

ICAR- CIFTEQ[®] Solar-LPG-Hybrid Dryer

Salient features

- Solar radiation as main source of heat energy and LPG water heater as a backup heat source for continuous drying operations even under unfavorable weather conditions, i.e during cloudy/ rainy days and night.
- The system is provided with manual sun tracking mechanism for harnessing maximum solar energy during sunshine hours.
- A provision for dehumidifier is provided if the dryer is operated under high humidity conditions.

Advantages

- ✓ Improved shelf life and value addition of the product fetches higher income for the fisher folk.
- ✓ Labor requirement is considerably reduced compared to open sun drying

Specifications

Loading capacity: 50 - 60 kg

Drying time: 6-8 h

Alternate energy back up: LPG



*Machine developed
by*

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<i>Year</i>	2018
<i>Price / Unit</i>	Rs. 4,20,000/-+GST
<i>More information</i>	<p>Status of commercialization / Patent / Publication</p> <ul style="list-style-type: none"> • Samuel, M.P., Murali,S., Aniesrani Delfiya, D.S and Alfiya P.V. 2018. Low cost, energy efficient and eco-friendly ICAR-CIFT fish dryers for preservation and value addition (Brochure in English), ICAR- CIFT, Cochin. • Samuel, M.P., Alfiya, P.V., Murali, S., Aniesrani Delfiya, D.S and Shyma, P.K. 2018. ICAR-CIFT fish dryers (Brochure in Malayalam), ICAR- CIFT, Cochin. • Samuel, M.P., Murali,S., Aniesrani Delfiya, D.S and Alfiya P.V. 2018. Cost effective, energy efficient and eco-friendly ICAR-CIFT dryers for preservation and value addition (Brochure in Hindi), ICAR- CIFT, Cochin. • Murali, S., Amulya, P. R., Alfiya, P. V., Delfiya, D. A., & Samuel, M. P. (2019). Design and performance evaluation of solar-LPG hybrid dryer for drying of shrimps. Renewable Energy, DOI: 10.1016/j.renene.2019.10.002