JYOTI

SMARTCHEM TECHNOLOGIES LIMITED

ROOT BIOSTIMULANT FOR CROP MANAGEMENT

As part of our efforts to make the product basket diverse and broad based, we have inducted a root biostimulant in our product segment, namely Mahadhan Rise.

Root biostimulant is a powerful formulation that activates biological processes of the soil and roots. It acts on the rhizosphere by enhancing positive interactions between beneficial microorganisms, absorbent hair, and secondary roots. It stimulates growth & root biomass there by increasing root density. Also, it enhances the beneficial microbial population in the rhizosphere and bioavailability of nutrients both from the soil and microbial activity.

Important details of Mahadhan Rise are given in a Q & A format below for easy understanding and communicating to farmers:

Why Root Bio-stimulants?

Root Biostimulant as a formulated product of biological origin with organic acids and vitamins gives the following benefits:

- It provides organic carbon and nitrogen to the soil. These elements are needed for the initiation and development of microorganisms. Its action stimulates microbes to colonize the root area thereby improving the physical, chemical, and biological properties of the soil.
- It also facilitates the activity of microbial flora in the soil. Therefore, nutrients are more accessible to plants, allowing a more efficient use of fertilizers.
- " It not only contributes to plant development, but it also helps the plant to complete its life cycle with full potential.

What is the composition of Mahadhan Rise?

Mahadhan Rise, with a pH of 5.5, is composed of the following:

Organic Acids	:	1.5 - 2.5 %	Organic Matter	:	38 - 44 % Total
Nitrogen	:	2.5 - 3.5 %	Ammoniacal Nitrogen	:	1.0 - 1.3 %
Organic Nitrogen	:	1.5 - 2.2 %	Potassium (K2O)	:	0.4 - 0.6 %
Phosphorous (P2O5)	:	0.4 - 0.6 %			

What is the recommendation for using Mahadhan Rise ?

Mahadhan Rise should be applied through drip as given below; the general application rate is 2 Litres per acre.

Crop	I application	II application	III application	IV application	V application
Tomato (days after transplanting)	15-20	35-40	65-75		
Chilli (days after transplanting)	30-35	45	60		
Grape (after Oct. pruning)	10-20	30-35	65-70		
Pomegranate (after defoliation)	15-20	30-35	65-70		
Banana (days after planting)	40-45	70-75	120	180-190	240