



Research Paper

## Value addition of papaya in Marathwada region of India

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**ABSTRACT :** One processing unit from both Nanded and Parbhani districts is selected for the current study on the basis of highest recovery from the processing unit. One set of questionnaire is also prepared for the papaya processor. After preparing the questionnaires, considering the above points it was pre-tested and the data were collected by survey method pertaining to the agricultural year 2009-2010. In regard to processing cost in papaya was achieved by tabular method and by using various statistical and arithmetical tools such as mean, percentage and ratio method. The total fixed cost was Rs.13, 532, 95 and the total cost of processing of pulp and jam was 2243815.6 and 1261600.36, respectively. And the gross return were observed was 3025000 and 1240000, respectively. Processor received papaya from farmer in Rs. 200 per quintal and after value addition *i.e.* processing the pulp was sold in Rs. 2000/q. In which the processing cost was Rs.1029.21 in such business processor get margin of Rs. 970.79/q. While purchasing price of retailer was Rs. 2000/q and cost incurred by retailer was Rs. 94.70 whereas the selling price of retailer or the purchasing price of consumer was Rs. 2500 in such business retailer get margin of Rs. 405.3.

**KEY WORDS :** Processing cost, Tabular method, Value addition

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### INTRODUCTION

The post harvest losses of papaya in India are estimated at 5-30 per cent of total production. The processing of papaya fruit not only minimizes these losses to some extent but also gives better return to farmer during the glut season. Processing also makes availability of papaya product throughout the year irrespective of season. However in, India the total processed fruit account for per cent of total production. Therefore, there is great scope for processing of papaya fruits to curtail the post harvest losses. The various products such as jam, jelly, candy, nectar, puree, concentrate slab, toffee, tutti-fruity, freeze dried chunk, dried rolls, dried slices and pickles can prepared from papaya processing. The knowledge of cost and return of papaya product, marketing margin and price spread of papaya processed product and its profitability will be useful for the farmers, who want to substitute this crop for the traditional crops grown in the area. Keeping in view above aspects, the present study has been undertaken to workout value addition in papaya.

### MATERIALS AND METHODS

One processing unit from both Nanded and Parbhani districts was selected for the current study on the basis of highest recovery from the processing unit. One set of questionnaire was also prepared for the papaya processor. After preparing the questionnaires and considering the above points, it was pre-tested and the data were collected by survey method pertaining to the agricultural year 2009-10.

In regard to processing cost in papaya was achieved by tabular method and by using various statistical and arithmetical tools such as mean, percentage and ratio method. Per quintal cost of processing was workedout by the following formula:

$$\text{Processing cost per quintal} = \frac{\text{Total cost} - \text{raw material cost}}{\text{No. of quintal}}$$

### RESULTS AND DATA ANALYSIS

The results obtained from the analysis of data are discussed in different sub-heads as under: