

Validation of Mechanized Priming Technology for Potato (Tubers) ICAR-Central Potato Research Institute – RS, Ooty, Tamil Nadu

Validation of Mechanized Priming of Potato tubers in hot water
against potoscab (bacterial pathogen) and with chemicals against
blights (fungal pathogens)



Collection of infected tubers from
farmer's fields



Validation of hot water treatment
for the management of potato scab



*In Potato, common scab caused by *Streptomyces scabies* is an important disease in reducing the marketability. Moreover, it is highly important in seed production programme to avoid spread of the disease through seed tubers. Since temperature treatment for long duration is found affect the tubers, rapid treatment by vacuum infiltration in Mechanized Priming Device is found to be useful without affecting germination. Hence, it is being standardized at different temperature regimes from 50°C to 60°C.*

Besides mechanized treatment of tubers with hot water followed by chemicals is being validated against scab and only with fungicides against potato blights viz., Early and Late blights.



Treatment of tubers in
Mechanized Priming Device



Treated



Control

**Mechanized tuber treatment with bacterial bioagent against fungal
and bacterial diseases and growth promotion**