

Design and development of a medium scale power driven maize sheller.

Rathnayake, HMAP ,Senanayaka DP, Dissanayake, BDMPB, Bandara,DMSP, Palipane KB and Thilakaratne BMKS, 2014, *Evaluation of medium scale IPHT maize thresher*, Proceedings of the International Research symposium on Postharvest Technology, Institute of Post Harvest Technology, Sri Lanka. pp151-154

Even though the shelling of maize by two wheel or four wheel tractors leads to considerable damage to seeds, it is still popular among the medium scale maize growers due to absence of high capacity maize shellers in the country.

The maize sheller designed and developed by the IPHT can overcome the shortcomings associated with the shelling methods presently used by the maize cultivators. The IPHT maize sheller can shell about 3500 cobs per hour with minimum percentage of broken grains. The Sheller can be operated by a 02 hp single-phase electric motor or by a kerosene water pump. Taking into consideration of the capacity, quality of seeds and the power requirement this IPHT maize sheller would be an appropriate and cost effective machine for medium scale maize growers in Sri Lanka.