

## **Evaluation of different types of rice polishing machines available in Sri Lanka for their milling performance**

*Roomi M.S.M , Senanayake D.P., Palipane K.B., “Evaluation of rice polishers available in Sri Lanka for their milling performance with the long red raw rice” IPHT Technical Report, 2003*

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Different types of rice polishers and polisher combinations used in Sri Lankan rice mills, for the whitening and polishing operations of non- parboiled rice belonging to the popular variety Bg 352 (long grain type with white pericarp) were evaluated for their performance with a view to recommending suitable machinery types to rice millers. Brown (husked, unpolished) rice was subjected to single and double pass polishing to obtain a polishing percentage of 8% by weight. The machines were first adjusted to optimum operating conditions and their performance was evaluated in terms of efficiency, capacity, power consumption, rice whiteness, percentage broken grains, labour requirement and cost of polishing. The results showed that the best machinery combination for polishing of the long grain type non-parboiled rice is the use of an abrasive type polisher as the primary polisher and a friction type polisher, whose screen also rotates at a slower speed than the protruded steel cylinder, as the secondary polisher.