ICAR- CIFTEQ® Ciftdry SHD-40 - Solar Dryer with Electrical Backup - 40 Kg

Salient features

- Solar as main source of heat energy and electrical heating element as a backup heat source for continuous drying operations.
- The dryer consists of four drying chambers with nine trays in each chamber. The perforated trays accomplish a through flow drying pattern within the dryer which enhances drying rates.
- Ideal for drying of fish, fruits, vegetables, spices and agro products

Advantages

- ✓ Economically viable and eco-friendly – maximum use of solar energy
- ✓ The drying time is reduced considerably with improved product quality.
- ✓ Lesser operating expenses

Specifications

Loading capacity: 40 kg

Alternate energy back up: Electrical

Drying time: 6-8 h

Machine developed by

The Director

ICAR-Central Institute of Fisheries Technology

Willingdon Island, Cochin – 682029, Kerala

	Email: aris.cift@gmail.com
Year	2014
Price / Unit	Rs. 2,80,000/-+GST
More information	**Status of commercialization / Patent / Publication** • Murali, S, Samuel, M.P., Aniesrani Delfiya, D.S, Alfiya, P.V. 2017. CIFT dryers for value addition; Affordable, Energy efficient and Eco-friendly. Kerala Karshakan, 4(11): 30-32 • Murali S, Samuel, M.P., Aniesrani Delfiya D.S, Alfiya P.V. 2017. CIFT dryers for value addition; Affordable, Energy efficient and Eco-friendly. Smart Agri Post, May 2017, 35-37 • Fasludeen, N.S., Murali, S., Samuel, M.P., George Ninan. and Joshy, C.G. 2018. Evaluation of Drying Characteristics of Selected Fishes in Dryers developed by ICAR-CIFT. Fishery Technology. 55(1): 68-73 • Alfiya, P.V and Samuel, M.P., 2017. Solar dryers for fishes. Karshakasree, June 2017. • Fasludeen N.S., Samuel, M.P., Murali S. and George Ninan. 2017. Study on drying of fishes using CIFT dryers. Fish Tech Reporter 3(1), January-June 2017.pp.33-34. • Aniesrani Delfiya, D.S. and Murali, S. (2017) Malivaana Seyalthiran Mikka Matrum Sutrusoolalukku Ugantha CIFT Meen Ularthigal (in Tamil). Meenvalasudar. 05(01): 40-42 • 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., Sathish Kumar, K., Alfiya, P. V., Delfiya, D. A., & Samuel, M. P. (2019). Drying Kinetics and Quality Characteristics of Indian Mackerel (*Rastrelliger kanagurta*) in Solar –Electrical Hybrid Dryer. Journal of Aquatic Food Product Technology, 28(5), 541-554.