



RIPENING TRAININGS IN TAMILNADU

EXECUTIVE SUMMARY

Tamilnadu stands first in initiating action against carbide ripening in the country. The Health and Marketing Departments issued a notification stating that the carbide ripened fruits information to be given to the department and provided mobile numbers for reporting carbide ripening.

The importance of Ripening chambers will be seen from the production particulars of banana, Mango and Papaya.

Fruit crop	Million Metric tones
Banana	05.65
Mango	0.79
Papaya	0.001

The State is the fourth largest producer of horticultural crops in the country. Tamil Nadu produces 22.00 m. MT of horticultural produce from an area of 1.49 m. ha. and accounts for 7.9% of total horticultural production in the country.

Tamil Nadu is the leader in production of banana and accounts for 19.0% of total production of banana in the country. The State produces 5.65 m. MT of banana from an area of 0.12 m. ha. with productivity of 47.9 t/ha. The producing belts are Thoothukudi, Coimbatore, Erode, Kanyakumari, Madurai, Vellore, Thanjavur, Thiruvannamalai, Salem, Nilgiri, Karur, Tiruchirappalli and Tirumelveli.

Regarding Mango it is the eighth largest producer of mango and accounts for 4.3% of total production of mango in the country. The State produces 0.79 m. MT of mango from an area of 0.16 m ha. with productivity of 4.9 t/ha. The production of mango concentrated in the regions of Coimbatore, Dharampuri, Dindigul, Madurai, Vellore, Theni, Krishnagiri, Thiruvallore, Tirunelveli and Salem.

Papaya contributes to 3.6% of total production of papaya in the country. State produces 0.20 m MT of papaya from 0.001 m ha of area with productivity of 198.7 MT/ha which is the highest among papaya producing States in the country. Major papaya producing belts in the state are Coimbatore, Erode and Tripur.

The trainings are planned as per the production of banana and Mango, scope business development in the area.

EVALUATION REPORT DINDIGUL

Duration : 2 day training program on ripening chambers for fruits
Date : 22nd to 23rd February 2016 at Dindigul, Tamilnadu.

Sl.no	Particulars	Remarks
1	Detailed curriculum	enclosed
2	List of faculty with brief profile	enclosed
3	List of trainees	enclosed
4	List of representatives of ripening chambers participated	enclosed
	a.)Ripening chambers in Dindigul	enclosed
	b.)Ripening chambers outside Dindigul	enclosed
	c.) opinion of the representatives of ripening chambers where training is required. Place where training requested in future as opined by representatives of the ripening chambers.	enclosed
5	Employment generated	enclosed
6	Feedback from agricultural university	enclosed
7	Feedback from trainees	enclosed
8	Feedback from faculty	enclosed
9	Copy of press note	enclosed
9	Media attention received	enclosed
	a.)print media	enclosed
	b.)electronic media	enclosed
10	Photos taken during training programme	enclosed
	a.)First day of training program inauguration and classroom photos	enclosed
	b.)Hands on training & Field visit to ripening chamber	enclosed

**DINDIGUL - DETAILED CURRICULUM
DAY -1: DETAILS | DATE: 22/02/2016**

From	To	Details	Topic
9.30 AM	10.30 AM	Registration & Break fast	Registration
10.30 AM	11.15 AM	Inauguration	Particulars as under

INAUGURATION - GUESTS ON DIAS

1	Balasubramanian	Retd. Professor and HOD TNAU	Chief Guest
2	Mr.Arul	Resource Person	Guest Speaker
3	Mr.Suresh.	Livelihood and Poverty alleviation programs	Guest Speaker
4	C.Abbu Mounik	Director ,Samagra Agribusiness, Hyderabad	Guest Spesker
5	Dr.AP.Rao	Retired AGM in State Bank of India	Guest Speaker
6	Shri.Pirtachi Muthu	Subject Matter Specialist, Dindigal	Guest Speaker

**DINDIGUL- DETAILED CURRICULUM
DAY -1: DETAILS | DATE: 22/02/2016**

FROM	TO	SESSION	TOPIC	SPEAKER
11.15 AM	12.00 PM	First session	Introduction, Natural & Artificial Ripening	Shri.BalaSubramanian
12.00 PM		Tea		
12.00 PM	12.45 PM	Second Session	Different ripening techniques	Mr.Pirtachi Muthu
12.45 PM	1.30 PM	Third Session	Ripening chamber components	C.Abbu Mounik
01.30 PM	02.15 PM		LUNCH BREAK	
02.15 PM	05.00 PM	Visit to ripening chamber	Dindigul	Shri.Bala Subramanian

**DINDIGUL - DETAILED CURRICULUM
DAY -2: DETAILS | DATE: 23/02/2016**

FROM	TO	SESSION	TOPIC	SPEAKER
09.00 AM	10.00 AM		Breakfast	
10.00 AM	10.45 AM	First session	Permission and Clearances required by Government,etc	C.Abbu Mounik
10.45 AM	11.30 AM	Second session	Permission and Clearances required by Bank	Dr.AP Rao
11.30 AM	12.00 PM		Tea Break	
12.00 PM	12.45 PM	Third Session	Post Harvest Technologies	Mr.Pirtachi Muthu
12.45 PM	02.00 PM		LUNCH BREAK	
02.00 PM	03.15 PM	Fourth session	Operations & Maintenance of Ripening Chamber	C.Abbu Mounik,Samagra
03.15 PM	03.30 PM		Tea Break	
03.30 PM	04.45 PM	Fifth session	Project details Project preparation, Subsidy Norms & Obtaining bank loan	Dr.AP.Rao
04.45 PM	05.15 PM		Open session	Pirtachi Muthu,Suresh,Dr.AP Rao C.Abbu Mounik
05.15 PM	05.45 PM		Validation and issue of Certificate of Training by NCCD	Samagra

LIST OF FACULTY WITH BRIEF PROFILE

T.Balasubramanian

Balasubramanian worked as Professor and Head of the Department in Tamilnadu Agricultural University, retired and attending training programs to the farmers. He is having more than 30 years of experience with farmers and horticulture crops. Sri Balasubramanian as Chief Guest motivated participants for wealth creation by developing Horticulture.

Suresh

Arul has more than 10 years' experience in Trainings in horticulture. Several training programs for farmers are conducted .He is organizing trainings through an NGO

C. Abbu Mounik

Director, Samagra Agribusiness Services Pvt. Ltd
B.E(ECE)

Experienced in Ripening Chambers i.e. planning and execution. Modeled with new generation vision by attending and mapping best possible methodology in encouraging other youngsters like him. Has participated in international conferences.

Procedure s of obtaining permissions for submission of Application for subsidy

Dr.Ahmad Hussain

Project Associate, Samagra Agribusiness Services Pvt. Ltd.
Doctorate in agriculture

23 summers of experience spread over in Farm extension, resource mgt for crop production & master trainer in farm production PHT & good agricultural practices for global certification of farm produce winner of meritorious extension personnel award, nominated for young Muslim scientific award, Scientific advisor for *Janan vignana vediks & city library*.

Dr.AP Rao

Project associate, Samagra

B. Sc., Has sound knowledge in the field of irrigation, plantation and horticulture, animal sciences including dairy, poultry, fisheries and piggery. Practical experience in appraisal techniques of agricultural projects including cash flow analysis, credit management appraisal and credit risk assessment. Specialist officer in State Bank of India looking after the banks appraisals of Horticulture, Dairy and Poultry. Joined State Bank of India as Rural development Officer (RDO) in 1979, retired as AGM technical in 2012.

Pirtachi Muthu

He is active in intermediating implementation of several horticulture development programmes in Dindigal and other areas. He has also formed several farmers' groups for growing of fruits and vegetables systematically in the taluk. Takes keen interest in integrating the production and marketing efforts of fruit and vegetable growers.

LIST OF TRAINEES PARTICIPATED:

S.no	Name	Mobile no	Occupation
1	A.Yamuna	9655560206	shg

<u>2</u>	S.Vinutha	9865079179	shg
<u>3</u>	P.Raja Lakshmi	9944579182	shg
<u>4</u>	R.Pandiselvi	9787606350	shg
<u>5</u>	D.Sangeethala devi	8056811711	shg
<u>6</u>	I.Venkateshwari	9790535211	shg
<u>7</u>	I.Aysha	9042983212	shg
<u>8</u>	I.Kiruba	9750128584	shg
<u>9</u>	P.Sasikala	9994430804	shg
<u>10</u>	R.Chandrakala	9952367469	shg
<u>11</u>	K.Revathi	8056845440	shg
<u>12</u>	M.Chitra	9751335968	shg
<u>13</u>	N.Vasantha	9597532651	shg
<u>14</u>	B.Vanitha	9884681519	shg
<u>15</u>	D.Renumathi	7708635860	shg
<u>16</u>	K.Subbulakshmi	7094820538	shg
<u>17</u>	M.Kanmani	8524847915	shg
<u>18</u>	S.Shobanadevi	9786497135	shg
<u>19</u>	K.Maheshwari	9842113913	shg
<u>20</u>	S.Abinayashri	9965805083	shg
<u>21</u>	V.Muthumari	9585752693	shg
<u>22</u>	R.Pandia Lakshmi	9500984612	shg
<u>23</u>	S.Revathi	8015949167	shg
<u>24</u>	R.Logeswari	9791412552	shg
<u>25</u>	M.Manjula	9500214524	shg

<u>26</u>	R.Subathra	9626014351	shg
<u>27</u>	P.Mehala	9842934391	shg
<u>28</u>	M.K.Jesintha Gnanam	8144981906	shg
<u>29</u>	S.Neela Rami	9443828512	shg
<u>30</u>	M.Athi Lakshmi	9715797873	shg

LIST OF REPRESENTATIVES OF RIPENING CHAMBERS PARTICIPATED

Sl.No	Name of the ripening Chamber and Address	Name of the Representative	Opinion on proposed place of training
1	Farmers Friendly Cold Store	Selvaraj	Dindigal

PREPARATION FOR THE SESSIONS:

After receiving the approvals for conducting trainings from National Centre for Cold Chain Development (NCCD), Contacted TNAU professors and other staff to deliver the programs in the local language, as most of the participant's mother tongue is Tamil. We contacted the local NGOs to give wide publicity for the training and advice farmers, traders and unemployed youth to benefit from the program. Information on the training program was given to newspapers. Lists of farmers who had been financed for growing banana and mango in more than 5 acres was obtained and all were contacted over their mobile phones and requested to make use of the training program. Mango Growers' Groups were contacted and requested to advise their members to participate in the program.

While the training program was sanctioned by NCCD for 35 trainees per batch, the local response from farmers, traders and youth was overwhelming. Totally more than 35 farmers, traders and youth attended the program.

AGENDA: EMPLOYMENT GENERATION

As this is the first program of its kind in this part of the State, unemployed youth learned skills suitable for running ripening chambers. Owners of the Ripening Chambers promised to give employment to the trained persons in due course of time.

These trainings are planned on written demand of owners of Ripening Chambers infrastructure, who also assured employment opportunity to the trainees. The prospective employers ie: ripening chamber owners allowed practical trainings in their facility and actively participated with the trainees, and clear the doubts of trainees during the practical session. Two employees of M/s. NSR Farm Fresh also participated in the training programme as they did not have practical experience in ripening of fruits.

It's a dawn of new beginning the newer generation is beginning to understand the importance and benefits of the industry. We hope to see an upcoming change in due course of time.

Actual employment generated will be monitored and reported to the NCCD

FEEDBACK FROM HORTICULTURE DEPARTMENT

The Chief Guest opined that this program helps in creating awareness about the ill effects of carbide use besides raising the issue of safe and scientific ripening chambers for fruits.

Youth who undergo this training program would be able to handle the ripening chambers in scientific and systematic way. Moreover they themselves can successfully become potential entrepreneurs by talking up ripening chambers as agriculture allied activity. Thereby they are able to create employment and also become job providers rather than job seekers.

This program would help representatives of the ripening chambers to know the scientific and systemic approach to handle their existing units. There by able to cut down the lapses in handling and save the quality of the fruit and gain economical benefits. The unskilled workers from the ripening chambers would be the best benefitted as they able to understand the scientific principle behind every operation they use to perform earlier. Even a small skill they learnt during the program would help them to handle the existing unit with more science and precision. This in long run would help the unit to gain efficiency and quality output for sustainable economical benefits which would trigger entrepreneurial activity in this direction which has direct bearing on employment generation.

FEEDBACK FROM BANKERS AND INDUSTRY EXPERTS

Bankers appreciated the efforts of the organizers. They opined that the programme is very helpful to the bankers in appreciating the activity and appraising the proposals received. They mentioned that the consumers need to be educated.

The Department officials mentioned that the programme is helpful for bankers and every banker should come forward to encourage and finance setting up of scientific ripening units as

it will help in improving the health and life of people. He requested the participants to motivate the traders for not using the carbide in mango ripening. He readily consented to extend all facilities to farmers and bankers in setting up ripening units in the taluk. Shri. Chandrasekharan requested the organizers to examine the financial viability of the unit for ripening mango fruits as the crop was highly seasonal.

FEEDBACK FROM TRAINEES

The participants expressed happiness about the training programme and found it very useful. Most participants felt that the information given by experts and faculty were comprehensive and complete. The participants stressed that government should implement the ban on carbide usage in ripening of fruits more effectively. They felt that the drought conditions prevailing in the taluk may not provide ideal opportunities for setting up ripening units immediately. They were hopeful that the irrigation programme proposed by the government would help Dindigul farmers.

All the participants opined that the visit to the ripening unit was extremely useful. Many participants expressed happiness, keen interest in the programme and gave good publicity for the programme.

The participants appreciated the contents of pamphlets printed by the organizers for giving publicity to the training programme. A summary of the harmful effects of carbide ripened fruits, aspects of ethylene ripening and schedule of training were given in the pamphlets.

An approach must also be initiated for awareness, for a basic start by printing of pamphlets and posters in market areas for bringing awareness.

The training program is practical hands on experience and very helpful in understanding the operations of ripening chamber and how the Government is actively available to support the cause. The efforts made by Samagra in organizing the programme at Dindigul, main mango area in the state, were appreciated by all.

FEEDBACK FROM FACULTY

- ✓ The faculty opined that the then general public should be educated that ethylene ripening is similar to natural ripening and hence the point may be highlighted.
- ✓ To encourage purchasing ethylene treated fruits incentive for ethylene treated fruit may be sanctioned by government NHB/NHM to the penultimate consumer.
- ✓ The smaller ripening chambers about half metric ton with 70% subsidy may be formulated and approved to meet the requirement of small fruit traders/ small stake holders
- ✓ One session on cultivation aspects of banana and preharvest preparation of fruits for ripening was requested.
- ✓ Practical demonstration of other types of ripening should have been included in the training programme.
- ✓ Most farmers do not ripen the fruit. They give the orchard on contract to wholesale fruit merchants who harvest the fruits and ripen them in their own way. Such people need to be educated.

Dindigul

Training Programme in progress



in the Ripening unit



Participants in the Training in Dindigul

