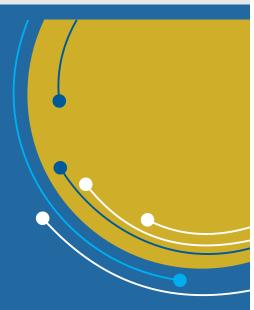
Improved Gladiolus Corm and Flower Production Technology





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The proposed technology comprises a combination of sowing method and a bacteria based bioinoculant. It was validated for enhanced gladiolus production by comparing three different corm sowing methods i.e. as such with scales, descaled or descaled

and cut into portions, along with a bacterial consortia (quorum quenching, QQ based) as plant healthcare bioproduct. The consortia treated descaled and cut half corms not only produced more number of flowers and corms but also showed more variation in terms of timing for flower emergence as compared to the corms sown by two other methods. Data were recorded for sprouting, growth parameters at 1st, 3rd, 6th leaf stage, flower emergence and number of corms harvested. Treated plants remained healthier and showed less diseases. This study proposes a novel technology for increased profitability.

Methods & Results



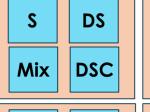




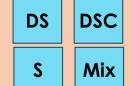
Scale (S)

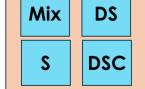
Descale (DS)

Descale and Cut (DSC)









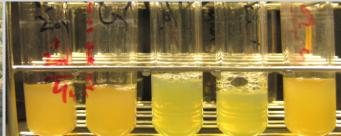
Sowing RCBD design

Sowing 6-8 cm deep Distance 10 cm



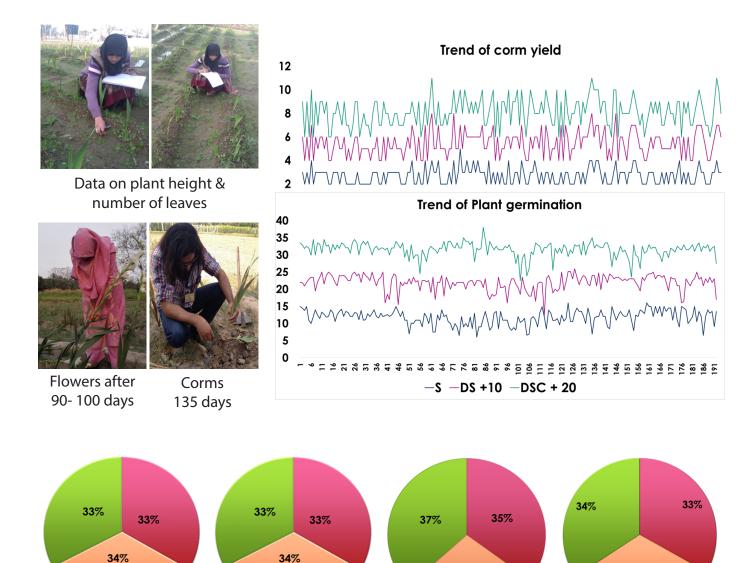






QQ consortia application at 1^{st} , 3^{rd} , 6^{th} leaf stage

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While observing the local market trend Descale and cut corm sowing method is proposed to the farmers as it gives more variation in biological parameters in a given time

DSC

% growth

DSC

% germination

28%

S

% flower yield

S

% corm yield