Design and development of power operated wet type dehuller for green gram and black gram

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ABSTRACT

A small unit of power operated wet type dehuller was developed incorporating rough dehulling surface for removal of hulls of soaked green gram and black gram. The soaked green gram and black gram for 1st, 2nd, 3rd, 4th and 5th hour was dehulled at three different revolutions as 40, 60 and 80 of dehuller. The power-operated dehuller achieves higher dehulling efficiency for five-hour soaking period with minimum losses. The study shows 94 per cent dehulling efficiency for black gram while 97 per cent dehulling efficiency for green gram during five hour of soaking period at 40, 60 and 80 rpm, while the dehulling capacity of wet type dehuller was found to be 8 kg/hr.

Key words: Green gram, Black gram, Dehuller, RPM, Dehulling efficiency, Dehulling capacity