



Biostimulants have been popular as the molecules that stimulate plant's physiological processes to realise the plant's genetic potential in the vegetative and reproductive processes. This segment is one of the fast-growing agri. input segments in the world. Indian agriculture to experiencing the growth of this segment.

As part of invigorating our product basket, we have a biostimulant in our product segment, namely Mahadhan Shine

Important details of Mahadhan Shine are provided in the following Q & A for easy understanding and communicating to farmers:

### Why Bio-stimulants?

Bio stimulant as a formulated product of biological origin gives the following benefits:

- Bio-stimulants offer a potentially novel approach for the regulation and/or modification of physiological processes in plants to stimulate growth, to mitigate stress-induced limitations such as drought, salinity, and extreme temperatures and to increase yield.
- With right application as per recommendation, it acts directly on the physiological processes of the plants providing potential benefits for growth, development, and/or responses to biotic and abiotic stresses.
- Bio stimulants are considered easy-to-use agroecological tools for stimulating plant growth and enhancing plant nutrient uptake and salt stress tolerance.

### Q: What is Mahadhan Shine?

It is a natural biostimulant containing Amino Acids obtained from fermentation of vegetable proteins and sugars/polysaccharides.

### What is the composition of Mahadhan Shine?

Mahadhan Shine is composed with the following:

Total Amino Acids	: 18 - 24 %	Free Amino Acids	: 11 - 14 %
Total Nitrogen	: 7.0 - 8.3 %	Ammoniacal Nitrogen	: 4.0- 4.5 %
Organic Nitrogen	: 3.0 - 3.8 %	Organic Carbon	: 17 - 20 %



### Which is the recommendation for using Mahadhan Shine?

Mahadhan Shine should be sprayed on the foliage as given below; the general dilution rate is 3 mL per litre of water:

Crop	I Spray	II Spray	III Spray
Tomato	25-30 days after transplanting	50-55 days after transplanting	After 3 pickings
Onion	25-30 days after planting	-	-
Cotton	30-35 days after sowing	60-70 days after sowing	-
Pomegranate	80-85 days & 100-105 days after defoliation	130-135 days after defoliation	-
Grapes (Oct. pruning)	25-30 days after pruning	55-60 days after pruning	-
Banana	40-45 days after planting	60-65 days after planting	90 days after planting