

### **De-hulling of horse gram seeds (*Dolichos biflorus*)**

Horse gram (*Dolichos biflorus*) is a legume as both human and animal feed and contains 25% protein. However, the major obstacle in utilization of mature seeds of horse gram is the difficulty of removing their seed coats which are tightly attached to the cotyledons and need severe conditioning and milling treatments for their removal. At present, seed coats are removed using the pestle and mortar, which operate on the principles of abrasion and friction, for de-hulling of horse gram seeds subjected to different pre-conditioning treatments of heating, boiling in water followed by drying and soaking in water followed by drying was studied. Use of friction polisher in milling of horse gram was not effective, since the hull removal percentage was nil. The suitable method for de-hulling of horse gram seeds was heating at 120 °C for 60 minutes and then milling in an abrasive type polisher. Under these conditions the levels of hull removal, milling recovery and broken cotyledons were 24.8, 62.3% and 12.3%, respectively.