

## Chapter 4

### **PRODUCTION/TECHNICAL FEASIBILITY**

This chapter presents the details of the products, how they will be produced for manufacturing and industrial projects, locations, buildings, and facilities, project capacity, and lay-outing proposal, machinery, and equipment, raw materials, manpower requirement, project utilities, waste disposal management, production system documentation and forms

#### **Product Description**



Savor the vibrant taste of our Mango Gummy Candy, made with real mango puree for a sweet and tangy tropical flavor in every bite. These soft, chewy gummies are crafted from high-quality ingredients and contain no artificial colors or flavors, making them a natural treat for all ages. Packaged in a resealable bag for freshness, our Mango Gummy Candy is perfect for on-the-go snacking or sharing—enjoy a burst of tropical goodness

## Production Process

## Monitoring Standards

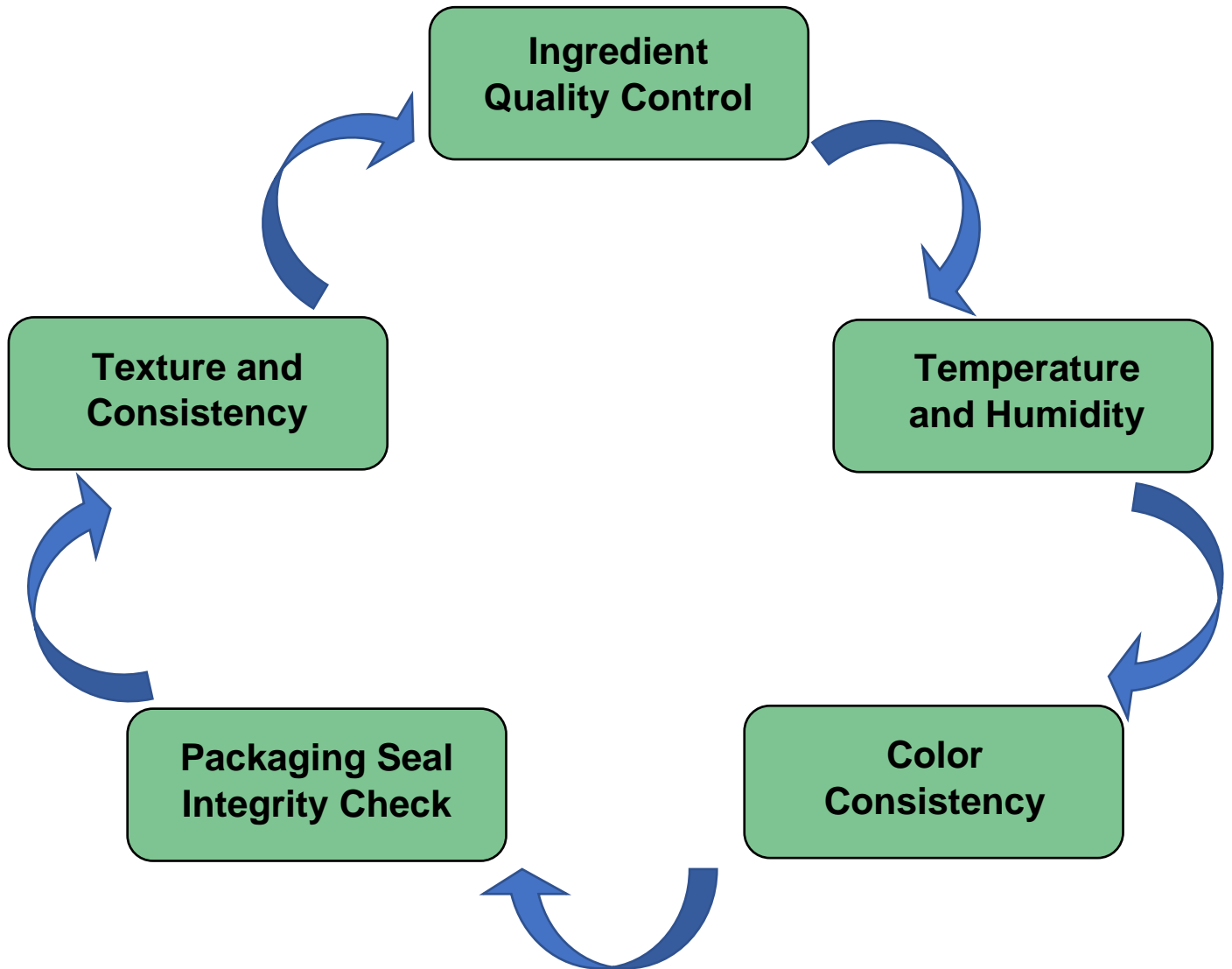






Figure 10.

## Machinery and Equipment



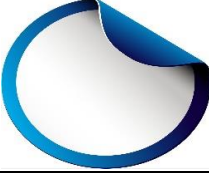
**Table 15**

### Raw Materials

Item	Description	Unit of Measurement	Unit Cost (₱)	Monthly (₱)	Annual Cost(₱)
	Mango	½kg.	90	2,700	36,000
	Gelatin	100g.	120	3,600	43,200
	Water	1L.	10	300	3,600
	Sugar	1kl.	100	3,000	32,400
<b>Total</b>			320	9,600	115,200








**Table 16**

### Packaging Material

Item	Description	Quantity	Unit Cost (₱)	Monthly (₱)	Annual Cost(₱)
	Container	20pcs.	240	7,200	86,400
	Paper Bag	50pcs.	20	600	7,200
	Brand Sticker	20pcs	20	600	7,200
<b>Total</b>			280	8,400	100,800

**Table 17**

### Tool and Supplies

Item	Description	Quantity	Unit Cost (₱)	Total (₱)
	Non-Stick Pan	1pcs.	160	160
	Spatula	1 set.	18	18
	Apron	3pcs	42	129
	Measuring Cup	1 set	56	56
	Hair Net	1 set	56	56
	Rugs	50pcs	10	500
	Hand Gloves	1 set	97	97
<b>Total</b>			439	1,016

**Table 18.**

**Technological Assistance / Manpower: Requirements**

Position/Title	Name of Personnel	Address/Number
Owner/Manager	Orzal, Catalina I.	Pililla Rizal/09122864357
Sales Personnel	Alfaro, Cyrene Mae O.	Baras Rizal/09705743014
Production Worker	Dorado, Lovella Jessa C.	Mabitac Laguna /09067853633

### Production Site/Location



**Figure 11.**

The Indian Mango Candy business will be located at Barangay Paagahan Mabitac, Laguna. With the total land area of 124 sqm and space area of 50 sqm.

It was chosen because of its balance climate and it is near to people who passes by which makes the business more accessible.

**Table 19.**

**Cost Estimation**

<b>Item Description</b>	<b>Quality</b>	<b>Source of Funding</b>	<b>Total Cost</b>	<b>Remaks</b>
Land	124 sqm.	Capital Share	₱186,000.00	Purchased
Legal Expenses	8	Capital Share	₱1,625	Sanitary Permit, BIR, and Etc.
<b>Total</b>			<b>₱187,625.00</b>	

**Project Lay-Out / Floor Plan**



**Figure 12**

**Front View**



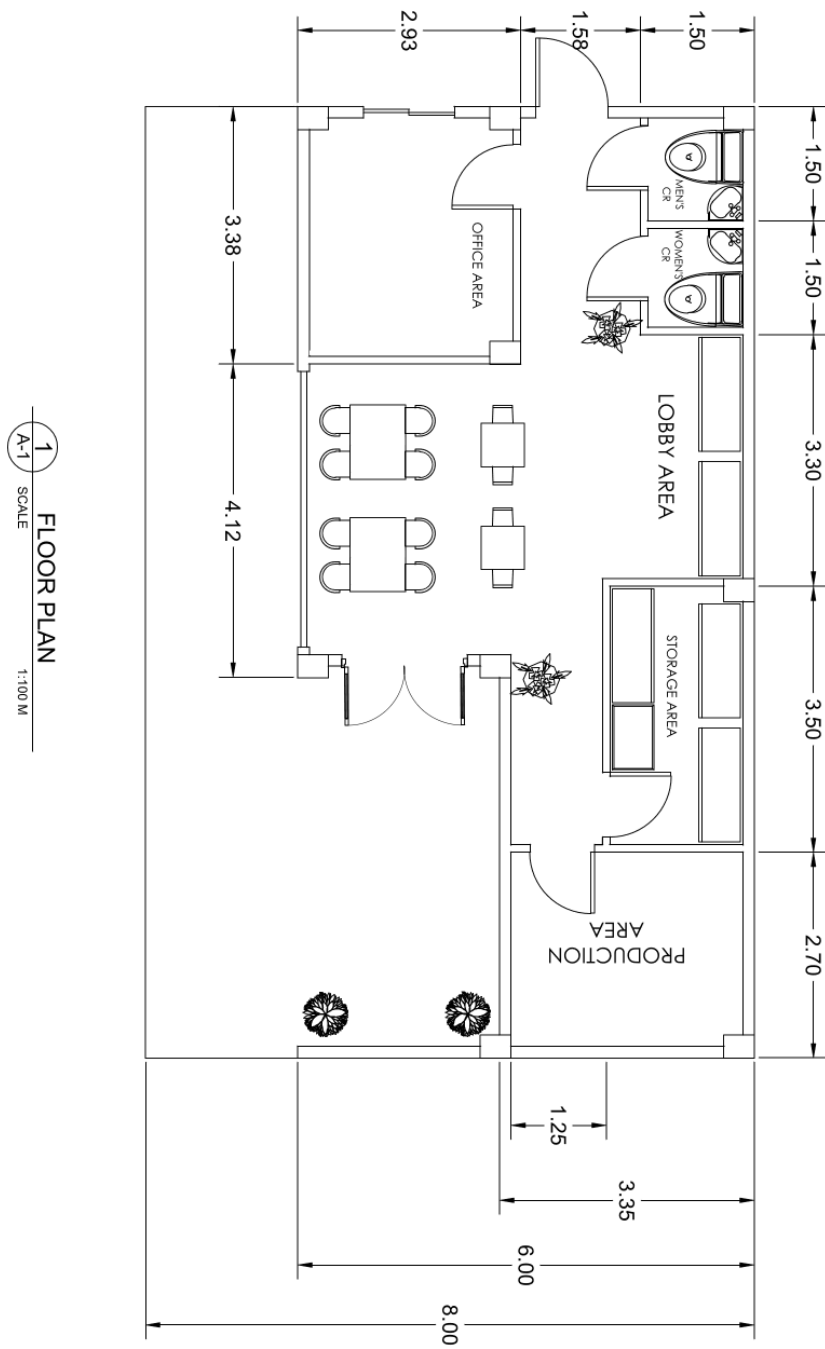









Figure 13

Floor Plan

Item	Description	Quantity	Unit Cost (₱)	Total (₱)
	Cutting Table	1pcs.	1,777	1,777
	Cutting Equipment	1 set.	75	75
<b>Total</b>			1,852	1,852

The table shows the total list of Production and their quantities needed to produce dishwashing liquid. Total cost of this Php 1,852.00




**Table 20**

Item	Description	Quantity	Unit Cost (₱)	Total (₱)
	Printer	1pcs.	5,000	5,000
	Ballpen	1 set	65	65
	Bond Paper	1 Bundle	200	200
	Laptop	1pcs.	25,000	25,000
	Calculator	1pcs.	75	75
<b>Total</b>			30,340	30,340

This table shows the total list of Office supplies and their quantities needed to produce gummy candy. The total cost of this Office Supplies is Php 30,340.

**Table 21**

**Office Supplies**

Item	Description	Quantity	Unit Cost (P)	Total (P)
	Office Chair	2pcs.	995	995
	Storage Rack	3pcs.	450	450
	Office Table	1pcs.	1,565	1,565
<b>Total</b>			3,010	3,010

This table shows the list of production furniture and fixtures and their quantities needed to produce dishwashing liquid soap. The total cost of this is production tools and supplies are Php 3,010.00

**Table 22**

**Furniture and Fixtures**

**Waste and Waste Disposal**

To manage waste in our gummy candy production, we optimize ingredient use to minimize excess, choose sustainable packaging, monitor production efficiency to reduce spillage, implement composting and recycling practices, ensure proper disposal of hazardous waste, train employees on waste reduction, and regularly assess and improve waste management strategies.

