

Product Specification

1. Ammonium Sulphate

(i)	Moisture per cent by weight, maximum	1.0
(ii)	Ammoniacal nitrogen, per cent by weight, minimum	20.6
(iii)	Free acidity (as H ₂ SO ₄), per cent by weight, maximum (0.04 for material obtained from by-product ammonia and by-product gypsum)	0.025
(iv)	Arsenic as (As ₂ O ₃) per cent by weight, maximum	0.01
(v)	Sulphur (as S) ,per cent by weight, minimum	23.0

2. Urea (46% N) (While free flowing)

(i)	Moisture, per cent by weight, maximum	1.0
(ii)	Total nitrogen, per cent by weight, (on dry basis) minimum	46.0
(iii)	Biuret, per cent by weight, maximum	1.5

3. Urea (coated) (45% N) (While free flowing)

(i)	Moisture, per cent by weight, maximum	0.5
(ii)	Total nitrogen, per cent by weight, content with coating, minimum	45.0
(iii)	Biuret, per cent by weight, maximum	1.5

4. Ammonium Chloride

(i)	Moisture, per cent by weight, maximum	2.0
(ii)	Ammoniacal nitrogen, per cent by weight, minimum	25.0
(iii)	Chloride other than ammonium chloride (as NaCl), per cent by weight, (on dry basis) maximum	2.0

Calcium Ammonium Nitrate (25 % N)

(i)	Moisture, per cent by weight, maximum	1.00
(ii)	Total ammoniacal and nitrate nitrogen, per cent by weight, minimum	25.0
(iii)	Ammoniacal nitrogen, per cent by weight, minimum	12.5
(iv)	Calcium nitrate, per cent by weight, maximum	0.5

Calcium Ammonium Nitrate (26% N)

(i)	Moisture, per cent by weight, maximum	1.0
(ii)	Total ammoniacal and nitrate nitrogen, per cent by weight, minimum	26.0
(iii)	Ammoniacal nitrogen, per cent by weight, minimum	13.0

(iv) Calcium nitrate, per cent by weight, maximum 0.5

Anhydrous Ammonia

(i) Ammonia per cent by weight, minimum 99.0

(ii) Water, per cent by weight, maximum 1.0

(iii) Oil content by weight, maximum 20 ppm

Urea Super Granulated

(i) Moisture, per cent by weight, maximum 1.00

(ii) Total nitrogen, per cent by weight (on dry basis), minimum 46.00

(iii) Biuret per cent by weight, maximum 1.5

Urea (Granular)

(i) Moisture, per cent by weight, maximum 1.00

(ii) Total nitrogen, per cent by weight, minimum 46.00

(iii) Biuret per cent by weight, maximum 1.5

Urea Ammonium Nitrate (32%) (liquid)

(i) Total Nitrogen, per cent by weight, minimum 32.0

(ii) Urea Nitrogen, per cent by weight, maximum 16.6

(iii) Ammoniacal Nitrogen, per cent by weight, minimum 7.7

(iv) Nitrate Nitrogen, per cent by weight, minimum 7.7

(v) Specific gravity (at 15^o C) 1.32

(vi) Free ammonia (as NH₃) per cent by weight, Maximum 0.10

Single Superphosphate (16% P₂O₅ Powdered)

(i)	Moisture, per cent by weight, maximum	12.0
(ii)	Free phosphoric acid (as P ₂ O ₅), per cent by weight, maximum	4.0
(iii)	Water soluble phosphates (as P ₂ O ₅) per cent by weight, minimum	16.0
(iv)	Sulphur (as S),per cent by weight ,minimum.	11.0

2. Single Superphosphate (14% P₂O₅ Powdered)

(i)	Moisture per cent by weight, maximum	12.0
(ii)	Free phosphoric acid (as P ₂ O ₅), per cent by weight, maximum	4.0
(iii)	Water soluble phosphates (as P ₂ O ₅), per cent by weight, minimum	14.0
(iv)	Sulphur (as S),per cent by weight ,minimum.	11.0

3. Triple Superphosphate

(i)	Moisture per cent by weight, maximum	12.0
(ii)	Free phosphoric acid (as P ₂ O ₅), per cent by weight, maximum	3.0
(iii)	Total phosphates (as P ₂ O ₅), per cent by weight, minimum	46.0
(iv)	Water soluble phosphates (as P ₂ O ₅), per cent by weight, minimum	42.5

4. Bone meal, Raw

(i)	Moisture, per cent by weight, maximum	8.0
(ii)	Acid insoluble matter, per cent by weight, maximum	12.0
(iii)	Total phosphates (as P ₂ O ₅), per cent by weight, minimum	20.0
(iv)	2 per cent citric acid soluble phosphates (as P ₂ O ₅), per cent by weight, minimum	8.0
(v)	Nitrogen content of water insoluble portion, per cent by weight, minimum	3.0

5. Bone meal, Steamed

(i)	Moisture per cent by weight, maximum	7.0
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| (ii) Total phosphates (as P ₂ O ₅), per cent by weight, (on dry basis), minimum | 22.0 |
| 2 per cent citric acid soluble phosphates (as P ₂ O ₅) | 16.0 |
| (iii) per cent by weight (on dry basis), minimum | |

6. Rock phosphate

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| (i) Particle size-Minimum 90 per cent of the material shall pass through 0.15 mm IS sieve and the balance 10 per cent of material shall pass through 0.25 mm IS sieve. | |
| (ii) Total Phosphate (as P ₂ O ₅), per cent by weight. minimum | 18.0 |

7. Single Superphosphate (16% P₂O₅ Granulated)

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|---|------|
| (i) Moisture, per cent by weight, maximum | 5.0 |
| (ii) Free phosphoric acid (as P ₂ O ₅), per cent by weight, maximum | 4.0 |
| Water soluble phosphates (as P ₂ O ₅), per cent by weight, minimum | 16.0 |
| (iii) | |
| (iv) Particle size -Not less than 90 per cent of the material shall pass through 4 mm IS sieve and shall be retained on 1 mm IS sieve. Not more than 5 per cent shall pass through 1 mm IS sieve. | |
| (v) Sulphur (as S),per cent by weight ,minimum. | 11.0 |

8. Superphosphoric Acid (70% P₂O₅) (liquid)

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| (i) Total phosphate (asP ₂ O ₅), per cent by weight, minimum | 70.0 |
| (ii) Polyphosphate (asP ₂ O ₅), per cent by weight, minimum | 18.9 |
| (iii) Methanol Insoluble matter, per cent by weight, maximum | 1.0 |
| (iv) Magnesium (as MgO), per cent by weight, maximum | 0.5 |
| (v) Specific gravity (at 24*c) | 1.96 |

1(c) STRAIGHT POTASSIC FERTILISERS

1. Potassium Chloride (Muriate of Potash)

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| (i) Moisture, per cent by weight, maximum | 0.5 |
| (ii) Water soluble potash content (as K ₂ O), per cent by weight, minimum | 60.0 |
| (iii) Sodium as NaCl, per cent by weight (on dry basis), maximum | 3.5 |

2. Potassium Sulphate

(i)	Moisture, per cent by weight, maximum	1.5
(ii)	Potash content (as K ₂ O), per cent by weight, minimum	50.00
(iii)	Total chlorides (as Cl), per cent by weight, (on dry basis) maximum	2.5
(iv)	Sodium as NaCl, per cent by weight, (on dry basis), maximum	2.0
(v)	Sulphur (as S), per cent by weight, minimum	17.5

3. Potassium Schoenite

(i)	Moisture, per cent by weight, maximum	1.5
(ii)	Potash content (as K ₂ O), per cent by weight (on dry basis), minimum	23.00
(iii)	Magnesium oxide (as MgO), per cent by weight, maximum	10.0
(iv)	Sodium (as NaCl) (on dry basis), per cent by weight, maximum	1.5

4. Potassium Chloride (Muriate of Potash) (Granular)

(i)	Moisture, per cent by weight, maximum	0.5
(ii)	Water soluble potash (as K ₂ O), per cent by weight, minimum	60.0
(iii)	Sodium (as NaCl), per cent by weight, maximum	3.5
(iv)	Magnesium (as MgCl ₂), per cent by weight, maximum	1.0

1(d). N.P.[COMPLEX] FERTILISERS

1.Deleted vide S.O. 377(E) dt. 29.5.1992

2. Diammonium Phosphate (18-46-0)

(i)	Moisture, per cent by weight, maximum	1.5
(ii)	Total nitrogen, per cent by weight, minimum	18.0
(iii)	Ammoniacal nitrogen form, per cent by weight, minimum	15.5
(iv)	Total nitrogen in the form of urea, per cent by weight, maximum	2.5
(v)	Neutral ammonium citrate soluble phosphates (as P ₂ O ₅), per cent by weight, minimum	46.0

(vi)	Water soluble phosphates (as P ₂ O ₅), per cent by weight, minimum	41.0
3. Ammonium Phosphate Sulphate (16-20-0)		
(i)	Moisture per cent by weight, maximum	1.0
(ii)	Total ammoniacal nitrogen, per cent by weight, minimum	16.0
(iii)	Neutral ammonium citrate soluble phosphates (as P ₂ O ₅), per cent by weight, minimum	20.0
(iv)	Water soluble phosphates (as P ₂ O ₅), per cent by weight, minimum	19.5
(v)	Particle size—[not less than]90 per cent of the material shall pass through 4 mm IS sieve and shall be retained on 1 mm IS sieve. Not more than 5 per cent shall be below 1 mm IS sieve.	
(vi)	Sulphur (as S),per cent by weight ,minimum.	13.0
4. Ammonium Phosphate Sulphate (20-20-0)		
(i)	Moisture, per cent by weight, maximum	1.0
(ii)	Total nitrogen, per cent by weight, minimum	20.0
(iii)	Ammoniacal nitrogen, per cent by weight, minimum	18.0
(iv)	Nitrogen in the form of urea, per cent by weight, maximum	2.0
(v)	Neutral ammonium citrate soluble phosphates (as P ₂ O ₅), per cent by weight, minimum	20.0
(vi)	Water soluble phosphates (as P ₂ O ₅), per cent by weight, minimum	17.0
(vii)	Sulphur (as S),per cent by weight ,minimum	13.0
5. Ammonium Phosphate Sulphate Nitrate (20-20-0)		
(i)	Moisture, per cent by weight, maximum	1.5
(ii)	Total nitrogen, per cent by weight, minimum	20.0
(iii)	Ammoniacal nitrogen, per cent by weight, minimum	17.0
(iv)	Nitrate nitrogen, per cent by weight, maximum	3.0
(v)	Neutral ammonium citrate soluble phosphates (as P ₂ O ₅) per cent by weight, minimum	20.0
(vi)	Water soluble phosphates (as P ₂ O ₅), per cent by weight, minimum	17.0

6. Ammonium Phosphate Sulphate (18-9-0)

(i)	Moisture, per cent by weight, maximum	1.0
(ii)	Ammoniacal nitrogen, per cent by weight, minimum	18.0
(iii)	Neutral ammonium citrate soluble phosphates (as P ₂ O ₅) per cent by weight, minimum	9.0
(iv)	Water soluble phosphates (as P ₂ O ₅), per cent by weight, minimum	8.5

7. Nitro Phosphate (20-20-0)

(i)	Moisture, per cent by weight, maximum	1.5
(ii)	Total nitrogen, per cent by weight, minimum	20.0
(iii)	Nitrogen in ammoniacal form, per cent by weight, minimum	10.0
(iv)	Nitrogen in nitrate form, per cent by weight, maximum	10.0
(v)	Neutral ammonium citrate soluble phosphates (as P ₂ O ₅), per cent by weight, minimum	20.0
(vi)	Water soluble phosphates (as P ₂ O ₅), per cent by weight, minimum	12.0
(vii)	Calcium nitrate, per cent by weight, maximum	1.0

8. Urea Ammonium Phosphate (28-28-0)

(i)	Moisture, per cent by weight, maximum	1.5
(ii)	Total nitrogen, per cent by weight, minimum	28.0
(iii)	Ammoniacal nitrogen, per cent by weight, minimum	9.0
(iv)	Neutral ammonium citrate soluble phosphate (as P ₂ O ₅), per cent by weight, minimum	28.0
(v)	Water soluble phosphates (as P ₂ O ₅), per cent by weight, minimum	25.2

9. Urea Ammonium Phosphate (24-24-0)

(i)	Moisture, per cent by weight, maximum	1.5
(ii)	Total nitrogen, per cent by weight, minimum	24.0
(iii)	Ammoniacal nitrogen, per cent by weight, minimum	7.5

(iv)	Nitrogen in the form of urea per cent by weight, maximum	16.5
(v)	Neutral ammonium citrate soluble phosphates (as P ₂ O ₅) per cent by weight, minimum	24.0
(vi)	Water soluble phosphates (as P ₂ O ₅), per cent by weight, minimum	20.4

10. Urea Ammonium Phosphates (20-20-0)

(i)	Moisture, per cent by weight, maximum	1.5
(ii)	Total nitrogen, per cent by weight, minimum	20.0
(iii)	Ammoniacal nitrogen, per cent by weight, minimum	6.4
(iv)	Neutral ammonical citrate soluble phosphates (as P ₂ O ₅) per cent by weight, minimum	20.0
(v)	Water soluble phosphates (as P ₂ O ₅), per cent by weight, minimum	17.0

11. Mono Ammonium Phosphate (11-52-0)

(i)	Moisture, per cent by weight, maximum	1.0
(ii)	Total nitrogen all in ammoniacal form, per cent by weight, minimum	11.0
(iii)	Neutral ammonium citrate soluble phosphates (as P ₂ O ₅) per cent by weight, minimum	52.0
(iv)	Water soluble phosphates (as P ₂ O ₅), per cent by weight, minimum	44.2
(v)	Particle size-90 per cent of the material shall pass through 4 mm IS sieve and be retained on 1 mm IS sieve. Not more than 5 per cent shall be below 1 mm IS sieve.	

12. Nitrophosphate (23-23-0)

(i)	Moisture, per cent by weight, maximum	1.5
(ii)	Total nitrogen, per cent by weight, minimum	23.0
(iii)	Nitrogen in ammoniacal form, per cent by weight, minimum	11.5
(iv)	Nitrogen in nitrate form, per cent by weight, maximum	11.5

(v)	Neutral ammonium citrate soluble phosphates (as P ₂ O ₅) per cent by weight, minimum	23.0
(vi)	Water soluble phosphates (as P ₂ O ₅) per cent by weight, minimum	18.5
(vii)	Calcium nitrate, per cent by weight, maximum	1.0

13. Ammonium Nitrate Phosphate (23-23-0)

(i)	Moisture, per cent by weight, maximum	1.5
(ii)	Total nitrogen, per cent by weight, minimum	23.0
(iii)	Nitrogen in ammoniacal form, per cent by weight, minimum	13.0
(iv)	Nitrogen in nitrate form, per cent by weight, maximum	10.0
(v)	Neutral ammonium citrate soluble phosphate (as P ₂ O ₅) per cent by weight, minimum	23.0
(vi)	Water soluble phosphates (as P ₂ O ₅), per cent by weight, minimum	20.5

14. Ammonium Poly-phosphate (10-34-0)(Liquid)

(i)	Total Nitrogen (all as Ammoniacal Nitrogen), per cent by weight, Minimum	10.0
(ii)	Total Phosphate (as P ₂ O ₅), percent by weight, minimum	34.0
(iii)	Poly-phosphate(as P ₂ O ₅), percent by weight, minimum	22.1
(iv)	Magenesium (as MgO), per cent by weight, maximum	0.5
(v)	Specific gravity (at 27oC)	1.4
(vi)	pH	5.8-6.2

1 (e). N.P.K. . . .[COMPLEX] FERTILISER

1. Nitrophosphate with Potash (15-15-15)

(i)	Moisture, per cent by weight, maximum	1.5
(ii)	Total nitrogen, minimum	15.0
(iii)	Ammoniacal nitrogen, per cent by weight, minimum	7.5
(iv)	Nitrate nitrogen, per cent by weight, maximum	7.5

(v)	Neutral ammonium citrate soluble phosphates (as P ₂ O ₅), per cent by weight, minimum	15.0
(vi)	Water soluble phosphates (as P ₂ O ₅), per cent by weight, minimum	4.0
(vii)	Water soluble potash (as K ₂ O), per cent by weight, minimum	15.0
(viii)	Calcium nitrate, per cent by weight; maximum)	1.0

2. N.P.K. (10-26-26)

(i)	Moisture, per cent by weight, maximum	1.0
(ii)	Total nitrogen, per cent by weight, minimum	10.0
(iii)	Ammoniacal nitrogen, per cent by weight, minimum	7.0
(iv)	Nitrogen in the form of urea, per cent by weight, maximum	3.0
(v)	Neutral ammonium citrate soluble phosphate (as P ₂ O ₅), per cent by weight, minimum	26.0
(vi)	Water soluble potash (as K ₂ O), per cent by weight, minimum	26.0
(vii)	Water soluble phosphate (as P ₂ O ₅), per cent by weight, minimum	22.1

Particle size- Particle size of the material will be such that
(viii 90 per cent of the material will be between 1 mm and 4mm
) IS sieve and not more than 5 per cent will be below 1 mm size.

3. N.P.K. (12-32-16)

(i)	Moisture, per cent by weight, maximum	1.0
(ii)	Total nitrogen, per cent by weight, minimum	12.0
(iii)	Ammoniacal nitrogen, per cent by weight, minimum	9.0
(iv)	Nitrogen in the form of urea, per cent by weight, maximum	3.0
(v)	Neutral ammonium citrate soluble phosphate (as P ₂ O ₅) per cent by weight, minimum	32.0
(vi)	Water soluble phosphate (as P ₂ O ₅), per cent by weight, minimum	27.2
(vii)	Water soluble potash (asK ₂ O), per cent by weight, minimum	16.0

4. N.P.K (22-22-11)

(i)	Moisture, per cent by weight, maximum	1.5
(ii)	Total nitrogen, per cent by weight, minimum	22.0
(iii)	Ammoniacal nitrogen, per cent by weight, minimum	7.0
(iv)	Urea nitrogen, per cent by weight, maximum	15.0
(v)	Neutral ammonium citrate soluble phosphate (as P ₂ O ₅), per cent by weight, minimum	22.0
(vi)	Water soluble phosphates (as P ₂ O ₅), per cent by weight, minimum	18.7
(vii)	Water soluble potash (as K ₂ O), per cent by weight, minimum	11.0

5. N.P.K. (14-35-14)

(i)	Moisture, per cent by weight, maximum	1.0
(ii)	Nitrogen in ammoniacal form, per cent by weight, minimum	14.0
(iii)	Neutral ammonium citrate soluble phosphates (as P ₂ O ₅) per cent by weight, minimum	35.0
(iv)	Water soluble phosphate (as P ₂ O ₅), per cent by weight, minimum	29.0
(v)	Water soluble potash (as K ₂ O), per cent by weight, minimum	14.0

6. N.P.K. (17-17-17)

(i)	Moisture, per cent by weight, maximum	1.5
(ii)	Total nitrogen, per cent by weight, minimum	17.0
(iii)	Ammoniacal nitrogen, per cent by weight, minimum	5.0
(iv)	Urea nitrogen, per cent by weight, maximum	12.0
(v)	Neutral ammonium citrate soluble phosphate (as P ₂ O ₅) per cent by weight, minimum	17.0
(vi)	Water soluble phosphates (as P ₂ O ₅), per cent by weight, minimum	14.5
(vii)	Water soluble potash (as K ₂ O), per cent by weight, minimum	17.0

7. N.P.K. (14-28-14)

(i)	Moisture, per cent by weight, maximum	1.5
(ii)	Total nitrogen, per cent by weight, minimum	14.0
(iii)	Ammoniacal nitrogen, per cent by weight, minimum	8.0
(iv)	Urea nitrogen, per cent by weight, maximum	6.0
(v)	Neutral ammonium citrate soluble phosphate (as P ₂ O ₅) per cent by weight, minimum	28.0
(vi)	Water soluble phosphates (as P ₂ O ₅), per cent by weight, minimum	23.8
(vii)	Water soluble potash (as K ₂ O), per cent by weight, minimum	14.0

8. N.P.K. (19-19-19)

(i)	Moisture, per cent by weight, maximum	1.5
(ii)	Total nitrogen, per cent by weight, minimum	19.0
(iii)	Ammoniacal nitrogen, per cent by weight, minimum	5.6
(iv)	Urea nitrogen, per cent by weight, maximum	13.4
(v)	Neutral ammonium citrate soluble phosphate (as P ₂ O ₅), per cent by weight, minimum	19.0
(vi)	Water soluble potash (as K ₂ O) per cent by weight, minimum	16.2
(vii)	Water soluble phosphate (as P ₂ O ₅) per cent by weight, minimum	19.0

9. N.P.K. (17-17-17)

(i)	Moisture, per cent by weight, maximum	1.5
(ii)	Total nitrogen, per cent by weight, minimum	17.0
(iii)	Ammonium nitrogen, per cent by weight, minimum	8.5
(iv)	Nitrate nitrogen, per cent by weight, maximum	8.5
(v)	Neutral ammonium citrate soluble phosphate (as P ₂ O ₅) per cent by weight, minimum	17.0
(vi)	Water soluble phosphate (as P ₂ O ₅), per cent by weight, minimum	13.6

Water soluble potash (as K₂O), per cent by weight,
(vii) minimum 17.0

N.P.K.(20-10-10)

(i) Moisture, per cent by weight, maximum 1.5

(ii) Total nitrogen, per cent by weight, minimum 20.0

Urea nitrogen, per cent by weight, maximum 17.1
(iii)

Ammonical nitrogen, per cent by weight, minimum 3.9
(iv)

(v) Neutral ammonium citrate soluble phosphates (as P₂O₅)
per cent by weight, minimum 10.0

Water soluble phosphates (as P₂O₅), per cent by weight, minimum 8.5
(vi)

Water soluble potash (as K₂O), per cent by weight,
(vii) minimum 10.0

N.P.K (15:15:15)

(i) Moisture, per cent by weight, maximum 1.5

(ii) Total nitrogen, per cent by weight, minimum 15.0

(iii) Ammonical nitrogen, per cent by weight, minimum 12.0

(iv) Nitrogen in the form of urea, per cent by weight, maximum 3.0

(v) Water soluble phosphate (as P₂O₅), per cent by weight, minimum 12.0

(vi) Neutral ammonium citrate soluble phosphate (as P₂O₅), per cent by
weight, minimum 15.0

Water soluble potash as K₂O, per cent by weight, minimum 15.0
(vii)

1(f). MICRONUTRIENTS

1. Zinc Sulphate Heptahydrate (ZnSO₄.7H₂O)

(i) Matter insoluble in water, per cent by weight, maximum 1.0

(ii) Zinc (as Zn), per cent by weight, minimum 21.0

(iii)	Lead (as Pb), per cent by weight, maximum	0.003
(iv)	Copper (as Cu), per cent by weight, maximum	0.1
(v)	Magnesium (as Mg), per cent by weight, maximum	0.5
(vi)	pH not less than	4.0
(vii)	Sulphur (as S),per cent by weight, minimum	10.0
(viii)	Cadmium (as Cd), per cent by weight, maximum	0.0025
(ix)	Arsenic (as As),per cent by weight, maximum	0.01

2. Manganese Sulphate

(i)	Matter insoluble in water, per cent by weight, maximum	1.2
(ii)	Manganese (as Mn) content, per cent by weight, minimum	30.5
(iii)	Lead (as Pb), per cent by weight, maximum	0.003
(iv)	Copper (as Cu), per cent by weight, maximum	0.1
(v)	Magnesium (as Mg), per cent by weight, maximum	2.0
(vi)	pH	3.75+_0.2
(vii)	Sulphur (as S),per cent by weight, minimum	17.0

3. Borax (Sodium Tetraborate) ($\text{Na}_2\text{B}_4\text{O}_7 \cdot 10\text{H}_2\text{O}$) for soil application

(i)	Content of Boron as (B), per cent by weight, minimum	10.5
(ii)	Matter insoluble in water, per cent by weight, maximum	1.0
(iii)	pH	9.0-9.5
(iv)	Lead (as Pb), per cent by weight, maximum	0.003

4.Omitted vide S.O. 413 (E) dt. 07.04.2003

5. Copper Sulphate ($\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$)

I N T E R N A T I O N A L

(i) Copper (as Cu), per cent by weight, minimum	24.0
(ii) Matter insoluble in water, per cent by weight, maximum	1.0
(iii) Soluble iron and aluminium compounds (expressed as Fe), percent by weight, maximum	0.5
(iv) Lead (as Pb), per cent by weight, maximum	0.003
(v) pH not less than	3.0
(vi) Sulphur (asS), per cent by weight, minimum	12.0

6. Ferrous Sulphate ($\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$)

(i) Ferrous iron (as Fe), per cent by weight, minimum	19.0
(ii) Free Acid (as H_2SO_4), per cent by weight, maximum	1.0
(iii) Ferric iron (as Fe), per cent by weight, maximum	0.5
(iv) Matter insoluble in water, per cent by weight, maximum	1.0
(v) pH not less than	3.5
(vi) Lead (as Pb), per cent by weight, maximum	0.003
(vii) Sulphur (as S), per cent by weight, minimum	10.5

7. Ammonium Molybdate ($(\text{NH}_4)_6\text{MO}_7\text{O}_{24} \cdot 4\text{H}_2\text{O}$)

(i) Molybdenum (as Mo), per cent by weight, minimum	52.0
(ii) Matter insoluble in water, per cent by weight, maximum	1.0
(iii) Lead (as Pb), per cent by weight, maximum	0.003

8. Chelated Zinc as Zn-EDTA

(i) Appearance -Free flowing crystalline / powder	
(ii) Zinc content (Expressed as Zn), per cent by weight minimum in the form of Zn-EDTA	12.0
(iii) Lead (as Pb), per cent by weight maximum	0.003
(iv) pH	6.0-6.5

9. Chelated Iron as Fe-EDTA

(i) Appearance -Free flowing crystalline / powder	
(ii) Iron content (expressed as Fe), per cent by weight minimum in the form of Fe-EDTA	12.0

(iii) Lead (as Pb) per cent by weight, maximum	0.003
(iv) pH	5.5-6.5

10. Zinc Sulphate Mono-hydrate (ZnSO₄.H₂O)

(i) Free flowing powder form	
(ii) Matter-insoluble in water, per cent by weight, maximum	1.0
(iii) Zinc (as Zn). Per cent by weight. minimum	33.0
(iv) Lead (as Pb), per cent by weight, maximum	0.003
(v) Copper (as Cu), per cent by weight, maximum	0.1
(vi) Magnesium (as Mg), per cent by weight, maximum	0.5
(vii) Iron (as Fe), per cent by weight, maximum	0.5
(viii) pH not less than)	4.0
(ix) Sulphur (as S),per cent by weight, minimum	15.0
(x) Cadmium (as Cd),per cent by weight, maximum	0.0025
(xi) Arsenic (as As),per cent by weight, maximum	0.01

11. Magnesium Sulphate

(i) Free flowing -crystalline form	
(ii) Matter insoluble in water, per cent by weight, maximum.	1.0
(iii) Magnesium {as Mg), per cent by weight, minimum	9.6
(iv) Lead (as Pb), percent by weight, maximum.	0.003

(v) pH (5% solution)	5.0-8.0
(v) Sulphur (asS),per cent by weight, minimum	12.0

[12. Boric Acid (H₃BO₃)

(i) Boron (as B), per cent weight, minimum	17.0
(ii) Matter insoluble in water, per cent by weight, maximum	1.0
(iii) Lead (as Pb), per cent by weight, maximum	0.003

13. Di-Sodium Octa Borate Tetra Hydrate

(i) Boron (as B), per cent weight, minimum	20.00
(ii) Matter insoluble in water, per cent by weight, maximum	1.0
(iii) Lead (as Pb) per cent by weight, maximum	0.003

*1(g) FORTIFIED FERTILISERS

1. Boronated Single Superphosphate (16% P₂O₅. powdered)

(i) Moisture, per cent by weight, maximum	12.0
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(ii) Free phosphoric acid (as P ₂ O ₅), per cent by weight, maximum	4.0
(iii) Water soluble phosphate (as P ₂ O ₅), per cent by weight, minimum	16.0
(iv) Boron (as B), per cent by weight, maximum	0.18

2. Zincated Urea

(i) Moisture, per cent by weight, maximum	1.0
(ii) Total nitrogen, per cent by weight, (on dry basis), minimum	43.0
(iii) Zinc (as Zn), per cent by weight, minimum	2.0
(iv) Biuret, per cent by weight, maximum	1.5

1(h) [100% water soluble Complex Fertiliser]

1.Pottasium Nitrate (13-0-45)

(i) Omitted Vide S.O 540 (E),dt. 12.5.2003	
(ii) Moisture, percent by weight maximum	0.5
(iii) Total Nitrogen (all in Nitrate form),percent by weight ,minimum	13,0
(iv) Water soluble Potash(as K ₂ O),per cent by weight,minimum	45.0
(v) Sodium (as Na)(On dry basis), per cent by weight,maximum.	1.0
(vi) Total Chloride(as Cl)(On dry basis)per cent by weight, maximum	1.5
(vii) Matter insoluble in water percent by weight , maximum.	0.05

2.Omitted

3. Mono – Pottasium Phosphate (0-52-34) (100% water Soluble)

(i) Moisture, per cent by weight maximum.	0.5
(ii) Water Soluble Phosphate(as P ₂ O ₅)percent by weight, minimum	52.0
(iii) Water Soluble Potash (as K ₂ O) percent by weight, minimum	34.0
(iv) Sodium(as NaCl) percent by weight)On dry basis ,maximum	0.025

4. Calcium Nitrate

(i) Total Nitrogen, per cent by weight minimum	15.5
(ii) Ammonical Nitrogen, percent by weight, maximum.	1.1
(iii) Nitrate Nitrogen, as N per cent by weight, minimum	14.4.
(iv) Water soluble Calcium as per cent by weight, minimum	18.8.
(v) Water insolubles, per cent by weight,maximum	1.5

5. NPK 13:40:13 (100% water soluble)

(i) Total Nitrogen, per cent by weight, minimum	13.0
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(ii)	Nitrate nitrogen, per cent by weight, maximum	4.4
(iii)	Ammonical nitrogen, per cent by weight, minimum.	8.6
(iv)	Water soluble phosphate(as P ₂ O ₅) per cent by weight, minimum.	40.0
(v)	Water soluble potash as K ₂ O, per cent by weight, minimum.	13.0
(vi)	Sodium (as NaCl), per cent by weight. On dry basis, maximum.	0.15
(vii)	Matter insoluble in water, per cent by weight, maximum.	0.5

6. NPK 18:18:18 (100% water soluble)

(i)	Total Nitrogen, per cent by weight, minimum	18.0
(ii)	Nitrate nitrogen per cent by weight, maximum.	9.8
(iii)	Ammonical nitrogen per cent by weight, minimum.	8.2
(iv)	Water Soluble phosphate(as P ₂ O ₅) per cent by weight, minimum.	18.0
(v)	Water soluble potash (as K ₂ O), per cent by weight, minimum.	18.0
(vi)	Sodium as NaCl, per cent by weight. , on dry basis maximum.	0.25
(vii)	Matter insoluble in water, per cent by weight, maximum	0.5

7. NPK 13:5:26 (100% water soluble)

(i)	Total Nitrogen, per cent by weight, minimum	13.0
(ii)	Nitrate nitrogen, per cent by weight, maximum.	7.0
(iii)	Ammonical nitrogen, per cent by weight, maximum.	6.0
(iv)	Water soluble Phosphate (as P ₂ O ₅) per cent by weight, minimum.	5.0
(v)	Water soluble potash as K ₂ O, per cent by weight, minimum.	26.0
(vii)	Sodium as NaCl, per cent by weight, on dry basis maximum	0.3
(viii)	Matter insoluble in water, per cent by weight, maximum.	0.5

8. NPK 6:12:36 (100% water soluble)

(i)	Total Nitrogen, per cent by weight,. minimum	6.0
(ii)	Nitrate nitrogen, per cent by weight, maximum.	4.5
(iii)	Ammonical nitrogen, per cent by weight, minimum.	1.5
(iv)	Water Soluble Phosphate(as P ₂ O ₅),per cent by weight., minimum.	12.0
(v)	Water soluble potash, per cent by weight, minimum.	36.0
(vi)	Sodium as NaCl, per cent by weight, maximum	0.5
(vii)	Matter insoluble in water, per cent by weight, maximum.	0.5

9 NPK 20:20:20 (100% water soluble)

(i)	Total Nitrogen, per cent by weight, minimum	20.0
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(ii)	Nitrate nitrogen, per cent by weight, maximum	4.9
(iii)	Ammonical nitrogen, percent by weight, minimum	3.0
(iv)	Urea nitrogen, per cent by weight, maximum	12.1
(v)	Water soluble Phosphate (as P ₂ O ₅), per cent by weight, minimum.	20.0
(vi)	Water soluble potash as K ₂ O, per cent by weight,.minimum.	20.0
(vii)	Sodium as NaCl, per cent by weight on dry basis,maximum.	0.06
(viii)	Matter insoluble in water, per cent by weight,maximum.	0.5

10 Potassium Magnesium Sulphate

(i)	Moisture, per cent by weight, maximum	0.5
(ii)	Potash content (as K ₂ O), per cent by weight, maximum	22.0
(iii)	Magnesium as MgO, percent by weight ,minimum	18.0
(iv)	Total chloride (as Cl),per cent by weight (on dry basis),maximum	2.5
(v)	Sodium (as NaCl), ,per cent by weight(on dry basis),max.	2.0
(vi)	Sulphur (as S), per cent by weight, minimum	20.0

NPK 19 :19:19 (100% water soluble)

(i)	Total Nitrogen, per cent by weight, minimum	19.0
(ii)	Nitrate nitrogen, per cent by weight, maximum	4.0
(iii)	Ammonical nitrogen, per cent by weight, minimum.	4.5
(iv)	Urea nitrogen in nitrogen, per cent by weight, maximum	10.5
(v)	Water soluble Phosphate (as P ₂ O ₅), per cent by weight, minimum.	19.0
(vi)	Water soluble potash (as K ₂ O), per cent by weight, minimum.	19.0
(vii)	Sodium as NaCl, per cent by weight, on dry basis,maximum	0.5
(viii)	Matter insoluble in water, per cent by weight, maximum.	0.5
(ix)	Moisture, per cent by weight,maximum	0.5

Mono Ammonium Phosphate 12:61:0 (100% water soluble)

(i)	Moisture, per cent by weight,. maximum	0.5
(ii)	Ammonical nitrogen, per cent by weight minimum.	12.0
(iii)	Water Soluble Phosphate(as P ₂ O ₅),per cent by weight, minimum.	61.0
(iv)	Matter insoluble in water, per cent by weight, maximum	0.5
(v)	Sodium as NaCl, per cent by weight,on dry basis, maximum.	0.5