

Mid Term Review July 2021

# **Activity 2.4 Mango Processing Study – Partial Freezing Trial**

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Funding Agency

Australian Government

Australian Centre for International Accidental Ac

## Aim & Purpose

### **Activity 2.4**

Mango processing study – Partial freezing trial

#### **Focus**

Optimizing the returns for effort for small-holder farmers by utilizing excess mangoes by bulk freezing at the height of the season for later on-processing thereby minimizing waste and increasing processing facility usage.

#### **Research questions**

- Is processing mangoes in bulk at the height of the season likely to increase the return for effort for small-holder farmers by reducing losses, increasing the utilization of the crop by processors?
- What is the potential to increase farmer incomes by such an approach and are processors likely to benefit through increased usage of the facilities by on-processing the bulk frozen mangoes out of season?
- What are the roles and responsibilities of the key local partners to ensure the innovation successes are mainstreamed within the communities in southern Vietnam?

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## Conducted 3 processor interviews

- quality imperatives for exported frozen mangoes now understood
- 3 freezing mango trials with the processors conducted
- quality characteristics of mangoes suitable for processing defined
- draft Guide for Bulk Mango Freezing completed as a for runner of a Code of Practice

## **Achievements**





Thawed flesh-cut Keo mangoes (Sao Khue company)





Thawed flesh-cut Cat Chu mangoes (Hung Hau company)





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Thawed flesh-cut Cat Chu mangoes (Western Farm company)

# **Capacity Building**

## Research team reported the following capacity building:

- Developed skills in interview
- Developed skills in research design
- Developed skills in assessing sensory quality of frozen mango product
- Understood the way to build a Code of practice for freezing mangoes

#### SIAEP Team

- Tran Thi Kim Oanh
- Lam Dong Pho
- Dang Thi Sau
- Nguyen Vinh Phuc
- Nguyen Hoai Nam
- Ngo Van Binh
- Tran Ngoc Linh

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## **Lessons learnt**

#### What worked well:

- The online course was structured well.
- Online-meetings and quick skype chat with expert were conducted well

# What could be changed or improved next time:

 Providing the course on building Standard Operating Procedure for frozen mango

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## Pathway to completion

### Tasks to be completed July '21 – March '22

- ▶ Bulk freezing at the height of the season concurrent with normal freezing processes increases demand for the crop, reduces waste provides a resource for utilization out of season easing fixed costs with the ultimate outcome that returns for effort are maximised for all chain members especially small holder farmers.
- Further liaison with the processors will determine the costs and benefits of such an innovation.
- Benefits to small-holder farmers will be analysed.