

## "KVIC- REGP-(Gramodyog Rojgar Yojana)"

### Project Profile on Tomato Products

#### Introduction

Tomato, though botanically a fruit for the purpose of trade, is generally considered a vegetable because of the way in which it is consumed. Tomatoes are widely grown in all parts of the world. However, the yield per hectare is the highest (245 tonnes/hect.) in Netherlands. The world average yield of tomato is 23 tones per hectare. Indian average yield of tomato is 9.6 tones per hectare. Tomato products such as puree, juice, ketchup are commonly used commodities in households, hotels are restaurants. These items are used to enhance the taste of different food products. Tomato puree is used as a substitute of fresh tomato in cooking. Ketch up is a sweeter and diluted version of puree (Pulp).

**Process of Manufacture:** Special varieties of tomatoes like scarlet globe, early red bonny best, pondrosa, seoux, pasaruby, marglobe, etc. are suitable for preparation of processed products of tomato. Tomato juice- Fully ripe will developed colour tomatoes are washed, trimmed, steamed, crushed in a crusher or cut into pieces with knives. The crushed pieces are heated in the steam jacketted kettle till they become quite soften. The heated tomatoes are passed through the pulping machien using a fine mesh sieve to separate juice from seeds and the skin. The sugar and salt @ 1% is added and heated to 85-90 C. The hot juice is then filled in bottles, sealed immediately and processed sterlised in boiling water for about 30 minutes and cooled. Tomato Puree- The juice obtained as above is concentrated under cacuum to about 9% to 12% total solids so as to get tomato puree. The product is filled in bottles, crown corked and processed in boiling water for 30 min. and cooled. Tomato Ketchup - The juice obtained as above is concentrated with spices, salt, sugar etc. The spices like cloves, cardamom, pepper, cinnamon and other ingredients etc. are tied loosely in a muslin cloth and placed in boiling juice in steam jacketted Kettle. The sugar, salt and vinegar or acetic etc. are added later on. Generally, concentration is doen three folkd. It is concentrated to 28% to 30% solids in which 12% are tomato solids. The final product could be preserved by addition of sodium benzoate @ 750 ppm. The tomato ketchup is filled hot into clean, dry bottles, crown corked and processed in boiling water for 30 minutes and cooled at room temperature

1 **Name of the Product :** Tomato Product such as Tomato puri, Ketchup, Juice

2 **Project Cost :**

a Capital Expenditure

Land : Own

Workshed in sq.fmts 150 On rent Rs. 36,000.00

Equipment : Rs. 650,000.00

Steam boiler 150kg/hr-1, Washing machine-1, S.S. tilting type steam jacketted kettle of cap. 10 HP motor-1, S.S. tilting type steam jacketted kettle of cap. 100 gallons-1, S.S. silting type steam jacketted vacuum kettle of cap. 100 gallons-1, Pulper cap. 1/2 ton per hr. with 3 HP Motor-1, Exhaust and processing tank-1, Pasteuriser tank-1, Bottle washing

Total Capital Expenditure Rs. 686,000.00

b Working Capital Rs. 410,000.00

**TOTAL PROJECT COST :** Rs. 1,096,000.00

3 **Estimated Annual Production Capacity:** (Rs. in 000)

Sr.No.	Particulars	Capacity in Kgs	Rate	Total Value
1	Tomato Juice, Pure, Ketchup	108000.00		2459.04
<b>TOTAL</b>		<b>108000.00</b>	<b>0.00</b>	<b>2459.04</b>

4 **Raw Material** : Rs. 1,005,000.00

5 **Labels and Packing Material** : Rs. 400,000.00

6 **Wages (4-Skilled & 4- Unskilled)** Rs. 575,000.00

7 **Salaries MANAGER-1** Rs. 120,000.00

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8	Administrative Expenses	:	Rs.	65,000.00
9	Overheads	:	Rs.	100,000.00
10	Miscellaneous Expenses	:	Rs.	45,000.00
11	Depreciation	:	Rs.	66,800.00
12	Insurance	:	Rs.	6,860.00
13	Interest (As per the PLR)			
	a. C.E.Loan	:	Rs.	89,180.00
	b. W.C.Loan	:	Rs.	53,300.00
	Total Interest		Rs.	142,480.00
14	Working Capital Requirement	:		
	Fixed Cost		Rs.	326,040.00
	Variable Cost		Rs.	2,133,300.00
	Requirement of WC per Cycle		Rs.	409,890.00

**15 Cost Analysis**

Sr.No.	Particulars	Capacity Utilization(Rs in '000)			
		100%	60%	70%	80%
1	Fixed Cost	326.04	195.62	228.23	260.83
2	Variable Cost	2133.00	1279.80	1493.10	1706.40
3	Cost of Production	2459.04	1475.42	1721.33	1753.93
4	Projected Sales	3000.00	1800.00	2100.00	2400.00
5	Gross Surplus	540.96	324.58	378.67	432.77
6	Expected Net Surplus	474.00	258.00	312.00	366.00

- Note :
1. All figures mentioned above are only indicative.
  2. If the investment on Building is replaced by Rental then
    - a. Total Cost of Project will be reduced.
    - b. Profitability will be increased.
    - c. Interest on C.E.will be reduced.