

Laboratory	Fertiliser Control Laboratory, Krishibhavan, Shivajinagar, Pune, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	01.03.2015
Certificate Number	T-1228	Valid Until	28.02.2017
Last Amended on	-	Page	1 of 15

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 % N), Urea (46 % N), Ammonium Chloride (25 % N), Calcium Ammonium Nitrate (25 % N), Calcium Ammonium Nitrate (26 % N)	Moisture % by weight. Oven Dry Method (at 129-131 °C other than Urea)	FCO 1985, Schedule II Part B-2 (i)(c)	0.1 % to 10 %
		Moisture % by weight. Oven Dry Method (at 70 ± 5) applicable to Urea	FCO 1985, Schedule II Part B-2 (ii)	0.1 % to 10 %
		Ammonical Nitrogen % by weight	FCO 1985, Schedule II Part B-3(vii)	0.1 % to 30 %
		Total Ammonical and Nitrate Nitrogen % by weight	FCO 1985, Schedule II Part B-3(v)	0.1 % to 30 %
		Free Acidity % by Weight	FCO 1985, Schedule II Part B-3(xiii)	0.1 % to 10 %
		Sulphur (as S) % by weight	FCO 1985, Schedule II Part B-24(a)	0.1 % to 30 %
		Total Nitrogen % by weight	FCO 1985, Schedule II Part B-3 (iv)	0.1 % to 50 %
		Biuret % by weight	FCO 1985, Schedule II Part B-3 (xii)	0.1 % to 5 %

Laboratory	Fertiliser Control Laboratory, Krishibhavan, Shivajinagar, Pune, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	01.03.2015
Certificate Number	T-1228	Valid Until	28.02.2017
Last Amended on	-	Page	2 of 15

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Ammonium Sulphate (20.6 % N), Urea (46 % N), Ammonium Chloride (25 % N), Calcium Ammonium Nitrate (25 % N), Calcium Ammonium Nitrate (26 % N)	Particle size	FCO 1985, Schedule II	
		pass through 1 mm IS sieve	Part B-20	1 % to 100 %
		pass through 2.8 mm IS sieve		1 % to 100 %
		pass through 4 mm IS sieve		1 % to 100 %
		pass through 13.2 mm IS sieve		1 % to 100 %
		pass through 9.5 mm IS sieve		1 % to 100 %
		Chloride other than ammonium Chloride (as NaCl) % by weight maximum	FCO 1985, Schedule II Part B-3 (xvi)	0.1 % to 5.0 %
		Calcium nitrate % by weight minimum	FCO 1985, Schedule II Part B-3 (xv)	0.1 % to 5.0 %
		Total ammonical and nitrate nitrogen % by weight minimum	FCO 1985, Schedule II Part B-3 (viii)	0.1 to 30.0
2.	Straight-Phosphatic Fertilisers			
a.	Single Super Phosphate (16 % P₂O₅), Triple Super phosphate (46 % P₂O₅), Rock Phosphate (18 % P₂O₅)	Particle size	FCO 1985, Schedule II	
		pass through 4 mm IS sieve	Part B-20	1 % to 100 %
		pass through 1 mm IS sieve		1 % to 100 %
		pass through .15 mm IS sieve		1 % to 100 %
		Retain on .25 mm IS sieve		1 % to 100 %
		Moisture % by weight Oven Dry method	FCO 1985, Schedule II Part B-2 (i) (C)	1 % to 15 %
		Free Phosphoric acid % by weight	FCO 1985, Schedule II Part B-4 (vii)	1 % to 5 %

Laboratory	Fertiliser Control Laboratory, Krishibhavan, Shivajinagar, Pune, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	01.03.2015
Certificate Number	T-1228	Valid Until	28.02.2017
Last Amended on	-	Page	3 of 15

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Single Super Phosphate (16 % P₂O₅), Triple Super phosphate (46 % P₂O₅), Rock Phosphate (18 % P₂O₅)	Total phosphates (as P ₂ O ₅) % by weight	FCO 1985, Schedule II Part B-4-ii (3).	1 % to 50.0 %
		Neutral ammonium citrate soluble phosphate (as P ₂ O ₅) % by weight	FCO 1985, Schedule II Part B-4 (ii) & (iv).	1 % to 20.0 %
		Water Soluble phosphate (as P ₂ O ₅) % by weight	FCO 1985, Schedule II Part B-4 (iii).	1 % to 50.0 %
		Sulphur (as S) % by weight	FCO 1985, Schedule II Part B-24 (b)	1 % to 15.0 %
3.	Straight Potassic Fertiliser			
a.	Potassium Chloride (Muriate of Potash) (60 % K₂O), Potassium Sulphate (50 % K₂O), Potassium Schoenite (23% K₂O)	Moisture % by weight. Oven Dry Method	FCO 1985, Schedule Part B-2 (i) (c)	0.1 % to 5.0 %
		Water soluble potash content (as) % by weight	FCO 1985, Schedule II Part B-5- (ii)	1 % to 65.0 %
		Sodium as NaCl % by weight	FCO 1985, Schedule II Part B-17	0.1 % to 8.0 %
		Particle size % pass through 1.7 mm IS sieve pass through 0.25 mm IS sieve	FCO 1985, Schedule II Part B-20	1 % to 100 % 1 % to 100 %
		Total Chloride (as cl) .% by weight	FCO 1985, Schedule II Part B-18	0.1 % to 5.0 %
		Sulphur (as S) % by weight	FCO 1985, Schedule II Part B-24 (b)	0.1 % to 20.0 %

Laboratory	Fertiliser Control Laboratory, Krishibhavan, Shivajinagar, Pune, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	01.03.2015
Certificate Number	T-1228	Valid Until	28.02.2017
Last Amended on	-	Page	4 of 15

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
4.	N.P. Complex Fertilisers			
	DAP (18-46-00), APS (16-20-00), APS (20-20-00), APSN (20-20-0), NP (20-20-0), MAP (11-52-0), NP (23-23-0), ANP (23-23-0), AP (14-28-0), DAP (14-46-0), NP (24-24-0), MAP (11-44-0), UAP (28-28-0), UAP (24-24-0), NP (23-23-0), ANP (23-23-0)	Moisture % by weight Vacuum desiccation Method % Total Nitrogen % by weight % Total Nitrogen % by weight Ammonical nitrogen form % by weight Total nitrogen in the form of urea % by weight Nitrate nitrogen % by weight Total Nitrate nitrogen % by weight Neutral ammonium citrate soluble phosphate (as P ₂ O ₅) % by weight. min. Water Soluble phosphate (as P ₂ O ₅) % by weight Particle size pass through 4 mm IS sieve pass through 1 mm IS sieve Calcium nitrate % by weigh	FCO 1985, Schedule II Part B-2 (ii) FCO 1985, Schedule II Part B-3 (iv) FCO 1985, Schedule II Part B-3 (v) FCO 1985, Schedule II Part B-3 (vii) FCO 1985, Schedule II Part B-3 (xi) FCO 1985, Schedule II Part B-3 (ix) FCO 1985, Schedule II Part B-3 (viii) FCO 1985, Schedule II Part B-4 (ii) & (iv) FCO 1985, Schedule II Part B-4 (iii) FCO 1985, Schedule II Part B-20 FCO 1985, Schedule II	0.1 % to 5.0 % 0.1 % to 30.0 % 0.1 % to 25.0 % 0.1 % to 25.0 % 0.1 % to 10.0 % 0.1 % to 15.0 % 0.1 % to 25.0 % 0.1 % to 51.0 % 0.1 % to 46.0 % 1 % to 100 % 1 % to 100 % 0.1 % to 5.0 %

Laboratory	Fertiliser Control Laboratory, Krishibhavan, Shivajinagar, Pune, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	01.03.2015
Certificate Number	T-1228	Valid Until	28.02.2017
Last Amended on	-	Page	5 of 15

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
			Part B-3 (xv)	
5.	N.P.K. COMPLEX FERTILISERS			
	NPWP (15-15-15), NPK (10-26-26), NPK (12.32.16), NPK (14-35-14), NPK (17-17-17), NPK (14-28-14), NPK (19-19-19), NPK (22-22-11), NPK (15-15-15), NPK (16-16-16)	Moisture % by weight Vacuum desiccation Method	FCO 1985 Schedule II Part B-2 (ii)	0.1 % to 5.0 %
		Total nitrogen form % by weight	FCO 1985 Schedule II Part B-3 (v)	1 % to 25.0 %
		Total nitrogen form % by weight	FCO 1985 Schedule II Part B-3 (iv)	1 % to 25.0 %
		Nitrogen in Ammonical form % by weight	FCO 1985 Schedule II Part B-3 (vii)	1 % to 19.0 %
		Nitrogen in nitrate form % by weight	FCO 1985 Schedule II Part B-3 (ix)	1 % to 13.0 %
		Total Nitrate nitrogen % by weight.	FCO 1985, Schedule II Part B-3 (viii)	1 % to 40.0 %
		Neutral ammonium citrate soluble phosphates(as P ₂ O ₅) % by weight	FCO 1985, Schedule II Part B-4 (ii) & (iv)	1 % to 40.0 %
		Water Soluble phosphate (as P ₂ O ₅) % by weight	FCO 1985, Schedule II Part B-4 (iii)	1 % to 35.0 %
		Water soluble Potash (as K ₂ O) % by weight	FCO 1985, Schedule II Part B-5 (ii)	1 % to 30 %
		Particle size pass through 4 mm IS sieve	FCO 1985, Schedule II Part B-20	1 % to 100 %
		pass through 1 mm IS sieve		1 % to 100 %
		Calcium nitrate % by weight	FCO 1985 Schedule II	0.1 % to 5.0 %

Laboratory	Fertiliser Control Laboratory, Krishibhavan, Shivajinagar, Pune, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	01.03.2015
Certificate Number	T-1228	Valid Until	28.02.2017
Last Amended on	-	Page	6 of 15

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
			Part B-3 (xv)	
6.	MICRONUTRIENT FERTILISERS			
a.	Zinc Sulphate Heptahydrate (ZnSo₄.7 H₂O) (21% Zn)	Matter insoluble in water % by weight	FCO 1985, Schedule II Part B-7 (ii)	0.1 % to 100.0 %
		Zinc (as Zn) % by weigh	FCO 1985, Schedule II Part B- 8 (ii)	0.001 % to 26.0 %
		Lead (as Pb) % by weight	FCO 1985, Schedule II Part B-8 (v)	0.001 % to 1.0 %
		Copper (as Cu) % by weight	FCO 1985, Schedule II Part B-8 (iv)	0.01 % to 2.0 %
		Magnesium (as Mg) % by weight maximum	FCO 1985, Schedule II Part B-8 (iii)	0.01 % to 1.0 %
		pH	FCO 1985, Schedule II Part B-8 (vi)	1 to 12
		Sulphur (as S) % by weight	FCO 1985, Schedule II Part B-24 (a)	0.1 % to 15.0 %
b.	Manganese Sulphate (30.5 % Mn)	Matter insoluble in water % by weight	FCO 1985, Schedule II Part B-7 (ii)	0.1 % to 100.0 %
		Manganese (as Mn) content % by weight	FCO 1985, Schedule II Part B-9 (ii)	0.001 % to 35.0 %

Laboratory	Fertiliser Control Laboratory, Krishibhavan, Shivajinagar, Pune, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	01.03.2015
Certificate Number	T-1228	Valid Until	28.02.2017
Last Amended on	-	Page	7 of 15

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Manganese Sulphate (30.5 % Mn)	Copper (as Cu) % by weight	FCO 1985, Schedule II Part B-8 (iv)	0.01 % to 2.0 %
		Magnesium (as Mg) % by weight	FCO 1985, Schedule II Part B-8 (iii)	0.01 % to 35.0 %
		pH	FCO 1985, Schedule II Part B-8 (vi)	1 to 12
		Sulphur (as S) % by weight	FCO 1985, Schedule II Part B-24 (a)	0.1 % to 22.0 %
c.	Borax (Sodium Tetra borate) (Na₂B₄O₇ 10 H₂O) for soil application (10.5 % B)	Boron (B) % by weight	FCO 1985 Schedule II Part B-11 (ii) A & B	0.01 % to 15.0 %
		Matter insoluble in water % by weight	FCO 1985 Schedule II Part B-7 (ii)	0.1 % to 100.0 %
		pH	FCO 1985, Schedule II Part B-8 (vi)	1 to 12
		Lead (as Pb) % by weight	FCO 1985, Schedule II Part B-11 (v)/ B- 8 (v)	0.01 % to 1.0 %
d.	Copper Sulphate (CuSO₄.5H₂O) (24 % Cu)	Copper (as Cu) % by weight	FCO 1985, Schedule II Part B-12 (ii) A	0.001 % to 29.0 %
		Matter insoluble in water % by weight	FCO 1985, Schedule II Part B-7 (ii)	0.1% to 100.0 %

Laboratory	Fertiliser Control Laboratory, Krishibhavan, Shivajinagar, Pune, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	01.03.2015
Certificate Number	T-1228	Valid Until	28.02.2017
Last Amended on	-	Page	8 of 15

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Copper Sulphate (CuSO₄.5H₂O) (24 % Cu)	Soluble iron and aluminum compounds (expressed as Fe) % by weight	FCO 1985, Schedule II Part B-13 (iii) b	0.1 % to 2.0 %
		Lead (as Pb) % by weight	FCO 1985 Schedule II Part B-12-III/B- 8 (v)	0.001 % to 1.0 %
		pH	FCO 1985, Schedule II Part B-8 (vi)	1.0 to 12
		Sulphur (as S) % by weight	FCO 1985 Schedule II Part B-24 (a)	0.001 % to 15.0 %
e.	Ferrous Sulphate (FeSO₄.7H₂O) (19% Fe)	Ferrous iron (as Fe) % by weight	FCO 1985, Schedule II Part B-13 (iii) B	0.001 % to 24.0 %
		Free acid (as H ₂ SO ₄) % by weight	FCO 1985, Schedule II Part B-3 (xiii)	0.01 % to 5.0 %
		Ferric iron (as Fe) % by weight	FCO 1985, Schedule II Part B-13 (iv)	0.01 % to 5.0 %
		Matter insoluble in water % by weight	FCO 1985, Schedule II Part B-7 (ii)	0.1% to 100.0 %
		pH	FCO 1985, Schedule II Part B-8 (vi)	1.0 to 12
		Lead (as Pb) % by weight	FCO 1985, Schedule II Part B-8 (v)	0.001% to 1.0 %

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Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	01.03.2015
Certificate Number	T-1228	Valid Until	28.02.2017
Last Amended on	-	Page	9 of 15

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Ferrous Sulphate (FeSO₄.7H₂O) (19% Fe)	Sulphur (as S) % by weight	FCO 1985, Schedule II Part B-24 (a)	0.001 % to 15.0 %
f.	Ammonium Molybdate (NH₄)₆MO₇O₂₄.4H₂O (52% Mo)	Molybdenum (as Mo) % by weight	FCO 1985, Schedule II Part B-14 (ii)(A)	0.001 % to 57.0 %
		Matter insoluble in water % by weight	FCO 1985, Schedule II Part B-7 (ii)	0.1 % to 100.0 %
		Lead (as Pb) % by weight	FCO 1985, Schedule II Part B-8 (v)	0.001 % to 1.0 %
g.	Zinc Sulphate Monohydrate (ZnSO₄, H₂O) (33% Zn)	Matter insoluble in water % by weight	FCO 1985, Schedule II Part B-7 (ii)	0.1 % to 100.0 %
		Zinc (as Zn), % by weight	FCO 1985, Schedule II Part B-8 (ii)	0.001 % to 38.0 %
		Lead (as Pb) % by weight	FCO 1985, Schedule II Part B-8 (v)	0.001 % to 1.0 %
		Copper (as Cu) % by weight	FCO 1985, Schedule II Part B-8 (iv)	0.01 % to 2.0 %
		Magnesium (as Mg) % by weight	FCO 1985, Schedule II Part B-8 (iii)	0.01 % to 3.0 %
	Iron (as Fe) % by weight	FCO 1985, Schedule II Part B-13 (iii) b	0.01 % to 5.0 %	

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Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	01.03.2015
Certificate Number	T-1228	Valid Until	28.02.2017
Last Amended on	-	Page	10 of 15

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Zinc Sulphate Monohydrate (ZnSO₄, H₂O) (33% Zn)	pH	FCO 1985, Schedule II Part B-8 (vi)	1 to12
		Sulphur (as S) % by weight	FCO 1985, Schedule II Part B-24 (a)	0.001 % to 20.0 %
		Cadmium(as Cd) % by weight	FCO 1985, Schedule II Part B-7 (x)	0.0001% to 2.0 %
		Arsenic (as As) % by weight	FCO 1985, Schedule II Part B-9 (x)	0.001% to 2.0 %
h.	Magnesium Sulphate (9.6 % Mg)	Matter insoluble in water % by weight	FCO 1985, Schedule II Part B-7 (ii)	0.1 % to 100.0 %
		Lead (as Pb) % by weight	FCO 1985, Schedule II Part B-8 (v)	0.001 % to 1.0 %
		Magnesium (as Mg), % by weight	FCO 1985, Schedule II Part B-19 (ii) A and B	0.01 % to 15.0 %
		pH	FCO 1985, Schedule II Part B-8 (vi)	1 to 12
		Sulphur (as S) % by weight	FCO 1985 Schedule II Part B-24 (a)	0.01 % to 17.0 %

Laboratory	Fertiliser Control Laboratory, Krishibhavan, Shivajinagar, Pune, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	01.03.2015
Certificate Number	T-1228	Valid Until	28.02.2017
Last Amended on	-	Page	11 of 15

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
i.	Boric Acid (H₃BO₃) (17 % B), Di-Sodium Octa Borate Tetra Hydrate, Di-Sodium Tetra borate Penta Hydrate (15 % B)	Boron (as B) % by weight	FCO 1985 Schedule II Part B-11 (ii) B	0.001 % to 27.0 %
		Matter insoluble in water % by weight	FCO 1985 Schedule II Part B-7 (ii)	0.1 % to 100.0 %
		Lead (as Pb) % by weight]	FCO 1985, Schedule II Part B-8 (v)	0.001 % to 1.0 %

Laboratory	Fertiliser Control Laboratory, Krishibhavan, Shivajinagar, Pune, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	01.03.2015
Certificate Number	T-1228	Valid Until	28.02.2017
Last Amended on	-	Page	12 of 15

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
j.	Inorganic/ Chealated soil application Grade I, Inorganic/ Chealated Foliar application Grade II, Soil Application for Acid Soil, Soil Application for Alkaline Soil, Foliar Application for Acid Soil, Foliar Application For Alkalinc Soil , Soil Application For Acid Soil (For Zinc Deficiency, Soil Application For Alkaline Soil (For Ferrous Zinc Deficiency), Foliar Application For Acid Soil (For Zinc Deficiency), Foliar Application For Alkaline Soil (For Pulse Crop), Foliar Application For Alkalinc Soil (For Cotton Crop)	Iron % by weight	FCO 1985, Schedule II Part B-13 (iii) B	0.01 % to 7.0 %
		Manganese % by weight	FCO 1985, Schedule II Part B-9 (ii)	0.01 % to 5.0 %
		Zinc % by weight	FCO 1985, Schedule II Part B-8 (ii)	0.01 % to 15.0 %
		Copper % by weight	FCO 1985, Schedule II Part B-8 (iv)	0.01 % to 5.0 %
		Boron % by weight	FCO 1985, Schedule II Part B-11 (ii) A	0.01 % to 5.0 %
		Molybdenum % by weight	FCO 1985, Schedule II Part B-14 (ii)(A)	0.01 % to 2.0 %

Laboratory	Fertiliser Control Laboratory, Krishibhavan, Shivajinagar, Pune, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	01.03.2015
Certificate Number	T-1228	Valid Until	28.02.2017
Last Amended on	-	Page	13 of 15

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
7.	100 % WATER SOLUBLE COMPLEX FERTILISERS			
	Potassium Nitrate 13.00.45, Mono-Potassium Phosphate 00.52.34, Calcium Nitrate (15.5 % N), 13.40.13, 18.18.18, 13.05.26, 06.12.36, 20.20.20, 19:19:19, Mono Ammonium Phosphate 12.61.00, Urea Phosphate (17-44-0)	Moisture % by weight Vacuum desiccation Method	FCO 1985, Schedule II Part B-2 (ii)	0.1 % to 5.0 %
		Total nitrogen (all in nitrate form)% by weight	FCO 1985, Schedule II Part B-3 (iii)	0.1 % to 20 %
		Nitrate nitrogen as N by weight	FCO 1985, Schedule II Part B-3 (iv)	0.1 % to 20 %
		Total nitrogen form % by weight	FCO 1985, Schedule II Part B-3 (v)	0.1 % to 25 %
		Ammonical nitrogen form % by weight	FCO 1985, Schedule II Part B-3 (vii)	0.1 % to 15 %
		Water Soluble phosphate(as P ₂ O ₅) % by weight	FCO 1985, Schedule II Part B-4 (iii)	0.1 % to 66 %
		Water Soluble potash (as K ₂ O) % by weight	FCO 1985, Schedule II Part B-5 (ii)	0.1 % to 50 %
		Sodium (as Na) % by weight on dry basis	FCO 1985, Schedule II Part B-17	0.1 % to 5.0 %
		Total chloride (as Cl)(on dry basis) % by weight	FCO 1985, Schedule II Part B-18	0.1 % to 6.0 %
		Matter insoluble in water % by weight	FCO 1985, Schedule II Part B-7 (ii)	0.1 % to 100 %
		Sodium (as NaCl) % by weight on dry basis	FCO 1985, Schedule II Part B-17	0.1 % to 5.0 %

Laboratory	Fertiliser Control Laboratory, Krishibhavan, Shivajinagar, Pune, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	01.03.2015
Certificate Number	T-1228	Valid Until	28.02.2017
Last Amended on	-	Page	14 of 15

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
8.	Granulated/Physical Mixture Of Fertilisers			
	N.P.K. 18.18.10, 10.20.20, 20.10.10, 20.20.00, 10.20.10	Total Nitrogen % by weight	FCO 1985, Schedule II Part B-3 (iv)	0.1 % to 25 %
		Total phosphate %by weight minimum	FCO 1985, Schedule II Part B-4-ii (3)	0.1 % to 25 %
		Neutral ammonium citrate soluble Phosphates (as P ₂ O ₅) % by weight min.	FCO 1985, Schedule II Part B-4-(iv)	0.1 % to 23 %
		Water soluble Phosphates (as P ₂ O ₅)	FCO 1985, Schedule II Part B-4 (iii)	0.1 % to 14 %
		Water soluble Potash (as K ₂ O) % by weight minimum.	FCO 1985, Schedule II Part B-5 (ii)	0.1 % to 25 %
		Particle size pass through 5.6 mm IS sieve pass through 1 mm IS sieve	FCO 1985, Schedule II Part B-2 (iii)	1 % to 100 % 1 % to 100 %

Laboratory	Fertiliser Control Laboratory, Krishibhavan, Shivajinagar, Pune, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	01.03.2015
Certificate Number	T-1228	Valid Until	28.02.2017
Last Amended on	-	Page	15 of 15

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
9.	Organic Fertilisers Mixture			
	N:P:K (PM) 05.10.05, N:P (PM) 05.10.00	Organic Nitrogen % by weight minimum	FCO 1985, Schedule II Part B-3 (v)	0.1 % to 10 %
		Total Phosphate (as P ₂ O ₅) % by weight minimum	FCO 1985, Schedule II Part B-4-ii (3)	0.1 % to 15 %
		2% citric soluble phosphates (as P ₂ O ₅) % by weight minimum	FCO 1985, Schedule II Part B-4 (vi)	0.1 % to 5 %
		Water soluble Potash (as K ₂ O) % by weight minimum	FCO 1985, Schedule II Part B-5 (ii)	0.1 % to 10 %
		Particle size pass through 2.66 mm IS sieve pass through 0.5 mm IS sieve	FCO 1985, Schedule II Part B-2 (iii)	1 % to 100 % 1 % to 100 %

-X-X-X-X-X-X-X-X-X-X-X-X-