



KATRA[®]

FERTILIZERS

KATRA NANO

NPK WATER SOLUBLE

FUTURE OF FARMING



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KATRA NANO NPK WATER SOLUBLE

ABOUT KATRA

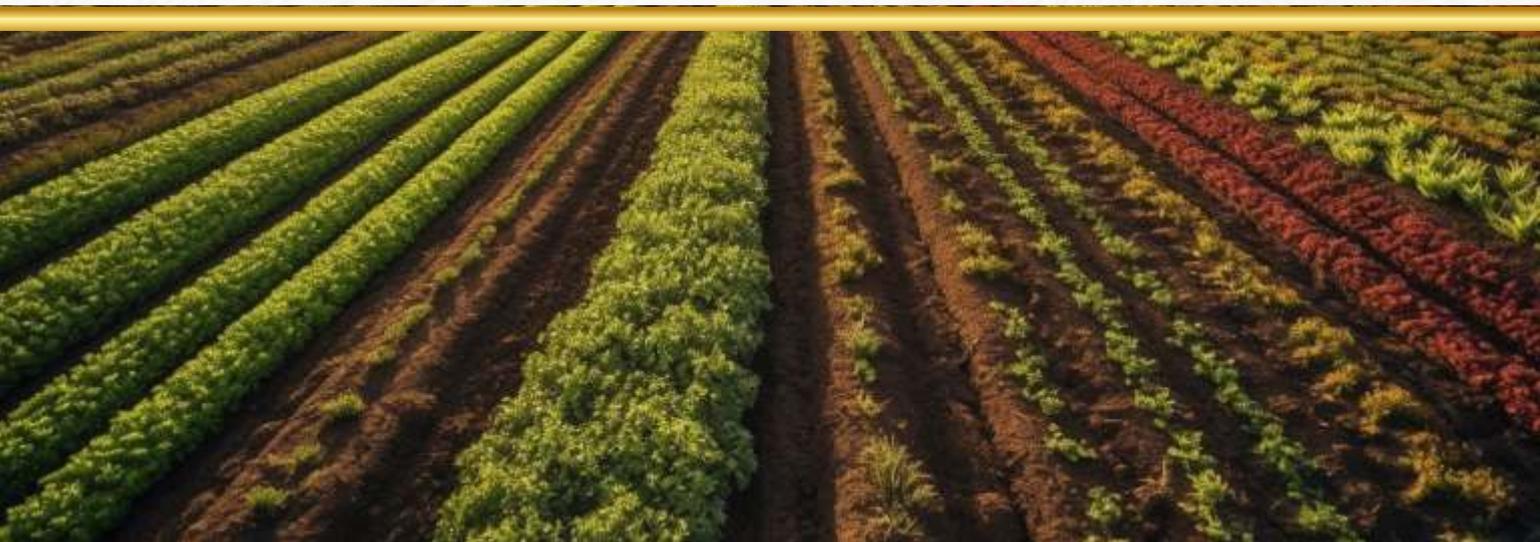
Katra fertilizers and chemicals Pvt. Ltd.. is among the pioneering Indian companies specializing in Nano Technology-based agriculture inputs. Our Nano NPK Water Soluble Fertilizers ensure faster nutrient availability, superior absorption and visible crop across all growth stages.

HOW KATRA NANO WORKS

- Instantly Dissolves in Water due to nano-sized particles
- Rapid nutrient absorption through leaves and roots
- Balanced nitrogen, phosphorous & potassium supply at cellular level
- Improved nutrient losses and improves efficiency
- Minimizes nutrient losses and improves efficiency

KEY BENEFITS

- Faster and uniform crop growth
- Strong root system and vigorous plant
- Enhanced flowering, fruit setting & grain filling
- Improved photosynthesis and plant energy
- Better crop quality-size, colour & weight



NANO NPK vs NORMAL NPK

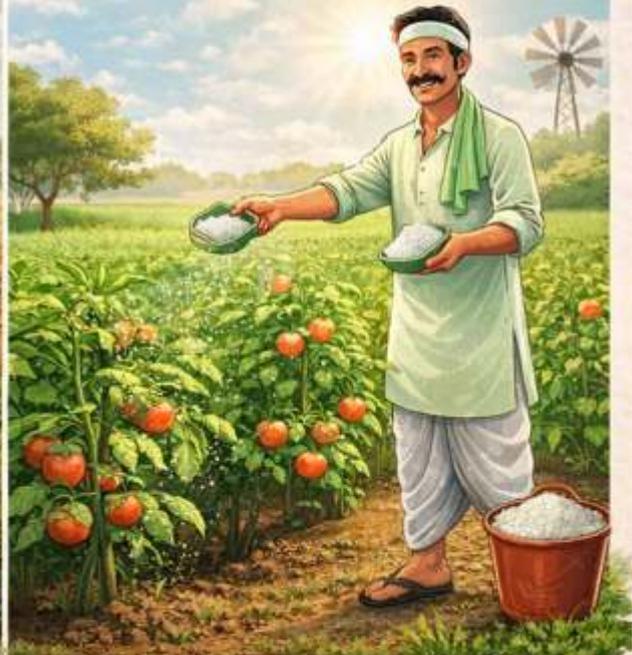
NORMAL NPK

- ✗ Higher Dose Needed
- ✗ Slower Results
- ✗ Higher Cultivation Cost



NANO NPK

- ✓ 30-40% Higher Efficacy
- ✓ Lower Dose Needed
- ✓ Faster Results



✓ NORMAL NPK

1 kg

Slower Results



NANO NPK

✓ 30-40%

✓ 200 g



✓ Higher Cultivation Cost

→ 1 kg

Slower Results



✓ 200 g

✓ Faster Results



What is KATRA NANO NPK 19-19-19 ?

KATRA NANO NPK 19-19-19 is the 100 % water-soluble Nano fertilizer that contains 19% Nitrogen, 19% phosphorus, and 19% potash which is evenly dispersed in water and used in foliar application or drip irrigation. It effectively fulfills crop nitrogen, phosphorus, and potash requirement, increases leaf photosynthesis, root biomass, effective tillers & branches.

Benefits of KATRA NANO NPK 19-19-19

- KATRA NANO NPK 19-19-19 is a highly effective nano-sized fertilizer its application and dosage are five times less than conventional NPK 19-19-19.
- Use of 200 gm of KATRA NANO NPK 19-19-19 can replace effectively at least 1 kg of conventional NPK 19-19-19 and because of higher efficiency, it can reduce the requirement of conventional NPK 19-19-19 by 50% or more.
- Nano NPK particle size varies from 20-50 nm, due to Small size (20-50 nm) increasing its availability to crop by more than 80%.
- When sprayed on leaves, Nano NPK easily enters through stomata and other openings and assimilates by the plant cells.
- It is easily distributed through the phloem from source to sink inside the plant as per its need.
- Unutilized Nano NPK is stored in the plant vacuole and is slowly released for proper growth and development of the plant.
- Enhances Farmer's income by an increase in crop productivity and reduction in input cost.

SPECIFICATION

1	Moisture percent by weight , maximum	1.5%
2	Total nitrogen percent by weight , minimum	19.0%
	• Nitrate nitrogen percent by weight , minimum	4.0%
	• Ammonical nitrogen percent by weight , minimum	4.5%
	• Urea nitrogen percent by weight , minimum	10.5%
3	Water soluble phosphate (as P2O5) percent by weight , minimum	19.0%
4	Water soluble potassium (as K2O) percent by weight , minimum	19.0%
5	Sodium as NaCl percent by weight on dry basis, maximum	0.5%
6	Matter insoluble in water percent by weight, maximum	0.5%

Recommended Crops: Cereals, Vegetables, Pulses , Oil , Fibres, Tubers, Spices, Grains , Flowers

Method of Application

- Mix 20 gm of Katra Nano NPK 9-19-19 in one pump(15 Liter of water) and spray on crop leaves at active growth stages.
- For best results apply 2 foliar sprays
 - 1st spray at active tillering / branching stage (30-35 Days after Germination or 20-25 Days after Transplanting)
 - 2nd spray 20-25 days after 1st spray or before flowering in the crop.
- Number of sprays of Katra Nano NPK 19-19-19 can be increased depending upon crop and its NPK requirement

Katranano®

NPK 19:19:19

100% water soluble complex fertilizers
FOLIAR SPRAY



What Is **KATRA NANO MONO POTASSIUM PHOSPHATE 0-52-34** ?

It is a completely water soluble nano-fertilizer with adequate amounts of the primary nutrients Phosphorous and Potassium. It is used in the form of foliar spray and drip irrigation to meet Phosphorous and Potassium deficiency at any stage of plant growth. It is useful for all crops. It can be mixed with insecticide and fungicide product.

Nano Technology Based Fertilizer

Nano fertilizer is needed five times less than conventional fertilizer, and it can reduce the need for conventional fertilizer by up to 50% because of its high efficiency. Nano particles range in size from 20-50 nm, and the smaller size of the nano particles increases its availability by nearly 80%. Plant cells absorb it easily through stomata and other pores. To ensure proper plant growth, unused nano particles get stored in plant vacuoles and secreted slowly. The income of the farmer increases by increasing the crop productivity and reducing the investment cost.

Benefits of KATRA NANO MONO POTASSIUM PHOSPHATE 0-52-34

- 1 Increases the size, brightness, color uniformity and taste of the fruit.
- 2 Inspires the formation of fruits and flowers.
- 3 Protects from adverse weather and pest attacks.
- 4 Reduces flower and fruit drop.
- 5 Suitable for pre-bloom as well as post-bloom applications.

SPECIFICATION

1	Moisture percent by weight , maximum	0.5%
2	Water soluble phosphate (as P2O5) percent by weight , minimum	52.0%
3	Water soluble potassium (as K2O) percent by weight , minimum	34.0%
4	Sodium as NaCl percent by weight on dry basis, maximum	0.5%

Method of Application

- Mix 20 gm of powder into one pump (15 Litre of water) and spray at active growth stages.
- For best results apply 2 foliar sprays
 - 1st spray at active tillering / branching stage (30-35 Days after Germination or 20-25 Days after Transplanting)
 - 2nd spray 20-25 days after 1st spray or before flowering in the crop.
- Number of sprays can be increased depending upon crop and its NPK requirement.

Katranano[®]

MONO AMMONIUM PHOSPHATE 00:52:34

100% water soluble complex fertilizers
FOLIAR SPRAY



What is KATRA NANO MONO AMMONIUM PHOSPHATE 12-61-0 ?

KATRA NANO MONO AMMONIUM PHOSPHATE 12-61-0 is a completely water soluble nano-fertilizer with adequate amounts of the primary nutrients Nitrogen and Phosphorous. It is used in the form of foliar spray and drip irrigation to meet nitrogen and phosphorous deficiency at any stage of plant growth. It is useful for all crops. It can be mixed with insecticide and fungicide product.

Nano Technology Based Fertilizer

Nano fertilizer is needed five times less than conventional fertilizer, and it can reduce the need for conventional fertilizer by up to 50% because of its high efficiency. Nano particles range in size from 20-50 nm, and the smaller size of the nano particles increases its availability by nearly 80%. Plant cells absorb it easily through stomata and other pores. To ensure proper plant growth, unused nano particles get stored in plant vacuoles and secreted slowly. The income of the farmer increases by increasing the crop productivity and reducing the investment cost.

Benefits of KATRA NANO MONO AMMONIUM PHOSPHATE 12-61-0

- 1 It helps in faster healthy vegetative growth and root development.
- 2 It improves the absorption of other nutrients.
- 3 It enhances the proper development of reproductive organs and fertilization of the plant.
- 4 It makes the naturally present phosphorus in the soil accessible to the plant, due to the presence of ammonium ion (NH_4^+), it lowers the pH around the root zone and increases the availability of phosphorus.
- 5 It is a highly concentrated source of phosphorus for plants.

SPECIFICATION

1	Moisture percent by weight , maximum	0.5%
2	Ammonical nitrogen percent by weight , minimum	12.0%
3	Water soluble phosphate (as P2O5) percent by weight , minimum	61.0%
4	Sodium as NaCl percent by weight on dry basis, maximum	0.5%
5	Matter insoluble in water percent by weight, maximum	0.5%

Method of Application

- Mix 20 gm of powder into one pump (15 Litre of water) and spray at active growth stages.
- For best results apply 2 foliar sprays
 - 1st spray at active tillering / branching stage (30-35 Days after Germination or 20-25 Days after Transplanting)
 - 2nd spray 20-25 days after 1st spray or before flowering in the crop.
- Number of sprays can be increased depending upon crop and its NPK requirement.

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MONO AMMONIUM PHOSPHATE 12:61:00

100% water soluble complex fertilizers
FOLIAR SPRAY



What Is KATRA NANO POTASSIUM SULPHATE 0-0-50 ?

KATRA NANO POTASSIUM SULPHATE 0-0-50 is a completely water soluble nano-fertilizer with adequate amounts of the primary nutrient Potassium. It is used in the form of foliar spray and drip irrigation to meet Potassium deficiency as well as sulphate deficiency at any stage of plant growth. It is useful for all crops. It can be mixed with insecticide and fungicide product.

Nano Technology Based Fertilizer

Nano fertilizer is needed five times less than conventional fertilizer, and it can reduce the need for conventional fertilizer by up to 50% because of its high efficiency. Nano particles range in size from 20-50 nm, and the smaller size of the nano particles increases its availability by nearly 80%. Plant cells absorb it easily through stomata and other pores. To ensure proper plant growth, unused nano particles get stored in plant vacuoles and secreted slowly. The income of the farmer increases by increasing the crop productivity and reducing the investment cost

Benefits of KATRA NANO POTASSIUM SULPHATE 0-0-50

- 1 Useful in the physiological maturity stage of the crop.
- 2 Increases resistance to pests and diseases.
- 3 Helps in controlling fungal diseases.
- 4 It stimulates root growth and enables plants to absorb more nutrients.
- 5 Improves sugar content, size and quality of fruits.
- 6 Provides adequate amount of potash and sulphur to the plants.
- 7 Provides uniform size, shape and color for production.
- 8 Gives excellent results in vegetable and oilseed crops.
- 9 Provides immunity to the crop from pests and diseases.

SPECIFICATION

1	Moisture percent by weight , maximum	1.5%
2	Water soluble potassium (as K ₂ O) percent by weight , minimum	50.0%
3	Total chlorides (as Cl ⁻) percent by weight on dry basis, maximum	2.5%
4	Sodium (as NaCl) percent by weight on dry basis, maximum	2.0%
5	Sulphur (as S) percent by weight , minimum	17.5%

Method of Application

- Mix 20 gm of powder into one pump (15 Litre of water) and spray at active growth stages.
- For best results apply 2 foliar sprays
 - 1st spray at active tillering / branching stage (30-35 Days after Germination or 20-25 Days after Transplanting)
 - 2nd spray 20-25 days after 1st spray or before flowering in the crop.
- Number of sprays can be increased depending upon crop and its NPK requirement

Katranano[®]

NPK 00:00:50

100% water soluble complex fertilizers
FOLIAR SPRAY



What Is KATRA NANO POTASSIUM NITRATE 13-0-45 ?

KATRA NANO POTASSIUM NITRATE 13-0-45 is a completely water soluble nano-fertilizer with adequate amounts of the primary nutrients Nitrogen and Potassium. It is used in the form of foliar spray and drip irrigation to meet Nitrogen and Potassium deficiency at any stage of plant growth. It is useful for all crops. It can be mixed with insecticide and fungicide product.

Nano Technology Based Fertilizer

Nano fertilizer is needed five times less than conventional fertilizer, and it can reduce the need for conventional fertilizer by up to 50% because of its high efficiency. Nano particles range in size from 20-50 nm, and the smaller size of the nano particles increases its availability by nearly 80%. Plant cells absorb it easily through stomata and other pores. To ensure proper plant growth, unused nano particles get stored in plant vacuoles and secreted slowly. The income of the farmer increases by increasing the crop productivity and reducing the investment cost.

Benefits of KATRA NANO POTASSIUM NITRATE 13-0-45

- 1 Potassium nitrate contains nitrate nitrogen and water soluble potash.
- 2 Helps crops to resist a biotic stress conditions.
- 3 Useful in post-bloom and physical maturity stage.
- 4 Helps in the manufacture and transfer of sugars.
- 5 Increases grain size and fruit weight.
- 6 Increases the brightness of yield, oil content in oilseed crops.
- 7 Enhances the immunity of plants against pests and diseases.

SPECIFICATION

1	Moisture percent by weight , maximum	0.5%
2	Total nitrogen (all in nitrate form) percent by weight , minimum	13%
3	Water soluble potassium (as K ₂ O) percent by weight , minimum	45.0%
4	Total chlorides (as Cl-) percent by weight on dry basis, maximum	1.5%
5	Sodium (as NaCl) percent by weight on dry basis, maximum	1.0%
6	Matter insoluble in water percent by weight, maximum	0.05%

Method of Application

- Mix 20 gm of powder into one pump (15 Litre of water) and spray at active growth stages.
- For best results apply 2 foliar sprays
 - 1st spray at active tillering / branching stage (30-35 Days after Germination or 20-25 Days after Transplanting)
 - 2nd spray 20-25 days after 1st spray or before flowering in the crop.
- Number of sprays can be increased depending upon crop and its NPK requirement.

Katranano[®]

MONO POTASSIUM PHOSPHATE 13:00:45

100% water soluble complex fertilizers
FOLIAR SPRAY



What Is KATRA NANO 17-44-0....?

KATRA NANO 17-44-0 is a completely water soluble Nano-fertilizer with adequate amounts of the primary nutrients Nitrogen and Phosphorous. It is used in the form of foliar spray and drip irrigation to meet nitrogen and phosphorous deficiency at any stage of plant growth. It is useful for all crops. It can be mixed with insecticide and fungicide product.

Nano Technology Based Fertilizer

Nano fertilizer is needed five times less than conventional fertilizer and it can reduce the need for conventional fertilizer by up to 50% because of its high efficiency. Nano particles range in size from 20-50 nm, and the smaller size of the Nano particles increases its availability by nearly 80%. Plant cells absorb it easily through stomata and other pores. To ensure proper plant growth, unused Nano particles get stored in plant vacuoles and secreted slowly. The income of the farmer increases by increasing the crop productivity and reducing the investment cost.

Benefits of KATRA NANO 17-44-0

- 1 It helps in faster healthy vegetative growth and root development.
- 2 It improves the absorption of other nutrients.
- 3 It enhances the proper development of reproductive organs and fertilization of the plant.
- 4 It makes the naturally present phosphorus in the soil accessible to the plant, due to the presence of ammonium ion (NH_4^+), it lowers the pH around the root zone and increases the availability of phosphorus.
- 5 It is a highly concentrated source of phosphorus for plants.

SPECIFICATION

1	Moisture percent by weight , maximum	0.5%
2	total nitrogen(all in urea form) percent by weight , minimum	17.0%
3	Water soluble phosphate (as P2O5) percent by weight , minimum	44.0%
4	Matter insoluble in water percent by weight, maximum	0.5%

Method of Application

- Mix 20 gm of powder into one pump (15 Litre of water) and spray at active growth stages.
- For best results apply 2 foliar sprays
 - 1st spray at active tillering / branching stage (30-35 Days after Germination or 20-25 Days after Transplanting)
 - 2nd spray 20-25 days after 1st spray or before flowering in the crop.
- Number of sprays can be increased depending upon crop and its NPK requirement.

Katranano[®]

NPK 17:44:00

100% water soluble complex fertilizers
FOLIAR SPRAY



What is KATRA NANO NPK 20-20-20...?

KATRA NANO NPK 20-20-20 is the 100 % water-soluble Nano fertilizer that contains 20 % Nitrogen, 20 % phosphorus, and 20 % potash which is evenly dispersed in water and used in foliar application or drip irrigation. It effectively fulfills crop nitrogen, phosphorus, and potash requirement, increases leaf photosynthesis, root biomass, effective tillers & branches.

Benefits of KATRA NANO NPK 20-20-20

KATRA NANO NPK 20-20-20 is a highly effective nano-sized fertilizer its application and dosage are five times less than conventional NPK 20-20-20.

- Use of 200 gm of KATRA NANO NPK 20-20-20 can replace effectively at least 1 kg of conventional NPK 20-20-20 and because of higher efficiency, it can reduce the requirement of conventional NPK 20-20-20 by 50% or more.
- Nano NPK particle size varies from 20-50 nm, due to Small size (20-50 nm) increasing its availability to crop by more than • When sprayed on leaves, Nano NPK easily enters through stomata and other openings and assimilates by the plant cells.
- It is easily distributed through the phloem from source to sink inside the plant as per its need.
- Unutilized Nano NPK is stored in the plant vacuole and is slowly released for proper growth and development of the plant.
- Enhances Farmer's income by an increase in crop productivity and reduction in input cost.

SPECIFICATION

2	Total nitrogen percent by weight , minimum	20.0%
	• Nitrate nitrogen percent by weight, maximum	4.9%
	• Ammonical nitrogen percent by weight, minimum	3.0%
	• Urea nitrogen percent by weight, maximum	12.1%
3	Water soluble phosphate (as P2O5) percent by weight, minimum	20.0%
4	Water soluble potassium (as K2O) percent by weight, minimum	20.0%
5	Sodium as NaCl percent by weight on dry basis, maximum	0.06%
6	Matter insoluble in water percent by weight, maximum	0.5%

Recommended Crops: Cereals, Vegetables, Pulses, Oil, Fibres, Tubers, Spices, Gruits , Flowers

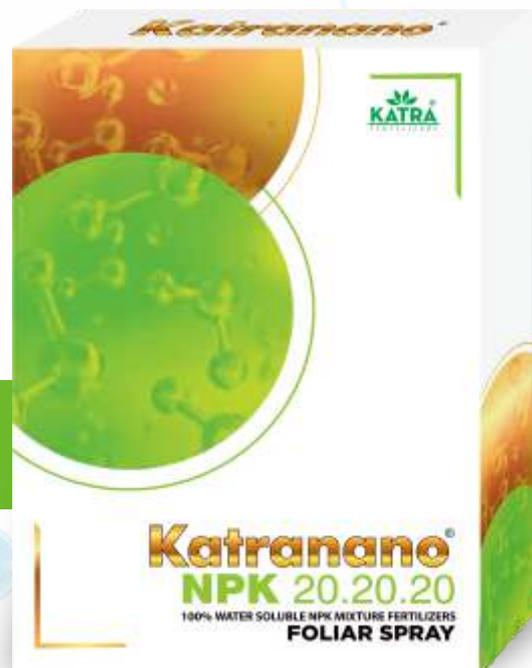
Method of Application

- Mix 20 gm of katra Nano NPK 20-20-20 in one pump(15 Liter of water) and spray on crop leaves at active growth stages.
- For best results apply 2 foliar sprays
 - 1st spray at active tillering / branching stage (30-35 Days after Germination or 20-25 Days after Transplanting)
 - 2nd spray 20-25 days after 1st spray or before flowering in the crop.
- Number of sprays of Katra Nano NPK 20-20-20 can be increased depending upon crop and its NPK requirement

Katranano[®]

NPK 20:20:20

100% water soluble complex fertilizers
FOLIAR SPRAY



What is KATRA NANO NPK 13-40-13.....?

KATRA NANO NPK 13-40-13 is the 100% water-soluble Nano fertilizer that contains 13% Nitrogen, 40% phosphorus, and 13% potash which is evenly dispersed in water and used in foliar application or drip irrigation. It effectively fulfills crop nitrogen, phosphorus, and potash requirement, increases leaf photosynthesis, root biomass, effective tillers & branches.

Benefits of KATRA NANO NPK 13-40-13

- KATRA NANO NPK 13-40-13 is a highly effective nano-sized fertilizer its application and dosage are five times less than conventional NPK 13-40-13.
- Use of 200 gm of KATRA NANO NPK 13-40-13 can replace effectively at least 1 kg of conventional NPK 13-40-13 and because of higher efficiency, it can reduce the requirement of conventional NPK 13-40-13 by 50% or more.
- Nano NPK particle size varies from 20-50 nm, due to Small size (20-50 nm) increasing its availability to crop by more than 80%.
- When sprayed on leaves, Nano NPK easily enters through stomata and other openings and assimilates by the plant cells.
- It is easily distributed through the phloem from source to sink inside the plant as per its need.
- Unutilized Nano NPK is stored in the plant vacuole and is slowly released for proper growth and development of the plant.
- Enhances Farmer's income by an increase in crop productivity and reduction in input cost.

SPECIFICATION

1	Total nitrogen percent by weight , minimum	13.0 %
	• Nitrate nitrogen percent by weight , maximum	4.4 %
	• Ammonical nitrogen percent by weight , minimum	8.6 %
2	Water soluble phosphate (as P2O5) percent by weight , minimum	40.0 %
3	Water soluble potassium (as K2O) percent by weight , minimum	13.0 %
4	Sodium as NaCl percent by weight on dry basis, maximum	0.15 %
5	Matter insoluble in water percent by weight, maximum	0.5 %

Recommended Crops: Cereals, Vegetables, Pulses, Oil, Fibres, Tubers, Spices, Grains, Flowers

Method of Application

- Mix 20 gm of Katra Nano NPK 13-40-13 in one pump (15 Liter of water) and spray on crop leaves at active growth stages.
- For best results apply 2 foliar sprays
 - 1st spray at active tillering / branching stage (30-35 Days after Germination or 20-25 Days after Transplanting)
 - 2nd spray 20-25 days after 1st spray or before flowering in the crop.
- Number of sprays of Katra Nano NPK 13-40-13 can be increased depending upon crop and its NPK requirement

Katranano®

NPK 13:40:13

100% water soluble complex fertilizers

FOLIAR SPRAY

