrate Nitrogen	FCO: 1985 Sch. II-B 3(iv)FCO: 1985 Sch. II-B 3(vii)	0.1% to 35%
		Urea Nitrogen	FCO: 1985 Sch. II-B 3(xi)	0.1% to 20%
		Total P ₂ O ₅	FCO: 1985 Sch. II-B 4(ii)	0.1% to 60%
		Available P ₂ O ₅	FCO: 1985 Sch. II-B 4(v)	0.1% to 60%
		Water soluble P ₂ O ₅	FCO: 1985 Sch. II-B 4(iii)	0.1% to 50%
		Particle Size 4.0mm & 1.0mm	FCO: 1985 Sch. II-B 20	0.1% to 100%
		Total Sulphur (as S)	FCO: 1985 Sch. II-B 24(a)	0.1% to 20%
		pH	FCO: 1985 Sch. II-B 8(vi)	1.0 to 14
14.	NPK Complex Fertilisers and Fortified Fertilisers	Moisture	FCO: 1985 Sch. II-B 2(ii)	0.1% to 20%
		Total Nitrogen (In nitrate free sample)	FCO: 1985 Sch. II-B 3(iv)	0.1% to 40%
		Total Nitrogen (In nitrate containing sample)	FCO: 1985 Sch. II-B 3(v)	0.1% to 40%
		Total Nitrogen (Devarda method)	FCO: 1985 Sch. II-B 3(viii)	0.1% to 40%
		Ammoniacal nitrogen	FCO: 1985 Sch. II-B 3(vii)	0.1% to 35%
		Nitrate nitrogen	FCO: 1985 Sch. II-B 3(iv)FCO: 1985 Sch. II-B 3(vii)	0.1% to 35%
		Urea Nitrogen	FCO: 1985 Sch. II-B 3(xi)	0.1% to 50%
		Available P ₂ O ₅	FCO: 1985 Sch. II-B 4(v)	0.1% to 50%
		Water soluble P ₂ O ₅	FCO: 1985 Sch. II-B 4(iii)	0.1% to 50%
		Water soluble potash as K ₂ O	FCO: 1985 Sch. II-B 5(ii)	0.1% to 40%
		Particle Size 4.0 & 1.0 mm	FCO: 1985 Sch. II-B 20	0.1% to 100%

Laboratory **Fertiliser Control Laboratory, Tapovan Road, Amravati, Maharashtra**
 Accreditation Standard **ISO/IEC 17025: 2005**
 Certificate Number **TC-7329 (in lieu of T-2132)** **Page 4 of 7**
 Validity **24.05.2018 to 23.05.2020** **Last Amended on 28.05.2018**

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		Particle Size 2.8 & 1.0 mm IS Sieve	FCO: 1985 Sch. II-B 20	0.1% to 100%
		Boron as B	FCO: 1985 Sch. II-B 23	0.01% to 2.0%
		Zinc as Zn	FCO: 1985 Sch. II-B 22A	0.01% to 25.0%
		pH	FCO: 1985 Sch. II-B 8(vi)	1.0 to 14
		Free phosphoric acid (as P ₂ O ₅)	FCO: 1985 Sch. II-B 4(vii)	0.1 % to 10%
		Sulphur (as S)	FCO: 1985 Sch. II-B 24(c)	0.1% to 20%
15.	Zinc Sulphate Heptahydrate (ZnSO ₄ .7H ₂ O)	Zinc as Zn	FCO: 1985 Sch. II-B 8(ii)	0.01% to 35.0%
		Copper as Cu	FCO: 1985 Sch. II-B 8(iv)	0.01% to 5.0%
		pH	FCO: 1985 Sch. II-B 8(vi)	1.0 to 14
		Sulphur as S	FCO: 1985 Sch. II-B 24(a)	0.1% to 20%
		Matter insoluble in water	FCO: 1985 Sch. II-B 8(vii) (a)	0.1% to 99%
16.	Manganese Sulphate	Manganese as Mn	FCO: 1985 Sch. II-B 9(ii)	0.01% to 40.0%
		Copper as Cu	FCO: 1985 Sch. II-B 8(iv)	0.01% to 5.0%
		Magnesium as Mg	FCO: 1985 Sch. II-B 8(iii)	0.01% to 10.0%
		pH	FCO: 1985 Sch. II-B 8(vi)	1.0 to 14
		Sulphur as S	FCO: 1985 Sch. II-B 24(a)	0.1% to 20%
		Matter insoluble in water	FCO: 1985 Sch. II-B 8(vii) (a)	0.1% to 99%
17.	Borax(Sodium Tetraborate) (Na ₂ B ₄ O ₇ .10H ₂ O)	Boron as B	FCO: 1985 Sch. II-B 11(B)	0.01% to 25.0%
		pH	FCO: 1985 Sch. II-B 11(iv)	1.0 to 14
		Matter insoluble in water	FCO: 1985 Sch. II-B 8(vii) (a)	0.1% to 99%
18.	Copper Sulphate (CuSO ₄ .5H ₂ O)	Copper as Cu	FCO: 1985 Sch. II-B 12	0.01% to 30.0%
		pH	FCO: 1985 Sch. II-B 12(vi)	1.0 to 14
		Sulphur as S	FCO: 1985 Sch. II-B 24(a)	0.1% to 20%
		Matter insoluble in water	FCO: 1985 Sch. II-B 8(v) (a)	0.1% to 99%
19.	Ferrous Sulphate FeSO ₄ .7H ₂ O	Ferrous iron as Fe	FCO: 1985 Sch. II-B 13(B)	0.01% to 30.0%
		pH	FCO: 1985 Sch. II-B 12(vi)	1.0 to 14

Laboratory **Fertiliser Control Laboratory, Tapovan Road, Amravati, Maharashtra**
 Accreditation Standard **ISO/IEC 17025: 2005**
 Certificate Number **TC-7329 (in lieu of T-2132)** Page 5 of 7
 Validity **24.05.2018 to 23.05.2020** Last Amended on **28.05.2018**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Sulphur as S	FCO: 1985 Sch. II-B 24(a)	0.1% to 20%
		Matter insoluble in water	FCO: 1985 Sch. II-B 8(vii)	0.1% to 99%
20.	Chelated Zinc as Zn-EDTA	Zinc as Zn in the form of Zn-EDTA	FCO: 1985 Sch. II-B 15	0.01% to 20.0%
		pH	FCO: 1985 Sch. II-B 12(vi)	1.0 to 14
21.	Chelated Iron as Fe-EDTA	Iron as Fe in the form of Fe-EDTA	FCO: 1985 Sch. II-B 16	0.01% to 20.0%
		pH	FCO: 1985 Sch. II-B 8(vi)	1.0 to 14
22.	Zinc Sulphate Monohydrate (ZnSO₄.H₂O)	Zinc as Zn	FCO: 1985 Sch. II-B 8(ii)	0.01% to 35.0%
		Copper as Cu	FCO: 1985 Sch. II-B 8(iv)	0.01% to 5.0%
		Magnesium as Mg	FCO: 1985 Sch. II-B 8(iii)	0.01% to 10.0%
		Iron as Fe	FCO: 1985 Sch. II-B 8(viii)	0.01% to 10.0%
		pH	FCO: 1985 Sch. II-B 8(vi)	1.0 to 14
		Sulphur as S	FCO: 1985 Sch. II-B 24(a)	0.1% to 20%
		Matter insoluble in water	FCO: 1985 Sch. II-B 8(vii)	0.1% to 99%
23.	Magnesium Sulphate	Magnesium as Mg	FCO: 1985 Sch. II-B 19(A)	0.01% to 15.0%
		pH	FCO: 1985 Sch. II-B 8(vi)	1.0 to 14
		Sulphur as S	FCO: 1985 Sch. II-B 24(a)	0.1% to 20%
		Matter insoluble in water	FCO: 1985 Sch. II-B 8(vii)	0.1% to 99%
24.	Boric acid (H₃BO₃)	Boron as B	FCO: 1985 Sch. II-B 11(B)	0.01% to 25.0%
		Matter insoluble in water	FCO: 1985 Sch. II-B 8(vii)	0.1% to 99%
25.	Di-Sodium Octa Borate Tetra Hydrate (Na₂B₈O₁₃.4H₂O)	Boron as B	FCO: 1985 Sch. II-B 11(B)	0.01% to 25.0%
		Matter insoluble in water	FCO: 1985 Sch. II-B 8(vii)	0.1% to 99%

Laboratory **Fertiliser Control Laboratory, Tapovan Road, Amravati, Maharashtra**
 Accreditation Standard **ISO/IEC 17025: 2005**
 Certificate Number **TC-7329 (in lieu of T-2132)** Page 6 of 7
 Validity **24.05.2018 to 23.05.2020** Last Amended on **28.05.2018**

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26.	Di-Sodium Tetra Borate Penta Hydrate	Boron as B	FCO: 1985 Sch. II-B 11(B)	0.01% to 25.0%
		Matter insoluble in water	FCO: 1985 Sch. II-B 8(vii) (a)	0.1% to 99%
		Particle Size 5.0 & 1.4 mm	FCO: 1985 Sch. II-B 20	0.1% to 100%
27.	100% Water Soluble Complex Fertilisers	Moisture	FCO: 1985 Sch. II-B (ii)	0.1% to 20%
		Total nitrogen	FCO: 1985 Sch. II-B 3(v)	0.1% to 40%
		Nitrate Nitrogen	FCO: 1985 Sch. II-B 3(iv)FCO: 1985 Sch. II-B 3(vii)	0.1% to 35%
		Ammoniacal Nitrogen	FCO: 1985 Sch. II-B 3(vii)	0.1% to 35%
		Urea Nitrogen	FCO: 1985 Sch. II-B 3(xi)	0.1% to 20%
		Water soluble P ₂ O ₅	FCO: 1985 Sch. II-B 4(iii)	0.1% to 70%
		Water soluble K ₂ O	FCO: 1985 Sch. II-B 5(ii)	0.1% to 50%
		Sodium (as NaCl)	FCO: 1985 Sch. II-B 17	0.01% to 10%
		Total Chlorides (as Cl)	FCO: 1985 Sch. II-B 18	0.1% to 10 %
		Magnesium (as MgO)	FCO: 1985 Sch. II-B 19(A)	0.01% to 25.0%
28.	NPK Fertiliser Granulated Mixtures	Sulphur (as S)	FCO: 1985 Sch. II-B 24(a)	0.1% to 25%
		Water soluble calcium	FCO: 1985 Sch. II-B 21 A	0.1% to 25%
		Matter insoluble in water	FCO: 1985 Sch. II-B 8(vii) (a)	0.1% to 99%
		Total nitrogen	FCO: 1985 Sch. II-B 3(iv)	0.1% to 30%
		Total P ₂ O ₅	FCO: 1985 Sch. II-B 4(ii)	0.1% to 40%
		Available P ₂ O ₅	FCO: 1985 Sch. II-B 4(v)	0.1% to 40%
		Watersoluble P ₂ O ₅	FCO: 1985 Sch. II-B 4(iii)	0.1% to 40%
29.	Mixtures of Micronutrient Fertilisers	Water Soluble K ₂ O	FCO: 1985 Sch. II-B 5(ii)	0.1% to 35%
		Particle size 5.6 & 1.0 mm IS Sieve	FCO: 1985 Sch. II-B 20	0.1% to 100%
		Copper as Cu	FCO: 1985 Sch. II-B 22A	0.01% to 10.0%
		Iron as Fe	FCO: 1985 Sch. II-B 22A	0.01% to 10.0%
		Manganese as Mn	FCO: 1985 Sch. II-B 22A	0.01% to 10.0%

Laboratory Fertiliser Control Laboratory, Tapovan Road, Amravati, Maharashtra
Accreditation Standard ISO/IEC 17025: 2005
Certificate Number TC-7329 (*in lieu of T-2132*) **Page 7 of 7**
Validity 24.05.2018 to 23.05.2020 **Last Amended on** 28.05.2018

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Zinc as Zn	FCO: 1985 Sch. II-B 22A	0.01% to 20.0%
		Boron as B	FCO: 1985 Sch. II-B 22A	0.01% to 10.0%
		Molybdenum as Mo	FCO: 1985 Sch. II-B 22A	0.01% to 1.0%