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**An Economical Evaluation of the Dehydrated Onion Industries in  
the Gujarat district of Bhavnagar's Mahuva Taluka**

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## Abstract:

The fruits and vegetables processing industries have tremendous potentials in creating income and employment for rural labour-force. This study is concerned with the problems and prospects of the cluster of onion dehydration enterprises located in Mahuva taluka Bhavnagar district of Gujarat state in India. This paper is regarding contribution of onion dehydration firm in Indian Economy. We wish to discuss about types of different product produced in large amount by onion dehydration firm, on the basis of primary data.

**Keywords:** Onion dehydration firm; competitiveness, production, establishment of firm.

## Introduction:

Present study is based on the dehydrate onion firm of Mahuva taluka of Bhavnagar district, Gujarat, India. The study is based on the primary data collected from the questionnaire base and some information was collected in the form of Secondary data from the web-site, newspaper and articles. First we gathered information about establishment of dehydration firms and latter we collect information of production produced by them. They produced mainly five items namely Kibbled, Chops, Minced, Granula and Powder. Detail tables and its graphical presentation are as follows. First four products are main products of dehydrate onion and there is no waste remain because after all the product produced remaining part of dehydrate onion converted into powder form which is also very popular in international market.

## Literature Review:

1. **Angles, S., Sundar, A., Chinnadurai, M. (2011), "Impact of Globalization on Production and Export of Turmeric in India – An Economic Analysis"** studied for the period 1974-75 to 2007-08, they studied that, India is a major supplier of turmeric to the world with more than 60 per cent share in turmeric trade. The growth in production and export of turmeric has been reported significant, because of the high demand coupled with inflation. Instability index has been worked for the production and export for pre-liberalization and post-liberalization periods. Instability has been observed high for production, export and prices of domestic and international markets and domestic and international prices have shown high integration. The countries such as USA and Japan have not been the stable importers of Indian turmeric.



2. **Serrano, Raúl, and Pinilla, Vicente (2010)**, “International Diversification And Performance In Agri-Food Firms” for time interval 1970-2012. We have studied the influence of the degree of internationalization with a measure that combines export intensity and regional diversification. According to author the internationalization process of a Spanish food firm is more regional than global. The author has conclusively confirmed the existence of a horizontal S-shaped relationship between international diversification and performance for Spanish food exporters.

On the basis of the reviewed literature the present study focused on following objectives.

- To do detailed economic analysis of dehydrate onion firms situated in Mahuva Taluka of Bhavnagar district.
- To know the Owner’s behaviour about investment and economic gain who are associated with dehydrate onion firms.
- To determine the effect on Indian Economic by earning international wealth.

In this research paper we discuss about primary data and its outcomes. As per prior information there are total 104 Firms. We gathered their basic information like year of established and whether it is registered with DSI or not. To easily understand we construct following table of general information of Dehydration Firms of Onion.

**Table 1: General Information of Dehydration Firm**

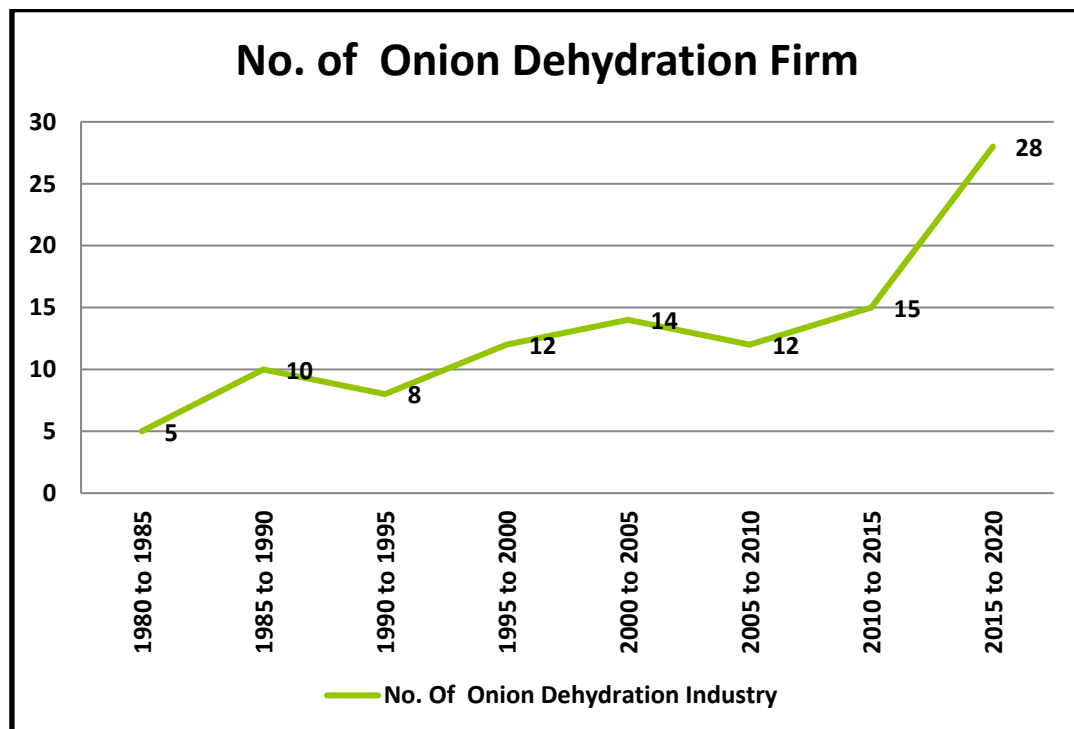
Sr. No	Year of Establishment	No. Of Onion Dehydration Firm	Percentage (%)	Name Of Reg. Office
1	1980 to 85	5	4.81	DSI
2	1985 to 90	10	9.62	DSI
3	1990 to 95	8	7.69	DSI
4	1995 to 2000	12	11.54	DSI
5	2000 to 05	14	13.46	DSI
6	2005 to 10	12	11.54	DSI
7	2010 to 15	15	14.42	DSI



8	2015 to 20	28	26.92	DSI
Total		104	100	
Source: Author's calculation based on primary data				

From the following figure 1 we can easily shows the trend that onion dehydration firms are increased as it is fast growing industries. Even it plays of wide role to develop Indian Economy. Mahuva, home to almost 80% of onion dehydration units, finds itself catering more and more to domestic needs, as opposed to export demand. A surge of ready-to-eat and fast foods is expected to take domestic consumption from 25% of Mahuva's dehydrated product to a 100% very soon.

**Figure 1: Graphical Presentation of General Information of Dehydration Firm**



## Product

## Product Image and Description

### Kibbled



**Kibbled is widely used in specialty ethnic food preparations, dry soups, mixes, canned/dried/frozen vegetable mixes, dry casserole mixes, and stuffing mixes. It is also known as Dehydrated Onion Flakes.**

Value Addition:

Approximately 7.5 Kg fresh onion of cost around 150 Rs. required to Produce 1 Kg Dehydrated Onion Kibble and extra 150 Rs. another cost to prepare it. So total cost of producing 1 Kg Dehydrated Onion kibbled is 300 Rs., whose wholesale selling price is 650 to 750 Rs. per Kg in European market. Approximately 40% revenue generated by supplying Dehydrated onion Kibbled product to European Market. Dehydrated onion Kibbled is highly demanded product in European Market.

### Powder



**Dehydrated Onion Powder is a very common component of spices mix all over the world.**

Value Addition: To produce powder of dehydrated onion powder no requirement of any additional fresh onion. To Produce 1 Kg Dehydrated Onion powder 150 Rs. cost to prepare it. So total cost of producing 1 Kg Dehydrated Onion Powder is 150 Rs., whose wholesale selling price is around 550 per Kg. in European market. Approximately 65% revenue generated by supplying Dehydrated onion Powder product to European Market. Dehydrated onion powder is same demanded compare to Dehydrated onion Kibbled product in European Market.



We construct the following tables of various items produced from Onion by dehydrating it. We consider main five items produced namely Kibbled, Chops, Minced, Granula and Powder which is described earlier. We construct five tables' year wise and we distribute all 50 Onion dehydration Firms as their production quantity. All 50 Onion dehydration Firms produced all that five items mention above and we consider their production in tons from 0 to 2000 tons & more.

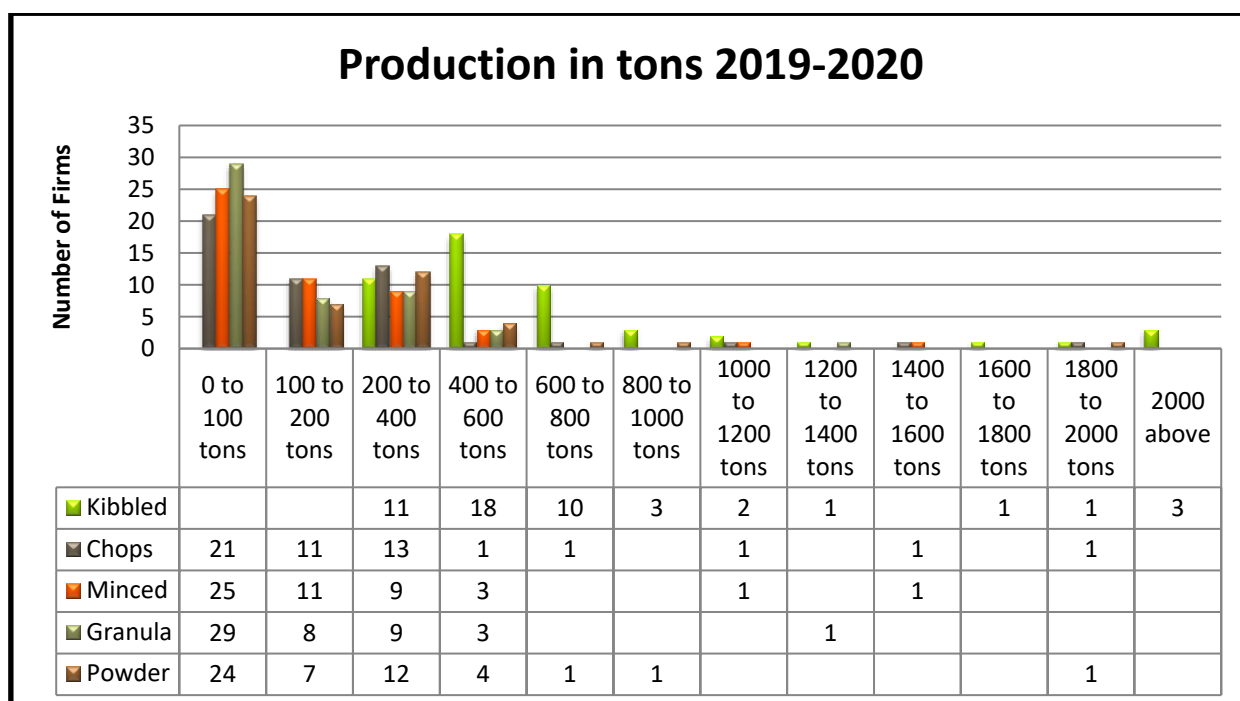
We construct the following table 2 of Production done in financial Year 2019-2020. In this table we consider five items namely kibbled, chops, minced, granula and powder with their different quantity produced by Firms.

**Table 2: Production of Dehydrate Onion Product by various Firms in Financial Year 2019-2020**

Sr. No	Details	Production in tons 2019-2020									
		Kibbled		Chops		Minced		Granula		Powder	
		No.	%tage	No.	%tage	No.	%tage	No.	%tage	No.	%tage
1	0 to 100 tons			21	42	25	50	29	58	24	48
2	100 to 200 tons			11	22	11	22	8	16	7	14
3	200 to 400 tons	11	22	13	26	9	18	9	18	12	24
4	400 to 600 tons	18	36	1	2	3	6	3	6	4	8
5	600 to 800 tons	10	20	1	2					1	2
6	800 to 1000 tons	3	6							1	2
7	1000 to 1200 tons	2	4	1	2	1	2				
8	1200 to 1400 tons	1	2					1	2		
9	1400 to 1600 tons			1	2	1	2				
10	1600 to 1800 tons	1	2								
11	1800 to 2000 tons	1	2	1	2					1	2
12	2000 above	3	6								

Total	50	100	50	100	50	100	50	100	50	100
Source: FAO Stat										

**Figure 3: Graphical Presentation of Dehydrate Onion Product by various Firms in Financial Year 2019-2020**



From the above figure 3 we can say that Maximum production of Kibbled is between 400 to 600 tons produced by 18 onion dehydration Firms, maximum production of Chops is between 0 to 100 tons produced by 21 onion dehydration Firms, maximum production of Minced is between 0 to 100 tons produced by 25 onion dehydration Firms, maximum production of Granula is between 0 to 100 tons produced by 29 onion dehydration Firms and maximum production of Kibbled is between 400 to 600 tons produced by 24 onion dehydration Firms in financial year 2019-2020.



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