

Testing and evaluation of Pedal operated potato peeler

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■ **ABSTRACT** : The pedal operated potato peeler (CIAE model) was tested for its performance. The performance evaluation of machine was carried out in terms of machine capacity, peeling efficiency, operational cost, benefit cost ratio and payback period. The capacity and peeling efficiency of the machine were 144 kg/h and 83%, respectively. The machine capacity and peeling efficiency were highly affected by weight of potato per batch and operational time of the machine. For maximum capacity (144 kg/h) and peeling efficiency (85.8%), the weight of potato per batch and operational time were 6 kg and 2.5 min, respectively. The operational cost of the machine was Rs. 74.77/h. The benefit cost ratio and payback period were 1.72 and 0.33year (4 months), respectively. The pedal operated potato peeler would be suitable for farmers as well as small entrepreneurs.

■ **KEY WORDS** : Machine capacity, Peeling efficiency, Operational cost, Benefit cost ration, Potato

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