



## ROLE OF SULPHUR IN SUGARCANE NUTRITION

Sugarcane (*Saccharum officinarum* L.) is an important cash crop widely grown in our operational area. The yield of Sugarcane is low primarily on account of imbalanced & incomplete crop nutrition. The growers, by and large, are oblivious to the role of Sulphur in Sugarcane nutrition. Besides, Sulphur deficiency is on the rise in most Indian soils. Sugarcane is a sulphur-loving crop as Sulphur plays an important role in realising its yield & quality potential. In addition to its role as an important nutrient, Sulphur is an effective fungicide and an acidulent and helps in disease suppression and lowering of soil pH.

Following Q&As will provide some more details on the subject:

### What are the key functions of sulphur?

**As an essential nutrient, Sulphur has some key functions in plants which are as below,**

- Formation of chlorophyll that permits photosynthesis through which plants produce starch, sugars, oils, fats, vitamins, and other compounds.
- Protein synthesis: Sulphur is a constituent of three S-containing amino acids (cysteine, cystine and methionine), which are the building blocks of proteins. About 90% of plant S is present in these amino acids.
- Activation of enzymes, which aid in biochemical reactions in the plant.
- It is associated with special metabolisms in plant and the structural characteristics of protoplasm.
- Increases crop yields and improves produce quality, both of which determine the market price a farmer would get for his produce.

### Which product in the Mahadhan basket meets Sulphur requirement of Sugarcane?

Mahadhan Bensulf Super-fast is an excellent product in our basket which meets Sulphur requirement of Sugarcane. The product boasts of a Super-Fast Release Technology (SFRT) to meet this requirement. It is scientifically tested and contains 90% Sulphur.

### What is the recommendation for using Mahadhan Bensulf Super-fast in Sugarcane?

Mahadhan Bensulf Super-fast should be used at planting (Basal) @ 10 Kg & 120 days after Planting (Earthing up) @ 10 Kg per acre.

### What are the benefits of application of Mahadhan Bensulf Super-fast in Sugarcane?

The application benefits of Mahadhan Bensulf Super-fast in Sugarcane are,

- Sustained release of Sulphur till 75th day of crop growth stage
- Improved yield and quality parameters by increasing the sugar content of juice & cane weight.
- Increase in sugar recovery by 0.2%
- In addition to that, it is the most efficient source of amendment which reduces the increased levels of calcium carbonates & pH.