



## IMPACT OF SMARTEK ON TILLERING IN SUGARCANE

Sugarcane (*Saccharum officinarum* L.) is an important cash crop widely grown worldwide. In our operational area it is mostly grown for sugar and bioenergy. The yield of Sugarcane is highly correlated with the number of effective tillers. However, lack of adequate and timely application of nutrients leads to poor tillering which not only result in wasteful expenditure but also affect the productivity and quality of produce. Therefore, application of appropriate nutrients at right time helps in increasing number of effective tillers in sugarcane crop.

The following Q&As will provide required details to help Sugarcane growers to take care of this aspect:

### What benefits does Smartek provide over conventional fertilizer grades like DAP & NPK complex?

Because of coating Smartek provides following benefits over the conventional fertilizers like DAP & NPK complexes,

- Improves Phosphorous availability which helps in developing profuse healthy root system.
- Reduced loss of Nitrogen through leaching
- Improves Fertilizer Use Efficiency (FUE)
- Increases Tillering / Branches
- Induces early flowering & fruit setting.
- Increases yield by 12-15 %
- Significant impact on produce quality (colour, taste, size, appearance & firmness).

### What will be the first impact of Smartek on Sugarcane crop?

The first impact of Smartek on Sugarcane crop is,

- 1) It unlocks & improves the availability of Phosphorous.
- 2) This helps in developing healthy & profuse root system which will subsequently help in more uptake of nutrients, therefore enhances the Fertilizer Use Efficiency.

### Which yield attributes does Smartek impacts most?

Because of coating, application of Smartek in Sugarcane impacts mostly on following yield attributes

- It Increases the number of tillers (robust) by 10%
- It converts these tillers significantly into higher number of millable canes
- It increases yield of Sugarcane by 12-15%

### Is Smartek suitable for different types of soil?

Yes, Smartek can be used in different types of soils across a wide pH range.