

GROWER EXTENDS REACH AND EXPANDS MARKETS **THANKS TO CARRIER'S COLD CHAIN EXPERTISE**

Carrier spearheaded a cold chain demonstration with a kinnow grower in northern India to measure the impact of cold storage and refrigerated transport on extending shelf-life and expanding sales to new domestic and export markets. The project showed how the cold chain is a game-changer, increasing profitability by up to 23%, reducing post-harvest food loss by **76**% and CO₂e emissions by 16%, and opening up exports to 10 countries.





Kinnow is a small citrus fruit rich in micronutrients that is grown in the Punjab region of India and Pakistan

PRE-DEMONSTRATION

Kinnow was traditionally transported using open trucks and sold mainly in local outdoor markets in the Punjab region. In fact, most of India outside the Punjab had never seen or tasted a kinnow.

available only **2-3 months** a year



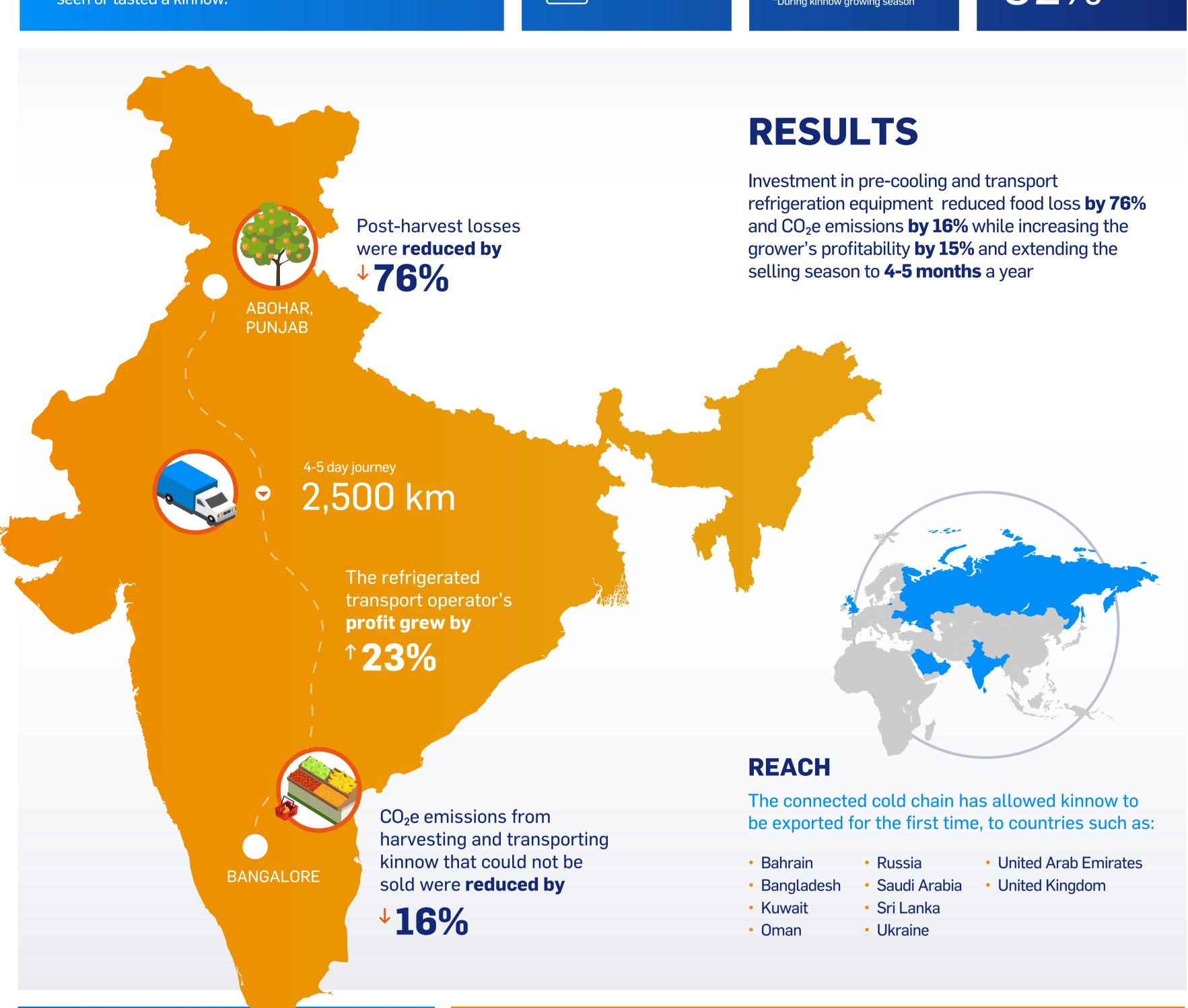
Kinnow is best kept at **4-5°C** and relative humidity of **85-90**%

O Abohar 12-15°C*

Sangalore 20-30°C* *During kinnow growing season

Growers typically sustained post-harvest losses up to

32%



We earn higher profits if the kinnow market is extended beyond March. The quality of kinnow received in refrigerated trucks is much better than the quality received in open-air trucks. The price differential reflects the same."

- Mr. Kamal Arora IG International Distributers, Bangalore

PAYBACK

The participating grower, Balaji Fruits, saw payback periods of



2 years Pre-cooling equipment

* 4 years Refrigerated trucks

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REFRIGERATED **TRUCK TRIPS**



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