

ABSTRACT

Drying is an important stage in shrimp paste production because it directly affects quality and shelf life. Small-scale producers in Sungai Alam Village still rely on sun-drying, which is weather-dependent, takes 4–10 days, and produces inconsistent quality. This study aims to design and develop a shrimp paste dryer using incandescent lamps and a glass collector as a more effective alternative. The research includes identification, design, fabrication, assembly, and performance testing. The dryer measures $150 \times 100 \times 50$ cm, using six 40 W incandescent lamps as heat source and a glass collector to retain heat. Results show the dryer maintains stable temperature of 53.6°C , within optimal range. It shortens drying time to 8 hours, works regardless of weather, and provides a simple, low-cost solution for small-scale producers

Keywords: shrimp paste; dryer; incandescent lamp; glass collector; small and medium enterprises (SMES).