

Detailed Project Report on “**Export-Oriented Onion Dehydration & Flakes Processing Unit.**”

Client: ABC Spices & Exports LLP

Location: Nashik, Maharashtra, India

Background: The project aims to establish a state-of-the-art onion processing unit to convert surplus fresh onions into high-quality dehydrated onion flakes and powder for export markets, primarily targeting the Middle East and Europe. This initiative will address price volatility in the onion market while creating value-added export products.

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“Detailed Project Report (DPR) on Export-Oriented Onion Dehydration & Flakes Processing Unit.”

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1.0 Executive Summary

1.1 Project Overview

The project proposes the establishment of an Export-Oriented Onion Dehydration & Flakes Processing Unit by ABC Spices & Exports LLP, led by Mr. XYZ. The facility will be located in xxxxgaon, Nashik, Maharashtra, Asia's largest onion market, which ensures easy access to raw onions, logistical convenience, and reduced procurement costs.

The core objective of the project is to convert surplus fresh onions into value-added dehydrated products such as onion flakes and onion powder for the export market, primarily targeting the Middle East and Europe. This initiative is expected to stabilize income for onion growers, mitigate price volatility, and create an employment-intensive processing unit.

1.2 Promoter Profile

- Company Name: ABC Spices & Exports LLP
- Key Person: Mr. XYZ
- Experience: Over 15 years in spice and horticulture trading, with an established network in onion procurement, processing, and export.
- Vision: To establish a modern, energy-efficient, and export-compliant processing unit that sets benchmarks for quality and reliability in the international market.

1.3 Project Rationale

Onion cultivation in India, particularly in Maharashtra, has witnessed high production volatility, resulting in frequent price crashes during peak seasons. Most of the surplus onions are either sold at low prices or wasted due to inadequate storage and processing infrastructure.

Key rationale:

- Stabilize onion prices by processing surplus.
- Cater to growing international demand for dehydrated onion products.
- Generate employment and economic growth in Nashik region.

- Utilize renewable energy to reduce operational costs.

Figure 1.1: Onion Price Volatility in Maharashtra (Last 5 Years) – [Insert Chart Here]

1.4 Project Components

The project comprises the following major components:

Sr. No	Component	Description
1	Washing, Peeling & Slicing Line	Fully automated line for cleaning, peeling, and slicing onions into uniform sizes
2	Continuous Conveyor Dryer (Steam-based)	High-capacity, continuous conveyor dryer for dehydration of onion slices
3	Solar Power Plant (100 KW)	Captive solar power plant to reduce electricity costs and carbon footprint
4	Warehousing for Raw Material (500 MT)	Storage facility to handle bulk onion procurement and ensure continuous supply
5	Packaging & Export Unit	Packaging line for bulk export-ready dehydrated flakes and powder

Figure 1.2: Conceptual Layout of Processing Unit – [Insert Layout Diagram Here]

1.5 Project Investment & Funding

Particulars	Amount (₹ Crores)
Land & Civil Works	0.8
Plant & Machinery	2.2
Utilities (Solar, Water, Effluent)	0.4
Working Capital	0.8
Total Project Cost	4.2

- Funding Pattern:

- Promoter Equity: 50% (₹2.1 Cr)
- Bank Loan / Financial Institution: 50% (₹2.1 Cr)

Figure 1.3: Proposed Investment Breakdown – [Insert Pie Chart Here]

1.6 Production Capacity & Products

The processing unit will have the following annual capacity:

Product	Capacity (MT/Year)	Packaging Form
Dehydrated Onion Flakes	1,200	5–25 kg bags / bulk
Onion Powder	800	5–25 kg bags / bulk

- Raw Material Requirement: 6,000 MT of fresh onions annually.
- Expected Conversion Rate:
 - 1 MT of fresh onion → 0.2 MT of flakes
 - 1 MT of fresh onion → 0.13 MT of powder

Figure 1.4: Onion Processing Flow Chart – [Insert Process Flow Diagram Here]

1.7 Market Potential

- Domestic Market: Increasing demand from food processing units, hotels, and large catering companies.
- Global Market:
 - High demand for dehydrated onion products in Middle East, Europe, USA.
 - Importers prefer products with HACCP & ISO certifications.
 - India holds ~25–30% global share in dried onion exports, indicating significant opportunity.
- Marketing Strategy:
 - Direct exports through established trade partners.

- Participation in international food fairs and B2B exhibitions.
- Compliance with HACCP, ISO, FSSAI to ensure product acceptance in premium markets.

Figure 1.5: Target Export Markets – *[Insert Map/Chart Here]*

1.8 Working Capital & Financial Overview

Onion procurement is seasonal and capital-intensive, requiring a detailed working capital plan:

Particulars	Amount (₹ Crores)
Raw Material Inventory (3 months)	0.5
Wages & Salaries (3 months)	0.15
Utilities & Maintenance	0.05
Packaging & Logistics	0.1
Total Working Capital Requirement	0.8

Financial Highlights (1st Year Projection):

Particulars	Value (₹ Crores)
Revenue (Domestic + Export)	7.2
Operating Expenses	4.5
EBITDA	2.7
Break-even Point	~60% utilization

Figure 1.6: Revenue vs Expenses Projection – *[Insert Bar Chart Here]*

1.9 Strategic Advantages

- Located in xxxxgaon, India’s largest onion market.
- Use of solar energy reduces operational costs.
- Strong focus on export compliance (HACCP, ISO).

- Year-round supply ensured through warehousing.
 - Value addition mitigates price volatility for growers.
-

1.10 Conclusion

The proposed Export-Oriented Onion Dehydration & Flakes Processing Unit is financially viable, technically feasible, and strategically positioned to capture growing domestic and international demand. The project not only ensures sustainable revenue for the promoter but also strengthens the supply chain for onion growers, creates employment opportunities, and contributes to India's export growth in value-added horticultural products.

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2.0 Introduction / Project Background

2.1 Project Context

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