

**RESEARCH AND DEVELOPMENT FUND
PROJECT SPOTLIGHT**

DEVIDAYAL SOLAR SOLUTIONS PVT LTD

TRUCK-MOUNTED SOLAR REFRIGERATORS: ENABLING WOMEN ENTREPRENEURS TO REACH MARKETS THROUGH TECHNOLOGY

The project will create a cold chain ecosystem by using truck-mounted solar refrigerators and a smartphone operated Demand and Distribution system. This will enable local women entrepreneurs and farmers to reach new markets.

This project's main objective is to enable women entrepreneurs and farmers to get the best price for their produce and reduce food spoilage. This project has four aims: reduce the levels of food wastage, improve energy access, help alleviate poverty and tackle gender inequality. To achieve these aims, the project will organise and manage the technology from procurement to distribution at a pilot scale using our tested solar DC refrigerators.

To create the transportable cold chain system, solar panels will be mounted on each vehicle which will be connected to a charge controller and battery for the DC refrigerator. The market linkages will be made in collaboration with Lateral Praxis using a Demand and Distribution (DND) app. The project's approach is to train the local Internet Saathis (associates) using on the ground partners and a smart phone enabled system. The project will also implement training to help local women entrepreneurs grow their businesses.

The project plans to use a flexible design for the cold chain system. This will help users manage different produce simultaneously and easily change produce when needed. It will also help transport agricultural produce.



AT A GLANCE

R&D Partner
Devidayal Solar Solutions
PVT LTD

**Efficiency for Access
Funding**
£160,000

**R&D Funding Unlocked
from Devidayal Solar
Solutions PVT LTD**
£ 68,531

Project Locations
India, Tanzania