

### **Abstract**

A study was conducted to examine the post-harvest characteristics of cut stalks of *Godetia amoena* Don. Stalks were harvested at 0900 hrs., one day before anthesis of the For mature bud and held in following test Solutions: Distilled water (Controls) and Sucrose (0.05M,0.10M,0.15M and 0.20M). Half of the stalks were manually defoliated before their transfer to these test solutions. Some stalks were pulse treated with either distilled water, STS (0.5mM) or CHI (0.5mM) for 1hr at 25 °C and held in distilled water or Sue (0.1M)+CoCl<sub>2</sub> (0.1mM). In distilled water (controls), vase life of stalks was 11.3 days. Manual defoliation of stalks held in distilled water enhanced vase life by 2-3 days. Sucrose in the holding solution had no significant effect on the vase life of either foliated or defoliated stalks. STS pulse treatment of stalks before transfer to distilled water significantly prolonged vase life by 3 days as compared to controls; whereas CHI pulse treatment reduced it by 7-8 days. Sue (0.1M+CoCl<sub>2</sub> (0.1mM) in the holding solution showed negative effect, irrespective of pulse treatment with either distilled water, STS or CHI. It is suggested that the cut off ,of nutrient supply is not a limiting factor for the development and opening of buds on the cut stalks and that the ethylene and leaves are involved in the senescence of cut stalks of *Godetia amoena*

Abbreviations used: CHI- Cycloheximide; STS-Silver thiosulphate; Suc- Sucrose