

## **Role of various Micronutrients in plant**

### **Boron (B)**

- Helps in the use of nutrients and regulates other nutrients.
- Aids production of sugar and carbohydrates.
- Essential for seed and fruit development.
- Facilitate translocation of sugar in the plant
- Important for synthesis of nucleic acid and plant hormones.
- Essential for cell division and development

### **Copper (Cu)**

- Important for reproductive growth.

Aids in root metabolism and helps in the utilization of proteins.

Important in photosynthesis, carbohydrate metabolism and also in photosynthesis

### **Iron (Fe)**

- Essential for formation of chlorophyll.

Present in several important enzyme

### **Manganese (Mn)**

- Functions with enzyme systems involved in breakdown of carbohydrates, and nitrogen metabolism.
- Activate various enzymes necessary in photosynthesis

### **Molybdenum (Mo)**

- Helps in the use of nitrogen
- Present in various enzymes
- Essential for nitrogen fixation and nitrogen assimilation

### **Zinc (Zn)**

- Essential for the transformation of carbohydrates.
- Regulates consumption of sugars.

- Part of the enzyme systems which regulate plant growth.
- Promotes seed development

### **Micronutrient Grade available from Emerald-LD and SD**

#### **Gujarat Grade No-5**

Fe : 2.0 %  
Mn : 0.5 %  
Zn : 5.0 %  
Cu : 0.2 %  
Mo : 0.0 %  
B : 0.5 %

#### **Maharashtra Grade No-1**

Fe : 2.0 %  
Mn : 1.0 %  
Zn : 5.0 %  
Cu : 0.5 %  
Mo : 0.0 %  
B : 1.0 %

#### **Direction for use:**

**Dose- 5 kg / acre for Emerald-SD  
10 kg/ acre for Emerald-LD**

#### **Broad casting:**

Take material from Emerald bag and broad cast it near plant stem at soil level. After applications give water so that Micronutrient from Emerald dissolves in water and can reach up to soil rhizosphere

#### **Compost Mix:**

Emerald can also be mix with well decompose fym and added to soil

#### **Fertilizer Mix:**

At the time of fertilizer application we can mix Emerald with chemical fertilizer\* and add to soil

**Note-** avoid mixing of Emerald with Single Super Phosphate fertilizer

**Packing available**

**Emerald-SD** – 5 kg, 10 kg

**Emerald-LD** – 10 kg, 50 kg

**Self life** – 5 years