



Research & Innovation

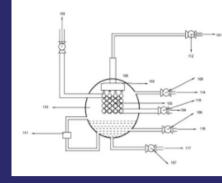


विज्ञान एवं प्रौद्योगिकी विभाग DEPARTMENT OF **SCIENC<mark>E & TECHNOLOG</mark>Y**



Granted IN480801

Corrugated tube heat exchanger



NEED

There's a need for an apparatus to produce distilled water overcoming drawbacks like limited freshwater resources and unsuitability of saltwater for various applications.

SOLUTION

The invention presents a falling-film heat exchanger with corrugated tubes to enhance heat transfer and desalination process efficiency.

INNOVATION

Developing a corrugated falling-film heat exchanger with features like multiple inlet and outlet ports, steam inlet, vapour collecting line, and water level indicator for efficient water distillation.

MARKET ANALYSIS

Market: Desalination plants and industrial water treatment facilities

CAGR: around 7-9% based on recent trends.

Potential Indian Clients: Coastal municipalities, industrial facilities near coastal areas, water treatment plants, and desalination projects catering to the water needs of coastal communities.

WHY INVEST?

Heat exchanger Corrugated tubing Reverse osmosis (RO) Energy efficiency





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AT A GLANCE

- Current TRL NA
- Funded by NA
- IPC B01D, C02F, F02M, F22B, F22D
- Domain Heat exchanger technology for water distillation

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