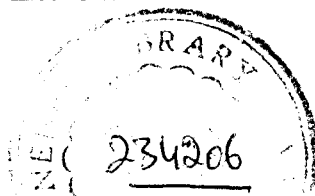


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ABSTRACT

(An abstract of the thesis submitted in partial fulfillment of the requirements for the degree of M. Sc. in the subject of Food Science and Technology to the CCS Haryana Agricultural University, Hisar)

The *Wadi* making machine was designed and fabricated. The different parts of this machine were procured from the local market. A trial run was conducted to see the performance and efficacy of the *Wadi* maker. The working of different mechanisms was also tested. The *Wadies* were prepared from green gram dhal with the help of this *Wadi* maker machine. The time taken for the preparation of *Wadi* was noted. The *Wadi* prepared was packed in five different packaging materials namely metallized polyester, high density polyethylene, low density polyethylene, polypropylene and plastic container. The storage studies were conducted on them for the period of 3 months with an interval of one month. During storage, *Wadi* was analysed for its chemical qualities like moisture, ash, fat, fibre and protein and its organoleptic qualities like colour, texture, flavour and overall acceptability on a 9-point hedonic scale. On the basis of chemical analysis and sensory evaluation it was found that plastic containers and high density polyethylene were most suitable for the packaging of green gram *Wadi*. According to the economic evaluation of the *Wadi* maker, the cost of operation was Rs.8.18 per hour. The total cost of preparation of 1 kg *Wadi* was Rs.27.73 per kg. There was net saving of Rs.41.30 per day by using *Wadi* maker instead of normal method.



Anil