

Polysulphate 

**Trial**



**S** 18.5% S

**K** 13.5% K<sub>2</sub>O

**Mg** 5.5% MgO

**Ca** 16.5% CaO

## Cotton (*Gossypium hirsutum*) on black soils

Polysulphate fertilizer is a soluble, easily-absorbed, cost effective answer to crop nutrition, containing four key plant nutrients: sulphur, potassium, magnesium and calcium



Polysulphate 



## When

- Sowing: June 2020
- Harvest: December 2020



## Where

Maharashtra, India



## Crop

Cotton (variety Ajit 659)



## Soil type

Black cotton soil



## Measurements

- Yield
- Sympodial branches/plant
- Bolls/plant
- Boll weight

Mined in the UK, ICL is the first – and only – producer in the world to mine polyhalite, marketed as Polysulphate.

For more information consult [www.polysulphate.com/contact](http://www.polysulphate.com/contact) for your contact in your region.

[www.polysulphate.com](http://www.polysulphate.com)

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**Polysulphate** 

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**Fertilizerplus**   
Premium plant nutrition from ICL Fertilizers



## Objective

To evaluate the effect of Polysulphate on the yield and important yield parameters of cotton when compared to the farmers' common practice in Maharashtra, India.

## Treatments

Nine unreplicated field trials were carried out on 0.4 ha plots in Ahmednagar, Aurangabad, and Beed district of Maharashtra, with control plots of the same size where the farmers' common fertilizer practice was used. The control plots received of a basal application of 125 kg/ha DAP and 125 kg/ha MOP, followed by 225 kg/ha of urea top-dressed one month after sowing in two split applications at 15-20-day intervals. The Polysulphate-treated plots received the same fertilizer applications as the control, with an additional basal application of 125 kg/ha of standard Polysulphate.

## Results

- Seed cotton yield increased by 21% in the Polysulphate treated plots across the locations, with an average yield gain of 5.4 q/ha.
- Yield contributing traits namely sympodial branches and bolls/plant increased by an average of 12% and 31% respectively across the locations in Polysulphate plots compared to the controls.
- Average boll weight increased by 1.5 g in Polysulphate plots compared to the controls.
- Polysulphate application increased the net return and was very profitable in all locations, with an average benefit:cost ratio of 7.7.

